

# SB5000 Series

Vehicle Serial Bus Analyzer Communication Interface

USER'S MANUAL



Thank you for purchasing the SB5000 Vehicle Serial Bus Analyzer.

This Communication Interface User's Manual describes the functions and commands of the following communication interfaces.

- · USB Interface
- Ethernet Interface (Optional)
- · GP-IB Interface

To ensure correct use, please read this manual thoroughly before beginning operation. After reading the manual, keep it in a convenient location for quick reference whenever a question arises during operation.

The following manuals are provided for the SB5000. Please read all of them.

Manual Title	Manual No.	Description
SB5000 Series Vehicle Serial Bus Analyzer User's Manual	IM 701361-01E	Explains all functions and procedures of the SB5000 excluding the communication functions.
SB5000 Series Vehicle Serial Bus Analyzer Communication Interface User's Manual (in CD)	IM 701361-17E	This manual. Explains the communication interface functions of the SB5000.
DL9000 Series Digital Oscilloscope / SB5000 Series Vehicle Serial Bus Analyzer Power Supply Analysis Function User's Manual	IM 701310-61E	Explains the operating procedures of the optional power supply analysis function.

#### **Notes**

- The contents of this manual are subject to change without prior notice as a result of continuing improvements to the instrument's performance and functions.
- Every effort has been made in the preparation of this manual to ensure the accuracy
  of its contents. However, should you have any questions or find any errors, please
  contact your nearest YOKOGAWA dealer.
- Copying or reproducing all or any part of the contents of this manual without the permission of Yokogawa Electric Corporation is strictly prohibited.

# **USB Interface and Ethernet Interface**

- The items below are needed on the PC to use the communication functions via the USB interface.
  - SB5000 Series Library (TMCTL)
  - USB device driver for connecting the PC and the SB5000 series
- The items below are needed on the PC to use the communication functions via the Ethernet interface.
  - SB5000 Series Library (TMCTL)

The library and driver above can be downloaded from the following Web page. http://www.yokogawa.com/tm/tm-softdownload.htm

# **Sample Programs**

Sample programs can be downloaded from the following Web page.

http://www.yokogawa.com/tm/tm-softdownload.htm

1st Edition: January 2008 (YK)

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# **Revisions**

1st Edition: January 2008

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# **How to Use This Manual**

# Structure of This Manual

This user's manual consists of the following sections.

Chapter 1 Overview of the USB Interface

Describes the functions and specifications of the USB interface.

**Chapter 2** Overview of the Ethernet Interface (Optional)

Describes the functions and specifications of the Ethernet interface.

Chapter 3 Overview of the GP-IB Interface

Describes the functions and specifications of the GP-IB interface.

**Chapter 4 Before Programming** 

Describes the syntax used to transmit commands.

Chapter 5 Command

Describes all the commands one by one.

Chapter 6 Status Reports

Describes the status byte, various registers, and queues.

**Appendix** 

Describes reference material such as an ASCII character code table.

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# **Conventions Used in This Manual**

#### Safety Markings

The following markings are used in this manual.



Improper handling or use can lead to injury to the user or damage to the instrument. This symbol appears on the instrument to indicate that the user must refer to the user's manual for special instructions. The same symbol appears in the corresponding place in the user's manual to identify those instructions. In the manual, the symbol is used in conjunction with the word "WARNING" or "CAUTION."

# WARNING

Calls attention to actions or conditions that could cause serious or fatal injury to the user, and precautions that can be taken to prevent such occurrences.

# **CAUTION**

Calls attentions to actions or conditions that could cause light injury to the user or damage to the instrument or user's data, and precautions that can be taken to prevent such occurrences.

#### Note

Calls attention to information that is important for proper operation of the instrument.

#### **Notations Used on Pages Describing Operating Procedures**

On pages that describe the operating procedures in Chapter 1 through 3, the following notations are used to distinguish the procedures from their explanations.

#### Procedure

This subsection contains the operating procedure used to carry out the function described in the current chapter. All procedures are written with inexperienced users in mind; experienced users may not need to carry out all the steps.

# Explanation

This section describes the setup items and the limitations regarding the procedures.

#### **Notations Used in the Procedures**

#### Panel Keys and Soft keys

Bold characters used in the procedural explanations indicate characters that are marked on the panel keys or the characters of the soft keys or menus displayed on the screen.

#### SHIFT+Panel Key

SHIFT+key means you will press the SHIFT key to turn ON the SHIFT key followed by the operation key. The setup menu marked in purple above (or below) the panel key that you pressed appears on the screen.

#### Rotary knob/SET key

Rotary knob/SET key indicates selecting or setting parameters and entering values using the rotary knob, the SET key, and other keys. For details on the procedure, see section 4.1 or 4.2 in the User's Manual IM701361-01E.

#### Unit

k Denotes 1000. Example: 100 kS/s

K Denotes 1024. Example: 459 KB (file data size)

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# **Symbols Used in the Syntax**

The following table indicates symbols that are used in the syntax mainly in chapters 4 and 5. These symbols are referred to as BNF (Backus-Naur Form) symbols. For details on the data, see pages 4-5 and 4-6.

Symbol	Meaning	Example	Example of Input
<>	Defined value	CHANnel< x> < x> = 1 to 4	-> CHANNEL2
{} 	Select from values given in {} Exclusive OR	COUPling {AC DC DC50 GND}	-> COUPLING AC
	Can be omitted	TRIGger [:SIMPle]:SLOPe	-> TRIGger:SLOPe

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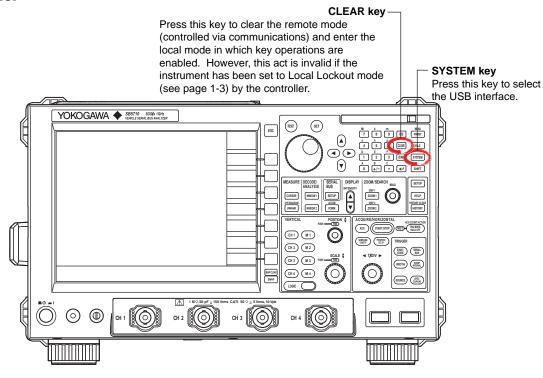
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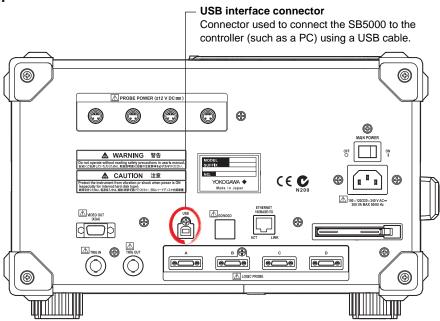
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# 1.1 Part Names and Functions

# **Front Panel**



# **Rear Panel**



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# 1.2 USB Interface Functions and Specifications

#### **USB Interface Functions**

#### **Reception Function**

You can specify the same settings as those specified by front panel key operations. Receives output requests for measured and computed data, setup parameters of the panel, and error codes.

#### **Transmission Function**

Outputs measured and computed data.

Outputs panel setup parameters and the status byte.

Outputs error codes that have occurred.

# **USB Interface Specifications**

Electrical and mechanical specifications: Conforms to USB Rev. 2.0

Connector: Type B connector (receptacle)

Number of ports:

Power supply: Self-powered

PC system supported: PC running Windows 2000 or Windows XP with a standard USB

port (a separate device driver is needed to connect to a PC).

#### **Data Rate**

Controller: PC (Pentium4 3.4 GHz, USB2.0) and OS (Windows XP Professional

SP1)

Language used: Visual C++

The table below lists the reference response times when outputting waveform data of analog signals.

Number of Data Points	Word Data	ASCII Data
2500	Approx. 51 ms	Approx. 0.469 s
125000	Approx. 193 ms	Approx. 22.766 s
1250000	Approx. 1606 ms	Approx. 224.890 s
2500000	Approx. 3188 ms	Approx. 451.297 s
6250000	Approx. 7841 ms	Approx. 1127.625 s

The table below lists the reference response times when outputting waveform data of logic signals.

Number of Data Points	Word Data	ASCII Data	
2500	Approx. 78 ms	Approx. 0.141 s	
125000	Approx. 625 ms	Approx. 3.516 s	
1250000	Approx. 5547 ms	Approx. 34.531 s	
2500000	Approx. 11156 ms	Approx. 69.375 s	
6250000	Approx. 27812 ms	Approx. 173.266 s	

# **Switching between Remote and Local Modes**

# When Switching from Local to Remote Mode

If the SB5000 receives a ":COMMunicate:REMote ON" command from the PC when it is in the local mode, it switches to the remote mode.

- REMOTE is displayed in the center of the upper section of the screen.
- · All keys except the CLEAR key are disabled.
- Settings entered in local mode are retained even when the SB5000 switches to remote mode.

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#### When Switching from Remote to Local Mode

Pressing **CLEAR** in remote mode puts the instrument in local mode. However, this is void when the SB5000 has received a ":COMMunicate:LOCKout ON" command from the PC (local lockout condition). When the SB5000 receives a ":COMMunicate:REMote OFF" command from the PC, the SB5000 switches to the local mode regardless of the local lock condition.

- REMOTE indication in the center of the upper section of the screen disappears.
- · Key operations are enabled.
- Settings entered in remote mode are retained even when the SB5000 switches to local mode.

#### Note -

The USB interface cannot be used simultaneously with another interface (Ethernet or GP-IB interface).

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# **Connection via the USB Interface** 1.3

# Precautions to Be Taken When Making Connections Connect the USB cable by inserting the connector firmly into the USB connector.

- When connecting multiple devices using USB hubs, connect the SB5000 to the USB hub that is closest to the controller.
- Do not insert the USB cable into the GO/NO-GO output terminal. If you do, the instrument may malfunction.

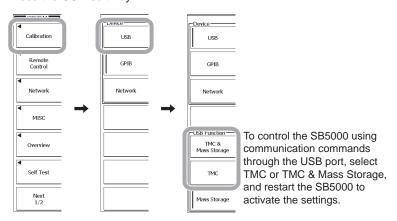
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# 1.4 Setting the SB5000 (USB)

# **Procedure**

# **Selecting the Communication Interface**

- 1. Press SYSTEM.
- 2. Press the Remote Control soft key.
- 3. Press the USB soft key.



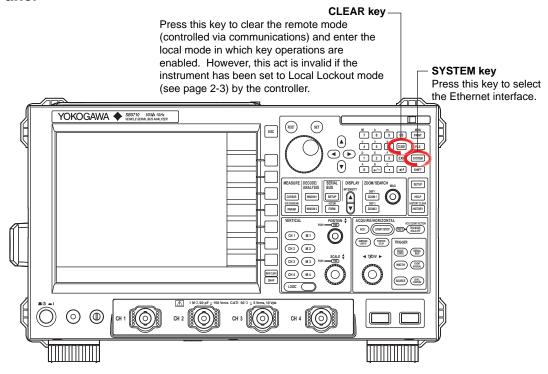
#### Note .

- Only the communication interface selected by Remote Control is enabled. The SB5000 does not accept commands that are transmitted to other unselected communication interfaces.
- To control the SB5000 remotely using communication commands through the USB port, select "TMC" in the menu above, and carry out the procedure below.
  - You must restart the SB5000 to activate the TMC, Mass Storage, or TMC & Mass Storage setting. Wait at least 10 seconds after you turn the power switch OFF, and then turn the switch back ON.
  - Install YOKOGAWA's TMC (Text and Measurement Class) driver into your PC. To obtain YOKOGAWA's USB TMC driver, contact your nearest YOKOGAWA dealer or access the following USB driver page at our Web site and download it. http://www.yokogawa.com/tm/tm-softdownload.htm
  - Only use the USB TMC driver (or software) provided by YOKOGAWA.
- The SB5000 can be controlled remotely even when TMC & Mass Storage is enabled
  and the SB5000 is connected to the PC. However, file operation is not possible using
  communication commands. In addition, file operation is also not possible using the keys on the
  SB5000. Disconnect the PC or activate the TMC setting and connect the SB5000 to the PC.
  File operation is also not possible using keys on the SB5000 when the Mass Storage setting is
  enabled.

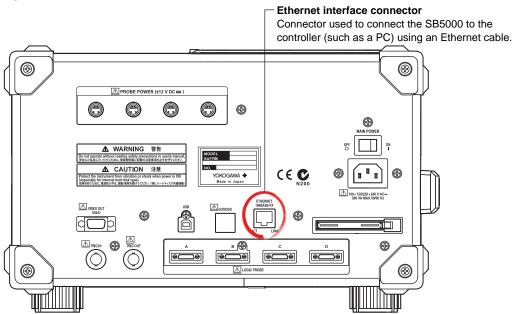
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# 2.1 Part Names and Functions

# **Front Panel**



# **Rear Panel**



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# 2.2 Ethernet Interface Functions and Specifications

# **Ethernet Interface Functions**

### **Reception Function**

You can specify the same settings as those specified by front panel key operations. Receives output requests for measured and computed data, setup parameters of the panel, and error codes.

#### **Transmission Function**

Outputs measured and computed data.

Outputs panel setup parameters and the status byte.

Outputs error codes that have occurred.

# **Ethernet Interface Specifications**

Electrical and mechanical specifications: Conforms to IEEE802.3

Number of simultaneous connections: 1

Port No.: 10001/tcp

#### **Data Rate**

Controller: PC (Pentium4 3.4 GHz) and OS (Windows XP Professional SP1)

Network adapter: Corega FEther PCI-TXL

Language used: Visual C++

The table below lists the reference response times when outputting waveform data of analog signals.

Number of Data Points	Word Data	ASCII Data
2500	Approx. 16ms	Approx. 0.391 s
125000	Approx. 259 ms	Approx. 19.063 s
1250000	Approx. 2313 ms	Approx. 189.812 s
2500000	Approx. 4595 ms	Approx. 379.750 s
6250000	Approx. 10400 ms	Approx. 950.532 s

The table below lists the reference response times when outputting waveform data of logic signals.

Number of Data Points	Word Data	ASCII Data	
2500	Approx. 31 ms	Approx. 0.078 s	
125000	Approx. 704 ms	Approx. 3.530 s	
1250000	Approx. 6768 ms	Approx. 35.327 s	
2500000	Approx. 14081 ms	Approx. 70.952 s	
6250000	Approx. 34523 ms	Approx. 177.313 s	

# Switching between Remote and Local Modes

# When Switching from Local to Remote Mode

If the SB5000 receives a ":COMMunicate:REMote ON" command from the PC when it is in the local mode, it switches to the remote mode.

- REMOTE is displayed in the center of the upper section of the screen.
- All keys except the CLEAR key are disabled.
- Settings entered in local mode are retained even when the SB5000 switches to remote mode.

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#### When Switching from Remote to Local Mode

Pressing **CLEAR** in remote mode puts the instrument in local mode. However, this is void when the SB5000 has received a ":COMMunicate:LOCKout ON" command from the PC (local lockout condition). When the SB5000 receives a ":COMMunicate:REMote OFF" command from the PC, the SB5000 switches to the local mode regardless of the local lock condition.

- REMOTE indication in the center of the upper section of the screen disappears.
- · Key operations are enabled.
- Settings entered in remote mode are retained even when the SB5000 switches to local mode.

#### Note:

The Ethernet interface cannot be used simultaneously with another interface (USB or GP-IB interface).

# **User Authentication Function**

When using the Ethernet interface, a user name and password are required when connecting to the network. If the SB5000 series library (TMCTL) version is 1.40 or later, the password is encrypted with an MD5 algorithm (RSA Data Security, Inc. MD5 Message-Digest Algorithm) and sent to the SB5000.

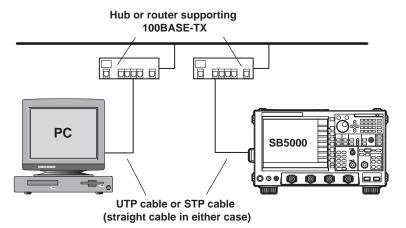
The user name and password are set on the Remote Control setup screen under the SYSTEM menu of the SB5000. For the setup procedure, see section 2.4, "Setting the SB5000 (Network)."

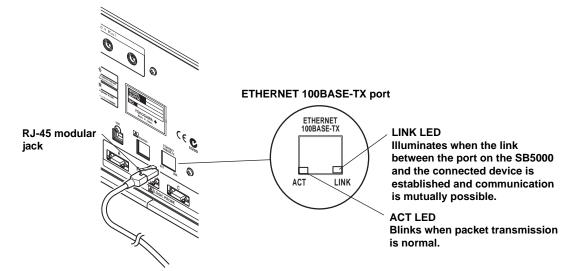
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# 2.3 Connecting the Ethernet Interface

#### **Connection Procedure**

Connect a UTP (Unshielded Twisted-Pair) cable or an STP (Shielded Twisted-Pair) cable that is connected to a hub, for example, to the 100BASE-TX port on the rear panel of the SB5000.





# **Precautions to Be Taken When Making Connections**

- Be sure to use a straight cable via a hub for the connection between the SB5000 and the PC. Operation is not guaranteed when the SB5000 and the controller are connected one-to-one using a cross cable.
- When using a UTP cable (straight cable), use a cable of category 5.

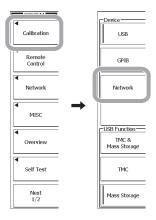
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# 2.4 Setting the SB5000 (Network)

# **Procedure**

# **Selecting the Communication Interface**

- 1. Press SYSTEM.
- 2. Press the Remote Control soft key. The Device menu appears.
- 3. Press the Network soft key.

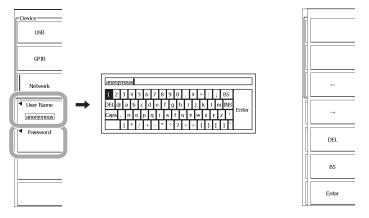


#### Note

Only the communication interface selected by Remote Control is enabled. The SB5000 does not accept commands that are transmitted to other unselected communication interfaces.

#### **User Name and Password**

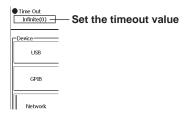
- 4. Press the UserName soft key. A keyboard appears.
- **5.** Enter the user name according to the procedures given in section 4.2 in the *SB5000 User's Manual (IM701361-01E)*.
- 6. Likewise, enter the password.



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#### **Setting the Timeout Value**

7. Set the timeout value using the rotary knob.



#### Note -

- For details on the keyboard (software keyboard) operation, see section 4.2, "Entering Values and Character Strings" in the SB5000 User's Manual (IM701361-01E).
- · User name and password are case-sensitive.

### **Setting the TCP/IP Parameters**

To use the Ethernet interface function, the following TCP/IP settings must be entered.

- IP address
- Subnet mask
- Default gateway

For details on how to enter these parameters, see section 16.2, "Setting the TCP/IP Parameters" in the SB5000 User's Manual (IM701361-01E).

# **Explanation**

Enter the following settings when using a controller to set information that can be specified through key operation on the SB5000 or when outputting setting parameters or output waveform data to the controller.

#### **Setting the User Name and Password**

The Ethernet interface has a user verification function. A user name and password for the SB5000 are set in advance.

#### · Setting the User Name

Enter the user name using up to 30 characters. The default setting is "anonymous."

# Setting the Password

Enter the password using up to 30 characters.

#### **Setting the Timeout Value**

The connection to the SB5000 is automatically dropped if there is no access to the SB5000 for the specified time.

#### **Setting the TCP/IP Parameters**

For details, see section 16.2, "Setting the TCP/IP Parameters" in the SB5000 User's Manual (IM701361-01E).

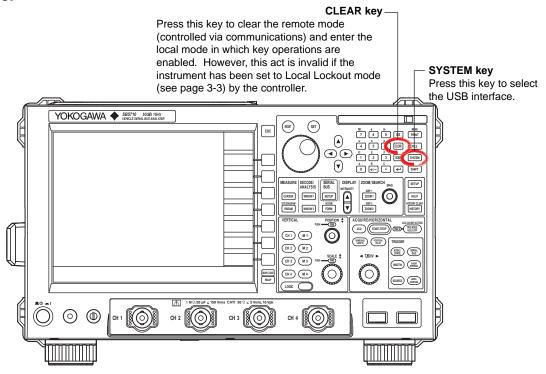
#### Note:

- If the user authentication fails, connection to the SB5000 is dropped.
- A password is not required if the user name is "anonymous."

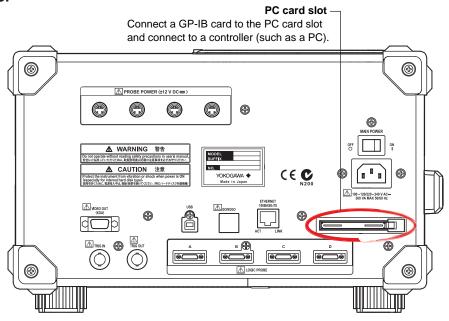
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# 3.1 Part Names and Functions

# **Front Panel**



# **Rear Panel**



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# 3.2 Connecting the GP-IB Card

**GP-IB Card** 

Use the NI PCMCIA-GPIB card by National Instruments.

**GP-IB Cable** 

Use the GP-IB cable that comes with the GP-IB card.

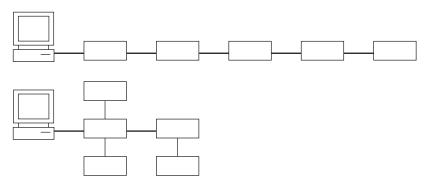
#### **Connection Procedure**

Insert the GP-IB card into the SB5000 PC card slot.

GP-IB cable GP-IB card

# **Precautions to Be Taken When Making Connections**

- For the handling of the GP-IB card, see the manual that comes with the GP-IB card.
- Attach the GP-IB correctly with the front face up.
- Connect the GP-IB card to the SB5000 PC card slot first. Then, turn the SB5000 ON.
- Multiple cables can be used to connect multiple devices. However, no more than 15 devices including the controller can be connected on a single bus.
- When connecting multiple devices, each device must have its own unique address.
- Use a cable of length 2 m or less for connecting the devices.
- Make sure the total cable length does not exceed 20 m.
- When communicating, have at least two-thirds of the devices turned ON.
- When connecting multiple devices, connect them in a star or linear configuration (see the figure below). Do not wire them in a loop or parallel configuration.



# CAUTION

When connecting or disconnecting communication cables, make sure to turn OFF the PC and the SB5000. Otherwise, erroneous operation or damage to the internal circuitry may result.

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# 3.3 GP-IB Interface Functions

#### **GP-IB Interface Functions**

#### **Listener Capability**

- All of the information that you can set with the panel keys can be set through the GP-IB interface except for turning ON/OFF the power and setting the communication parameters.
- Receives commands from a controller requesting the output of setup information, waveform data, and other information.
- · Also receives status report commands.

#### **Talker Capability**

Outputs setup information, waveform data, and other information.

Note.

Listen-only, talk-only, and controller capabilities are not available on the SB5000.

# Switching between Remote and Local Modes

#### When Switching from Local to Remote Mode

Receiving a REN (Remote Enable) message from the PC when the SB5000 is in the local mode causes the SB5000 to switch to the remote mode.

- REMOTE is displayed in the center of the upper section of the screen.
- All keys except the CLEAR key are disabled.
- Settings entered in local mode are retained even when the SB5000 switches to remote mode.

#### When Switching from Remote to Local Mode

Pressing **CLEAR** in remote mode puts the SB5000 in local mode. However, this act is invalid if the SB5000 has been set to Local Lockout mode (see page 3-6) by the controller.

- REMOTE indication in the center of the upper section of the screen disappears.
- Key operations are enabled.
- Settings entered in remote mode are retained even when the SB5000 switches to local mode.

The GP-IB interface cannot be used simultaneously with another interfaces (USB or network interfaces).

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# 3.4 GP-IB Interface Specifications

# **GP-IB Interface Specifications**

Electrical and mechanical specifications: Conforms to IEEE St'd 488-1978

Functional specifications: See table below.

Protocol: Conforms to IEEE St'd 488.2-1992

Code used: ISO (ASCII) code
Mode: Addressable mode

Address setting: The address can be set in the range from 0 to

30 on the GP-IB setting screen that is played

using the MISC menu.

Clear remote mode: Remote mode can be cleared by pressing

**CLEAR** except when the SB5000 has been set to Local Lockout mode by the controller.

# **Functional specifications**

Function	Subset Name	Description
Source handshaking	SH1	Full source handshaking capability
Acceptor handshaking	AH1	Full acceptor handshaking capability
Talker	T6	Basic talker capability, serial polling, untalk on MLA (My Listen Address), and no talk-only capability
Listener	L4	Basic listener capability, unlisten on MTA (My Talk Address), and no listen-only capability.
Service request	SR1	Full service request capability
Remote local	RL1	Full remote/local capability
Parallel polling	PP0	No parallel polling capability
Device clear	DC1	Full device clear capability
Device trigger	DT0	No device trigger capability
Controller	C0	No controller capability
Electrical characteristics	E1	Open collector

#### **Data Rate**

Controller: PC (Pentium4 3.4 GHz, USB 2.0), OS (Windows XP Professional SP1)

Language used: Visual C++

The table below lists the reference response times when outputting waveform data of analog signals.

Number of Data Points	Word Data	ASCII Data
2500	Approx. 16 ms	Approx. 0.390 s
125000	Approx. 344 ms	Approx. 19.453 s
1250000	Approx. 3172 ms	Approx. 194.516 s
2500000	Approx. 6282 ms	Approx. 389.047 s
6250000	Approx. 15641 ms	Approx. 971.985 s

The table below lists the reference response times when outputting waveform data of logic signals.

Number of Data Points	Word Data	ASCII Data	
2500	Approx. 32 ms	Approx. 0.078 s	
125000	Approx. 859 ms	Approx. 3.609 s	
1250000	Approx. 8707 ms	Approx. 36.172 s	
2500000	Approx. 17365 ms	Approx. 72.500 s	
6250000	Approx. 43678 ms	Approx. 182,000 s	

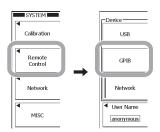
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# 3.5 Setting the SB5000 (GP-IB)

# **Procedure**

# **Selecting the Communication Interface**

- 1. Press SYSTEM.
- 2. Press the Remote Control soft key to display the Device menu.
- 3. Press the GP-IB soft key.

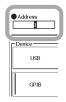


#### Note

Only the communication interface selected by Remote Control is enabled. The SB5000 does not accept commands that are transmitted to other unselected communication interfaces.

# **Setting the Address**

4. Turn the rotary knob to set the address.



# **Explanation**

Enter the following settings when using a controller to set information that can be specified through key operation on the SB5000 or when outputting setting parameters or output waveform data to the controller.

#### **Setting the Address**

Set the address of the SB5000 within the following range for the addressable mode. 0 to 30

Each device that can be connected via GP-IB has a unique address within the GP-IB system. This address is used to distinguish the device from others. Therefore, when you connect the SB5000 to a PC, for example, make sure to assign a unique address to the SB5000.

#### Note

Do not change the address while the controller is communicating with the SB5000 or other devices over the GP-IB.

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# 3.6 Responses to Interface Messages

# **Responses to Interface Messages**

# Responses to a Uni-Line Message

#### IFC (Interface Clear)

Clears the talker and listener functions. Stops output if data are being output.

#### **REN** (Remote Enable)

Switches between the remote and local modes.

IDY (Identify) is not supported.

#### Responses to a Multi-Line Message (Address Command)

#### GTL (Go To Local)

Switches to the local mode.

#### **SDC (Selected Device Clear)**

- Clears the program message (command) being received and the output queue (see page 6-5).
- \*OPC and \*OPC? commands in execution are void.
- The \*WAI and COMMunicate:WAIT commands are immediately terminated.

PPC (Parallel Poll Configure), GET(Group Execute Trigger), and TCT (Take Control) are not supported.

#### Responses to a Multi-Line Message (Universal Command)

#### LLO (Local Lockout)

Disables **CLEAR** on the front panel to prohibit switching to the local mode.

#### **DCL** (Device Clear)

Same operation as the SDC message.

# SPE (Serial Poll Enable)

Sets the talker function on all devices on the bus to serial polling mode. The controller polls the devices in order.

### SPD (Serial Poll Disable)

Clears the serial polling mode of the talker function on all devices on the bus.

PPU (Parallel Poll Unconfigure) is not supported.

#### What Are Interface Messages

Interface messages are also referred to as interface commands or bus commands. They are commands that are issued by the controller. They are classified as follows:

#### **Uni-Line Messages**

A single control line is used to transmit uni-line messages. The following three types are available.

- IFC (Interface Clear)
- REN (Remote Enable)
- IDY (Identify)

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#### **Multi-Line Messages**

Eight data lines are used to transmit multi-line messages. The messages are classified as follows:

#### **Address Commands**

These commands are valid when the instrument is designated as a listener or as a talker. The following five types are available.

Commands that are valid on an instrument that is designated as a listener

- GTL (Go To Local)
- SDC (Selected Device Clear)
- PPC (Parallel Poll Configure)
- GET (Group Execute Trigger)

Commands that are valid on an instrument that is designated as a talker

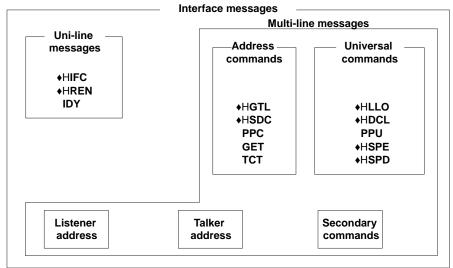
• TCT (Take Control)

#### **Universal commands**

These commands are valid on all instruments regardless of the listener and talker designations. The following five types are available.

- LLO (Local Lockout)
- DCL (Device Clear)
- PPU (Parallel Poll Unconfigure)
- SPE (Serial Poll Enable)
- SPD (Serial Poll Disable)

In addition, listener address, talker address, and secondary commands are also considered interface messages.



Interface messages that SB5000 supports are indicated with ♦ marks.

# Note:

#### The Differences between SDC and DCL

In multi-line messages, SDC messages are those that require talker or listener designation and DCL messages are those that do not require the designation. Therefore, SDC messages are directed at a particular instrument while DCL messages are directed at all instruments on the bus.

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# 4.1 Messages

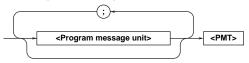
#### Messages

Messages are used to exchange information between the controller and the instrument. Messages that are sent from the controller to the instrument are called program messages and messages that are sent back from the instrument to the controller are called response messages.

If a program message contains a message unit that requests a response (a query), the instrument returns a response message upon receiving the program message. A single response message is always returned in response to a single program message.

### **Program Messages**

The program message format is shown below



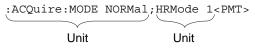
#### <Program Message Unit>

A program message consists of zero or more program message units; each unit corresponds to one command. The instrument executes the received commands in order.

Each program message unit is separated by a semicolon (;).

For details regarding the format of the program message unit, see the next section.

#### Example



#### <PMT>

PMT is a program message terminator. The following three types are available.

NL (New Line): Same as LF (Line Feed). ASCII code "0AH"

^EOM: The END message as defined by USBTMC

(The data byte that is sent simultaneously with the END message is the last data of the

program message.)

NL^EOM: NL with an END message added

(NL is not included in the program

message.)

#### • Program Message Unit Format

The program message unit format is shown below



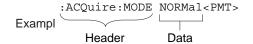
#### <Program Header>

The program header indicates the command type. For details, see page 4-3.

#### <Program Data>

If certain conditions are required in executing a command, program data is added. A space (ASCII code "20H") separates the program data from the header. If there are multiple sets of program data, they are separated by commas (,).

For details, see page 4-5.



#### **Response Messages**

The response message format is shown belo.



#### <Response Message Unit>

A response message consists of one or more response message units; each response message unit corresponds to one response.

Response message units are separated by a semicolon (;).

For details regarding the format of the response message unit, see the next section.

#### Exampe



#### <RMT>

A response message terminator. It is NL^EOM.

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#### • Response Message Unit Format

The response message unit format is shown belw.

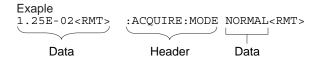


#### <Response Header>

A response header sometimes precedes the response data. A space separates the data from the header. For details, see page 4-4.

#### <Response Data>

Response data contains the content of the response. If there are multiple sets of response data, they are separated by commas (,). For details, see page 4-5.



If there are multiple queries in a program message, responses are made in the same order as the queries. In most cases, a single query returns a single response message unit, but there are a few queries that return multiple units. The first response message unit always corresponds to the first query, but the n<sup>th</sup> response unit may not necessarily correspond to the n<sup>th</sup> query. Therefore, if you want to make sure that every response is retrieved, divide the program messages into individual messages.

# **Precautions to Be Taken when Transferring Messages**

- If a program message that does not contain a query is sent, the next program message can be sent at any time.
- If a program message that contains a query is sent, a response message must be received before the next program message can be sent. If the next program message is sent before the response message is received in its entirety, an error occurs. The response message that was not received is discarded.
- If the controller tries to receive a response message when there is none, an error occurs. If the controller tries to receive a response message before the transmission of the program message is complete, an error occurs.

 If a program message containing multiple message units is sent, and the message contains incomplete units, the instrument attempts to execute the ones that are believed to be complete. However, these attempts may not always be successful. In addition, if the message contains queries, the responses may not be returned.

#### Deadlock

The instrument can store in its buffer program and response messages of length 1024 bytes or more (The number of available bytes varies depending on the operating conditions). When both the transmit and receive buffers become full at the same time, the instrument can no longer continue to operate. This state is called a deadlock. In this case, operation can be resumed by discarding the program message. Deadlock will not occur if the program message (including the <PMT>) is kept below 1024 bytes. Furthermore, deadlock never occurs if a program message does not contain a query.

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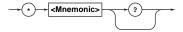
# 4.2 Commands

#### Commands

There are three types of commands (program headers) that are sent from the controller to the instrument. They differ in their program header formats.

#### **Common Command Header**

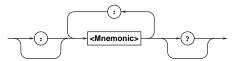
Commands that are defined in the USBTMC-USB488 are called common commands. The header format of a common command is shown below. An asterisk (\*) is always placed in the beginning of a cmmand.



Common command example: \*CLS

#### **Compound Header**

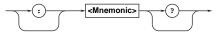
Dedicated commands used by the instrument are classified and arranged in a hierarchy according to their functions. The format of a compound header is shown below. A colon (:) must be used to specify a lower hiearchy.



Compound header example: :ACQuire:MODE

#### Simple Header

These commands are functionally independent and do not have a hierarchy. The format of a simple header is shownbelow.



Simple header example: :STARt

#### Note

A <mnemonic> is a character string made up of alphanumeric characters.

#### **When Concatenating Commands**

### Command Group

A command group is a group of commands that have common compound headers arranged in a hierarchy. A command group may contain sub-groups.

Example Group of commands related to acquisition

:ACQuire:AVERage:COUNt

:ACQuire:MODE

:ACQuire:AVERage:EWEight

:ACQuire:REPetitive

:ACQuire:RLENgth

:ACQuire:INTERLeave

# When Concatenating Commands of the Same Group

The instrument stores the hierarchical level of the command that is currently being executed, and performs analysis on the assumption that the next command sent will also belong to the same level. Therefore, common header sections can be omitted for commands belonging to the same group.

### When Concatenating Commands of Different Groups

If the following command does not belong to the same group, a colon (:) is placed in front of the header (cannot be omitted).

#### • When Concatenating Simple Headers

If a simple header follows another command, a colon (:) is placed in front of the simple header (cannot be omitted).

Example :ACQuire:MODE NORMal;:
 STARt<PMT>

#### • When Concatenating Common Commands

Common commands that are defined in the USBTMC-USB488 are independent of hierarchy. Colons (:) are not needed before a common command.

Example :ACQuire:MODE NORMal;\*CLS;
 INTERLeave 1<PMT>

#### • When Separating Commands with <PMT>

If a terminator is used to separate two commands, each command is a separate message. Therefore, the common header must be specified for each command even when commands belonging to the same command group are being concatenated.

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#### **Upper-Level Query**

An upper-level query is a query in which a question mark (?) is appended to the highest level command of a group. Execution of an upper-level query allows all settings that can be specified in the group to be received at once. Some query groups which are comprised of more than three hierarchical levels can output all the lower level settings.

The response to an upper-level query can be transmitted as a program message back to the instrument. In this way, the settings that existed when the upper-level query was made can be restored. However, some upper-level queries do not return setup information that is not currently in use. It is important to remember that not all the group's information is necessarily returned as part of a response.

#### **Header Interpretation Rules**

The instrument interprets the header that is received according to the rules below.

Mnemonics are not case sensitive.
 Example "CURSor" can also be written as "cursor" or "Cursor."

The lower-case section of the header can be omitted.

Example "CURSOr" can also be written as "CURSO" or "CURS."

 The question mark (?) at the end of a header indicates that it is a query. The question mark (?) cannot be omitted.

Example The shortest abbreviation for CURSor? is CURS?.

• If the <x> (value) at the end of a mnemonic is omitted, it is interpreted as a 1.

Example If "CHANnel<x>" is written as "CHAN," it means "CHANnel1."

 The section enclosed by braces ([]) can be omitted.

Example HISTORY[:CURRent]:MODE can also be written as HIST:MODE.

However, the last section enclosed by braces ([]) cannot be omitted in an upper-level query.

Example "HISTORY?" and "HISTORY: CURRent?" are different queries.

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# 4.3 Response

#### Response

When the controller sends a message unit that has a question mark (?) in its program header (query), the instrument returns a response message to the query. A response message is returned in one of the following two forms.

Response Consisting of a Header and Data
 If the response can be used as a program message without any change, it is returned with a command header attached.

Response Consisting of Data Only
 If the response cannot be used as a program message unless changes are made to it (query-only command), only the data section is returned. However, there are query-only commands that return responses with the header attached.

### When You Wish to Return a Response without a Header

Responses that return both header and data can be set so that only the data section is returned. The "COMMunicate: HEADer" command is used to do this.

#### Abbreviated Form

Normally, the lower-case section is removed from a response header before the response is returned to the controller. Naturally, the full form of the header can also be used. For this, the "COMMunicate: VERBose" command is used. The sections enclosed by braces ([]) are also omitted in the abbreviated form.

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# **4.4** Data

#### Data

A data section comes after the header. A space must be included between the header and the data. The data contains conditions and values. Data is classified as below.

Data	Meaning
<decimal></decimal>	A value expressed as a decimal number
	(Example: Probe attenuation of CH1
	-> CHANnel1:PROBe 100)
<voltage><time></time></voltage>	A physical value
<frequency></frequency>	(Example: Time axis range
<current></current>	-> TIMebase:TDIV 1US)
<register></register>	Register value expressed as binary, octal,
	decimal or hexadecimal.
	(Example: Extended event register value
	-> STATUS: EESE #HFE)
<character data=""></character>	Predefined character string (mnemonic).
	Can be selected from { }.
	(Example: Select the input coupling of CH1
	-> CHANnel1:COUPling
	{AC DC DC50 GND})
<boolean></boolean>	Indicates ON and OFF. Set using ON,
	OFF or a value
	(Example: Turn ON the CH1 display
	-> CHANnel1:DISPlay ON)
<string data=""></string>	An arbitrary character string
	(Example: Comment to a screen data output
	-> MATH1:UNIT:USERdefine " VOLT")
<filename></filename>	Indicates a file name.
	(Example: Save file name
	-> FILE:SAVE:WAVeform:NAME " CASE1")
<block data=""></block>	Arbitrary 8-bit data
	(Example: Response to acquired waveform data
	-> #80000010ABCDEFGHIJ)

#### <Decimal>

<Decimal> indicates a value expressed as a decimal number, as shown in the table below. Decimal values are given in the NR form as specified in the ANSI X3.42-1975.

Symbol	Meaning	Example		
<nr1></nr1>	Integer	125-1	+1000	
<nr2></nr2>	Fixed-point number	125.0	90	+001.
<nr3></nr3>	Floating-point number	125.0E+0	-9E-1	+.1E4
<nrf></nrf>	Any of the forms <nr1></nr1>	to <nr3> is a</nr3>	allowed.	

- The instrument can receive decimal values that are sent from the controller in any of the forms, <NR1> to <NR3>. This is represented by <NRf>.
- For response messages that the instrument returns to the controller, the form (<NR1> to <NR3> to be used) is determined by the query. The same form is used regardless of the size of the value.
- For the <NR3> format, the "+" sign after the "E" can be omitted. However, the "-" sign cannot be omitted.
- If a value outside the setting range is entered, the value is normalized so that it is just inside the range.
- If a value has more significant digits than the available resolution, the value is rounded.

#### <Voltage>, <Time>, <Frequency>, and <Current>

<Voltage>, <Time>, <Frequency>, and <Current> indicate decimal values that have physical significance. <Multiplier> or <Unit> can be attached to the <NRf> form that was described earlier. It is expressed in one of the following forms.

Form	Example	
<nrf><multiplier><unit></unit></multiplier></nrf>	5MV	
<nrf><unit></unit></nrf>	5E-3V	
<nrf><multiplier></multiplier></nrf>	5M	
<nrf></nrf>	5E-3	

#### <Multiplier>

<Multipliers> which can be used are indicated below.

Symbol	Word	Multiplier	
EX	Exa	10 <sup>18</sup>	
PE	Peta	10 <sup>15</sup>	
Т	Tera	10 <sup>12</sup>	
G	Giga	10 <sup>9</sup>	
MA	Mega	10 <sup>6</sup>	
K	Kilo	10 <sup>3</sup>	
M	Milli	10 <sup>-3</sup>	
U	Micro	10 <sup>-6</sup>	
N	Nano	10 <sup>-9</sup>	
Р	Pico	10 <sup>-12</sup>	
F	Femto	10 <sup>-15</sup>	
Α	Ato	10 <sup>-18</sup>	

#### <Unit>

<Units> that can be used are indicated below.

Symbol	Word	Meaning	
V	Volt	Voltage	
S	Second	Time	
HZ	Hertz	Frequency	
MHZ	Megahertz	Frequency	
Α	Ampere	Current	

- <Multiplier> and <Unit> are not case sensitive.
- "U" is used to indicate micro "μ".
- "MA" is used for Mega to distinguish it from Milli.
   The only exception is Megahertz which is expressed as "MHZ." Therefore, the "M (Milli)" multiplier cannot be used for frequencies.
- If both <Multiplier> and <Unit> are omitted, the default unit is used.
- Response messages are always expressed in the <NR3> form. Response messages are returned using the default unit without the <Multiplier> or <Unit>.

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#### <Register>

<Register> indicates an integer, and can be expressed in hexadecimal, octal, or binary as well as a decimal number. It is used when each bit of the value has a particular meaning. It is expressed in one of the following forms.

Form	Example
<nrf></nrf>	1
#H <hexadecimal digits<="" made="" of="" td="" the="" up="" value=""><td>#H0F</td></hexadecimal>	#H0F
0 to 9 and A to F>	
#Q <octal 0="" 7="" digits="" made="" of="" the="" to="" up="" value=""></octal>	#Q777
#B <binary 0="" 1="" and="" digits="" made="" of="" the="" up="" value=""></binary>	#B001100

- <Register> is not case sensitive.
- Response messages are always expressed as <NR1>.

#### <Character Data>

<Character Data> is a specified string of character data (a mnemonic). It is mainly used to indicate options and is chosen from the character strings given in { }. For interpretation rules, refer to "Header Interpretation Rules" on page 4-4.

Form	Example
{AC   DC   DC50   GND}	AC

- As with the header, the "COMMunicate: VERBose" command can be used to select whether to return the response in the full form or in the abbreviated form.
- The "COMMunicate: HEADer" setting does not affect the character data.

#### <Boolean>

<Boolean> is data that indicates ON or OFF. It is expressed in one of the following forms.

Form	Exam	ple			
{ON OFF  <nrf>}</nrf>	ON	OFF	1	0	

- When <Boolean> is expressed in the <NRf> form,
   "OFF" is selected if the rounded integer value is 0, and ON for all other cases.
- A response message is always returned with a 1 if the value is ON and 0 if the value is OFF.

# <String data>

<String data> is not a specified character string like <Character data>. It is an arbitrary character string. The character string must be enclosed in single quotation marks (') or double quotation marks (").

Form	Example			
<string data=""></string>	'ABC'	"IEEE488.2-1987"		

- If a character string contains a double quotation mark
   ('), the double quotation mark is replaced by two
   double quotation marks (""). This rule also applies
   to a single quotation mark within a character string.
- A response message is always enclosed in double quotation marks (").
- <String data> is an arbitrary character string.
   Therefore the instrument assumes that the remaining program message units are part of the character string if no single (') or double quotation mark (") is encountered. As a result, no error is detected if a quotation mark is omitted.

#### <Filename>

<Filename> is data that indicates a file name. It is expressed in one of the following forms.

Form	Ex	ample
{ <nrf>   <character data="">   <string data=""> }</string></character></nrf>	1	CASE CASE"

- <NRf> is rounded to an 8-digit integer and converted to ASCII code. The result is the file name (example: 1 becomes 00000001"). Negative values are not allowed.
- Response messages are always returned in the <String data> form.
- For <Character data>, the first 12 characters become the file name.
- For <String data>, the first 259 characters become the file name.
- For a description of the number of characters of the <String data> file name, see the SB5000 User's Manual.

#### <Block data>

<Block data> is arbitrary 8-bit data. It is only used in response messages on the SB5000. Below is the syntax.

Form	Example
#N <n-digit decimal="" number=""></n-digit>	#80000010ABCDEFGHIJ
<data byte="" sequence=""></data>	

• #N

Indicates that the data is <Block data>. "N" indicates the number of succeeding data bytes (digits) in ASCII code characters.

- <N-digit decimal number>
   Indicates the number of bytes of data (example: 00000010 = 10 bytes).
- <data byte sequence>
   Expresses the actual data (example: ABCDEFGHIJ).
- Data is comprised of 8-bit values (0 to 255). This means that the ASCII code "0AH," which stands for "NL," can also be a code used for data. Hence, care must be taken when programming the controller.

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# 4.5 Synchronization with the Controller

#### **Overlap Commands and Sequential Commands**

There are two types of commands, overlap commands and sequential commands. In the case of overlap commands, the execution of the next command may start before the execution of the previous command is completed.

For example, if the next program message is transmitted when specifying the V/div value and querying the result, the response always returns the most recent setting (5 V in this case).

```
:CHANnel1:VDIV 5V;VDIV?<PMT>
```

This is because the next command is forced to wait until the processing of "CHANnell:VDIV" itself is completed. This type of command is called a sequential command.

On the contrary, let us assume that you send the next program message when you wish to load a file and query the V/div value of the result.

```
:FILE:LOAD:SETup:EXECute"CASE1";:
CHANnel1:VDIV?
```

In this case, "CHANnell:VDIV?" is executed before the loading of the file is completed, and the V/div value that is returned is the value before the file is loaded. The act of executing the next command before the processing of itself is completed such as with "FILE: LOAD:SETup:EXECute" CASE1" is called an overlap operation. A command that operates in this way is called an overlap command.

In such case, the overlap operation can be prevented by using the methods below.

#### **Synchronizing with Overlap Commands**

#### Using the \*WAI Command

The \*WAI command holds the subsequent commands until the overlap command is completed.

```
Example :COMMunicate:OPSE #H0040;:
    FILE:LOAD:SETup:
    EXECute " CASE1";*WAI;:
    CHANnel1:VDIV?<PMT>
```

"COMMunicate:OPSE" is a command used to select the "\*WAI" target. Here, media access is specified. Because "\*WAI" is executed immediately before "CHANnel1:VDIV?," "CHANnel1:VDIV?" is not executed until the file loading is complete.

# • Using the COMMunicate:OVERIap command

The COMMunicate: OVERlap command enables (or disables) overlap operation.

```
Example :COMMunicate:OVERlap #HFFBF;:
    FILE:LOAD:SETup:
    EXECute " CASE1";:CHANnel1:
    VDIV?<PMT>
```

"COMMunicate:OVERlap #HFFBF" enables overlap operation on commands other than media access. Because the overlap operation of file loading is disabled, "FILE:LOAD:SETup:EXECute" CASE1" operates in the same way as a sequential command. Therefore, CHANnell: VDIV? is not executed until the file loading is complete.

### • Using the \*OPC Command

The  $\star$ OPC command sets the OPC bit, bit 0 of the standard event register (see page 6-3), to 1 when the overlap operation is completed.

```
Example :COMMunicate:OPSE #H0040;
    *ESE 1;
    *ESR?;*SRE 32;:FILE:LOAD:SETup:
    EXECute " CASE1";*OPC<PMT>
    (Read the response to *ESR?)
    (Wait for a service request)
    :CHANnel1:VDIV?
```

"COMMunicate:OPSE" is a command used to select the "\*OPC" target. Here, media access is specified. "\*ESE 1" and "\*SRE 32" indicate that a service request is generated only when the OPC bit is 1. "\*ESR?" clears the standard event register. In the example above, "CHANnel1:VDIV?" is not executed until a service request is generated.

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#### · Using the \*OPC? Query

The \*OPC? query generates a response when an overlap operation is completed.

Example :COMMunicate:OPSE #H0040;:FILE:
 LOAD:SETup:EXECute " CASE1";

\*OPC?<PMT>

(Read the response to \*OPC?)
:CHANnel1:VDIV?<PMT>

"COMMunicate:OPSE" is a command used to select the "\*OPC?" target. Here, media access is specified.

Because "\*OPC?" does not generate a response until the overlap operation is completed, the loading of the file will have been completed by the time the response to "\*OPC?" is read.

#### Note

Most commands are sequential commands. Overlap commands are indicated as overlap commands in chapter 5. All other commands are sequential commands.

# Achieving Synchronization without Using Overlap Commands

Even for sequential commands, synchronization is sometimes required for non communication-related reasons such as a trigger occurrence.

For example, if the next program message is transmitted to make an inquiry about the waveform data which has been acquired with the trigger mode set to single, the WAVeform: SEND? command may be executed regardless of whether the acquisition has been completed or not and may result in command execution error.

TRIGger:MODE SINGle;:STARt;:WAVeform: SEND?<PMT>

In this case, the following method must be used to synchronize with the end of the acquisition.

### • Using the STATus:CONDition? Query

The "STATus: CONDition?" query is used to query the contents of the condition register (page 6-4). Whether waveforms are being retrieved can be determined by reading bit 0 of the condition register. If bit 0 of the condition register is "1," waveforms are being retrieved. Otherwise, it is stopped.

Example TRIGger:MODE SINGle;:STARt<PMT>
 :STATus:CONDition?<PMT>
 (Read the response If bit 0 is 1 repeat)

(Read the response. If bit 0 is 1, repeat this command until it becomes 1.)

:WAVeform:SEND?<PMT>

The  $\mathtt{WAVeform: SEND?}$  command will not be executed until bit 0 of the condition register is set to "0."

#### · Using the Extended Event Register

The changes in the condition register can be reflected in the extended event register (page 6-4).

Example :STATus:FILTer1 FALL;:
 STATus:EESE 1;EESR?;\*SRE 8;:
 TRIGger:MODE SINGle;:STARt<PMT>
 (Read the response to STATus:EESR?)
 (Wait for a service request)
 :WAVeform:SEND?<PMT>

The "STATUS:FILTEr1 FALL" command sets the transition filter so that bit 0 (FILTEr1) of the extended event register is set to 1 when bit 0 of the condition register changes from 1 to 0.

The ":STATus:EESE 1" command is used to reflect only bit 0 of the extended event register to the status byte.

The "STATus: EESR?" command is used to clear the extended event register.

The "\*SRE 8" command is used to generate a service request solely on the cause of the extended event register.

The "WAVeform: SEND?" command is not executed until a service request is generated.

#### Using the COMMunicate:WAIT Command

The "COMMunicate: WAIT" command halts communications until a specific event is generated.

Example :STATus:FILTer1 FALL;:
 STATus:EESR?;:TRIGger:
 MODE SINGle<PMT>
 (Read the response to STATus:EESR?)
 :COMMunicate:WAIT 1;:WAVeform:
 SEND?<PMT>

For a description of "STATus:FILTer1 FALL" and "STATus:

EESR?" see the previous section regarding the extended event register.

The "COMMunicate: WAIT 1" command indicates that the program will wait for bit 0 of the extended event register to be set to "1."

The WAVeform: SEND? command will not be executed until bit 0 of the extended event register is set to "1."

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# **A List of Commands** 5.1

Command	Function	Page
ACQuire Group	1	
:ACOuire?	Queries all settings related to the waveform acquisition.	5-72
:ACQuire:AVERage?	Queries all settings related to averaging and the waveform acquisition count.	5-72
:ACQuire:AVERage:COUNt	Sets the waveform acquisition count of averaging mode or queries the current setting.	5-72
:ACQuire:AVERage:EWEight	Sets the attenuation constant when averaging mode is used infinitely or queries the current setting.	5-72
:ACQuire:HRMode	Turns ON/OFF the harmonic analysis mode or queries the current setting.	5-72
:ACQuire:INTERLeave	Turns ON/OFF interleave or queries the current setting.	5-72
:ACQuire:INTERPolate	Turns ON/OFF data interpolation or queries the current setting.	5-72
:ACQuire:MODE	Sets the waveform acquisition mode or queries the current setting.	5-72
:ACQuire:REPetitive	Turns ON/OFF the repetitive sampling or queries the current setting.	5-72
:ACQuire:RLENgth	Sets the record length or queries the current setting.	5-72
ANALysis Group		
:ANALysis?	Queries all settings related to the analysis function.	5-73
:ANALysis:AHIStogram <x>?</x>	Queries all settings related to the accumulated histogram function.	5-73
:ANALysis:AHIStogram <x>:</x>	Sets the horizontal range or queries the current setting.	5-73
HORizontal	and the first range of queries the outlett setting.	, ,
:ANALysis:AHIStogram <x>:MEASure?</x>	Queries all settings related automated measurement.	5-74
:ANALysis:AHIStogram <x>:MEASure:</x>	Queries all settings related to cursor measurements.	5-74
CURSor?	-	
:ANALysis:AHIStogram <x>:MEASure: CURSor:BASic?</x>	Queries all settings related to basic items of the cursor.	5-74
:ANALysis:AHIStogram <x>:MEASure: CURSor[:BASic]:ALL</x>	Turns ON/OFF all basic items of the cursor.	5-74
:ANALysis:AHIStogram <x>:MEASure: CURSor[:BASic]:C<x>?</x></x>	Queries all settings related to the cursor.	5-75
:ANALysis:AHIStogram <x>:MEASure: CURSor[:BASic]:C<x>:STATe</x></x>	Turns ON/OFF the cursor or queries the current setting.	5-75
:ANALysis:AHIStogram <x>:MEASure: CURSor[:BASic]:C<x>:VALue?</x></x>	Queries the measured value of the cursor.	5-75
:ANALysis:AHIStogram <x>:MEASure: CURSor[:BASic]:DC?</x>	Queries all settings related to measured values between cursors.	5-75
:ANALysis:AHIStogram <x>:MEASure: CURSor[:BASic]:DC:STATe</x>	Turns ON/OFF the measured values between cursors or queries the current setting.	5-75
:ANALysis:AHIStogram <x>:MEASure: CURSor[:BASic]:DC:VALue?</x>	Queries the measured value between cursors.	5-75
:ANALysis:AHIStogram <x>:MEASure: CURSor:CALCulation?</x>	Queries all settings related to calculation items of the cursor.	5-75
:ANALysis:AHIStogram <x>:MEASure: CURSor:CALCulation:ALL</x>	Turns ON/OFF all calculation items of the cursor.	5-75
:ANALysis:AHIStogram <x>:MEASure: CURSor:CALCulation:DEFine<x></x></x>	Sets the equation of the calculation item of the cursor or queries the current setting.	5-76
:ANALysis:AHIStogram <x>:MEASure: CURSor:CALCulation:STATe<x></x></x>	Turns ON/OFF the calculation item of the cursor or queries the current setting.	5-76
:ANALysis:AHIStogram <x>:MEASure: CURSor:CALCulation:VALue<x>?</x></x>	Queries the measured value of the calculation item of the cursor.	5-76
:ANALysis:AHIStogram <x>:MEASure: CURSor:HLINkage</x>	Turns ON/OFF the horizontal cursor link of the accumulated histogram or queries the current setting.	5-76
:ANALysis:AHIStogram <x>:MEASure: CURSor:HPOSition<x></x></x>	Sets the horizontal cursor position or queries the current setting.	5-76
:ANALysis:AHIStogram <x>:MEASure: CURSor:VLINkage</x>	Turns ON/OFF the vertical cursor link of the accumulated histogram or queries the current setting.	5-76
:ANALysis:AHIStogram <x>:MEASure: CURSor:VPOSition<x></x></x>	Sets the vertical cursor position or queries the current setting.	5-77
:ANALysis:AHIStogram <x>:MEASure:</x>	Sets the automated measurement mode or queries the current setting.	5-77

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Command	Function	Page
:ANALysis:AHIStogram <x>:MEASure: PARameter?</x>	Queries all settings related to the automated measurement of waveform parameters.	5-77
:ANALysis:AHIStogram <x>:MEASure: PARameter:AREA<x>?</x></x>	Queries all settings related to the area.	5-78
:ANALysis:AHIStogram <x>:MEASure: PARameter:AREA<x>:ALL</x></x>	Turns ON/OFF all waveform parameters.	5-78
:ANALysis:AHIStogram <x>:MEASure: PARameter:AREA<x>:<parameter>?</parameter></x></x>	Queries all settings related to the waveform parameter.	5-78
:ANALysis:AHIStogram <x>:MEASure: PARameter:AREA<x>:<parameter>: STATe</parameter></x></x>	Turns ON/OFF the waveform parameter or queries the current setting.	5-78
:ANALysis:AHIStogram <x>:MEASure: PARameter:AREA<x>:<parameter>: VALue?</parameter></x></x>	Queries the automated measured value of the waveform parameter.	5-79
:ANALysis:AHIStogram <x>:MEASure: PARameter:CALCulation?</x>	Queries all settings related to the calculation items of waveform parameters.	5-79
:ANALysis:AHIStogram <x>:MEASure: PARameter:CALCulation:ALL</x>	Turns ON/OFF all calculation items of the waveform parameters.	5-79
:ANALysis:AHIStogram <x>:MEASure: PARameter:CALCulation:DEFine<x></x></x>	Sets the equation of the calculation items of the waveform parameter or queries the current setting.	5-79
:ANALysis:AHIStogram <x>:MEASure: PARameter:CALCulation:STATe<x></x></x>	Turns ON/OFF the calculation items of the waveform parameter or queries the current setting.	5-79
:ANALysis:AHIStogram <x>:MEASure: PARameter:CALCulation:VALue<x>?</x></x>	Queries the automated measured value of the calculation items of the waveform parameter.	5-79
:ANALysis:AHIStogram <x>:MEASure: PARameter:HRANge<x></x></x>	Sets the horizontal range of the waveform parameter or queries the current setting.	5-80
:ANALysis:AHIStogram <x>:MEASure: PARameter:VRANge<x></x></x>	Sets the vertical range of the waveform parameter or queries the current setting.	5-80
:ANALysis:AHIStogram <x>:MODE</x>	Sets the accumulated histogram mode or queries the current setting.	5-80
:ANALysis:AHIStogram <x>:TRACe</x>	Sets the source trace of the accumulated histogram or queries the current setting.	5-80
:ANALysis:AHIStogram <x>:VERTical</x>	Sets the vertical range of the accumulated histogram or queries the current setting.	5-80
:ANALysis:AHIStogram <x>:WINDow</x>	Sets the measurement target window of the accumulated histogram or queries the current setting.	5-80
:ANALysis:DISPlay <x></x>	Turns ON/OFF the analysis function display or queries the current setting.	5-80
:ANALysis:FFT <x>?</x>	Queries all settings related to the FFT computation function.	5-81
:ANALysis:FFT <x>:HORizontal?</x>	Queries all settings related the horizontal axis of the FFT computation.	5-81
:ANALysis:FFT <x>:HORizontal: CSPan?</x>	Queries all settings related to the center and span of the horizontal axis of the FFT computation.	5-81
:ANALysis:FFT <x>:HORizontal: CSPan:CENTer</x>	Sets the horizontal center of the FFT computation or queries the current setting.	5-81
:ANALysis:FFT <x>:HORizontal: CSPan:SPAN</x>	Sets the horizontal span of the FFT computation or queries the current setting.	5-81
:ANALysis:FFT <x>:HORizontal: LRIGht?</x>	Queries all settings related the left and right edges of the horizontal axis of the FFT computation.	5-81
:ANALysis:FFT <x>:HORizontal: LRIGht:RANGe</x>	Sets the range of the horizontal left and right edges of the FFT computation or queries the current setting.	5-82
:ANALysis:FFT <x>:HORizontal:MODE</x>	Sets the horizontal mode of the FFT computation or queries the current setting.	5-82
:ANALysis:FFT <x>:IPARt</x>	Sets the source trace of the imaginary part of the FFT computation or queries the current setting.	5-82
:ANALysis:FFT <x>:LENGth</x>	Sets the number of FFT points or queries the current setting.	5-82
:ANALysis:FFT <x>:MAXHold</x>	Turns ON/OFF the maximum value hold function of the FFT computation or queries the current setting.	+
:ANALysis:FFT <x>:MEASure?</x>	Queries all settings related to the automated measurement of the FFT computation.	5-82
:ANALysis:FFT <x>:MEASure:MARKer?</x>	Queries all settings related to the marker cursor measurement of the FFT computation.	5-83
:ANALysis:FFT <x>:MEASure:MARKer: BASic?</x>	Queries all settings related to basic items of the marker cursor of the FFT computation.	5-83
:ANALysis:FFT <x>:MEASure: MARKer[:BASic]:ALL</x>	Turns ON/OFF all basic items of the marker cursor of the FFT computation.	5-83

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Command	Function	Page
		_
:ANALysis:FFT <x>:MEASure: MARKer[:BASic]:DFRequency?</x>	Queries all settings related to the frequency value between marker cursors of the FFT computation.	5-83
:ANALysis:FFT <x>:MEASure:</x>	Turns ON/OFF the frequency value between marker cursors of the FFT	5-83
MARKer[:BASic]:DFRequency:STATe	computation or queries the current setting.	0.00
:ANALysis:FFT <x>:MEASure:</x>	Queries the frequency value between marker cursors of the FFT	5-83
MARKer[:BASic]:DFRequency:VALue?	computation.	
:ANALysis:FFT <x>:MEASure:</x>	Queries all settings related to the power value between marker cursors of	5-84
MARKer[:BASic]:DV?	the FFT computation.	
:ANALysis:FFT <x>:MEASure:</x>	Turns ON/OFF the power value between marker cursors of the FFT	5-84
MARKer[:BASic]:DV:STATe	computation or queries the current setting.	
:ANALysis:FFT <x>:MEASure:</x>	Queries the power value between marker cursors of the FFT computation.	5-84
MARKer[:BASic]:DV:VALue?		
:ANALysis:FFT <x>:MEASure:</x>	Queries all settings related to the frequency value of the marker cursor of	5-84
MARKer[:BASic]:FREQuency <x>?</x>	the FFT computation.	5.04
:ANALysis:FFT <x>:MEASure:</x>	Turns ON/OFF the frequency value of the marker cursor of the FFT	5-84
MARKer[:BASic]:FREQuency <x>:STATe :ANALysis:FFT<x>:MEASure:</x></x>	computation or queries the current setting.	5-84
:ANALysis:ffi <x>:MEASure: MARKer[:BASic]:FREQuency<x>:</x></x>	Queries the frequency value of the marker cursor of the FFT computation.	5-64
VALue?		
:ANALysis:FFT <x>:MEASure:</x>	Sets the marker cursor position of the FFT computation or queries the	5-84
MARKer[:BASic]:	current setting.	.
POSition <x> {<nrf>}</nrf></x>		
:ANALysis:FFT <x>:MEASure:</x>	Queries all settings related to the power value of the marker cursor of the	5-85
MARKer[:BASic]:V <x>?</x>	FFT computation.	
:ANALysis:FFT <x>:MEASure:</x>	Turns ON/OFF the power value of the marker cursor of the FFT	5-85
MARKer[:BASic]:V <x>:STATe</x>	computation or queries the current setting.	
:ANALysis:FFT <x>:MEASure:</x>	Queries the power value of the marker cursor of the FFT computation.	5-85
MARKer[:BASic]:V <x>:VALue?</x>		
:ANALysis:FFT <x>:MEASure:</x>	Queries all settings related to calculation items of the marker cursor of the	5-85
MARKer: CALCulation?	FFT computation.	5.05
:ANALysis:FFT <x>:MEASure:</x>	Turns ON/OFF all calculation items of the marker cursor of the FFT computation.	5-85
MARKer:CALCulation:ALL :ANALysis:FFT <x>:MEASure:</x>	Sets the equation of the calculation items of the marker cursor of the FFT	5-85
MARKer: CALCulation: DEFine <x></x>	computation or queries the current setting.	3-03
:ANALysis:FFT <x>:MEASure:</x>	Turns ON/OFF the calculation items of the marker cursor of the FFT	5-85
MARKer:CALCulation:STATe <x></x>	computation or queries the current setting.	
:ANALysis:FFT <x>:MEASure:</x>	Queries the measured value of the calculation items of the marker cursor of	5-86
MARKer: CALCulation: VALue <x>?</x>	the FFT computation.	
:ANALysis:FFT <x>:MEASure:MODE</x>	Sets the automated measurement mode of the FFT computation or queries	5-86
	the current setting.	
:ANALysis:FFT <x>:MEASure:PEAK?</x>	Queries all settings related to the peak value measurement of the FFT	5-86
	computation.	
:ANALysis:FFT <x>:MEASure:PEAK:</x>	Queries all settings related to basic items of the peak value of the FFT	5-86
BASic?	computation.	5.00
:ANALysis:FFT <x>:MEASure:</x>	Turns ON/OFF all basic items of the peak value of the FFT computation.	5-86
PEAK[:BASic]:ALL :ANALysis:FFT <x>:MEASure:</x>	Quarias all settings related to the frequency value between neak values of	5-86
PEAK[:BASic]:DFRequency?	Queries all settings related to the frequency value between peak values of the FFT computation.	3-00
:ANALysis:FFT <x>:MEASure:</x>	Turns ON/OFF the frequency value between peak values of the FFT	5-87
PEAK[:BASic]:DFRequency:STATe	computation or queries the current setting.	301
:ANALysis:FFT <x>:MEASure:</x>		5-87
PEAK[:BASic]:DFRequency:VALue?		
:ANALysis:FFT <x>:MEASure:</x>	Queries all settings related to the power value between peak values of the	5-87
PEAK[:BASic]:DV?	FFT computation.	
:ANALysis:FFT <x>:MEASure:</x>	Turns ON/OFF the power value between peak values of the FFT	5-87
PEAK[:BASic]:DV:STATe	computation or queries the current setting.	
:ANALysis:FFT <x>:MEASure:</x>	Queries the power value between peak values of the FFT computation.	5-87
PEAK[:BASic]:DV:VALue?		
:ANALysis:FFT <x>:MEASure:</x>	Queries all settings related to the peak frequency value of the FFT	5-87
PEAK[:BASic]:FREQuency <x>?</x>	computation.	F 07
:ANALysis:FFT <x>:MEASure:</x>	Turns ON/OFF the peak frequency value of the FFT computation or queries	5-87
PEAK[:BASic]:FREQuency <x>:STATe</x>	the current setting.  Queries the peak frequency value of the FFT computation.	5-87
:ANALysis:FFT <x>:MEASure: PEAK[:BASic]:FREQuency<x>:VALue?</x></x>	Quenes the peak frequency value of the FFT computation.	3-07
LTTT.[.DADIC].INDQuency\x>.VADue:		

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Command	Function	Page
:ANALysis:FFT <x>:MEASure: PEAK[:BASic]:RANGe<x></x></x>	Sets the measurement range of the peak value of the FFT computation or queries the current setting.	5-88
:ANALysis:FFT <x>:MEASure: PEAK[:BASic]:V<x>?</x></x>	Queries all settings related to the peak value of the FFT computation.	5-88
:ANALysis:FFT <x>:MEASure: PEAK[:BASic]:V<x>:STATe</x></x>	Turns ON/OFF the peak value of the FFT computation or queries the current setting.	5-88
:ANALysis:FFT <x>:MEASure:</x>	Queries the peak value of the FFT computation.	5-88
PEAK[:BASic]:V <x>:VALue? :ANALysis:FFT<x>:MEASure:</x></x>	Queries all settings related to calculation items of the FFT computation.	5-88
PEAK: CALCulation? :ANALysis: FFT <x>: MEASure:</x>	Turns ON/OFF all calculation items of the FFT computation.	5-88
PEAK: CALCulation: ALL :ANALysis: FFT <x>: MEASure: PEAK: CALCulation: DEFine<x></x></x>	Sets the equation of the calculation item of the FFT computation or queries the current setting.	5-88
:ANALysis:FFT <x>:MEASure: PEAK:CALCulation:STATe<x></x></x>	<u> </u>	5-89
:ANALysis:FFT <x>:MEASure: PEAK:CALCulation:VALue<x>?</x></x>	Queries the measured value of the calculation item of the FFT computation.	5-89
:ANALysis:FFT <x>:RANGe</x>	Sets the measurement source window used in the FFT computation or queries the current setting.	5-89
:ANALysis:FFT <x>:RPARt</x>	Sets the source trace of the real part of the FFT computation or queries the current setting.	5-89
:ANALysis:FFT <x>:RPOSition</x>	Sets the center point of magnification of the vertical axis of the FFT computation or queries the current setting.	5-89
:ANALysis:FFT <x>:VERTical?</x>	Queries all settings related the vertical axis of the FFT computation.	5-89
:ANALysis:FFT <x>:VERTical:LEVel</x>	Sets the display position of the vertical axis of the FFT computation or queries the current setting.	5-89
:ANALysis:FFT <x>:VERTical:MODE</x>	Sets the vertical axis mode of the FFT computation or queries the current setting.	5-89
:ANALysis:FFT <x>:VERTical: SENSitivity</x>	Sets the vertical sensitivity of the FFT computation or queries the current setting.	5-90
:ANALysis:FFT <x>:WINDow</x>	Sets the window function or queries the current setting.	5-90
:ANALysis:LSBus <x>?</x>	Queries all settings related to the logic serial bus signal analysis function.	5-90
:ANALysis:LSBus <x>[:ANALyze]?</x>	Queries all settings related to the logic serial bus signal analysis.	5-90
:ANALysis:LSBus <x>[:ANALyze]: I2CBus?</x>	Queries all settings related to the logic I <sup>2</sup> C bus signal analysis.	5-90
:ANALysis:LSBus <x>[:ANALyze]: I2CBus:CLOCk</x>	Sets the clock channel of the logic I <sup>2</sup> C bus signal analysis or queries the current setting.	5-90
:ANALysis:LSBus <x>[:ANALyze]: I2CBus:DTRace</x>	Sets the data channel of the logic I <sup>2</sup> C bus signal analysis or queries the current setting.	5-91
:ANALysis:LSBus <x>[:ANALyze]: LINBus?</x>	Queries all settings related to the logic LIN bus signal analysis.	5-91
:ANALysis:LSBus <x>[:ANALyze]: LINBus:BRATe</x>	Sets the bit rate (data transfer rate) of the logic LIN bus signal analysis or queries the current setting.	5-91
:ANALysis:LSBus <x>[:ANALyze]: LINBus:FJUMp:BREak</x>	Executes a field jump to the Break Field in the results of the logic LIN bus signal analysis.	5-91
:ANALysis:LSBus <x>[:ANALyze]: LINBus:FJUMp:CSUM</x>	Executes a field jump to the Checksum Field in the results of the logic LIN bus signal analysis.	5-91
:ANALysis:LSBus <x>[:ANALyze]: LINBus:FJUMp:DATA</x>	Executes a field jump to the Data Field in the results of the logic LIN bus signal analysis.	5-91
:ANALysis:LSBus <x>[:ANALyze]: LINBus:FJUMp:IDENtifier</x>	Executes a field jump to the Identifier Field in the results of the logic LIN bus signal analysis.	5-91
:ANALysis:LSBus <x>[:ANALyze]: LINBus:FJUMp:SYNCh</x>	<u> </u>	5-91
:ANALysis:LSBus <x>[:ANALyze]: LINBus:REVision</x>	Sets the revision (1.3 or 2.0) of the logic LIN bus signal analysis or queries the current setting.	5-92
:ANALysis:LSBus <x>[:ANALyze]: LINBus:SPOint</x>	Sets the logic LIN bus signal analysis sample point or queries the current setting.	5-92
:ANALysis:LSBus <x>[:ANALyze]: LINBus:TRACe</x>	Sets the trace of the logic LIN bus signal analysis or queries the current setting.	5-92
:ANALysis:LSBus <x>[:ANALyze]: LIST?</x>	Queries all settings related to the analysis result list of the logic serial bus signal analysis.	5-92
:ANALysis:LSBus <x>[:ANALyze]: LIST:DISPlay</x>	Turns ON/OFF the analysis result list of the logic serial bus signal analysis or queries the current setting.	5-92

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Command	Function	Page
:ANALysis:LSBus <x>[:ANALyze]:</x>	Queries all items displayed on the analysis result list of the logic serial bus	5-92
LIST:ITEM?	signal analysis.	-
:ANALysis:LSBus <x>[:ANALyze]:</x>	Sets the mode of the analysis result list of the logic serial bus signal	5-93
LIST:MODE	analysis or queries the current setting.	
:ANALysis:LSBus <x>[:ANALyze]:</x>	Sets the scroll method of the analysis result list of the logic serial bus signal	5-93
LIST:SCRoll	analysis or queries the current setting.	
:ANALysis:LSBus <x>[:ANALyze]:</x>	Queries the automated measured value of the specified analysis number in	5-93
LIST: VALue?	the analysis result list of the logic serial bus signal analysis.	0 00
:ANALysis:LSBus <x>[:ANALyze]:MOD</x>		5-93
:ANALysis:LSBus <x>[:ANALyze]:</x>	Sets the analysis reference point of the logic serial bus signal analysis or	5-93
RPOint	queries the current setting.	3-93
:ANALysis:LSBus <x>[:ANALyze]:</x>	Queries all settings related to the logic SPI bus signal analysis.	5-93
SPIBus?	Queries all settings related to the logic SF1 bus signal analysis.	3-93
	Quaries all pattings related to the cleak signal shannel of the logic SDI bus	5-93
:ANALysis:LSBus <x>[:ANALyze]: SPIBus:CLOCk?</x>	Queries all settings related to the clock signal channel of the logic SPI bus	5-93
	signal analysis.	F 04
:ANALysis:LSBus <x>[:ANALyze]:</x>	Sets the polarity of the clock signal channel of the logic SPI bus signal	5-94
SPIBus:CLOCk:POLarity	analysis or queries the current setting.	
:ANALysis:LSBus <x>[:ANALyze]:</x>	Sets the clock signal channel of the logic SPI bus signal analysis or queries	5-94
SPIBus:CLOCk:SOURce	the current setting.	
:ANALysis:LSBus <x>[:ANALyze]:</x>	Queries all settings related to the chip select signal channel of the logic SPI	5-94
SPIBus:CS?	bus signal analysis.	
:ANALysis:LSBus <x>[:ANALyze]:</x>	Sets the active level of the chip select signal channel of the logic SPI bus	5-94
SPIBus:CS:ACTive	signal analysis or queries the current setting.	
:ANALysis:LSBus <x>[:ANALyze]:</x>	Sets the chip select signal channel of the logic SPI bus signal analysis or	5-94
SPIBus:CS:TRACe	queries the current setting.	
:ANALysis:LSBus <x>[:ANALyze]:</x>	Queries all settings related to each data of the logic SPI bus signal	5-94
SPIBus:DATA <x>?</x>	analysis.	
:ANALysis:LSBus <x>[:ANALyze]:</x>	Sets the active level of each data of the logic SPI bus signal analysis or	5-95
SPIBus:DATA <x>:ACTive</x>	queries the current setting.	
:ANALysis:LSBus <x>[:ANALyze]:</x>	Sets the data channel of the logic SPI bus signal analysis or queries the	5-95
SPIBus:DATA <x>:TRACe</x>	current setting.	
:ANALysis:LSBus <x>[:ANALyze]:</x>	Queries all settings related to the setup of the logic SPI bus signal analysis.	5-95
SPIBus[:SETup]?	Queries an settings related to the setup of the logic of 1 bus signal analysis.	0 33
:ANALysis:LSBus <x>[:ANALyze]:</x>	Sets the bit order of the logic SPI bus signal analysis or queries the current	5-05
SPIBus[:SETup]:BITorder	setting.	3-33
	Sets the wiring system of the logic SPI bus signal analysis (three-wire or	E OE
:ANALysis:LSBus <x>[:ANALyze]:</x>		5-95
SPIBus[:SETup]:MODE	four-wire) or queries the current setting.	F 0F
:ANALysis:LSBus <x>[:ANALyze]:</x>	Queries all settings related to the logic UART bus signal analysis.	5-95
UART?	0	
:ANALysis:LSBus <x>[:ANALyze]:</x>	Sets the logic UART bus signal analysis bit order or queries the current	5-96
UART:BITorder	setting.	
:ANALysis:LSBus <x>[:ANALyze]:</x>	Sets the logic UART bus signal analysis bit rate (data transfer rate) or	5-96
UART:BRATe	queries the current setting.	
:ANALysis:LSBus <x>[:ANALyze]:</x>	Sets the logic UART bus signal analysis data format or queries the current	5-96
UART:FORMat	setting.	
:ANALysis:LSBus <x>[:ANALyze]:</x>	Sets the logic UART bus signal analysis parity mode or queries the current	5-96
UART: PMODe	setting.	
:ANALysis:LSBus <x>[:ANALyze]:</x>	Sets the logic UART bus signal analysis parity or queries the current	5-96
UART: POLarity	setting.	
:ANALysis:LSBus <x>[:ANALyze]:</x>	Sets the logic UART bus signal analysis sample point or queries the current	5-96
UART:SPOint	setting.	
:ANALysis:LSBus <x>[:ANALyze]:</x>	Sets the logic UART bus signal analysis trace or queries the current setting.	5-97
UART:TRACe	2010 a.to logic of art buo digital analysis trace of queries the sufferit setting.	37,
:ANALysis:LSBus <x>:ZLINkage</x>	Sets the zoom link of the logic serial bus signal analysis or queries the	5-97
.ANALYSIS.LODUS\X>.ZLINKAGE		3-31
. ANALygig. CDIIC 2	Current setting.	5-97
:ANALysis:SBUS <x>?</x>	Queries all settings related to the serial bus signal analysis function.	_
:ANALysis:SBUS <x>:ANALyze?</x>	Queries all settings related to the serial bus signal analysis.	5-97
:ANALysis:SBUS <x>[:ANALyze]:</x>	Queries all settings related to the CAN bus signal analysis.	5-97
CANBus?		
:ANALysis:SBUS <x>[:ANALyze]:</x>	Sets the bit rate (data transfer rate) of the CAN bus signal analysis or	5-98
CANBus:BRATe	queries the current setting.	
	Executes a field jump to the ACK Field in the results of the CAN bus signal	5-98
:ANALysis:SBUS <x>[:ANALyze]:</x>	= need to a need jump to ano need need an ano receive or an each engine.	1

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Command	Function	Page
:ANALysis:SBUS <x>[:ANALyze]: CANBus:FJUMp:CONTrol</x>	Executes a field jump to the Control Field in the results of the CAN bus signal analysis.	5-98
:ANALysis:SBUS <x>[:ANALyze]: CANBus:FJUMp:CRC</x>	Executes a field jump to the CRC Field in the results of the CAN bus signal analysis.	5-98
:ANALysis:SBUS <x>[:ANALyze]: CANBus:FJUMp:DATA</x>	Executes a field jump to the Data Field in the results of the CAN bus signal analysis.	5-98
:ANALysis:SBUS <x>[:ANALyze]: CANBus:FJUMp:IDENtifier</x>	Executes a field jump to the Identifier Field in the results of the CAN bus signal analysis.	5-98
:ANALysis:SBUS <x>[:ANALyze]: CANBus:FJUMp:SOF</x>	-	5-98
:ANALysis:SBUS <x>[:ANALyze]: CANBus:RECessive</x>	Sets the recessive level (bus level) of the CAN bus signal analysis or queries the current setting.	5-98
:ANALysis:SBUS <x>[:ANALyze]: CANBus:SIGNal?</x>	Queries all settings related to the CAN bus signal analysis signal.	5-99
:ANALysis:SBUS <x>[:ANALyze]: CANBus:SIGNal:LIST:ITEM</x>	Turns ON/OFF items to be displayed in the CAN bus signal analysis signal list.	5-99
:ANALysis:SBUS <x>[:ANALyze]: CANBus:SIGNal:MODE</x>	Turns ON/OFF the CAN bus signal analysis signal or queries the current setting.	5-99
:ANALysis:SBUS <x>[:ANALyze]: CANBus:SIGNal:TRENd:ITEM</x>	Turns ON/OFF items of the CAN bus signal analysis signal to be trend- displayed.	5-99
:ANALysis:SBUS <x>[:ANALyze]: CANBus:SPOint</x>	Sets the sample point of the CAN bus signal analysis or queries the current setting.	5-99
:ANALysis:SBUS <x>[:ANALyze]: CANBus:TRACe</x>	Sets the source channel of the CAN bus signal analysis or queries the current setting.	5-99
:ANALysis:SBUS <x>[:ANALyze]: DECode</x>	Turns the serial bus signal analysis decoding display ON/OFF or queries the current status.	5-99
:ANALysis:SBUS <x>[:ANALyze]: FLEXray?</x>	Queries all settings related to the FLEXRAY bus signal analysis.	5-99
:ANALysis:SBUS <x>[:ANALyze]: FLEXray:BRATe</x>	Sets the FLEXRAY bus signal analysis bit rate (data transfer rate) or queries the current setting.	5-100
:ANALysis:SBUS <x>[:ANALyze]: FLEXray:FJUMp:CCOunt</x>	Performs a field jump to the Cycle Count Field in the results of the FLEXRAY bus signal analysis.	5-100
:ANALysis:SBUS <x>[:ANALyze]: FLEXray:FJUMp:CRC</x>	Performs a field jump to the CRC Field in the results of the FLEXRAY bus signal analysis.	5-100
:ANALysis:SBUS <x>[:ANALyze]: FLEXray:FJUMp:DATA</x>	Performs a field jump to the Data Field in the results of the FLEXRAY bus signal analysis.	5-100
:ANALysis:SBUS <x>[:ANALyze]: FLEXray:FJUMp:HCRC</x>	Performs a field jump to the Header CRC Field in the results of the FLEXRAY bus signal analysis.	5-100
:ANALysis:SBUS <x>[:ANALyze]: FLEXray:FJUMp:IDENtifier</x>	Performs a field jump to the Identifier Field in the results of the FLEXRAY bus signal analysis.	5-100
:ANALysis:SBUS <x>[:ANALyze]: FLEXray:FJUMp:PLENgth</x>	Performs a field jump to the Payload Length Field in the results of the FLEXRAY bus signal analysis.	5-100
:ANALysis:SBUS <x>[:ANALyze]:</x>	Sets the FLEXRAY bus signal analysis sample point or queries the current	5-100
FLEXray:SPOint :ANALysis:SBUS <x>[:ANALyze]:</x>	Sets the FLEXRAY bus signal analysis trace or queries the current setting.	5-100
FLEXray:TRACe :ANALysis:SBUS <x>[:ANALyze]:</x>	Queries all settings related to the I <sup>2</sup> C bus signal analysis.	5-101
<pre>I2CBus? :ANALysis:SBUS<x>[:ANALyze]:</x></pre>	Sets the clock channel of the I <sup>2</sup> C bus signal analysis or queries the current	5-101
I2CBus:CLOCk :ANALysis:SBUS <x>[:ANALyze]:</x>	setting.  Sets the data channel of the I <sup>2</sup> C bus signal analysis or queries the current	5-101
<pre>12CBus:DTRace :ANALysis:SBUS<x>[:ANALyze]:</x></pre>	setting.  Queries all settings related to the LIN bus signal analysis.	5-101
LINBus? :ANALysis:SBUS <x>[:ANALyze]:</x>	Sets the LIN bus signal analysis bitrate (data transfer rate) or queries the	5-101
LINBus:BRATe :ANALysis:SBUS <x>[:ANALyze]:</x>	current setting.  Executes a field jump to the Break Field in the results of the LIN bus signal	5-101
LINBus:FJUMp:BREak :ANALysis:SBUS <x>[:ANALyze]:</x>	analysis.  Executes a field jump to the Checksum Field in the results of the LIN bus	5-101
LINBus:FJUMp:CSUM :ANALysis:SBUS <x>[:ANALyze]:</x>	signal analysis.  Executes a field jump to the Data Field in the results of the LIN bus signal	5-101
LINBus: FJUMp: DATA	analysis.	

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Command	Function	Page
:ANALysis:SBUS <x>[:ANALyze]:</x>	Executes a field jump to the Identifier Field in the results of the LIN bus	5-102
LINBus:FJUMp:IDENtifier	signal analysis.	
:ANALysis:SBUS <x>[:ANALyze]:</x>	Executes a field jump to the Synch Field in the results of the LIN bus signal	5-102
LINBus:FJUMp:SYNCh	analysis.	
:ANALysis:SBUS <x>[:ANALyze]:</x>	Sets the LIN bus signal analysis revision (1.3 or 2.0) or queries the current	5-102
LINBus:REVision	setting.	
:ANALysis:SBUS <x>[:ANALyze]:</x>	Sets the LIN bus signal analysis sample point or queries the current setting.	5-102
LINBus:SPOint		
:ANALysis:SBUS <x>[:ANALyze]:</x>	Sets the LIN bus signal analysis trace or queries the current setting.	5-102
LINBus:TRACe		
:ANALysis:SBUS <x>[:ANALyze]:LIST?</x>	Queries all settings related to the list display of the serial bus signal analysis.	5-102
:ANALysis:SBUS <x>[:ANALyze]:LIST:</x>	Turns the serial bus signal analysis list display ON/OFF or queries the	5-102
DISPlay	current status.	0 102
:ANALysis:SBUS <x>[:ANALyze]:LIST:</x>	Queries the item in the list display of the serial bus signal analysis.	5-102
ITEM?		
:ANALysis:SBUS <x>[:ANALyze]:LIST:</x>	Sets the mode of the list display of the serial bus signal analysis or queries	5-103
MODE	the current setting.	
:ANALysis:SBUS <x>[:ANALyze]:LIST:</x>	<del>                                     </del>	5-103
SCRoll	queries the current setting.	
:ANALysis:SBUS <x>[:ANALyze]:LIST:</x>	Queries the analyzed value of the specified list display number in the serial	5-103
VALue?	bus signal analysis.	
:ANALysis:SBUS <x>[:ANALyze]:MODE</x>	Sets the serial bus signal analysis mode or queries the current setting.	5-103
:ANALysis:SBUS <x>[:ANALyze]:</x>	Sets the analysis reference point of the serial bus signal analysis or queries	+
RPOint	the current setting.	
:ANALysis:SBUS <x>[:ANALyze]:</x>	Queries all settings related to the SPI bus signal analysis.	5-103
SPIBus?		
:ANALysis:SBUS <x>[:ANALyze]:</x>	Queries all settings related to the clock channel of the SPI bus signal	5-103
SPIBus:CLOCk?	analysis.	
:ANALysis:SBUS <x>[:ANALyze]:</x>	Sets the polarity of the clock channel of the SPI bus signal analysis or	5-104
SPIBus:CLOCk:POLarity	queries the current setting.	
:ANALysis:SBUS <x>[:ANALyze]:</x>	Sets the clock channel of the SPI bus signal analysis or queries the current	5-104
SPIBus:CLOCk:SOURce	setting.	
:ANALysis:SBUS <x>[:ANALyze]:</x>	Queries all settings related to the chip select channel of the SPI bus signal	5-104
SPIBus:CS?	analysis.	
:ANALysis:SBUS <x>[:ANALyze]:</x>	Sets the active level of the chip select channel of the SPI bus signal	5-104
SPIBus:CS:ACTive	analysis or queries the current setting.	
:ANALysis:SBUS <x>[:ANALyze]:</x>	Sets the chip select channel of the SPI bus signal analysis or queries the	5-104
SPIBus:CS:TRACe	current setting.	
:ANALysis:SBUS <x>[:ANALyze]:</x>	Queries all settings related to the data of the SPI bus signal analysis.	5-104
SPIBus:DATA <x>?</x>		
:ANALysis:SBUS <x>[:ANALyze]:</x>	Sets the active level of the data of the SPI bus signal analysis or queries	5-105
SPIBus:DATA <x>:ACTive</x>	the current setting.	
:ANALysis:SBUS <x>[:ANALyze]:</x>		5-105
SPIBus:DATA <x>:TRACe</x>	Setting.	F 405
:ANALysis:SBUS <x>[:ANALyze]:</x>	Queries all settings related to the SPI bus signal analysis setup.	5-105
SPIBus:SETup?	Cote the hit and a of the CDI has single and a chair an arrange the	F 405
:ANALysis:SBUS <x>[:ANALyze]:</x>	Sets the bit order of the SPI bus signal analysis or queries the current	5-105
SPIBus[:SETup]:BITorder	Setting.	E 405
:ANALysis:SBUS <x>[:ANALyze]: SPIBus[:SETup]:MODE</x>	Sets the wiring system of the SPI bus signal analysis (three-wire or four-	5-105
_	wire) or queries the current setting.	E 10E
:ANALysis:SBUS <x>[:ANALyze]:</x>	Queries all settings related to the threshold level of the source channel of	5-105
TRACe <x>?</x>	the serial bus signal analysis.  Sets the hysteresis of the threshold level of the source channel of the serial	5-106
:ANALysis:SBUS <x>[:ANALyze]: TRACe<x>:HYSTeresis</x></x>	bus signal analysis or queries the current setting.	3-100
:ANALysis:SBUS <x>[:ANALyze]:</x>	Sets the level of the threshold level of the source channel of the serial bus	5-106
TRACe <x>: LEVel</x>	signal analysis or queries the current setting.	3-100
:ANALysis:SBUS <x>[:ANALyze]:</x>	Queries all settings related to the CAN bus signal analysis trend display.	5-106
TRENd?	Actions an settings related to the Orivibus signal alialysis thenu display.	3.100
:ANALysis:SBUS <x>[:ANALyze]:</x>	Queries all settings related to cursor measurement in the CAN bus signal	5-106
TRENd: CURSor?	analysis trend display.	
	1 1 1 1 1 1 1 1 -	<del>                                     </del>
:ANALysis:SBUS <x>[:ANALyze]:</x>	Queries all settings related to each cursor measurement of the CAN bus	5-106

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Command	Function	Page
:ANALysis:SBUS <x>[:ANALyze]:</x>	Sets each cursor position on the CAN bus signal analysis trend or queries	5-106
TRENd: CURSor: C <x>: POSition</x>	the current setting.	
:ANALysis:SBUS <x>[:ANALyze]: TRENd:CURSor:C<x>:VALue?</x></x>	Queries the measured value of each cursor on the CAN bus signal analysis trend.	5-107
:ANALysis:SBUS <x>[:ANALyze]: TRENd:CURSor:DC:VALue?</x>	Queries the measured value between cursors on the CAN bus signal analysis trend.	5-107
:ANALysis:SBUS <x>[:ANALyze]:</x>	Turns ON/OFF each cursor on the CAN bus signal analysis trend or	5-107
TRENd:CURSor:DISPlay	queries the current setting.	
:ANALysis:SBUS <x>[:ANALyze]: TRENd:CURSor:DT:VALue?</x>	Queries the ΔT value of the cursor on the CAN bus signal analysis trend.	5-107
:ANALysis:SBUS <x>[:ANALyze]:</x>	Queries the 1/ΔT value of the cursor on the CAN bus signal analysis trend.	5-107
TRENd: CURSor: PERDt: VALue?		
:ANALysis:SBUS <x>[:ANALyze]: TRENd:CURSor:T<x>:VALue?</x></x>	Queries the time value of the cursor on the CAN bus signal analysis trend.	5-107
:ANALysis:SBUS <x>[:ANALyze]:</x>	Turns ON/OFF the CAN bus signal analysis trend display or queries the	5-107
TRENd:DISPlay :ANALysis:SBUS <x>[:ANALyze]:</x>	current setting.  Queries all settings related to the scaling of the CAN bus signal analysis	5-107
TRENd:SCALe?	trend display.	
:ANALysis:SBUS <x>[:ANALyze]: TRENd:SCALe:CENTer</x>	Sets the offset of the CAN bus signal analysis trend display or queries the current setting.	5-108
:ANALysis:SBUS <x>[:ANALyze]: TRENd:SCALe:MODE</x>	Sets the scaling method of the CAN bus signal analysis trend display or queries the current setting.	5-108
:ANALysis:SBUS <x>[:ANALyze]:</x>	Sets the vertical axis sensitivity of the CAN bus signal analysis trend	5-108
TRENd:SCALe:SENSitivity :ANALysis:SBUS <x>[:ANALyze]:UART?</x>	display or queries the current setting.  Queries all settings related to the UART bus signal analysis.	5-108
:ANALysis:SBUS <x>[:ANALyze]:UART:</x>	Sets the UART bus signal analysis bit order or queries the current setting.	5-108
BITorder	Deta the OAKT bus signal analysis bit order of queries the current setting.	5 100
:ANALysis:SBUS <x>[:ANALyze]:UART: BRATe</x>	Sets the UART bus signal analysis bit rate (data transfer rate) or queries the current setting.	5-108
:ANALysis:SBUS <x>[:ANALyze]:UART: FORMat</x>	Sets the UART bus signal analysis data format or queries the current setting.	5-109
:ANALysis:SBUS <x>[:ANALyze]:UART:</x>	Sets the UART bus signal analysis parity mode or queries the current	5-109
PMODe :ANALysis:SBUS <x>[:ANALyze]:UART:</x>	Sets the UART bus signal analysis polarity or queries the current setting.	5-109
POLarity :ANALysis:SBUS <x>[:ANALyze]:UART:</x>	Sets the UART bus signal analysis sample point or queries the current	5-109
SPOint	setting.	
:ANALysis:SBUS <x>[:ANALyze]:UART: TRACe</x>	Sets the UART bus signal analysis trace or queries the current setting.	5-109
:ANALysis:SBUS <x>[:ANALyze]:WTYPe</x>	Sets the serial bus signal analysis window type or queries the current setting.	5-109
:ANALysis:SBUS <x>:ZLINkage</x>	Sets the zoom link of the serial bus signal analysis or queries the current	5-109
:ANALysis:TYPE <x></x>	Sets the analysis function type or queries the current setting.	5-109
:ANALysis:VTDisplay	Turns ON/OFF the VT waveform display or queries the current setting.	5-110
:ANALysis:WAIT <x>?</x>	Waits for the analysis to complete with a timeout.	5-110
:ANALysis:WPARameter <x>?</x>	Queries all settings related to the waveform parameter measurement	5-110
:ANALysis:WPARameter <x>:BIT<x>?</x></x>	function.  Queries all settings related to each logic bit of logic waveform parameter	5-110
:ANALysis:WPARameter <x>:BIT<x>:</x></x>	measurement.  Queries all settings related to each area of logic waveform parameter	5-110
AREA <x>?</x>	measurement.	
:ANALysis:WPARameter <x>:BIT<x>: AREA<x>:TYPE</x></x></x>	Sets the logic waveform parameters for logic waveform parameter measurement or queries the current setting.	5-110
:ANALysis:WPARameter <x>: CALCulation</x>	Sets the calculation items or queries the current setting.	5-111
:ANALysis:WPARameter <x>:FLEXray?</x>	Queries all settings related to the FLEXRAY bus for waveform parameter	5-111
:ANALysis:WPARameter <x>:FLEXray:</x>	measurement.  Queries all settings related to bus waveforms of the FLEXRAY bus for	5-111
BUS?	waveform parameter measurement.	
:ANALysis:WPARameter <x>:FLEXray: BUS:TYPE</x>	Sets the bus waveform parameters for waveform parameter measurement or queries the current setting	5-111
:ANALysis:WPARameter <x>:FLEXray:</x>	Queries all settings related to the receiver waveform of the FLEXRAY bus	5-111
RECeiver?	for waveform parameter measurement.	

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Command	Page
Sets the receiver data waveform parameter measurement.	
ANALysis:WPARameterx>:FLEXray: Receiver data waveform parameters for waveform parameter measurement or queries the current setting assurement or queries the current setting the parameter measurement. White parameter measurement or queries the current setting assurement or queries the current setting the parameter measurement. Sets the receiver enable waveform parameter measurement. Sets the furnity parameter measurement. Sets the furnity receiver measurement. Sets the transmitter data waveform of the FLEXRAY bus for waveform parameter measurement. Sets the transmitter data waveform parameter measurement or queries the current setting. Sets the transmitter enable waveform parameter measurement or queries the current setting. Sets the transmitter enable waveform parameter measurement. Sets the transmitter enable waveform parameter measurement or queries the current setting. Sets the transmitter enable waveform parameter measurement. Sets the transmitter enable waveform parameter for waveform parameter measurement or queries the current setting. Sets the transmitter enable waveform parameter for waveform parameter measurement or queries the current setting. Sets the transmitter enable waveform parameters for waveform parameter measurement or queries the current setting. Sets the transmitter enable waveform parameters for waveform parameter measurement or queries the current setting. Sets the transmitter enable waveform parameters for waveform paramet	5-111
### MEASURE   MEASURE   ### CURSOr   ### CURSOr   ### ANALysis   WPARameter   ### ANALysis   WPARame	
ANALysis:WPARameter <x>: FLEXray: RECeiver:RXEN?   Clear    </x>	5-111
FLEXRAY bus for waveform parameter measurement.	
RANALysis: WPARameter <abr></abr>   Sets the receiver enable waveform parameters for waveform parameter RECeiver:RXEN:TYPE     Sets the receiver enable waveform parameters for waveform parameter measurement or queries the current setting     Queries all settings related to the transmitter waveform of the FLEXRAY bus for waveform parameter measurement.     Queries all settings related to the transmitter data waveforms of the FLEXRAY bus for waveform parameter measurement.     Sets the transmitter data waveforms of the FLEXRAY bus for waveform parameter for waveform parameter measurement.     Sets the transmitter data waveforms of the FLEXRAY bus for waveform parameters for waveform parameter measurement.     Sets the transmitter data waveforms of the FLEXRAY bus for waveform parameters for waveform parameter measurement.     Sets the transmitter data waveforms of the FLEXRAY bus for waveform parameters for waveform parameter measurement.     Sets the transmitter data waveforms of the FLEXRAY bus for waveform parameters for waveform parameter measurement.     Sets the transmitter data waveforms of the FLEXRAY bus for waveform parameters for waveform parameter measurement.     Sets the transmitter data waveforms of the FLEXRAY bus for waveform parameters for waveform parameter measurement.     Sets the transmitter data waveforms of the FLEXRAY bus for waveform parameters for waveform parameter measurement.     Sets the transmitter data waveforms of the FLEXRAY bus for waveform parameters for waveform parameter measurement.     Sets the transmitter data waveforms of the FLEXRAY bus for waveform parameters for waveform parameter measurement.     Sets the transmitter data waveforms parameter for waveform parameter for	5-111
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transmitter?    ANALysis:WPARameter <x>:FLEXray: FLEXRay: FLEXRay: Sets the transmitter data waveform parameter measurement.   ANALysis:WPARameter<x>:FLEXRay: FLEXRay bus for waveform parameter measurement.   Sets the transmitter data waveform parameter measurement.   ANALysis:WPARameter<x>:FLEXray: TRANSMITTER: TRAN</x></x></x>	5 440
ANALysis:WPARameter <abr></abr>   ANALysis:WPARameter <a>  ANALysis:WPARameter<a>  ANAL</a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>	5-112
### FLEXRAY bus for waveform parameter measurement.    ANALysis:WPARameter <x>:FLEXray:</x>	5-112
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HISTogram:MEASure:CURSor:C <x>: VALue?  :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:DC? :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:DC:STATe HISTogram:MEASure:CURSor:DC:STATe HISTogram:MEASure:CURSor:DC:STATe :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:DC: VALue? :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:DC: VALue? :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:DC: VALue? :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:LINKage :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:LINKage :ANALysis:WPARameter<x>: HISTogram:MEASure:MODE  Sets the automated measurement mode of the histogram display or queries the current setting.</x></x></x></x></x></x></x></x></x>	
VALue?  :ANALysis:WPARameter <x>: HISTogram:MEASure:CURSor:DC? HISTogram:MEASure:CURSor:DC:STATe  HISTogram:MEASure:CURSor:DC:STATe  HISTogram:MEASure:CURSor:DC:STATe  :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:DC: VALue?  :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:DC: VALue?  :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:LINKage  :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:LINKage  :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:LINKage  :ANALysis:WPARameter<x>: HISTogram:MEASure:MODE  Sets the automated measurement mode of the histogram display or queries the current setting.</x></x></x></x></x></x></x>	5-114
:ANALysis:WPARameter <x>: HISTogram:MEASure:CURSor:DC?  :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:DC:STATe  HISTogram:MEASure:CURSor:DC:STATe  HISTogram:MEASure:CURSor:DC:STATe  :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:DC:  VALue?  :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:DC:  VALue?  :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:LINKage  :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:LINKage  :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:LINKage  :ANALysis:WPARameter<x>: HISTogram:MEASure:MPARameter<x>: HISTogram:MEASure:MPARameter<x>: HISTogram:MEASure:MODE</x></x></x></x></x></x></x></x></x></x>	
HISTogram:MEASure:CURSor:DC?  :ANALysis:WPARameter <x>: HISTogram:MEASure:CURSor:DC:STATE :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:DC:STATE :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:DC: VALue? :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:DC: VALue? :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:LINKage :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:LINKage :ANALysis:WPARameter<x>: HISTogram:MEASure:MODE  Sets the automated measurement mode of the histogram display or queries the current setting.</x></x></x></x></x></x></x>	
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HISTogram: MEASure: CURSor: DC: STATE :ANALysis: WPARameter <x>: Uderies the current setting.  Queries the measured value between cursors on the histogram.  Uderies the measured value between cursors on the histogram.  Turns ON/OFF the cursor link on the histogram or queries the current setting.  Turns ON/OFF the cursor link on the histogram or queries the current setting.  Sets the automated measurement mode of the histogram display or queries the current setting.</x>	
:ANALysis:WPARameter <x>: HISTogram:MEASure:CURSor:DC: VALue? :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:LINKage :ANALysis:WPARameter<x>: HISTogram:MEASure:CURSor:LINKage :ANALysis:WPARameter<x>: HISTogram:MEASure:MODE  Sets the automated measurement mode of the histogram display or queries the current setting.</x></x></x></x>	5-115
HISTogram: MEASure: CURSor: DC: VALue?  :ANALysis: WPARameter <x>: HISTogram: MEASure: CURSor: LINKage :ANALysis: WPARameter<x>: HISTogram: MEASure: MPARameter<x>: HISTogram: MEASure: MODE  Sets the automated measurement mode of the histogram display or queries the current setting.</x></x></x>	
VALue?  :ANALysis:WPARameter <x>:  HISTogram:MEASure:CURSor:LINKage  :ANALysis:WPARameter<x>:  HISTogram:MEASure:MODE  Turns ON/OFF the cursor link on the histogram or queries the current setting.  Sets the automated measurement mode of the histogram display or queries the current setting.</x></x>	5-115
:ANALysis:WPARameter <x>: HISTogram:MEASure:CURSor:LINKage :ANALysis:WPARameter<x>: HISTogram:MEASure:MODE  Turns ON/OFF the cursor link on the histogram or queries the current setting.  Sets the automated measurement mode of the histogram display or queries the current setting.</x></x>	
HISTogram: MEASure: CURSor: LINKage setting.  :ANALysis: WPARameter <x>: HISTogram: MEASure: MODE Sets the automated measurement mode of the histogram display or querie the current setting.</x>	
:ANALysis:WPARameter <x>: HISTogram:MEASure:MODE  Sets the automated measurement mode of the histogram display or querie the current setting.</x>	5-115
HISTogram: MEASure: MODE the current setting.	5 445
	s <sub>1</sub> 5-115
T: ANALYSES: WPARAIMETER < X>:   Queries all settings related to the automated measurement of histogram	E 445
	5-115
HISTogram: MEASure: PARameter? parameters.  Turn ON/OFF all histogram parameters	5-115
: ANALysis: WPARameter <x>: Turn ON/OFF all histogram parameters.</x>	3-115
HISTOGram: MEASure: PARameter: ALL :ANALysis: WPARameter <x>:  Queries all settings related to the histogram parameter.</x>	5-116
HISTogram: MEASure:	3-110
PARameter: <parameter>?</parameter>	
:ANALysis:WPARameter <x>: Turns ON/OFF the histogram parameter or queries the current setting.</x>	5-116
HISTogram: MEASure:	
PARameter: <parameter>:STATe</parameter>	
:ANALysis:WPARameter <x>: Queries the measured value of the histogram parameter.</x>	5-116
HISTogram: MEASure:	
PARameter: <parameter>:VALue?</parameter>	
:ANALysis:WPARameter <x>:LIST? Queries all settings related to the list display.</x>	5-116
:ANALysis:WPARameter <x>:LIST: Queries list display items.</x>	5-116
ITEM?	

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Command	Function	Page
:ANALysis:WPARameter <x>:LIST:MODE</x>	Sets the list display mode of the waveform parameter measurement or	5-116
:ANALysis:WPARameter <x>:LIST:</x>	queries the current setting.  Sets the scroll direction of the list display or queries the current setting.	5-116
SCRoll	, , ,	
:ANALysis:WPARameter <x>:LIST: VALue?</x>	Queries the automated measured value of the list display number of the waveform parameter measurement.	5-117
:ANALysis:WPARameter <x>:MODE</x>	Sets the mode of the waveform parameter measurement or queries the current setting.	5-117
:ANALysis:WPARameter <x>:TRACe<x>?</x></x>	Queries all settings related to the trace of the waveform parameter measurement.	5-117
:ANALysis:WPARameter <x>:TRACe<x>:</x></x>	Queries all settings related to the area of the waveform parameter measurement.	5-117
:ANALysis:WPARameter <x>:TRACe<x>:</x></x>	Sets the waveform parameter of the waveform parameter measurement or	5-117
AREA <x>:TYPE :ANALysis:WPARameter<x>:TRENd?</x></x>		5-117
:ANALysis:WPARameter <x>:TRENd:</x>	measurement.  Executes the auto scaling of the trend display of the waveform parameter	5-118
ASCale[:EXECute]	measurement.	
:ANALysis:WPARameter <x>:TRENd: HRANge</x>	Sets the target window for trend display of measured waveform parameters or queries the current setting.	5-118
:ANALysis:WPARameter <x>:TRENd:</x>	Sets the horizontal span of the trend display of the waveform parameter measurement or queries the current setting.	5-118
:ANALysis:WPARameter <x>:TRENd:</x>	Queries all settings related to the automated measurement of the trend	5-118
MEASure? :ANALysis:WPARameter <x>:TRENd:</x>	display of the waveform parameter measurement.  Queries all settings related to the cursor measurement of the trend of the	5-118
MEASure: CURSor?	waveform parameter measurement.	3-110
:ANALysis:WPARameter <x>:TRENd: MEASure:CURSor:ALL</x>	Turns ON/OFF all cursors of the trend of the waveform parameter measurement.	5-118
:ANALysis:WPARameter <x>:TRENd:</x>	Queries all settings related to the measured value of the cursor of the trend	5-118
MEASure:CURSor:C <x>?</x>	of the waveform parameter measurement.	
:ANALysis:WPARameter <x>:TRENd: MEASure:CURSor:C<x>:POSition</x></x>	Sets the cursor position of the trend of the waveform parameter measurement or queries the current setting.	5-119
:ANALysis:WPARameter <x>:TRENd:</x>	Turns ON/OFF the cursor of the trend of the waveform parameter	5-119
MEASure:CURSor:C <x>:STATe</x>	measurement or queries the current setting.	
:ANALysis:WPARameter <x>:TRENd: MEASure:CURSor:C<x>:VALue?</x></x>	Queries the measured value of the cursor of the trend of the waveform parameter measurement.	5-119
:ANALysis:WPARameter <x>:TRENd:</x>	Queries all settings related to the measurement between cursors on the	5-119
MEASure: CURSor: DC?	trend.	
:ANALysis:WPARameter <x>:TRENd: MEASure:CURSor:DC:STATe</x>	Turns ON/OFF the measurement between cursors on the trend or queries the current setting.	5-119
:ANALysis:WPARameter <x>:TRENd:</x>	Queries the measured value between cursors on the trend.	5-119
MEASure: CURSor: DC: VALue?		
:ANALysis:WPARameter <x>:TRENd: MEASure:CURSor:LINKage</x>	Turns ON/OFF the trend cursor link of the waveform parameter measurement or queries the current setting.	5-120
:ANALysis:WPARameter <x>:TRENd:</x>	Sets the automated measurement mode of the trend of the waveform	5-120
MEASure:MODE	parameter measurement or queries the current setting.	
:ANALysis:WPARameter <x>:TRENd: VERTical</x>	Sets the vertical range of the trend of the waveform parameter measurement or queries the current setting.	5-120
:ANALysis:XY <x>?</x>	Queries all settings related to the XY display function.	5-120
:ANALysis:XY <x>:GATE?</x>	Queries all settings related to the gate function of the XY display.	5-120
:ANALysis:XY <x>:GATE:ALEVel</x>	Sets the active level of the gate of the XY display or queries the current	5-121
:ANALysis:XY <x>:GATE:</x>	setting. Sets the hysteresis of the gate of the XY display or queries the current	5-121
HYSTeresis <x></x>	setting.	
:ANALysis:XY <x>:GATE:LEVel<x></x></x>	Sets the level of the gate of the XY display or queries the current setting.	5-121
:ANALysis:XY <x>:GATE:TRACe</x>	Sets the gate trace of the XY display or queries the current setting.	5-121
:ANALysis:XY <x>:MEASure?</x>	Queries all settings related to the automated measurement of the XY display.	5-121
:ANALysis:XY <x>:MEASure:CURSor?</x>	Queries all settings related to the cursor measurement of the XY display.	5-121
:ANALysis:XY <x>:MEASure:CURSor: XLINkage</x>	Turns ON/OFF the horizontal cursor link on the XY display or queries the current setting.	5-122
:ANALysis:XY <x>:MEASure:CURSor:</x>	Queries all settings related to the horizontal cursor of the XY display.	5-122

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Command	Function	Page
:ANALysis:XY <x>:MEASure:CURSor:</x>	Sets the horizontal cursor position of the XY display or queries the current	5-122
X <x>:POSition</x>	setting.	
:ANALysis:XY <x>:MEASure:CURSor: X<x>:VALue?</x></x>	Queries the voltage value at the horizontal cursor of the XY display.	5-122
:ANALysis:XY <x>:MEASure:CURSor:</x>	Turns ON/OFF the vertical cursor link on the XY display or queries the	5-122
YLINkage	Current setting.	5-122
:ANALysis:XY <x>:MEASure:CURSor: Y<x>?</x></x>	Queries all settings related to the vertical cursor of the XY display.	
:ANALysis:XY <x>:MEASure:CURSor: Y<x>:POSition</x></x>	Sets the vertical cursor position of the XY display or queries the current setting.	5-122
:ANALysis:XY <x>:MEASure:CURSor: Y<x>:VALue?</x></x>	Queries the voltage value at the vertical cursor of the XY display.	5-123
:ANALysis:XY <x>:MEASure:MODE</x>	Sets the automated measurement mode of the XY display or queries the current setting.	5-123
:ANALysis:XY <x>:MEASure:XYINteg?</x>	Queries all settings related to the integration of the XY display.	5-123
:ANALysis:XY <x>:MEASure:XYINteg:</x>	Sets the integration mode of the XY display or queries the current setting.	5-123
:ANALysis:XY <x>:MEASure:XYINteg: POLarity</x>	Sets the integration polarity of the XY display or queries the current setting.	5-123
:ANALysis:XY <x>:MEASure:XYINteg:</x>	Queries the integral value of the XY display.	5-123
VALue?		
:ANALysis:XY <x>:TRANge</x>	Sets the measurement range of the XY display or queries the current setting.	5-123
:ANALysis:XY <x>:WINDow</x>	Sets the measurement source window of the XY display or queries the current setting.	5-123
:ANALysis:XY <x>:XTRace</x>	Sets the X-axis trace of the XY display or queries the current setting.	5-124
:ANALysis:XY <x>:YTRace</x>	Sets the Y-axis trace of the XY display or queries the current setting.	5-124
ASETup Group		
:ASETup:EXECute	Executes auto setup.	5-125
: ASETup: UNDO	Cancels auto setup that has been executed.	5-125
CALibrate Group		
:CALibrate?	Queries all settings related to the calibration.	5-125
:CALibrate:EXECute	Executes calibration.	5-125
:CALibrate:MODE	Turns ON/OFF the auto calibration or queries the current setting.	5-125
CHANnel Group		
:CHANnel <x>?</x>	Queries all settings related to the channel.	5-126
:CHANnel <x>:ASCale[:EXECute]</x>	Executes the auto scaling of the channel.	5-126
:CHANnel <x>:BWIDth</x>	Sets the input filter of the channel or queries the current setting.	5-126
:CHANnel <x>:COUPling</x>	Sets the input coupling of the channel or queries the current setting.	5-126
:CHANnel <x>:DESKew</x>	Sets the skew correction of the channel or queries the current setting.	5-126
:CHANnel <x>:DISPlay</x>	Turns ON/OFF the display of the channel or queries the current setting.	5-126
:CHANnel <x>:INVert</x>	Turns ON/OFF the inverted display of the channel or queries the current setting.	5-126
:CHANnel <x>:LABel?</x>	Queries all settings related to the waveform label of the channel.	5-126
:CHANnel <x>:LABel[:DEFine]</x>	Sets the waveform label of the channel or queries the current setting.	5-126
:CHANnel <x>:LABel:MODE</x>	Turns ON/OFF the waveform label display of the channel or queries the current setting.	5-126
:CHANnel <x>:OCANcel</x>	Turns ON/OFF the offset cancel of the channel or queries the current	5-127
:CHANnel <x>:OFFSet</x>	setting.  Sets the offset voltage of the channel or queries the current setting.	5-127
:CHANNEL <x>:OFFSet :CHANnel<x>:POSition</x></x>	Sets the vertical position of the channel or queries the current setting.	5-127
:CHANnel <x>:POSITION :CHANnel<x>:PROBe?</x></x>	Queries all settings related to the probe attenuation of the channel.	5-127
:CHANNEL <x>:FROBE: :CHANnel<x>:PROBe[:MODE]</x></x>	Sets the probe attenuation of the channel or queries the current setting.	5-127
:Channal <x>:PROBe:AUTO?</x>	Queries the probe attenuation of the channel when set to AUTO.	5-127
:CHANnel <x>:SELect</x>	Sets the waveform (input/computation) to be assigned to the input channel	5-127
:CHANnel <x>:SVALue</x>	or queries the current setting.  Turns ON/OFF the scale display of the channel or queries the current	5-127
:CHANnel <x>:VDIV</x>	Sets the vertical sensitivity (V/div) of the channel or queries the current	5-127
0.5 0	setting.	
CLEar Group		1
:CLEar:ACCumulate	Clears accumulated waveforms.	5-128

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Command	Function	Page
:CLEar[:HISTory]	Clears history waveforms.	5-128
:CLEar:SNAP	Clears snapshot waveforms.	5-128
COMMunicate Group		
:COMMunicate?	Queries all settings related to communications.	5-128
:COMMunicate:HEADer	Sets whether to attach a header to the response data or queries the current setting.	5-128
:COMMunicate:LOCKout	Sets or clears local lockout.	5-128
:COMMunicate:OPSE	Sets the overlap command that is to used by the *OPC, *OPC?, and *WAI commands or queries the current setting.	5-128
:COMMunicate:OPSR?	Queries the operation pending status register.	5-128
:COMMunicate:OVERlap	Sets the commands that will operate as overlap commands or queries the current setting.	5-129
:COMMunicate:REMote	Sets remote or local.	5-129
:COMMunicate:STATus?	Queries line-specific status.	5-129
:COMMunicate:VERBose	Sets whether to use abbreviated or unabbreviated form for response data or queries the current setting.	5-129
:COMMunicate:WAIT	Waits for a specified extended event.	5-129
:COMMunicate:WAIT?	Creates the response that is returned when the specified event occurs.	5-129
CURSor Group		
:CURSor?	Queries all settings related to cursor measurements.	5-130
:CURSor:DISPlay	Turns ON/OFF the cursor or queries the current setting.	5-130
:CURSor:HORizontal?	Queries all settings related to the horizontal cursors.	5-130
:CURSor:HORizontal:BASic?	Queries all settings related to basic items of the horizontal cursors.	5-130
:CURSor:HORizontal[:BASic]:ALL	Turns ON/OFF all basic items of the horizontal cursors.	5-130
:CURSor:HORizontal[:BASic]:DV?	Queries all settings related to the $\Delta V$ measurement of the horizontal cursors.	5-130
:CURSor:HORizontal[:BASic]:DV: STATe	Turns ON/OFF the $\Delta V$ measurement of the horizontal cursors or queries the current setting.	5-130
:CURSor:HORizontal[:BASic]:DV: VALue?	Queries the $\Delta V$ value of the horizontal cursors.	5-130
:CURSor:HORizontal[:BASic]: LINKage	Turns ON/OFF the horizontal cursor link or queries the current setting.	5-130
:CURSor:HORizontal[:BASic]:V <x>?</x>	Queries all settings related to the horizontal cursor.	5-131
:CURSor:HORizontal[BASic]:V <x>: JUMP</x>	Jumps the horizontal cursor to the center position of the zoom waveform.	5-131
:CURSor:HORizontal[:BASic]:V <x>: POSition</x>	Sets the horizontal cursor position or queries the current setting.	5-131
:CURSor:HORizontal[:BASic]:V <x>: STATe</x>	Turns ON/OFF the horizontal cursor or queries the current setting.	5-131
:CURSor:HORizontal[:BASic]:V <x>: VALue?</x>	Queries the voltage value at the horizontal cursor.	5-131
:CURSor:HORizontal:CALCulation?	Queries all settings related to calculation items of the horizontal cursors.	5-131
:CURSor:HORizontal:CALCulation:	Turns ON/OFF all calculation items of the horizontal cursors.	5-131
:CURSor:HORizontal:CALCulation: DEFine <x></x>	Sets the equation of the calculation item of the horizontal cursor or queries the current setting.	5-131
:CURSor:HORizontal:CALCulation: STATe <x></x>	Turns ON/OFF the calculation item of the horizontal cursor or queries the current setting.	5-131
:CURSor:HORizontal:CALCulation: VALue <x>?</x>	Queries the measured value of the calculation item of the horizontal cursor.	5-132
:CURSor:HORizontal:TRACe	Sets the source trace of the horizontal cursor or queries the current setting.	5-132
:CURSor:MARKer?	Queries all settings related to the marker cursors.	5-132
:CURSor:MARKer:CALCulation?	Queries all settings related to calculation items of the marker cursors.	5-132
:CURSor:MARKer:CALCulation:ALL	Turns ON/OFF all calculation items of the marker cursors.	5-132
:CURSor:MARKer:CALCulation: DEFine <x></x>	Sets the equation of the calculation item of the marker cursors or queries the current setting.	5-132
:CURSor:MARKer:CALCulation:	Turns ON/OFF the calculation item of the marker cursors or queries the	5-132
STATe <x></x>	current setting.	
:CURSor:MARKer:CALCulation: VALue <x>?</x>	Queries the measured value of the calculation item of the marker cursors.	5-132
:CURSor:MARKer:CM <x>?</x>	Queries all settings related to the marker cursor.	5-132
:CURSor:MARKer:CM <x>:ALL</x>	Turns ON/OFF all items of the marker cursor.	5-133
:CURSor:MARKer:CM <x>:DT<x>?</x></x>	Queries all settings related to the $\Delta T$ measurement of the cursor marker.	5-133

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Command	Function	Page
:CURSor:MARKer:CM <x>:DT<x>:STATe</x></x>	Turns ON/OFF the $\Delta T$ measurement of the maker cursor or queries the current setting.	5-133
:CURSor:MARKer:CM <x>:DT<x>:VALue?</x></x>	Queries the ΔT value of the marker cursor.	5-133
:CURSor:MARKer:CM <x>:DV<x>?</x></x>	Queries all settings related to the $\Delta V$ measurement of the cursor marker.	5-133
:CURSor:MARKer:CM <x>:DV<x>:STATe</x></x>	Turns ON/OFF the ∆V measurement of the maker cursor or queries the current setting.	5-133
:CURSor:MARKer:CM <x>:DV<x>:VALue?</x></x>	Queries the ΔV value of the marker cursor.	5-133
:CURSor:MARKer:CM <x>:JUMP</x>	Jumps the marker cursor to the center position of the zoom waveform.	5-133
:CURSor:MARKer:CM <x>:POSition</x>	Sets the marker cursor position or queries the current setting.	5-133
:CURSor:MARKer:CM <x>:T?</x>	Queries all settings related to the time measurement of the marker cursor.	5-133
:CURSor:MARKer:CM <x>:T:STATe</x>	Turns ON/OFF the time measurement of the maker cursor or queries the current setting.	5-134
:CURSor:MARKer:CM <x>:T:VALue?</x>	Queries the time value at the marker cursor position.	5-134
:CURSor:MARKer:CM <x>:TRACe</x>	Sets the source trace of the marker cursor or queries the current setting.	5-134
:CURSor:MARKer:CM <x>:V?</x>	Queries all settings related to the voltage measurement of the marker cursor.	5-134
:CURSor:MARKer:CM <x>:V:STATe</x>	Turns ON/OFF the voltage measurement of the maker cursor or queries the current setting.	5-134
:CURSor:MARKer:CM <x>:V:VALue?</x>	Queries the voltage value at the marker cursor position.	5-134
:CURSor:MARKer:FORM	Sets the marker cursor form or queries the current setting.	5-134
:CURSor:SERial?	Queries all settings related to the serial cursors.	5-134
:CURSor:SERial:SCURsor <x>?</x>	Queries all settings related to the serial cursor.	5-134
:CURSor:SERial:SCURsor <x>:ACTive</x>	Sets the active level of the serial cursor or queries the current setting.	5-134
:CURSor:SERial:SCURsor <x>:BCOunt</x>	Sets the bit length of the serial cursor or queries the current setting.	5-135
:CURSor:SERial:SCURsor <x>:BITRate</x>	Sets the bit rate of the serial cursor or queries the current setting.	5-135
:CURSor:SERial:SCURsor <x>: BITorder</x>	Sets the bit order of the serial cursor or queries the current setting.	5-135
:CURSor:SERial:SCURsor <x>:FORMat</x>	Sets the display format of the serial cursor or queries the current setting.	5-135
:CURSor:SERial:SCURsor <x>: HYSTeresis</x>	Sets the hysteresis of the serial cursor or queries the current setting.	5-135
:CURSor:SERial:SCURsor <x>:JUMP</x>	Moves the serial cursor to the specified direction.	5-135
:CURSor:SERial:SCURsor <x>:LEVel</x>	Sets the threshold level of the serial cursor or queries the current setting.	5-135
:CURSor:SERial:SCURsor <x>:MODE</x>	Turns ON/OFF the serial cursor or queries the current setting.	5-135
:CURSor:SERial:SCURsor <x>: POSition</x>	Sets the serial cursor position or queries the current setting.	5-135
:CURSor:SERial:SCURsor <x>:TRACE</x>	Sets the trace of the serial cursor or queries the current setting.	5-136
:CURSor:SERial:SCURsor <x>:TRACK</x>	Jumps the serial cursor onto the zoom waveform.	5-136
:CURSor:SERial:SCURsor <x>:VALue?</x>	Queries the measured value of the serial cursor.	5-136
		+
:CURSor:TYPE	Sets the cursor type or queries the current setting.	5-136
:CURSor:VERTical?	Queries all settings related to the vertical cursors.	5-136
:CURSor:VERTical:BASic?	Queries all settings related to basic items of the vertical cursors.	5-136
:CURSor:VERTical[:BASic]:ALL	Turns ON/OFF all basic items of the vertical cursors.	5-136
:CURSor:VERTical[:BASic]:DT:STATe	Queries all settings related to the $\Delta T$ measurement of the vertical cursors. Turns ON/OFF the $\Delta T$ measurement of the vertical cursors or queries the	5-136 5-136
:CURSor:VERTical[:BASic]:DT: VALue?	current setting.  Queries the ∆T value of the vertical cursors.	5-136
:CURSor:VERTical[:BASic]:LINKage	Turns ON/OFF the vertical cursor link or queries the current setting.	5_126
٥	Queries all settings related to the 1/ $\Delta$ T measurement of the vertical cursors.	5-136
:CURSor:VERTical[:BASic]:PERDt? :CURSor:VERTical[:BASic]:PERDt:	Turns ON/OFF the 1/ $\Delta$ T measurement of the vertical cursors or gueries the	+
STATe	current setting.	
:CURSor:VERTical[:BASic]:PERDt: VALue?	Queries the 1/ΔT value of the vertical cursors.	5-137
:CURSor:VERTical[:BASic]:T <x>?</x>	Queries all settings related to the vertical cursor.	5-137
:CURSor:VERTical[:BASic]:T <x>: JUMP</x>	Jumps the vertical cursor to the center position of the zoom waveform.	5-137
:CURSor:VERTical[:BASic]:T <x>: POSition</x>	Sets the vertical cursor position or queries the current setting.	5-137
:CURSor:VERTical[:BASic]:T <x>:</x>	Turns ON/OFF the vertical cursor or queries the current setting.	5-137

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Sets the equation of the calculation item of the vertical cursor or queries be DEFT.inexxx	Command	Function	Page
Queries al settings related to calculation items of the vertical cursors. 5-137   CURSOR   VERTICAL   CALCULATION	:CURSor:VERTical[:BASic]:T <x>:</x>	Queries the time value at the vertical cursor.	5-137
Tums ONOFF all calculation item of the vertical cursors.   5-137	VALue?		
Sets the equation of the calculation item of the vertical cursor or queries the current setting.	:CURSor:VERTical:CALCulation?	Queries all settings related to calculation items of the vertical cursors.	5-137
the current setting.    CITRS or I VRRT (call c CALCulation)	:CURSor:VERTical:CALCulation:ALL	Turns ON/OFF all calculation items of the vertical cursors.	5-137
SUBSOLYNT[IABSIc]   FORDup-Xxxx	:CURSor:VERTical:CALCulation:	Sets the equation of the calculation item of the vertical cursor or queries	5-137
### CURSOr VPT (BASIc) (1900 Pex.)	DEFine <x></x>	the current setting.	
CURSOr: VT   TABSIc	:CURSor:VERTical:CALCulation:	Turns ON/OFF the calculation item of the vertical cursor or queries the	5-138
VALUES OF: VT: 2AS1c1 : CURSOF: VT: 2AS1c2 : CURSOF: VT: 2AS1c2 : CURSOF: VT: 2AS1c2 : ALL CURSOF: VT: 1ABS1c1 : CROUP <> CURSOF: VT: 1BBS1c1 : VT: ALL CURSOF: VT: 1BBS1c1 : VT: ALL </ CURSOF: VT: CALCULation: DEFT inex < CURSOF: VT: CALCULation: ALL CURSOF: VT: CALCULation: DEFT inex < CURSOF: VT: CALCULation: DEFT inex <> CURSOF: VT: CALCULation: DEFT inex <> CURSOF: VT: CALCULation: VALUE CURSOF: VT: CALCULation: VALUE </ CUR</td <td>STATe<x></x></td> <td></td> <td></td>	STATe <x></x>		
CURSOr: VT: BASIc!   CROUP <   Turns ON/OFF all basic items of the VT cursor	:CURSor:VERTical:CALCulation:	Queries the measured value of the calculation item of the vertical cursor.	5-138
CURSO: \text{VT: BASic}   Cursos   Cu	VALue <x>?</x>		
CURSOr:YT[:BaSic]:GROup <x>?   Queries all seatings related to the VT cursor of the logic group of the VT cursor of queries the current setting.   CURSOr:YT[:BaSic]:GROup<x>: Sets the measurement bit order of the logic group of the VT cursor or queries the current setting.   CURSOr:YT[:BaSic]:GROup<x>: Sets the display format of the measured value of the logic group of the VT cursor or queries the current setting.   CURSOr:YT[:BaSic]:GROup<x>: STATE CURSOr:YT[:BaSic]:GROup<x>: STATE CURSOr:YT[:BaSic]:GROup<x>: STATE CURSOr:YT[:BaSic]:FOSIcion</x></x></x></x></x></x>	:CURSor:VT?	Queries all settings related to the VT cursor.	5-138
CURSOr:YT[:BaSic]:GROup <x>?   Queries all seatings related to the VT cursor of the logic group of the VT cursor of queries the current setting.   CURSOr:YT[:BaSic]:GROup<x>: Sets the measurement bit order of the logic group of the VT cursor or queries the current setting.   CURSOr:YT[:BaSic]:GROup<x>: Sets the display format of the measured value of the logic group of the VT cursor or queries the current setting.   CURSOr:YT[:BaSic]:GROup<x>: STATE CURSOr:YT[:BaSic]:GROup<x>: STATE CURSOr:YT[:BaSic]:GROup<x>: STATE CURSOr:YT[:BaSic]:FOSIcion</x></x></x></x></x></x>	:CURSor:VT:BASic?		5-138
CURSOr: YT [: BASic] : GROUp-cx>   Sets the measurement bit order of the logic group.   5-138			5-138
Sets the measurement bit order of the logic group of the VT cursor or queries the current setting.			_
### STORDARY TO LINE SOLIT OF THE MASIC OF T			_
Sets the display format of the measured value of the logic group of the VT   5-136	_		0 100
CURSOr:VT[:BASic]:GROUp <x>:STATE (CURSOr:VT[:BASic]:GROup<x>: Turns ON/OFF the reasured value of the logic group of the VT cursor or queries the current setting.  CURSOr:VT[:BASic]:ROSITION  Sets the VT cursor position or queries the current setting.  5-139  CURSOr:VT[:BASic]:ROSITION  Queries all settings related to the time value of the VT cursor.  5-139  CURSOr:VT[:BASic]:T:STATE  CURSOr:VT[:BASic]:T:STATE  CURSOr:VT[:BASic]:T:VALue?  Queries all settings related to the time value of the VT cursor.  5-139  CURSOr:VT[:BASic]:T:VALue?  Queries all settings related to the time value of the VT cursor.  5-139  CURSOr:VT[:BASic]:V<x>?  Queries all settings related to the voltage value of the VT cursor.  5-139  CURSOr:VT[:BASic]:V<x>?  Queries all settings related to the voltage value of the VT cursor.  5-139  CURSOr:VT[:BASic]:V<x>?  Queries all settings related to the voltage value of the VT cursor.  5-139  CURSOr:VT[:BASic]:V<x>:VALue?  Queries all settings related to calculation items of the VT cursor.  5-139  CURSOr:VT:CALCulation:ALI  CURSOr:VT:CALCulation:ALI  CURSOr:VT:CALCulation:DEFine<x>  CURSOr:VT:CALCulation:DEFine<x>  CURSOr:VT:CALCulation:STATe<x>  Queries all settings related to calculation items of the VT cursor or queries the current setting.  1:CURSOr:VT:CALCulation:VALue<x>?  Queries the measured value of the VT cursor or queries the current setting.  1:CURSOr:VT:CALCulation:VALue<x>?  Queries all settings related to the voltage value of the VT cursor or queries the current setting.  1:CURSOr:VT:CALCulation:VALue<x>?  Queries all settings related to the voltage value of the VT cursor or queries the current setting.  1:CURSOr:VT:CALCulation:VALue<x>?  Queries all settings related to the display.  1:CURSOR:VT:CALCulation:VALue<x>?  Queries all settings related to the display.  1:CURSOR:VT:CALCulation:VALue<x>?  Queries all settings related to the display.  1:CURSOR:VT:CALCulation:VALue<x? 1:cursor:vt:calculation:value<x?="" all="" display.="" queries="" related="" related<="" settings="" td="" the="" to=""><td></td><td></td><td>5-139</td></x?></x></x></x></x></x></x></x></x></x></x></x></x></x></x></x>			5-139
CURSOr:VT[:BASic]:GROUp <x>:STATE   Turns ON/OFF the measured value of the logic group of the VT cursor of queries the current setting.   CURSOr:VT[:BASic]:GROUp<x>:   Queries the measured value of the logic group of the VT cursor.   5-139   **CURSOr:VT[:BASic]:ROSITION   Sets the VT cursor position or queries the current setting.   5-139   **CURSOr:VT[:BASic]:T:STATE   Queries all settings related to the time value of the VT cursor.   5-139   **CURSOr:VT[:BASic]:T:STATE   Turns ON/OFF the time value of the VT cursor or queries the current setting.   5-139   **CURSOr:VT[:BASic]:V<x>?   Queries the time value at the VT cursor.   5-139   **CURSOr:VT[:BASic]:V<x>?   Queries the time value at the VT cursor or queries the current setting.   1-139   **CURSOr:VT[:BASic]:V<x>?   Queries the time value at the VT cursor or queries the current setting.   1-139   **CURSOr:VT[:BASic]:V<x>?   Queries all settings related to the voltage value of the VT cursor.   5-139   **CURSOr:VT[:BASic]:V<x>?   Queries all settings related to the voltage value of the VT cursor.   5-139   **CURSOr:VT[:BASic]:V<x>:VALue?   Queries all settings related to calculation items of the VT cursor.   5-140   **CURSOr:VT[:CALCulation:DEPine<x>   Queries all settings related to calculation items of the VT cursor.   5-140   **CURSOr:VT[:CALCulation:STATE<x **cispaly:<="" **cispaly:accumulate:persistence:="" **cursor:vt[:calculation:value<x]="" 1-139="" 5-141="" all="" backlight="" calculation="" current="" cursor="" display.="" items="" of="" off="" on="" or="" packing="" queries="" related="" setting.="" settings="" td="" the="" to="" turns="" volument="" vt=""  =""><td>_</td><td></td><td>3-133</td></x></x></x></x></x></x></x></x></x></x>	_		3-133
Queries the current setting.   Queries the Current setting.   S-139			5-130
CURSOr:VT[:BASic]:RBOUP<  Cursor	.cokboi.vi[.bAbic].dkoup <x>.biAie</x>		3-133
VALUE?  \[ \text{CURSOr} \text{VT}[: BASic] : POSITION \]  Sets the VT cursor position or queries the current setting.  \[ \text{CURSOr} \text{VT}[: BASic] : T? \]  Queries all settings related to the time value of the VT cursor.  \[ \text{CURSOR} \text{VT}[: BASic] : T: \text{VALUE}? \]  \[ \text{CURSOR} \text{VT}[: BASic] : T: \text{VALUE}? \]  \[ \text{Queries the time value at the VT cursor.}  \[ \text{CURSOR} \text{VT}[: BASic] : V: \texx-? \]  \[ \text{Queries the time value at the VT cursor.}  \[ \text{CURSOR} \text{VT}[: BASic] : V: \texx-? \]  \[ \text{Queries all settings related to the voltage value of the VT cursor.}  \[ \text{CURSOR} \text{VT}[: BASic] : V: \texx-: \text{VALUE}? \]  \[ \text{Queries the voltage value at the VT cursor.}  \[ \text{CURSOR} \text{VT}[: BASic] : V: \texx-: \text{VALUE}? \]  \[ \text{Queries the voltage value at the VT cursor.}  \[ \text{CURSOR} \text{VT}[: BASic] : V: \texx-: \text{VALUE}? \]  \[ \text{Queries the voltage value at the VT cursor.}  \[ \text{CURSOR} \text{VT}[: CALCulation: ALL the voltage value at the VT cursor.}  \[ \text{CURSOR} \text{VT}[: CALCulation: ALL the voltage value at the VT cursor.}  \[ \text{CURSOR} \text{VT}[: CALCulation: ALL the voltage value at the VT cursor.}  \[ \text{CURSOR} \text{VT}[: CALCulation: ALL the voltage value at the VT cursor.}  \[ \text{CURSOR} \text{VT}[: CALCulation: ALL the voltage value at the VT cursor.}  \[ \text{CURSOR} \text{VT}[: CALCulation: ALL the voltage value at the VT cursor.}  \[ \text{CURSOR} \text{VT}[: CALCulation: ALL the voltage value at the VT cursor.}  \[ \text{CURSOR} \text{VT}[: CALCulation: ALL the voltage value at the VT cursor.}  \[ \text{CURSOR} \text{VT}[: CALCulation: ALL the voltage value at the VT cursor.}  \[ \text{CURSOR} \text{VT}[: CALCulation: ALL the voltage value at the VT cursor.}  \[ \text{CURSOR} \text{VT}[: CALCulation: ALL the voltage value at the VT cursor.}  \[ \text{CURSOR} \text{VT}[: CALCulation: ALL the voltage value at the VT cursor.}  \[ \text{CURSOR} \text{VT}[: CALCu	.CIDCon.VT[.DACial.CDOunces.		5 120
CURSOr:VT[:BASic]:POSITION   Sets the VT cursor position or queries the current setting.   5-139	_	Queries the measured value of the logic group of the viriculsor.	5-139
CURSOr:VT[:BASic]:T?   Queries all settings related to the time value of the VT cursor.   5-139		Soto the VT gureer position or queries the gurrent setting	F 120
CURSor:VT[:BASic]:T:STATE   Turns ON/OFF the time value of the VT cursor or queries the current setting.			
Setting.			
CURSOr:VT[:BASic]:T:VALue?   Queries the time value at the VT cursor.   5-139	:CURSor:VT[:BASic]:T:STATe	·	5-139
CURSor:VT[:BASic]:V <x>?   Queries all settings related to the voltage value of the VT cursor.   5-139    </x>			
CURSOr:VT[:BASic]:V <x>:STATE   Setting.   /x>			
setting.			+
CURSOr:VT:CALCulation?   Queries all settings related to calculation items of the VT cursor.   5-139	:CURSor:VT[:BASic]:V <x>:STATe</x>	setting.	5-139
:CURSOr:VT:CALCulation:ALL Turns ON/OFF all calculation items of the VT cursor. 5-140 :CURSOr:VT:CALCulation:DEFine<>> Sets the equation of the calculation item of the VT cursor or queries the current setting. :CURSOr:VT:CALCulation:STATe<>> Turns ON/OFF the calculation item of the VT cursor or queries the current setting. :CURSOr:VT:CALCulation:VALue<>>> Queries the measured value of the calculation item of the VT cursor. 5-140 :CURSOr:VT:JUMP Jumps to the center position of the zoom waveform of the VT cursor. 5-140  DISPlay Group  DISPlay? Queries all settings related to the display. 5-141 :DISPlay:ACCumulate? Queries all settings related to the accumulated display of waveforms. 5-141 :DISPlay:ACCumulate:MODE Sets the accumulate mode or queries the current setting. 5-141 :DISPlay:ACCumulate:PERSistence? Queries all settings related to the accumulate display of waveforms. 5-141 :DISPlay:ACCumulate:PERSistence? Queries all settings related to the accumulate of the current setting. 5-141 :DISPlay:ACCumulate:PERSistence? Queries all settings related to persistence. 5-141 :DISPlay:ACCumulate:PERSistence: Sets the persistence count or queries the current setting. 5-141 :DISPlay:ACCumulate:PERSistence: Sets the persistence mode or queries the current setting. 5-141 :DISPlay:ACCumulate:PERSistence: Sets the persistence mode or queries the current setting. 5-141 :DISPlay:BLIGht:AUTOOFf Sets the function that automatically turns the backlight off or queries the current setting. 5-142 :DISPlay:BLIGht:CD Turns ON/OFF the backlight or queries the current setting. 5-142 :DISPlay:BLIGht:TIMeout Sets the timeout of the backlight or queries the current setting. 5-142 :DISPlay:COLor: {CHANnel <x>  LOGic  Sets the waveform color or queries the current setting. 5-142 :DISPlay:COLor: {CHANnel<x>  LOGic  Sets the display format or queries the current setting. 5-142 :DISPlay:FORMat Sets the display format or queries the current setting. 5-142 :DISPlay:GRATicule Sets the display format or queries the current setting. 5-142 :DISPlay:G</x></x>	:CURSor:VT[:BASic]:V <x>:VALue?</x>	Queries the voltage value at the VT cursor.	5-139
Sets the equation of the Calculation item of the VT cursor or queries the current setting.	:CURSor:VT:CALCulation?	Queries all settings related to calculation items of the VT cursor.	5-139
Sets the equation of the Calculation item of the VT cursor or queries the current setting.	:CURSor:VT:CALCulation:ALL	Turns ON/OFF all calculation items of the VT cursor.	5-140
current setting.  CURSOr:VT:CALCulation:STATe <x> Turns ON/OFF the calculation item of the VT cursor or queries the current setting.  CURSOr:VT:CALCulation:VALue<x>? Queries the measured value of the calculation item of the VT cursor.  5-140  CURSOr:VT:JUMP Jumps to the center position of the zoom waveform of the VT cursor.  5-140  DISPlay Group  DISPlay: ACCumulate? Queries all settings related to the display.  DISPlay:ACCumulate:GRADe Sets the accumulate mode or queries the current setting.  5-141  DISPlay:ACCumulate:MODE Turns ON/OFF the accumulate mode or queries the current setting.  5-141  DISPlay:ACCumulate:PERSistence: Queries all settings related to persistence.  COUNT Sets the persistence count or queries the current setting.  5-141  DISPlay:ACCumulate:PERSistence: Sets the persistence mode or queries the current setting.  5-141  DISPlay:ACCumulate:PERSistence: Sets the persistence mode or queries the current setting.  5-141  DISPlay:BLIGht:AUTooff Sets the persistence time or queries the current setting.  5-142  DISPlay:BLIGht:AUTooff Sets the function that automatically turns the backlight off or queries the current setting.  5-142  DISPlay:BLIGht:LCD Turns ON/OFF the backlight or queries the current setting.  5-142  DISPlay:BLIGht:LTMeout Sets the limeout of the backlight or queries the current setting.  5-142  DISPlay:BLIGht:CITMENUM Sets the limeout of the backlight or queries the current setting.  5-142  DISPlay:BLIGht:CITMENUM Sets the limeout of the backlight or queries the current setting.  5-142  DISPlay:COLor: {CHANnelex&gt;  LOGic  Sets the waveform color or queries the current setting.  5-142  DISPlay:COLor: {CHANnelex&gt;  LOGic  Sets the waveform color or queries the current setting.  5-142  DISPlay:GRATicule Sets the display format or queries the current setting.  5-142  DISPlay:GRATicule Sets the graticule (grid) or queries the current setting.  5-142  DISPlay:GRATicule Sets the graticule (grid) or queries the current setting.  5-142  DISPlay:GRATicule Sets the graticule (grid) or queries th</x></x>	:CURSor:VT:CALCulation:DEFine <x></x>		5-140
### SON/OFF the calculation item of the VT cursor or queries the current setting.  ### CURSOT:VT:CALCUlation:VALue< ### Queries the measured value of the calculation item of the VT cursor.  ### CURSOT:VT:JUMP  ### Jumps to the center position of the zoom waveform of the VT cursor.  ### Solution of the VT cursor.			
:CURSor:VT:CALCulation:VALue <xxy? **display:accumulate:persistence:="" **display:blight:="" **display:blight:autooff="" **display:blight:brightness="" **display:blight:lcd="" **display:blight:timeout="" **display:color:="" **display:color?="" **display:format="" **display:golor:="" **sets="" 5-140="" 5-141="" 5-142="" :display:accumulate:grade="" :display:accumulate:persistence:="" :display:accumulate:persistence?="" :display:accumulate?="" accumulate="" all="" automatically="" backlight="" backlight.="" calculation="" channel="" channel<**="" color.="" count="" current="" cursor.="" display="" display.="" format="" function="" group="" item="" logic="" measured="" mode="" of="" off="" on="" or="" persistence="" persistence.="" q<="" queries="" related="" sets="" setting.="" settings="" td="" that="" the="" time="" timeout="" to="" turns="" value="" vt="" waveform=""  =""><td>:CURSor:VT:CALCulation:STATe<x></x></td><td>Turns ON/OFF the calculation item of the VT cursor or queries the current</td><td>5-140</td></xxy?>	:CURSor:VT:CALCulation:STATe <x></x>	Turns ON/OFF the calculation item of the VT cursor or queries the current	5-140
CURSOr:VT:JUMP	·CIIRSor·VT·CALCulation·VALue <x>?</x>	· ·	5-140
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Sets the FLEXRAY eye diagram test mode or queries the current setting.  Sets the eye diagram not be current setting.  Sets the eye diagram note or queries the current setting.  Sets the eye diagram note or queries the current setting.  Sets the seye diagram rote or queries the current setting.  Sets the telecometest.  Sets the telecometest display or queries the current setting.  Sets the telecometest display or queries the current setting.  Sets the telecometest display or queries the current setting.  Sets the telecometest display or queries the current setting.  Sets the telecometest display or queries the current setting.  Sets the telecometest display or queries the current setting.  Sets the telecometest display or queries the current setting.  Sets the set display or queries the current setting.  Sets the set display or queries the current setting.  Sets the set display or queries the current setting.  Sets the set display or queries the current setting.  Sets the set pattern parameters.  Sets the set pattern parameters.  Sets the set pattern waveform parameters.  Sets the set pattern waveform parameters or queries the current setting.  Sets the set pattern waveform parameter values.  Se			5-149
Sets the eye diagram mode or queries the current setting.   Set State and Settings related to the telecom test.		•	F 140
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SYEDLagram:TELecomtest:CATegory   Sets the telecomt test tipp or queries the current setting.   5-   SYEDLagram:TELecomtest: DISPlay   Turns ON/OFF the telecom test display or queries the current setting.   5-   SYEDLagram:TELecomtest: Durns ON/OFF all every pattern   5-   SYEDLagram:TELecomtest: Turns ON/OFF all every pattern waveform parameters.   5-   SYEDLagram:TELecomtest: Turns ON/OFF the every pattern waveform parameters.   5-   SYEDLagram:TELecomtest: Durns ON/OFF the every pattern waveform parameters.   5-   SYEDLagram:TELecomtest: Durns ON/OFF the every pattern waveform parameters or queries the current setting.   6-   SYEDLagram:TELecomtest: Durns ON/OFF the every pattern waveform parameters or queries the current setting.   6-   SYEDLagram:TELecomtest: Durns ON/OFF the every pattern waveform parameters or queries the current setting.   6-   SYEDLagram:TELecomtest: Durns ON/OFF the every pattern waveform parameters or queries the current setting.   6-   SYEDLagram:TELecomtest: Durns ON/OFF the every pattern waveform parameters or queries the current setting.   6-   SYEDLagram:TELecomtest: Durns ON/OFF the every pattern Threshold levels.   6-   SYEDLagram:TELecomtest: Durns ON/OFF the every pattern Threshold levels or queries the current setting.   6-   SYEDLagram:TELecomtest: Sets the every pattern threshold levels to unit or queries the current setting.   6-   SYEDLagram:TELecomtest: NASK: Durns ON/OFF all items of each element used in the mask test.   6-   SYEDLagram:TELecomtest: NASK: Durns ON/OFF all items of each element used in the mask test.   6-   SYEDLagram:TELecomtest: NASK: Durns ON/OFF all items of each element.   6-   SYEDLagram:TELecomtest: NASK: Durns ON/OFF all items of each element.   6-   SYEDLagram:TELecomtest: NASK: Durns ON/OFF each of the element waveform parameters or queries the current setting.   6-   SYEDLagram:TELecomtest: NASK: Durns ON/OFF has mask display or queries the current setting.   6-   SYEDLagram:TELecomtest: NASK: Durns ON/OFF has mask display or queries the c			5-149
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EYEPattern:VDARk  :EYEDiagram:TELecomtest:MASK: Queries all settings related to the mask test.  5-:EYEDiagram:TELecomtest:MASK: Queries all settings related to each element used in the mask test.  5-:ELEMent < x>?  :EYEDiagram:TELecomtest:MASK: Turns ON/OFF all items of each element all at once.  5-:ELEMent < x> : ALL  :EYEDiagram:TELecomtest:MASK: Queries settings related to waveform parameters of each element.	EYEPattern:TLEVels:UNIT	<u> </u>	
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EVEDIagram: TELecomtest: MASK:   Queries all settings related to each element used in the mask test.   S-	EYEPattern: VDARk	-	
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:EYEDiagram:TELecomtest:MASK: ELEMent <x>:ALL  :EYEDiagram:TELecomtest:MASK: ELEMent<x>:queries settings related to waveform parameters of each element.  5- ELEMent<x>:cparameter&gt;?  :EYEDiagram:TELecomtest:MASK: ELEMent<x>:cparameter&gt;:STATE  :EYEDiagram:TELecomtest:MASK: ELEMent<x>:cparameter&gt;:STATE  :EYEDiagram:TELecomtest:MASK: ELEMent<x>:cparameter&gt;:VALue?  :EYEDiagram:TELecomtest:MMODE  :EYEDiagram:TELecomtest:MMODE  :EYEDiagram:TELecomtest:TRACE  :EYEDiagram:TELecomtest:TRACE  :EYEDiagram:TELecomtest:TRACE  Sets the target trace for the telecom test or queries the current setting.  5- EYEDiagram:TELecomtest:WINDow  Sets the window to be measured in the telecom test or queries the current setting.  FILE Group  :FILE:DIRectory?  Queries all settings related to the specified storage medium.  5- FILE[:DIRectory]:CDIRectory  Sets the current directory or queries the current setting.  5- FILE:DIRectory]:MDIRectory  Creates a directory under the specified directory.  5- EXECUTED MEMORY [: EXECUTE]  5- EXECUTED MASK:  Queries all settings related to the internal memory.  5- EXEMPTIBE (: DIRectory): MDIRectory  Creates a directory under the specified directory.  5- EXECUTED MEMORY [: EXECUTE]  5- EXECUTED MASK:  Queries all settings related to the internal memory.  5- EXECUTED MASK:  Queries all settings related to the internal memory.  5- EXECUTED MASK:  Cueries all settings related to the internal memory.  5- EXECUTED MASK:  Cueries all settings related to the internal memory.  5- EXECUTED MASK:  Cueries all settings related to the internal memory.  5- EXECUTED MASK:  EXEMPTIBE: INTERNAL RECALL:  EXECUTED MASK:  Cueries all settings related to the internal memory.  5- EXECUTED MASK:  EXEMPTIBE: EXECUTED  5- EXECUTED MASK:  Cueries all settings related to the internal memory.  5- EXEMPTIBE: INTERNAL RECALL:  EXEMPTIBE: EXECUTED  5- EXEMPTIBE: EXECUTE</x></x></x></x></x></x>	_	Queries all settings related to each element used in the mask test.	5-152
ELEMent x>: ALL  :EYEDiagram: TELecomtest: MASK: ELEMent x>: **cparameter>?  :EYEDiagram: TELecomtest: MASK: ELEMent x>: **cparameter>: ETATE  current setting.  Queries waveform parameters of each element.  5-  ELEMent x>: **cparameter>: STATE  current setting.  Queries waveform parameters or queries the current setting.  5-  ELEMent x>: **cparameter>: VALue?  :EYEDiagram: TELecomtest: MMODe  :EYEDiagram: TELecomtest: MMODe  :EYEDiagram: TELecomtest: TRACe  Sets the target trace for the telecom test or queries the current setting.  5-  EYEDiagram: TELecomtest: TRANge  (Time Range)  :EYEDiagram: TELecomtest: WINDow  Sets the window to be measured in the telecom test or queries the current setting.  FILE Group  :FILE: DIRectory?  Queries all settings related to the specified storage medium or internal memory.  :FILE: DIRectory]: FREE?  Queries all settings related to the specified storage medium.  5-  EYEIDIE (:DIRectory): FREE?  Queries the free disk space in bytes on the specified storage medium.  5-  FILE: INTernal?  :FILE: INTernal?  EXECUTES Waveful and the internal memory.  EXECUTES Waveful and the internal memory.  5-  EXECUTES Waveful and the internal memory.  5-  EXEMPTIVE (:DIRectory): FREE?  Queries all settings related to the internal memory.  5-  EXEMPTIVE (:DIRectory): FREE?  Queries all settings related to the internal memory.  5-  EXEMPTIVE (:DIRectory): FREE?  Sets the current directory under the specified directory.  5-  EXEMPTIVE :INTernal : EXECUTES EXECU			<del>                                     </del>
:EYEDiagram:TELecomtest:MASK: ELEMent <x>:<parameter>?  :EYEDiagram:TELecomtest:MASK: ELEMent<x>:<parameter>:EYEDiagram:TELecomtest:MASK: ELEMent<x>:<parameter>:STATe current setting.  :EYEDiagram:TELecomtest:MASK: ELEMent<x>:<parameter>:STATe current setting.  :EYEDiagram:TELecomtest:MASK: ELEMent<x>:<parameter>:VALue? :EYEDiagram:TELecomtest:MASK: ELEMent<x>:<parameter>:VALue? :EYEDiagram:TELecomtest:MMODe :EYEDiagram:TELecomtest:TRACe :EYEDiagram:TELecomtest:TRACe :EYEDiagram:TELecomtest:TRACe :EYEDiagram:TELecomtest:TRANge (Time Range) :EYEDiagram:TELecomtest:WINDow :EYEDiagram:TELecomtest:WINDow Sets the time range of the telecom test or queries the current setting.  Sets the window to be measured in the telecom test or queries the current setting.  FILE Group :FILE?  Queries all settings related to the specified storage medium or internal memory.  :FILE:DIRectory]:CDIRectory :FILE:DIRectory]:FREE? Queries the current directory or queries the current setting.  5- :FILE:DIRectory]:FREE? Queries the free disk space in bytes on the specified storage medium.  5- :FILE:INTernal: :FILE:INTernal:RECall: Executes the loading of the accumulated data from the internal memory.  5-  DMEMORY [:EXECute]</parameter></x></parameter></x></parameter></x></parameter></x></parameter></x></parameter></x>	_	Turns ON/OFF all items of each element all at once.	5-152
ELEMent <a>x&gt;:<parameter>? :EYEDiagram:TELecomtest:MASK: ELEMent<a>x&gt;:<parameter>:STATe :EYEDiagram:TELecomtest:MASK: ELEMent<a>x&gt;:<parameter>:STATe :EYEDiagram:TELecomtest:MASK: ELEMent<a>x&gt;:<parameter>:VALue? :EYEDiagram:TELecomtest:MMODe :EYEDiagram:TELecomtest:MMODe :EYEDiagram:TELecomtest:TRACe :EYEDiagram:TELecomtest:TRACe :EYEDiagram:TELecomtest:TRANGe (Time Range) :EYEDiagram:TELecomtest:WINDow Sets the target trace for the telecom test or queries the current setting.  Sets the time range of the telecom test or queries the current setting.  FILE Group  :FILE?  Queries all settings related to the specified storage medium or internal memory.  :FILE:DIRectory? :FILE:DIRectory]:CDIRectory Sets the current directory or queries the current setting.  5-: FILE:DIRectory]:MIRectory :FILE:DIRectory]:MIRectory :FILE:DIRectory]:MIRectory :FILE:DIRectory]:MIRectory :FILE:DIRectory]:MIRectory :FILE:INTernal? Queries all settings related to the specified directory.  :FILE:INTernal:RECall: Executes the loading of the accumulated data from the internal memory.  5-: DMEMory[:EXECute]</parameter></a></parameter></a></parameter></a></parameter></a>			
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ELEMent < x>: <pre>current setting.</pre> :EYEDiagram: TELecomtest: MASK: ELEMent < x>: <pre>current setting.</pre> :EYEDiagram: TELecomtest: MMODe :EYEDiagram: TELecomtest: MMODe :EYEDiagram: TELecomtest: TRACe :EYEDiagram: TELecomtest: TRACe :EYEDiagram: TELecomtest: TRACe :EYEDiagram: TELecomtest: TRANGe (Time Range) :EYEDiagram: TELecomtest: WINDow :EYEDiagram: TELecomtest: WINDow :EYEDiagram: TELecomtest: WINDow Sets the time range of the telecom test or queries the current setting.  Sets the window to be measured in the telecom test or queries the current setting.  FILE Group  :FILE?  Queries all settings related to the specified storage medium or internal memory.  :FILE[:DIRectory]: CDIRectory :FILE[:DIRectory]: FREE? Queries all settings related to the specified storage medium.  5- Creates a directory under the specified directory.  :FILE: INTernal? Queries all settings related to the internal memory.  5- Creates a directory under the specified directory.  5- Creates a directory under the specified data from the internal memory.  5- Creates a directory under the specified data from the	-	The ON/OFF and of the plant of	5 450
:EYEDiagram:TELecomtest:MASK: ELEMent <x>:<parameter>:VALue?  :EYEDiagram:TELecomtest:MMODe :EYEDiagram:TELecomtest:MMODe :EYEDiagram:TELecomtest:TRACe :EYEDiagram:TELecomtest:TRACe :EYEDiagram:TELecomtest:TRANGe (Time Range) :EYEDiagram:TELecomtest:WINDow :EYEDiagram:Telecomtest:TRANge (Time Range) :EYEDiagram:Telecomtest:Mindow :EYEDiagram:Telecomtest:TRANge (Time Range) :EYEDiagram:Telecomtest:Mindow :EYEDiagram:Telecomtest:M</parameter></x>		· · · · · · · · · · · · · · · · · · ·	5-152
ELEMent x>: <parameter>:VALue?  :EYEDiagram:TELecomtest:MMODe :EYEDiagram:TELecomtest:TRACe :EYEDiagram:TELecomtest:TRACe :EYEDiagram:TELecomtest:TRANGe (Time Range) :EYEDiagram:TELecomtest:WINDow :EYEDiagram:TELecomtest:WINDow Sets the time range of the telecom test or queries the current setting.  5-  **CHIE Group  **FILE Group  **CHIE:DIRectory?  **Queries all settings related to the specified storage medium or internal memory.  **FILE [:DIRectory]:CDIRectory  **Sets the current directory under the specified directory.  **FILE:INTernal?  **Queries all settings related to the internal memory.  **Sets the current directory under the specified directory.  **Sets the current directory under the sp</parameter>	-	<u> </u>	5-152
:EYEDiagram:TELecomtest:MMODe :EYEDiagram:TELecomtest:TRACe :EYEDiagram:TELecomtest:TRACe :EYEDiagram:TELecomtest:TRANge (Time Range) :EYEDiagram:TELecomtest:WINDow Sets the time range of the telecom test or queries the current setting.  Sets the time range of the telecom test or queries the current setting.  FILE Group  :FILE:DIRectory?  Queries all settings related to the specified storage medium or internal memory.  :FILE:DIRectory]:CDIRectory :FILE:DIRectory]:FREE?  Queries all settings related to the specified storage medium.  5-  Sets the current directory or queries the current setting.  5-  Creates a directory under the specified directory.  5-  FILE:INTernal:RECall:  Executes the loading of the accumulated data from the internal memory.  5-  Company of the telecom test or queries the current setting.  5-  Sets the time range of the telecom test or queries the current setting.  5-  Sets the window to be measured in the telecom test or queries the current setting.  5-  Sets the window to be measured in the telecom test or queries the current setting.  5-  Sets the window to be measured in the telecom test or queries the current setting.  5-  Sets the window to be measured in the telecom test or queries the current setting.  5-  Sets the window to be measured in the telecom test or queries the current setting.  5-  Sets the current directory or queries the current setting.  5-  Sets the current directory or queries the current setting.  5-  Sets the set ing the free disk space in bytes on the specified storage medium.  5-  Sets the set ing the free disk space in bytes on the specified storage medium.  5-  Sets the set ing the free disk space in bytes on the specified storage medium.  5-  Sets the current setting.  5-  Sets the window to be measured in the telecom test or queries the current setting.  5-  Sets the window to be measured in the telecom test or queries the current setting.  5-  Sets the window to be measured in the telecom test or queries the current setting.  5-  Sets the window to be measur	_	Queries wavelorm parameters of each element.	5-152
:EYEDiagram: TELecomtest: TRACe :EYEDiagram: TELecomtest: TRANge (Time Range) :EYEDiagram: TELecomtest: WINDow :EYEDiagram: TELecomtest: WINDow :EYEDiagram: TELecomtest: WINDow  Sets the window to be measured in the telecom test or queries the current setting.  FILE Group  :FILE: DIRectory?  Queries all settings related to the specified storage medium or internal memory.  :FILE: DIRectory]: CDIRectory  Sets the current directory or queries the current setting.  5-  :FILE: DIRectory]: FREE?  Queries the current directory or queries the current setting.  5-  :FILE: DIRectory]: MDIRectory  :FILE: INTernal?  Queries all settings related to the specified storage medium.  5-  :FILE: DIRectory]: MDIRectory  :FILE: INTernal: RECall:  Executes the loading of the accumulated data from the internal memory.  5-  Executes the loading of the accumulated data from the internal memory.	-	Turns ON/OFF the mask display or queries the current setting	5-152
:EYEDiagram: TELecomtest: TRANGE (Time Range) :EYEDiagram: TELecomtest: WINDow Sets the window to be measured in the telecom test or queries the current setting.  FILE Group  :FILE: DIRectory?  :FILE: DIRectory]: CDIRectory :FILE: DIRectory]: FREE? Queries all settings related to the specified storage medium.  5-  :FILE: DIRectory]: CDIRectory  :FILE: DIRectory]: FREE? Queries the current directory or queries the current setting.  5-  :FILE: DIRectory]: MDIRectory  :FILE: INTernal?  Creates a directory under the specified directory.  5-  :FILE: INTernal: RECall:  DMEMory [:EXECute]  Sets the time range of the telecom test or queries the current setting.  5-          -	-		5-152
(Time Range)  :EYEDiagram:TELecomtest:WINDow  Sets the window to be measured in the telecom test or queries the current setting.  FILE Group  :FILE:DIRectory?  Queries all settings related to the specified storage medium or internal memory.  :FILE:DIRectory?  Queries all settings related to the specified storage medium.  5-  :FILE:DIRectory]:CDIRectory  Sets the current directory or queries the current setting.  :FILE:DIRectory]:FREE?  Queries the free disk space in bytes on the specified storage medium.  :FILE:INTernal?  Creates a directory under the specified directory.  :FILE:INTernal:RECall:  Executes the loading of the accumulated data from the internal memory.  5-  DMEMory[:EXECute]			5-152
Sets the window to be measured in the telecom test or queries the current setting.  FILE Group  :FILE?  Queries all settings related to the specified storage medium or internal memory.  :FILE:DIRectory?  :FILE:DIRectory]:CDIRectory  Sets the current directory or queries the current setting.  :FILE[:DIRectory]:FREE?  Queries the free disk space in bytes on the specified storage medium.  :FILE:DIRectory]:MDIRectory  :FILE:INTernal?  Queries all settings related to the specified directory.		Joers and time range of the telecom test of queries the current setting.	0-103
Setting.   FILE Group		Sets the window to be measured in the telecom test or queries the current	5-153
FILE Group  :FILE:  Queries all settings related to the specified storage medium or internal memory.  :FILE:DIRectory? Queries all settings related to the specified storage medium.  5-  :FILE[:DIRectory]:CDIRectory Sets the current directory or queries the current setting.  :FILE[:DIRectory]:FREE? Queries the free disk space in bytes on the specified storage medium.  :FILE[:DIRectory]:MDIRectory Creates a directory under the specified directory.  :FILE:INTernal? Queries all settings related to the internal memory.  :FILE:INTernal:RECall: Executes the loading of the accumulated data from the internal memory.  5-  DMEMory[:EXECute]	:EIEDIAGIAM:IEDECOMCESC:WINDOW		3-133
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:FILE:DIRectory?       Queries all settings related to the specified storage medium.       5-         :FILE[:DIRectory]:CDIRectory       Sets the current directory or queries the current setting.       5-         :FILE[:DIRectory]:FREE?       Queries the free disk space in bytes on the specified storage medium.       5-         :FILE[:DIRectory]:MDIRectory       Creates a directory under the specified directory.       5-         :FILE:INTernal?       Queries all settings related to the internal memory.       5-         :FILE:INTernal:RECall:       Executes the loading of the accumulated data from the internal memory.       5-         DMEMory[:EXECute]       5-	: FILE:		3-134
:FILE [:DIRectory] : CDIRectory       Sets the current directory or queries the current setting.       5-         :FILE [:DIRectory] : FREE?       Queries the free disk space in bytes on the specified storage medium.       5-         :FILE [:DIRectory] : MDIRectory       Creates a directory under the specified directory.       5-         :FILE:INTernal?       Queries all settings related to the internal memory.       5-         :FILE:INTernal:RECall:       Executes the loading of the accumulated data from the internal memory.       5-         DMEMory [:EXECute]       5-	·FILE·DIRectory?		5-154
:FILE [:DIRectory] : FREE?       Queries the free disk space in bytes on the specified storage medium.       5-         :FILE [:DIRectory] : MDIRectory       Creates a directory under the specified directory.       5-         :FILE:INTernal?       Queries all settings related to the internal memory.       5-         :FILE:INTernal:RECall:       Executes the loading of the accumulated data from the internal memory.       5-         DMEMory [:EXECute]       5-			5-154
:FILE [:DIRectory] :MDIRectory       Creates a directory under the specified directory.       5-         :FILE:INTernal?       Queries all settings related to the internal memory.       5-         :FILE:INTernal:RECall:       Executes the loading of the accumulated data from the internal memory.       5-         DMEMory [:EXECute]       5-			5-154
:FILE:INTernal? Queries all settings related to the internal memory. 5- :FILE:INTernal:RECall: Executes the loading of the accumulated data from the internal memory.  DMEMory [:EXECute] 5-	-		5-154
:FILE:INTernal:RECall: Executes the loading of the accumulated data from the internal memory.  DMEMory[:EXECute] 5-7			5-155
DMEMory[:EXECute]			5-155
		Like the loading of the accumulated data from the internal memory.	0-100
	:FILE:INTernal:RECall:	Executes the loading of the setup data from the internal memory.	5-155
SETup [: EXECute]		Executed the locality of the octap data from the internal memory.	100

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Command	Function	Page
:FILE:INTernal:STORe?	Queries all settings related to the saving to the internal memory.	5-155
:FILE:INTernal:STORe:BINary?	Queries all settings related to the saving of the binary data to the internal memory.	5-155
:FILE:INTernal:STORe: BINary[:EXECute]	Executes the saving of the binary data to the internal memory.	5-155
:FILE:INTernal:STORe:BINary:TRACe	Sets the trace to be saved in binary data to the internal memory or queries the current setting.	5-155
:FILE:INTernal:STORe:DMEMory?	Queries all settings related to the saving of the accumulated data to the internal memory.	5-155
:FILE:INTernal:STORe: DMEMory[:EXECute]	Executes the saving of the accumulated data to the internal memory.	5-156
:FILE:INTernal:STORe:DMEMory: TRACe	Sets the trace to be saved in accumulated data to the internal memory or queries the current setting.	5-156
:FILE:INTernal:STORe:SETup?	Queries all settings related to the saving of the setup data to the internal memory.	5-156
:FILE:INTernal:STORe:SETup: COMMent <x></x>	Sets the comment to the setup data to be saved to the internal memory or queries the current setting.	5-156
:FILE:INTernal:STORe:SETup: DATE <x>?</x>	Queries the date/time when the setup data was saved to the internal memory.	5-156
:FILE:INTernal:STORe:SETup[: EXECute]	Executes the saving of the setup data to the internal memory.	5-156
:FILE:INTernal:STORe:SETup: LOCK <x></x>	Turns ON/OFF the read-only attribute of the setup data in the internal memory or queries the current setting.	5-156
:FILE:INTernal:UNLoad: DMEMory[:EXECute]	Clears the loaded accumulated data.	5-156
:FILE:LOAD?	Queries all settings related to the loading of files on the specified storage medium.	5-156
:FILE:LOAD:{BINary ZPOLYGON  ZWAVe}?	Queries all settings related to the loading of specific data.	5-156
:FILE:LOAD:{BINary DMEMory MASK  SETup SYMBol ZPOLygon ZWAVe}: ABORt	Aborts the loading of the specific data.	5-157
:FILE:LOAD:{BINary DMEMory MASK  SETup SYMBol ZPOLygon ZWAVe}[: EXECute]	Executes the loading of the specific data.	5-157
:FILE:LOAD:BINary:REFerence	Sets the load destination of the binary data or queries the current setting.	5-157
:FILE:LOAD:{ZPOLygon ZWAVe}:ZONE	Sets the load destination of the zone data of specific data or queries the current setting.	5-157
:FILE:SAVE?	Queries all settings related to the saving of the data.	5-157
:FILE:SAVE:{AHIStogram ASCii  BINary DMEMory FFT FLOat SBUS  ZWAVe}?	Queries all settings related to the saving of the specific data.	5-157
:FILE:SAVE:{AHIStogram ASCii  BINary DMEMory FFT FLOat SETup  SBUS WPARameter ZWAVe}:ABORt	Aborts the save operation of specific data.	5-157
:FILE:SAVE:{AHIStogram ASCii  BINary DMEMory FFT FLOat SETup  SBUS WPARameter ZWAVe}[:EXECute]	Executes the saving of specific data by specifying a file name.	5-158
:FILE:SAVE:{AHIStogram FFT SBUS}: ANALysis	Sets the trace of specific data to be saved or queries the current setting.	5-158
:FILE:SAVE:ANAMing	Sets the type of auto naming of file names of the saved data or queries the current setting.	5-158
:FILE:SAVE:{ASCii BINary FLOat}: COMPression	Sets the compression method for saving specific data or queries the current setting.	5-158
:FILE:SAVE:{ASCii BINary FLOat}: HISTory	Sets whether to save the entire data or the selected data of specific data or queries the current setting.	5-158
:FILE:SAVE:{ASCii BINary FLOat}: LENGth	Sets the size of waveform data to save for each type of data or queries the current setting.	5-158
:FILE:SAVE:ASCii:RANGe	Sets the ASCII data saving range or queries the current setting.	5-158
:FILE:SAVE:{ASCii BINary FLOat}: TRACe	Sets the trace of specific data to be saved or queries the current setting.	5-159
:FILE:SAVE:COMMent	Sets the comment of data to be saved or queries the current setting.	5-159
:FILE:SAVE:DMEMory:TRACe	Sets the trace to be saved as accumulated data or queries the current setting.	5-159

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Command	Function	Page
:FILE:SAVE:NAME	Sets the name of the data file to be saved or queries the current setting.	5-159
:FILE:SAVE:ZWAVe:ZONE	Sets the zone of the zone data to be saved or queries the current setting.	5-159
GONogo Group		
:GONogo?	Queries all settings related to the GO/NO-GO determination.	5-160
:GONogo:ABORt	Aborts the GO/NO-GO determination.	5-160
:GONogo:ACTion?	Queries all settings related to the action taken when the determination	5-160
	result is NO-GO and the criteria.	
:GONogo:ACTion:BUZZer	Sets whether to sound a buzzer when the determination result is NO-GO or queries the current setting.	5-160
:GONogo:ACTion:HCOPy	Sets whether to print the screen image on the printer when the determination result is NO-GO or queries the current setting.	5-160
:GONogo:ACTion:MAIL?	Queries all settings related to the mail transmission when the determination is NO-GO.	5-160
:GONogo:ACTion:MAIL:INTerval	Sets the interval at which to send mail when the determination is NO-GO or queries the current setting.	5-160
:GONogo:ACTion:MAIL:MODE	Sets whether to send mail when the determination is NO-GO or queries the current setting.	5-161
:GONogo:ACTion:SAVE	Sets whether to save the waveform data to the storage medium when the determination result is NO-GO or queries the current setting.	5-161
:GONogo:CONDition <x></x>	Sets the GO/NO-GO determination criteria or queries the current setting.	5-161
:GONogo:COUNt?	Queries the actual number of GO/NO-GO determinations.	5-161
:GONogo:EXECute	Executes the GO/NO-GO determination.	5-161
:GONogo:EYEDiagram?	Queries all settings related to the eye diagram judgment.	5-161
:GONogo:EYEDiagram:SELect <x>?</x>	Queries all settings related to each condition of the eye diagram judgment.	5-161
:GONogo:EYEDiagram:SELect <x>: FLEXray?</x>	Queries all settings related to the FLEXRAY eye diagram judgment.	5-161
:GONogo:EYEDiagram:SELect <x>: FLEXray:<pre>cparameter&gt;</pre></x>	Sets the upper and lower limits of the waveform parameters of the FLEXRAY eye diagram judgment or queries the current setting.	5-161
:GONogo:EYEDiagram:SELect <x>: TELecomtest?</x>	Queries all settings related to the telecom test judgment.	5-162
:GONogo:EYEDiagram:SELect <x>: TELecomtest:EYEPattern?</x>	Queries all settings related to the eye pattern judgment of each condition.	5-162
:GONogo:EYEDiagram:	Sets the upper and lower limits of the waveform parameters of eye pattern	5-162
SELect <x>:TELecomtest: EYEPattern:<parameter></parameter></x>	judgment or queries the current setting.	0 .02
:GONogo:EYEDiagram:SELect <x>:</x>	Queries all settings related to the mask judgment of each condition.	5-162
TELecomtest: MASK?	author all octaings rolated to the mask judgment of oden containen.	0 102
:GONogo:EYEDiagram:SELect <x>:</x>	Queries all settings related to each element used in the mask judgment.	5-162
TELecomtest: MASK: ELEMent <x>?</x>	,	
:GONogo:EYEDiagram:	Sets the upper and lower limits of the error rate per number of sample data	5-162
SELect <x>:TELecomtest:MASK:</x>	of each element.	
ELEMent <x>:<parameter></parameter></x>		
:GONogo:LOGic	Sets the GO/NO-GO determination logic or queries the current setting.	5-163
:GONogo:MODE	Sets the type of GO/NO-GO determination or queries the current setting.	5-163
:GONogo:NGCount?	Queries the actual number of NO-GOs of the GO/NO-GO determination.	5-163
:GONogo:SCONdition?	Queries all settings related to the determination termination condition.	5-163
:GONogo[:SCONdition]:NGCount	Sets the number of NO-GOs that terminates the GO/NO-GO determination or queries the current setting.	5-163
:GONogo[:SCONdition]:STOPcount	, ,	5-163
:GONogo:ZPARameter?	Queries all settings related to zone/parameter determination.	5-163
:GONogo:ZPARameter:SELect <x>?</x>	Queries all settings related to the condition of the zone/parameter determination.	5-163
:GONogo:ZPARameter:SELect <x>:MODE</x>	Sets the mode of the condition or queries the current setting.	5-164
:GONogo:ZPARameter:SELect <x>: PARameter?</x>	Queries all settings related to the condition parameter.	5-164
:GONogo:ZPARameter:SELect <x>: PARameter:CATegory</x>	Sets the parameter category or queries the current setting.	5-164
,	Outside all settings added to the FET determined to	5-164
:GONogo:ZPARameter:SELect <x>: PARameter:FFT<x>?</x></x>	Queries all settings related to the FFT determination.	

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Command	Function	Page
:GONogo:ZPARameter:SELect <x>:</x>	Queries all settings related to the peak value of the FFT determination.	5-164
PARameter:FFT <x>:PEAK?</x>		
:GONogo:ZPARameter:SELect <x>:</x>	Sets the upper and lower limits between the peak frequencies of the FFT	5-165
PARameter:FFT <x>:PEAK:DFREquency</x>	determination or queries the current setting.	5 405
:GONogo:ZPARameter:SELect <x>:</x>	Sets the upper and lower limits between the peak voltages of the FFT	5-165
PARameter:FFT <x>:PEAK:DV</x>	determination or queries the current setting.	5-165
:GONogo:ZPARameter:SELect <x>: PARameter:FFT<x>:PEAK:</x></x>	Sets the upper and lower limits of the peak frequency of the FFT determination or queries the current setting.	5-105
FREQuency <x></x>	determination of queries the current setting.	
:GONogo:ZPARameter:SELect <x>:</x>	Sets the upper and lower limits of the peak voltage of the FFT	5-165
PARameter:FFT <x>:PEAK:V<x></x></x>	determination or queries the current setting.	
:GONogo:ZPARameter:SELect <x>:</x>	Queries all settings related to the determination using automated	5-165
PARameter: MEASure?	measurement of waveform parameters.	
:GONogo:ZPARameter:SELect <x>:</x>	Queries all settings related to each logic bit of measure determination.	5-166
PARameter:MEASure:BIT <x>?</x>		
:GONogo:ZPARameter:SELect <x>:</x>	Queries all settings related to each area of measure determination.	5-166
PARameter:MEASure:BIT <x>:AREA<x>?</x></x>		
:GONogo:ZPARameter:SELect <x>:</x>	Queries all settings related to logic waveform parameters of measure	5-166
PARameter:MEASure:BIT <x>:AREA<x>:</x></x>	determination.	
TYPE?	Coto the upper and lower limits of the logic way of the second	E 400
:GONogo:ZPARameter:SELect <x>: PARameter:MEASure:BIT<x>:AREA<x>:</x></x></x>	Sets the upper and lower limits of the logic waveform of measure determination or queries the current setting.	5-166
TYPE: <parameter></parameter>	determination of queries the current setting.	
:GONogo:ZPARameter:SELect <x>:</x>	Sets the upper and lower limits of the calculation item of the measure	5-166
PARameter: MEASure: CALCulation <x></x>	determination or queries the current setting.	3 100
:GONogo:ZPARameter:SELect <x>:</x>	Queries all settings related to the FLEXRAY of the measure determination.	5-167
PARameter: MEASure: FLEXray?		
:GONogo:ZPARameter:SELect <x>:</x>	Queries all settings related to the FLEXRAY bus of the measure	5-167
PARameter:MEASure:FLEXray:BUS?	determination.	
:GONogo:ZPARameter:SELect <x>:</x>	Queries all settings related to the waveform parameters of the FLEXRAY	5-167
PARameter:MEASure:FLEXray:BUS:	bus of the measure determination.	
TYPE?		
:GONogo:ZPARameter:SELect <x>:</x>	Sets the upper and lower limits of the FLEXRAY bus waveform parameters	5-167
PARameter: MEASure: FLEXray: BUS:	of the measure determination or queries the current setting.	
TYPE: <pre>CONses FDAPerston GEL oft and and and and and and and and and and</pre>	Quarian all pottings related to the ELEVRAY requires of the massure	5-167
:GONogo:ZPARameter:SELect <x>: PARameter:MEASure:FLEXray:</x>	Queries all settings related to the FLEXRAY receiver of the measure determination.	5-107
RECeiver?	determination.	
:GONogo:ZPARameter:SELect <x>:</x>	Queries all settings related to the FLEXRAY receiver data of the measure	5-167
PARameter: MEASure: FLEXray:	determination.	
RECeiver: RXD?		
:GONogo:ZPARameter:SELect <x>:</x>	Queries all settings related to the FLEXRAY receiver waveform data	5-168
PARameter:MEASure:FLEXray:	parameters of the measure determination.	
RECeiver:RXD:TYPE?		
:GONogo:ZPARameter:SELect <x>:</x>	Sets the upper and lower limits of the FLEXRAY receiver waveform data	5-168
PARameter: MEASure: FLEXray:	parameters of the measure determination or queries the current setting.	
RECeiver:RXD:TYPE: <parameter></parameter>	Oversity and the state of the ELEVEN Constitution and the state of the	F 400
:GONogo:ZPARameter:SELect <x>:</x>	Queries all settings related to the FLEXRAY receiver enable data of the	5-168
PARameter:MEASure:FLEXray: RECeiver:RXEN?	measure determination.	
:GONogo:ZPARameter:SELect <x>:</x>	Queries all settings related to the FLEXRAY receiver waveform enable data	5-168
PARameter: MEASure: FLEXray:	parameters of the measure determination.	3-100
RECeiver: RXEN: TYPE?		
:GONogo:ZPARameter:SELect <x>:</x>	Sets the upper and lower limits of the FLEXRAY receiver waveform enable	5-169
PARameter:MEASure:FLEXray:	data parameters of the measure determination or queries the current	
RECeiver:RXEN:TYPE: <parameter></parameter>	setting.	
:GONogo:ZPARameter:SELect <x>:</x>	Queries all settings related to the FLEXRAY transmitter of the measure	5-169
PARameter:MEASure:FLEXray:	determination.	
TRANsmitter?		
:GONogo:ZPARameter:SELect <x>:</x>	Queries all settings related to the FLEXRAY transmitter data of the	5-169
PARameter: MEASure: FLEXray:	measure determination.	
TRANsmitter: TXD?	Outside all pottings related to the ELEVEAN to a service of the ELEVEAN to a service o	E 400
:GONogo:ZPARameter:SELect <x>:</x>	Queries all settings related to the FLEXRAY transmitter waveform data parameters of the measure determination.	5-169
PARameter:MEASure:FLEXray: TRANsmitter:TXD:TYPE?	parameters of the measure determination.	
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Sets the upper and lower limits of the FLEXRAY transmitter waveform data	Command	Function	Page
TRANSHILLER: TXD: TYPS: -parameters  Queries all settings related to the FLEXRAY transmitter enable data of the measure determination.  PARAmeter: INEARSURE   FLEXRAY    GONDOG: EPARameter: SELect xx:    PARAmeter: INEARSURE   FLEXRAY    TRANSHILLER: TXBN   TYPS:   parameters    GONDOG: EPARAmeter: SELect xx:    PARAmeter: INEARSURE   FLEXRAY    GONDOG: EPARAmeter: SELect xx:    PARAmeter: INEARSURE   FLEXRAY    GONDOG: EPARAmeter: SELect xx:    PARAmeter: INEARSURE   FLEXRAY    GONDOG: EPARAmeter: SELect xx:    AREA xx:    AREA xx:    GONDOG: EPARAmeter: SELect xx:    AREA xx:    AREA xx:    AREA xx:    GONDOG: EPARAmeter: SELect xx:    AREA xx:	:GONogo:ZPARameter:SELect <x>:</x>	Sets the upper and lower limits of the FLEXRAY transmitter waveform data	5-169
COMORGO JEPARameter   SELect xx   PARAmeter   SELect	PARameter:MEASure:FLEXray:	parameters of the measure determination or queries the current setting.	
PARAmeter : TRANSURE : FLEX.YEXP :			
### TRANSHILLER: TYRENT    Audies all settings related to the FLEXRAY transmitter waveform enable   5-170 data parameters of the measure determination.   5-170 data parameters of the measure determination or queries the   5-170 data parameters of the measure determination or queries the   5-170 data parameters of the measure determination or queries the   5-170 data parameters of the measure determination or queries the   5-170 data parameters of the measure determination or queries the   5-170 data parameters of the measure determination or queries the   5-170 data parameters of the measure determination or queries the   5-170 data parameters of the measure determination or queries the   5-170 data parameters of the measure determination or queries the   5-170 data parameters of the measure determination or queries the   5-170 data parameters of the measure determination   5-171 data parameters   5-171 data parameters of the measure determination   5-171 data parameters   5-171 data			5-170
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### parameter in MRASTure in FLEXRAy: ### parameter in MRASTURE   FLEXRAY: ### parame		Outside all sattings related to the ELEVEAN transposition was a sale.	F 470
Sets the upper and lower limits of the FLEXRAY transmitter waveform enable data parameters of the measure determination or queries the carriers setting.			5-170
Sets the upper and lower limits of the FLEXRAY transmitter waveform parameter is provided by the property of the measure determination or queries the current setting.	_	data parameters of the measure determination.	
parameter: NEASure: PLEXTRY:    TRANsmitter: NEASure: SELECt.xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx		Sets the upper and lower limits of the FLEXRAY transmitter waveform	5-170
TRANSMITTER: TYPE: cparameter> COMORGO: ZPARameter: SELect < > Current setting.  COMORGO: ZPARam			0 170
Sets the statistical value of the measure determination or queries the current setting.  GONGgo: ZPARameter: SELect <a>:</a>	<del>-</del>		
DARAmeter: STANDIS		· ·	5-170
PARAMETER: NRASure: TRACe   College: 2PARameter: SELect   College: 2PARameter: NRASure: TRACe   College: 2PARameter: SELect   College: 2PARameter: SELec	PARameter:MEASure:STATistics		
COURGO: ZPARameter: SELect <>:   Queries all settings related to the area of the measure determination.   S-171	:GONogo:ZPARameter:SELect <x>:</x>	Queries all settings related to the trace of the measure determination.	5-171
PARAMETER: NEASURE: TRACe <x>:</x>	PARameter:MEASure:TRACe <x>?</x>		
AREAxx>?  Queries all settings related to the waveform parameters of the measure determination.  AREAxx>:TYPE?  AREAxx>:TYPE?  AREAxx>:TYPE?  AREAxx>:TYPE?  Sets the upper and lower limits of the waveform parameter of the measure determination or queries the current setting.  Sets the upper and lower limits of the waveform parameter of the measure determination or queries the current setting.  GONOgo: ZPARAmeter: SELect < >:  AREAxx>: TYPE?  GONOgo: ZPARAmeter: SELect < >:  AREAX = Control or queries the current setting.  GONOgo: ZPARAmeter: SELect < >:  BECTangle: HORIzontal  GONOgo: ZPARAmeter: SELect < >:  Bets the horizontal position of the rectangle used in the rectangle determination or queries the current setting.  GONOgo: ZPARAmeter: SELect < >:  Bets the horizontal position of the rectangle used in the rectangle determination or queries the current setting.  GONOgo: ZPARAmeter: SELect < >:  Bets the vertical position of the rectangle used in the rectangle determination or queries the current setting.  GONOgo: ZPARAmeter: SELect < >:  Exist the zone edit menu of the wave determination.  \$ 5-172  GONOgo: ZPARAmeter: SELect < >:  GONOgo: ZPARAmeter: SELect < >:  GONOgo: ZPARAmeter: SELect < >:  Sets the editing of the portion of the zone of the wave determination.  \$ 5-173  MAVE: BDTT < >: PARAMETER  GONOgo: ZPARAmeter: SELect < >:  GONOgo: ZPARAmeter: SELect < >:  Sets the editing of the entire zone of the wave determination or queries the current setting.  \$ 5-174  GONOgo: ZPARAmeter: SELect < >:  GONOg	:GONogo:ZPARameter:SELect <x>:</x>	Queries all settings related to the area of the measure determination.	5-171
160Nogo ; ZPARameter ; SELect < x : determination.			
### ARBACH CHARS USE TRACE (***):  ### ARBACH CHARGE (***):  ##			
AREA-xx:TYPE7:  1:GONogo:ZPARameter:SELect <x>: AREA-xx:TYPE7:Arameter:SELect<x>: AREA-xx:TYPE1:Arameter: Area-xx:Trameter:Arameter:Arameter:Arameter:Arameter:Arameter:Arameter:Arameter:Arameter:Arameter:Arameter:Arameter:Arameter:Arameter:Arameter:Arameter:Arameter:Aram</x></x>	_		5-171
GONogo:ZPARameter:SELect <x>: determination or queries the current setting.</x>		determination.	
### ARBACK*: MEASURE*: TRACe<*>   determination or queries the current setting.   ARBACK*: TYPE: <parameter>   GONOgo: ZPARameter: SELect&lt;*&gt;   Queries all settings related to the XY determination.   5-171    </parameter>		Cota the upper and lawer limits of the way of the present of the manager	E 171
AREACX: (TYPE: *Parameter)  FONOgo: ZPARameter: SELect < X:	_		3-1/1
GONogo: ZPARameter: SELect <		determination of queries the current setting.	
PARameter:XY <x>?  :GONOgo:ZPARameter:SELect<x>: Rectangle: GONogo:ZPARameter:SELect<x>: Rectangle: GONogo:ZPARameter:SELect<x>: Rectangle: GONogo:ZPARameter:SELect<x>: Rectangle: GONogo:ZPARameter:SELect<x>: Rectangle: GONogo:ZPARameter:SELect<x>: Rectangle: GONogo:ZPARameter:SELect<x>: Rectangle:HORizontal determination or queries the current setting. GONogo:ZPARameter:SELect<x>: Rectangle:HORizontal determination or queries the current setting. GONogo:ZPARameter:SELect<x>: Rectangle:VRRTical determination or queries the current setting. GONogo:ZPARameter:SELect<x>: Rest the source trace of the zone/parameter determination or queries the current setting. GONogo:ZPARameter:SELect<x>: Rest the editing of the portion of the zone of the wave determination.  Sets the editing of the portion of the zone of the wave determination.  Sets the editing of the entire zone of the waveform zone.  Sets the determination range of the zone determination or queries the current setting.  GONogo:ZPARameter:SELect<x>: Sets the determination range of the zone determination or queries the current setting.  Sets the source window of the zone determination or queries the current setting.  Sets the data output destination or queries the current setting.  Sets the data output destination or queries the current setting.  Sets the data output destination or queries the current setting.  Sets the laft tone of the external printer output.  Sets the laft tone of the external printer output.  Sets the flor output image format or queries the current setting.  Sets the laft tone of th</x></x></x></x></x></x></x></x></x></x></x></x></x></x></x></x></x></x>		Queries all settings related to the XY determination.	5-171
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:HCOPy:EXTPrinter?Queries all settings related to the external printer output.5-174:HCOPy:EXTPrinter:TONESets the half tone of the external printer output or queries the current setting.5-174:HCOPy:EXTPrinter:TYPESets the type of output commands to send to the external printer or queries the current setting.5-174:HCOPy:FILE?Queries all settings related to file output.5-174:HCOPy:FILE:FORMatSets the file output image format or queries the current setting.5-174:HCOPy:FILE:SAVE?Queries all settings related to the saving of file output.5-175:HCOPy:FILE:SAVE:ANAMingSets the type of auto naming of save destination file names or queries the current setting.5-175			
:HCOPy:EXTPrinter:TONESets the half tone of the external printer output or queries the current setting.5-174:HCOPy:EXTPrinter:TYPESets the type of output commands to send to the external printer or queries the current setting.5-174:HCOPy:FILE?Queries all settings related to file output.5-174:HCOPy:FILE:FORMatSets the file output image format or queries the current setting.5-174:HCOPy:FILE:SAVE?Queries all settings related to the saving of file output.5-175:HCOPy:FILE:SAVE:ANAMingSets the type of auto naming of save destination file names or queries the current setting.5-175		·	
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:HCOPY: EXTPrinter: TYPE       Sets the type of output commands to send to the external printer or queries the current setting.       5-174         :HCOPY: FILE?       Queries all settings related to file output.       5-174         :HCOPY: FILE: FORMat       Sets the file output image format or queries the current setting.       5-174         :HCOPY: FILE: SAVE?       Queries all settings related to the saving of file output.       5-175         :HCOPY: FILE: SAVE: ANAMing       Sets the type of auto naming of save destination file names or queries the current setting.       5-175	:HCOPy:EXTPrinter:TONE		5-174
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	:HCOPy:FILE:SAVE:CDIRectory	Sets the save destination directory name or queries the current setting.	5-175

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Command	Function	Page
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:HCOPy:NETPrint:TONE	Sets the half tone for the network printer or queries the current setting.	5-175
:HCOPy:NETPrint:TYPE	Sets the output command type for the network printer or queries the current setting.	5-175
:HCOPy:PRINter?	Queries all settings related to the built-in printer output.	5-175
:HCOPy:PRINter:HRMode	Turns ON/OFF the harmonic analysis mode of the built-in printer output or queries the current setting.	5-175
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:HISTory[:CURRent]:DISPlay	Sets the start number and end number of the display record of the history waveform or queries the current setting.	5-176
:HISTory[:CURRent]:DMODe	Sets the display mode of the history waveform or queries the current setting.	5-177
:HISTory[:CURRent]:MODE	Sets the highlight display mode of the history waveform or queries the current setting.	5-177
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:HISTOTY[:CURRENT]:REPLAY:JUMP	Jumps the history waveform to the specified record number.	5-177
:HISTory[:CURRent]:REPLay:SPEed	Sets the replay speed of the history waveform or queries the current setting.	5-177
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:HISTory[:CURRent][:SEARch]:RESet	Resets the search conditions of the history search.	5-178
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:HISTory[:CURRent][:SEARch]: SELect <x>:CONDition</x>	Sets determination criteria of the history search condition or queries the current setting.	5-178
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SELect <x>:PARameter:CATegory :HISTory[:CURRent][:SEARch]:</x>	Queries all settings related to the FFT search.	5-179
SELect <x>:PARameter:FFT<x>? :HISTory[:CURRent][:SEARch]: SELect<x>:PARameter:FFT<x>: CALCulation<x></x></x></x></x></x>	Sets the upper and lower limits of the calculation item of the FFT search or queries the current setting.	5-179
:HISTory[:CURRent][:SEARch]: SELect <x>:PARameter:FFT<x>:PEAK?</x></x>	Queries all settings related to the peak value of the FFT search.	5-179
:HISTory[:CURRent][:SEARch]: SELect <x>:PARameter:FFT<x>:PEAK: DFREquency</x></x>	Sets the upper and lower limits between the peak frequencies of the FFT search or queries the current setting.	5-180
:HISTory[:CURRent][:SEARch]: SELect <x>:PARameter:FFT<x>:PEAK:</x></x>	Sets the upper and lower limits between the peak voltages of the FFT search or queries the current setting.	5-180
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:HISTory[:CURRent][:SEARch]:	Queries all settings related to each area of measure search.	5-181
SELect <x>: PARameter: MEASure:</x>	Queries all settings related to each area of measure search.	3-101
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SELect <x>:PARameter:MEASure:</x>	parameters of the measure search.	.54
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SELect <x>:RECTangle:VERTical</x>	queries the current setting.	
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SELect <x>:WAVE:EDIT<x>:EXIT</x></x>		
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SELect <x>:WAVE:EDIT<x>:PART</x></x>		
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SELect <x>:WINDow</x>	, , , , , , , , , , , , , , , , , , , ,	
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:HISTory:REFerence <x>:MODE</x>	Sets the highlight display mode of the history waveform of the reference or	5-189
	queries the current setting.	100
:HISTory:REFerence <x>:RECord</x>	Sets the source record of the history waveform of the reference or queries	5-189
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MINimum	reference.	3 109
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Direca	fine current setting.	

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### ### ### ### ### ### ### ### ### ##	:HISTory:REFerence <x>:REPLay:</x>	Starts the replay of the history waveform of the reference.	5-189
### AGG Group    FINANCE   Queries all settings related to the output of screen image data.   5-191	STARt		
MAGE Group	:HISTory:REFerence <x>:REPLay:STOP</x>		5-189
Set the sort of the curront setting   Set the support format of the screen image data.   Set the support format of the screen image data or queries the current   Set ting.   Set the screen image data.   Set the support format of the screen image data or queries the current setting.   Set the tone of the screen image data or queries the current setting.   Set the tone of the screen image data or queries the current setting.   Set the tone of the screen image data or queries the current setting.   Set the tone of the screen image data or queries the current setting.   Set the screen image data or queries the current setting.   Set the screen image data or queries the current setting.   Set the screen image data or queries the current setting.   Set the screen image data or queries the current setting.   Set the screen image data or queries the current setting.   Set the screen image data or queries the current setting.   Set the screen image data or queries the current setting.   Set the screen image data or queries the current setting.   Set the screen image data or queries the current setting.   Set the screen image data or queries the current setting.   Set the screen image data or queries the current setting.   Set the screen image data or queries the current setting.   Set the screen image data or queries the current setting.   Set the screen image data or queries the current setting.   Set the screen image data or queries the current setting.   Set the screen image data or queries the current setting.   Set the screen image data or queries the current setting.   Set the screen image data or queries the current setting.   Set the display of the logic group or queries the current setting.   Set the display of the logic group or queries the current setting.   Set the display of the logic group or queries the current setting.   Set the display of the logic group or queries the current setting.   Set the display of the logic group or queries the current setting.   Set the display of the logic group or queries		Queries the time of the source record number of the reference waveform.	5-190
Sets the output format of the screen image data or queries the current setting.	-	T	
IMAGE : SEND?   Queries the screen image data   5-191			
Sets the tone of the screen image data or queries the current setting.   5-191	:IMAGe:FORMat		5-191
INITIALIZE GROUP	: IMAGe: SEND?	Queries the screen image data.	5-191
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Concession   Con	INITialize Group		
LOGIC Group	:INITialize:EXECute	Executes the initialization.	5-191
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ELOGIC:GROUp   Sets the display format (bus display) of the bundled value of the logic group or queries the current setting.   Sets the bundle mode of the logic group or queries the current setting.   Sets the bundle mode of the logic group or queries the current setting.   Sets the bundle mode of the logic group or queries the current setting.   Sets the sum of the bundle value of each logic group.   Sets the symbol item of the bundle value of each logic group.   Sets the symbol item of the bundle value of each logic group.   Sets the bit mapping of the logic group or queries the current setting.   Sets the bit mapping of the logic group or queries the current setting.   Sets the bit mapping of the logic group or queries the current setting.   Sets the displayed order of the logic group or queries the current setting.   Sets the displayed order of the logic group or queries the current setting.   Sets the displayed order of the logic group or queries the current setting.   Sets the displayed order of the logic group or queries the current setting.   Sets the displayed order of the logic group or queries the current setting.   Sets the displayed order of the logic group or queries the current setting.   Sets the displayed order of the logic group or queries the current setting.   Sets the displayed order of the logic group or queries the current setting.   Sets the displayed order of the logic group or queries the current setting.   Sets the displayed order of the logic group or queries the current setting.   Sets the displayed order of the logic signal.   Sets the displayed order of the logic signal or queries the current setting.   Sets the vertical position of the logic signal or queries the current setting.   Sets the state clock polarity of the logic signal	:LOGic:GROup <x>?</x>		5-192
or queries the current setting.  1.COGic:GROUp <xx>:BUNDle:MODE Sets the bundle mode of the logic group or queries the current setting.  1.COGic:GROUp<xx>:DISPlay Turns ON/OFF the display of the logic group or queries the current setting.  1.COGic:GROUp<xx>:DISPlay Sets the display of the logic group or queries the current setting.  1.COGic:GROUp<xx>:DISPlay Sets the displayed order of the logic group or queries the current setting.  1.COGic:GROUp<xx>:DISPlay Sets the displayed order of the logic group or queries the current setting.  1.COGic:GROUp<xx>:STATE Turns ON/OFF the state display of the logic group or queries the current setting.  1.COGic:LABel:  1.COGic:LABel:BNAMe? Queries all settings related to the label of the logic signal.  1.COGic:LABel:BNAMe? Queries all settings related to the label of the logic signal.  1.COGic:LABel:NNAMe:{A<x> B<xx> B<xx } 1.cogic:label:nname:group<xx="" bit="" current="" logic="" name="" of="" or="" queries="" sets="" setting.="" signal="" the=""> Sets the group name of the logic signal or queries the current setting.  1.COGic:LABel:NNAMe:GROUP<xx> Sets the group name of the logic signal or queries the current setting.  1.COGic:MODE Turns ON/OFF the logic signal or queries the current setting.  1.COGic:SCLOCK: Queries all settings related to the state clock of the logic signal.  1.COGic:SCLOCK: Queries all settings related to the state clock of the logic signal.  1.COGic:SCLOCK: Queries all settings related to the state clock of the logic signal or queries the current setting.  1.COGic:SCLOCK: Queries all settings related to the state clock of the logic signal or queries the current setting.  1.COGic:SCLOCK: Queries all settings related to the state clock of the logic signal.  1.COGic:SCLOCK: Queries all settings related to the threshold level of the specified pod (port) or queries the current setting.  1.COGic:THReshold: Queries all settings related to the threshold level of the specified pod (port) or queries the current setting.  1.COGic:THReshold: Queries all settings related to the threshold lev</xx></xx }></xx></x></xx></xx></xx></xx></xx></xx>	:LOGic:GROup <x>:BUNDle?</x>	0 0 1	5-192
LOGIc:GROUp<  Sets the bundle mode of the logic group or queries the current setting.	:LOGic:GROup <x>:BUNDle:FORMat</x>		5-193
LOGic:GROup   LOGic:LABel:BNAMe?   Queries all settings related to the logic group or queries the current setting.   LOGic:LABel:BNAMe?   Queries all settings related to the bid logic signal.   Sets the bit name of the logic signal.   LOGic:LABel:BNAMe: {Acx> B <x>  Queries all settings related to the bit name of the logic signal.   Sets the bit name of the logic signal or queries the current setting.   LOGic:LABel:NAMe?   Queries all settings related to the group name of the logic signal.   LOGic:LABel:NAMe?   Queries all settings related to the group name of the logic signal.   LOGic:LABel:NAMe?   LOGic:LABel:NAMe?   LOGic:LABel:NAMe:GROup   LOGic:LABel:NAMe:GROup   LOGic:LABel:NAMe:GROup   LOGic:MODE   Turns ON/OFF the logic signal or queries the current setting.   LOGic:SCLock:POSition   Sets the vertical position of the logic signal or queries the current setting.   LOGic:SCLock:POLarity   Sets the vertical position of the logic signal or queries the current setting.   LOGic:SCLock:POLarity   Sets the state clock polarity of the logic signal or queries the current setting.   LOGic:SCLock:POLarity   Sets the display size of the logic signal or queries the current setting.   LOGic:THReshold: PODA   PODB   PODC   Queries all settings related to the threshold level of the specified pod (port) or queries the current setting.   LOGic:THReshold: PODA   PODB   PODC   Queries all settings related to the threshold level of the specified pod (port) or queries the c</x>	:LOGic:GROup <x>:BUNDle:MODE</x>		5-193
LOGic:GROup   MAPPing   Sets the bit mapping of the logic group or queries the current setting.   5-193   LOGic:GROup   LOGic:GROup   MAPPing   Sets the displayed offer of the logic group or queries the current setting.   5-193   LOGic:GROup   LOGic:GROup   Sets the displayed order of the logic group or queries the current setting.   5-193   LOGic:GROup   LOGic:GROup   Sets the displayed order of the logic group or queries the current setting.   5-193   LOGic:LABel:RNAMe?   Queries all settings related to the label of the logic signal.   5-193   LOGic:LABel:BNAMe?   Queries all settings related to the bit name of the logic signal.   5-193   Sets the bit name of the logic signal or queries the current setting.   5-194   LOGic:LABel:LNAMe?   Queries all settings related to the group name of the logic signal.   5-194   LOGic:LABel:LNAMe?   Queries all settings related to the group name of the logic signal.   5-194   LOGic:LABel:MDDE   Turns ON/OFF the logic signal or queries the current setting.   5-194   LOGic:LABel:MDDE   Turns ON/OFF the logic signal or queries the current setting.   5-194   LOGic:POSition   Sets the vertical position of the logic signal or queries the current setting.   5-194   LOGic:SCLock:POLarity   Sets the state clock polarity of the logic signal or queries the current setting.   5-194   LOGic:SCLock:BOLarity   Sets the state clock polarity of the logic signal or queries the current setting.   5-194   LOGic:THReshold?   Queries all settings related to the threshold level of the logic signal or queries the current setting.   5-194   LOGic:THReshold:PODA PODB PODC   Queries all settings related to the threshold level of the specified pod (port) or queries the current setting.   5-195   LOGic:THReshold:PODA PODB PODC   Queries all settings related to the threshold level of the specified pod (port) or queries the current setting.   1-195   LOGic:THReshold:PODA PODB PODC   Queries all settings rela	-		5-193
Sets the bit mapping of the logic group or queries the current setting.   5-193	-		5-193
Sets the displayed order of the logic group or queries the current setting.			5-193
LOGic:GROup <x>:STATE</x>			5-193
:LOGic:LABel:RNAMe? Queries all settings related to the label of the logic signal.    LOGic:LABel:BNAMe?   Queries all settings related to the bit name of the logic signal.   5-193	_		5-193
LOGic:LABel:BNAMe: {A <x>   B<x>   Sets the bit name of the logic signal or queries the current setting.   5-193    </x></x>		setting.	
Sets the bit name of the logic signal or queries the current setting.   5-194	:LOGic:LABel?	Queries all settings related to the label of the logic signal.	5-193
C <x>   D<x>     LOGic:LABel:LNAMe?    </x></x>	:LOGic:LABel:BNAMe?	Queries all settings related to the bit name of the logic signal.	5-193
:LOGic:LABel:LNAMe: Queries all settings related to the group name of the logic signal.  5-194 :LOGic:LABel:MNDE Turns ON/OFF the logic signal or queries the current setting.  5-194 :LOGic:LABel:MODE Turns ON/OFF the logic signal label or queries the current setting.  5-194 :LOGic:MODE Turns ON/OFF the logic signal and or queries the current setting.  5-194 :LOGic:MODE Turns ON/OFF the logic signal or queries the current setting.  5-194 :LOGic:SCLock? Queries all settings related to the state clock of the logic signal.  5-194 :LOGic:SCLock? Queries all settings related to the state clock of the logic signal.  5-194 :LOGic:SCLock:POLarity Sets the state clock polarity of the logic signal or queries the current setting.  5-194 :LOGic:SCLock:SOURCE Sets the state clock source of the logic signal or queries the current setting.  5-194 :LOGic:STLEE Sets the state clock source of the logic signal or queries the current setting.  5-194 :LOGic:THReshold? Queries all settings related to the threshold level of the logic signal.  5-195 :LOGic:THReshold:{PODA PODB PODC }  COURTINE SETS THRESHOLD:{PODD} PODD PODD PODD PODD}  5-195 :LOGic:THReshold:{PODA PODB PODC }  Sets the type of threshold level of the specified pod (port) or queries the current setting.  5-195 :LOGIc:THReshold:{PODA PODB PODC }  Sets the type of threshold level of the specified pod (port) or queries the current setting.  5-195 :LOGIc:THReshold:{PODA PODB PODC }  Sets the type of threshold level of the specified pod (port) or queries the current setting.  5-195 :LOGIc:THReshold:{PODA PODB PODC }  Sets the type of threshold level of the specified pod (port) or queries the current setting.  5-195 :LOGIc:THReshold:{PODA PODB PODC }  Sets the type of threshold level of the specified pod (port) or queries the current setting.  5-195 :LOGIc:THReshold:{PODA PODB PODC }  Sets the type of threshold level of the specified pod (port) or queries the current setting.  5-195 :LOGIc:THReshold:{PODA PODB PODC }  Sets the type of threshold level of the specified pod (por		Sets the bit name of the logic signal or queries the current setting.	5-194
:LOGic:LABel:LNAMe:GROUp <x> Sets the group name of the logic signal or queries the current setting. 5-194 :LOGic:LABel:MODE Turns ON/OFF the logic signal label or queries the current setting. 5-194 :LOGic:MODE Turns ON/OFF the logic signal or queries the current setting. 5-194 :LOGic:POSition Sets the vertical position of the logic signal or queries the current setting. 5-194 :LOGic:SCLock? Queries all settings related to the state clock of the logic signal. 5-194 :LOGic:SCLock:POLarity Sets the state clock polarity of the logic signal or queries the current setting. 5-194 :LOGic:SCLock:SOURCe Sets the state clock source of the logic signal or queries the current setting. 5-194 :LOGic:SCLock:SOURCe Sets the display size of the logic signal or queries the current setting. 5-194 :LOGic:THReshold? Queries all settings related to the threshold level of the logic signal. 5-195 :LOGic:THReshold:{PODA PODB PODC } Queries all settings related to the threshold level of the specified pod (port). 5-195 PODD}? :LOGic:THReshold:{PODA PODB PODC } Sets the type of threshold level of the specified pod (port) or queries the current setting.  **LOGic:THReshold:{PODA PODB PODC } Sets the type of threshold level of the specified pod (port) or queries the current setting.  **LOGic:THReshold:{PODA PODB PODC } Sets the type of threshold level of the specified pod (port) or queries the current setting.  **MATH-x&gt;?** Queries all settings related to the computation. 5-196 **MATH-x&gt;:DA:ARANging Executes the auto range of the D/A conversion. 5-196 **MATH-x&gt;:DA:ARANging Executes the auto range of the D/A conversion. 5-196 **MATH-x&gt;:DA:ARANging Executes the history computation of the D/A conversion. 5-196 **MATH-x&gt;:DA:HISTory:EXECute Executes the history computation of the D/A conversion. 5-196 **MATH-x&gt;:DA:HISTory:EXECute Executes the history computation of the D/A conversion. 5-196 **MATH-x&gt;:DA:RESCaling: AVALue Sets rescaling officent A of the D/A conversion or queries the current setting. 5-197 **MATH-x&gt;:DA:RESCaling:BVALue Sets rescali</x>			
:LOGic:LABel:MODE Turns ON/OFF the logic signal label or queries the current setting. 5-194 :LOGic:MODE Turns ON/OFF the logic signal or queries the current setting. 5-194 :LOGic:POSition Sets the vertical position of the logic signal or queries the current setting. 5-194 :LOGic:SCLock: POLarity Queries all settings related to the state clock of the logic signal. 5-194 :LOGic:SCLock:POLarity Sets the state clock polarity of the logic signal or queries the current setting. 5-194 :LOGic:SCLock:SOURCE Sets the state clock source of the logic signal or queries the current setting. 5-194 :LOGic:SIZE Sets the display size of the logic signal or queries the current setting. 5-194 :LOGic:THReshold: PODA PODB PODC Queries all settings related to the threshold level of the logic signal. 5-195 :LOGic:THReshold: PODA PODB PODC Queries all settings related to the threshold level of the specified pod (port). 5-195 :LOGic:THReshold: PODA PODB PODC Sets the type of threshold level of the specified pod (port) or queries the current setting. :LOGic:THReshold: PODA PODB PODC Sets the type of threshold level of the specified pod (port) or queries the current setting. :LOGic:THReshold: PODA PODB PODC Sets the type of threshold level of the specified pod (port) or queries the current setting.  **MATH-CAS-PODA PODB PODB PODC Sets the type of threshold level of the specified pod (port) or queries the current setting.  **MATH-CAS-DA:ARANging Executes the auto range of the D/A conversion. 5-196 :MATH-CAS-DA:BRORMAT Sets the auto range of the D/A conversion. 5-196 :MATH-CAS-DA:HISTORY:EXECUTE Executes the history computation of the D/A conversion. 5-196 :MATH-CAS-DA:RESCaling: AVALue Sets rescaling coefficient A of the D/A conversion or queries the current setting. :MATH-CAS-DA:RESCaling:BVALue Sets rescaling offset B of the D/A conversion or queries the current setting.			_
:LOGic:MODE Turns ON/OFF the logic signal or queries the current setting. 5-194 :LOGic:POSition Sets the vertical position of the logic signal or queries the current setting. 5-194 :LOGic:SCLock? Queries all settings related to the state clock of the logic signal. 5-194 :LOGic:SCLock:POLarity Sets the state clock polarity of the logic signal or queries the current setting. 5-194 :LOGic:SCLock:SOURCE Sets the state clock source of the logic signal or queries the current setting. 5-194 :LOGic:SIZE Sets the display size of the logic signal or queries the current setting. 5-194 :LOGic:THReshold? Queries all settings related to the threshold level of the logic signal. 5-195 :LOGic:THReshold: {PODA   PODB   PODC   Queries all settings related to the threshold level of the specified pod (port). 5-195 PODD}? :LOGic:THReshold: {PODA   PODB   PODC   Queries all settings related to the threshold level of the specified pod (port) or queries the current setting. 5-195 :LOGic:THReshold: {PODA   PODB   PODC   Sets the type of threshold level of the specified pod (port) or queries the current setting. 5-195 :LOGic:THReshold: {PODA   PODB   PODC   Sets the type of threshold level of the specified pod (port) or queries the current setting. 5-195 :LOGic:THReshold: {PODA   PODB   PODC   Sets the type of threshold level of the specified pod (port) or queries the current setting. 5-195 :LOGic:THReshold: {PODA   PODB   PODC   Sets the type of threshold level of the specified pod (port) or queries the current setting. 5-195 :LOGic:THReshold: {PODA   PODB   PODC   Sets the type of threshold level of the specified pod (port) or queries the current setting. 5-195 :LOGic:THReshold: {PODA   PODB   PODC   Sets the type of threshold level of the specified pod (port) or queries the current setting. 5-195 :LOGic:THReshold: {PODA   PODB   PODC   Sets the type of threshold level of the specified pod (port) or queries the current setting. 5-195 :LOGic:THReshold: {PODA   PODB   PODC   Sets the type of threshold level of the specified pod (port) or	_		<del> </del>
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:LOGic:SIZE       Sets the display size of the logic signal or queries the current setting.       5-194         :LOGic:THReshold?       Queries all settings related to the threshold level of the logic signal.       5-195         :LOGic:THReshold:{PODA PODB PODC PODD}?       Queries all settings related to the threshold level of the specified pod (port).       5-195         PODD}:TYPE       Sets the type of threshold level of the specified pod (port) or queries the current setting.       5-195         :LOGic:THReshold:{PODA PODB PODC PODD PODC PODD}:USERlevel       Sets the threshold level of the specified pod (port) or queries the current setting.       5-195         MATH Group       Sets the threshold level of the specified pod (port) or queries the current setting.       5-196         :MATH       Queries all settings related to the computation.       5-196         :MATH       Queries all settings related to the D/A conversion.       5-196         :MATH       Sets the binary format of DA conversion or queries the current setting.       5-196         :MATH       Aborts the history computation of the D/A conversion.       5-196         :MATH       Executes the history computation of the D/A conversion.       5-196         :MATH       Executes the history computation of the D/A conversion.       5-196         :MATH       Sets rescaling coefficient A of the D/A conversion or queries the current setting.       5-197 <td< td=""><td>_</td><td></td><td>_</td></td<>	_		_
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:LOGic:THReshold:{PODA PODB PODC }  PODD}?  :LOGic:THReshold:{PODA PODB PODC }  Sets the type of threshold level of the specified pod (port) or queries the current setting.  :LOGic:THReshold:{PODA PODB PODC }  Sets the type of threshold level of the specified pod (port) or queries the current setting.  :LOGic:THReshold:{PODA PODB PODC }  PODD}:USERlevel  Sets the threshold level of the specified pod (port) or queries the current setting.  **MATH Group**  **MATH Group**  **MATH<*x>?  Queries all settings related to the specified pod (port) or queries the current setting.  **S-195*  **MATH Group**  **			_
PODD)?  :LOGic:THReshold: {PODA   PODB   PODC   Current setting.}  :LOGic:THReshold: {PODA   PODB   PODC   Current setting.}  :LOGic:THReshold: {PODA   PODB   PODC   Sets the threshold level of the specified pod (port) or queries the current setting.  **MATH Group**  :MATH <			_
PODD} : TYPE current setting.  :LOGic:THReshold: {PODA   PODB   PODC   setting.  MATH Group  :MATH :MA	PODD}?		
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MATH Group  :MATH<: :MATH<: :MATH<: :MATH<: :MATH<: :MATH<: :MATH<: :MATH :MAT		<u> </u>	
MATH Group  :MATH <x>?  Queries all settings related to the computation.  :MATH<x>:DA?  Queries all settings related to the D/A conversion.  :MATH<x>:DA: ARANging  Executes the auto range of the D/A conversion.  :MATH<x>:DA: BFORmat  Sets the binary format of DA conversion or queries the current setting.  :MATH<x>:DA: HISTory: ABORt  Aborts the history computation of the D/A conversion.  :MATH<x>:DA: HISTory: EXECUTE  Executes the history computation of the D/A conversion.  :MATH<x>:DA: RESCaling?  Queries all settings related to the rescaling of the D/A conversion.  :MATH<x>:DA: RESCaling: AVALUE  Sets rescaling coefficient A of the D/A conversion or queries the current setting.  :MATH<x>:DA: RESCaling: BVALUE  Sets rescaling offset B of the D/A conversion or queries the current setting.  5-196</x></x></x></x></x></x></x></x></x>			5-195
:MATH<Queries all settings related to the computation.5-196:MATH<		-	
:MATH <x>:DA?Queries all settings related to the D/A conversion.5-196:MATH<x>:DA:ARANgingExecutes the auto range of the D/A conversion.5-196:MATH<x>:DA:BFORmatSets the binary format of DA conversion or queries the current setting.5-196:MATH<x>:DA:HISTory:ABORtAborts the history computation of the D/A conversion.5-196:MATH<x>:DA:HISTory:EXECuteExecutes the history computation of the D/A conversion.5-196:MATH<x>:DA:RESCaling?Queries all settings related to the rescaling of the D/A conversion or queries the current setting.5-197:MATH<x>:DA:RESCaling:BVALueSets rescaling offset B of the D/A conversion or queries the current setting.5-197</x></x></x></x></x></x></x>	-	Queries all settings related to the computation.	5-196
:MATH <x>:DA:ARANgingExecutes the auto range of the D/A conversion.5-196:MATH<x>:DA:BFORmatSets the binary format of DA conversion or queries the current setting.5-196:MATH<x>:DA:HISTory:ABORtAborts the history computation of the D/A conversion.5-196:MATH<x>:DA:HISTory:EXECuteExecutes the history computation of the D/A conversion.5-196:MATH<x>:DA:RESCaling?Queries all settings related to the rescaling of the D/A conversion or queries the current setting.5-197:MATH<x>:DA:RESCaling:AVALueSets rescaling coefficient A of the D/A conversion or queries the current setting.5-197:MATH<x>:DA:RESCaling:BVALueSets rescaling offset B of the D/A conversion or queries the current setting.5-197</x></x></x></x></x></x></x>			5-196
:MATH <x>:DA:BFORmatSets the binary format of DA conversion or queries the current setting.5-196:MATH<x>:DA:HISTory:ABORtAborts the history computation of the D/A conversion.5-196:MATH<x>:DA:HISTory:EXECuteExecutes the history computation of the D/A conversion.5-196:MATH<x>:DA:RESCaling?Queries all settings related to the rescaling of the D/A conversion or queries the current setting.5-197:MATH<x>:DA:RESCaling:AVALueSets rescaling coefficient A of the D/A conversion or queries the current setting.5-197:MATH<x>:DA:RESCaling:BVALueSets rescaling offset B of the D/A conversion or queries the current setting.5-197</x></x></x></x></x></x>		·	5-196
:MATH <x>:DA:HISTory:ABORtAborts the history computation of the D/A conversion.5-196:MATH<x>:DA:HISTory:EXECuteExecutes the history computation of the D/A conversion.5-196:MATH<x>:DA:RESCaling?Queries all settings related to the rescaling of the D/A conversion.5-196:MATH<x>:DA:RESCaling:AVALueSets rescaling coefficient A of the D/A conversion or queries the current setting.:MATH<x>:DA:RESCaling:BVALueSets rescaling offset B of the D/A conversion or queries the current setting.</x></x></x></x></x>		i	5-196
:MATH <x>:DA:RESCaling?Executes the history computation of the D/A conversion.5-196:MATH<x>:DA:RESCaling?Queries all settings related to the rescaling of the D/A conversion.5-196:MATH<x>:DA:RESCaling:AVALueSets rescaling coefficient A of the D/A conversion or queries the current setting.:MATH<x>:DA:RESCaling:BVALueSets rescaling offset B of the D/A conversion or queries the current setting.</x></x></x></x>	:MATH <x>:DA:HISTory:ABORt</x>		5-196
:MATH <x>:DA:RESCaling?Queries all settings related to the rescaling of the D/A conversion.5-196:MATH<x>:DA:RESCaling:AVALueSets rescaling coefficient A of the D/A conversion or queries the current setting.5-197:MATH<x>:DA:RESCaling:BVALueSets rescaling offset B of the D/A conversion or queries the current setting.5-197</x></x></x>			5-196
setting.  :MATH <x>:DA:RESCaling:BVALue  Sets rescaling offset B of the D/A conversion or queries the current setting.  5-197</x>			5-196
:MATH <x>:DA:RESCaling:BVALue Sets rescaling offset B of the D/A conversion or queries the current setting. 5-197</x>		Sets rescaling coefficient A of the D/A conversion or queries the current	5-197
	:MATH <x>:DA:RESCaling:BVALue</x>	· · ·	5-197
	:MATH <x>:DISPlay</x>	Turns ON/OFF the computed waveform or queries the current setting.	5-197

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Command	Function	Page
:MATH <x>:ECOunt?</x>	Queries all settings related to the edge count computation.	5-197
:MATH <x>:ECOunt:HYSTeresis</x>	Sets the hysteresis of the edge detection level of the edge count	5-197
	computation or queries the current setting.	
:MATH <x>:ECOunt:POLarity</x>	Sets the edge detection polarity of the edge count computation or queries	5-197
	the current setting.	<u> </u>
:MATH <x>:FILTer?</x>	Queries all settings related to filters.	5-197
:MATH <x>:FILTer:DELay?</x>	Queries all settings related to the delay computation.	5-197
:MATH <x>:FILTer:DELay:TIME</x>	Sets the delay value of the delay computation or queries the current setting.	
:MATH <x>:FILTer:IIR?</x>	Queries all settings related to the IIR filter computation.	5-197
:MATH <x>:FILTer:IIR:FORDer</x>	Sets the filter order of the IIR filter computation or queries the current setting.	5-198
:MATH <x>:FILTer:IIR:HIPass?</x>	Queries all settings related to the IIR high pass filter computation.	5-198
:MATH <x>:FILTer:IIR:HIPass:COFF</x>	Sets the cutoff frequency of the IIR high pass filter computation or queries the current setting.	5-198
:MATH <x>:FILTer:IIR:LOWPass?</x>	Queries all settings related to the IIR low pass filter computation.	5-198
:MATH <x>:FILTer:IIR:LOWPass:COFF</x>	Sets the cutoff frequency of the IIR low pass filter computation or queries	5-198
	the current setting.	
:MATH <x>:FILTer:MAVG?</x>	Queries all settings related to the moving average computation.	5-198
:MATH <x>:FILTer:MAVG:WEIGht</x>	Sets the weight of the moving average computation or queries the current setting.	5-198
:MATH <x>:FILTer:RESCaling?</x>	Queries all settings related to the rescaling of the filter.	5-198
:MATH <x>:FILTer:RESCaling:AVALue</x>	Sets rescaling coefficient A of the filter or queries the current setting.	5-198
:MATH <x>:FILTer:RESCaling:BVALue</x>	Sets rescaling offset B of the filter or queries the current setting.	5-198
:MATH <x>:FILTer:TYPE</x>	Sets the filter type or queries the current setting.	5-199
:MATH <x>:INTegral?</x>	Queries all settings related to the integral computation.	5-199
:MATH <x>:INTegral:PSCaling?</x>	Queries all settings related to the pre-scaling of the integral computation.	5-199
:MATH <x>:INTegral:PSCaling:AVALue</x>	Sets pre-scaling coefficient A of the integral computation or queries the current setting.	5-199
:MATH <x>:INTegral:PSCaling:BVALue</x>	Sets pre-scaling offset B of the integral computation or queries the current setting.	5-199
:MATH <x>:INTegral:RESCaling?</x>	Queries all settings related to the rescaling of the integral computation.	5-199
:MATH <x>:INTegral:RESCaling: AVALue</x>	Sets rescaling coefficient A of the integral computation or queries the current setting.	5-199
:MATH <x>:INTegral:RESCaling:</x>	Sets rescaling offset B of the integral computation or queries the current setting.	5-199
:MATH <x>:INVert</x>	Turns ON/OFF the inverted display of the computed waveform or queries	5-199
	the current setting.	F 400
:MATH <x>:IPOint?</x>	Queries all settings related to the computation reference point.	5-199
:MATH <x>:IPOint:JUMP</x>	Moves the computation reference point to the specified position.	5-200
:MATH <x>:IPOint:POSition</x>	Sets the computation reference point or queries the current setting.	5-200
:MATH <x>:LABel?</x>	Queries all settings related to the label of the computed waveform.	5-200
:MATH <x>:LABel[:DEFine]</x>	Sets the label of the computed waveform or queries the current setting.	5-200
:MATH <x>:LABel:MODE</x>	Turns ON/OFF the label display of the computed waveform or queries the current setting.	5-200
:MATH <x>:MINus?</x>	Queries all settings related to the subtraction.	5-200
:MATH <x>:MINus:PSCaling<x>?</x></x>	Queries all settings related to the pre-scaling of the subtraction.	5-200
:MATH <x>:MINus:PSCaling<x>:AVALue</x></x>	Sets pre-scaling coefficient A of the subtraction or queries the current setting.	5-200
:MATH <x>:MINus:PSCaling<x>:BVALue</x></x>	Sets pre-scaling offset B of the subtraction or queries the current setting.	5-200
:MATH <x>:MINus:RESCaling?</x>	Queries all settings related to the rescaling of the subtraction.	5-201
:MATH <x>:MINus:RESCaling:AVALue</x>	Sets rescaling coefficient A of the subtraction or queries the current setting.	5-201
:MATH <x>:MINus:RESCaling:BVALue</x>	Sets rescaling offset B of the subtraction or queries the current setting.	5-201
:MATH <x>:MULTiple?</x>	Queries all settings related to the multiplication.	5-201
:MATH <x>:MULTiple:PSCaling<x>?</x></x>	Queries all settings related to the pre-scaling of the multiplication.	5-201
:MATH <x>:MULTiple:PSCaling<x>:</x></x>	Sets pre-scaling coefficient A of the multiplication or queries the current	5-201
AVALue :MATH <x>:MULTiple:PSCaling<x>:</x></x>	Sets pre-scaling offset B of the multiplication or queries the current setting.	5-201
BVALue		<u> </u>
:MATH <x>:MULTiple:RESCaling?</x>	Queries all settings related to the rescaling of the multiplication.	5-201
:MATH <x>:MULTiple:RESCaling: AVALue</x>	Sets rescaling coefficient A of the multiplication or queries the current setting.	5-201
:MATH <x>:MULTiple:RESCaling:</x>	Sets rescaling offset B of the multiplication or queries the current setting.	5-202

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Command	Function	Page
:MATH <x>:OPERation</x>	Sets the operator or queries the current setting.	5-202
:MATH <x>:PLUS?</x>	Queries all settings related to the addition.	5-202
:MATH <x>:PLUS:PSCaling<x>?</x></x>	Queries all settings related to the pre-scaling of the addition.	5-202
:MATH <x>:PLUS:PSCaling<x>:AVALue</x></x>	Sets pre-scaling coefficient A of the addition or queries the current setting.	5-202
:MATH <x>:PLUS:PSCaling<x>:BVALue</x></x>	Sets pre-scaling offset B of the addition or queries the current setting.	5-202
:MATH <x>:PLUS:RESCaling?</x>	Queries all settings related to the rescaling of the addition.	5-202
:MATH <x>:PLUS:RESCaling:AVALue</x>	Sets rescaling coefficient A of the addition or queries the current setting.	5-202
:MATH <x>:PLUS:RESCaling:BVALue</x>	Sets rescaling offset B of the addition or queries the current setting.	5-203
:MATH <x>:POSition</x>	Sets the vertical position of the computed waveform or queries the current	5-203
MARIL CDIRO	Setting.	5-203
:MATH <x>:SBIT?</x>	Queries all settings related to the stuff bit computation.  Sets the bit rate (data transfer rate) of the stuff bit computation or queries	_
:MATH <x>:SBIT:BRATe</x>	the current setting.	5-203
:MATH <x>:SBIT:HISTory:ABORt</x>	Cancels history computation for stuff bit computation.	5-203
:MATH <x>:SBIT:HISTory:EXECute</x>	Executes history computation for stuff bit computation.	5-203
:MATH <x>:SBIT:HYSTeresis</x>	Sets the hysteresis of the stuff bit computation or queries the current setting.	5-203
:MATH <x>:SBIT:LEVel</x>	Sets the threshold level of the stuff bit computation or queries the current setting.	5-203
:MATH <x>:SBIT:RECessive</x>	Sets the recessive level (bus level) of the stuff bit computation or queries the current setting.	5-203
:MATH <x>:SBIT:SPOint</x>	Sets the sample point of the stuff bit computation or queries the current setting.	5-204
:MATH <x>:SCALe?</x>	Queries all settings related to scaling.	5-204
:MATH <x>:SCALe:CENTer</x>	Sets the offset of the computed waveform or queries the current setting.	5-204
:MATH <x>:SCALe:MODE</x>	Sets the scaling mode or queries the current setting.	5-204
:MATH <x>:SCALe:SENSitivity</x>	Sets the vertical sensitivity of the computed waveform or queries the current setting.	5-204
:MATH <x>:SELect</x>	Sets the display option or queries the current setting.	5-204
:MATH <x>:SELECT</x>	Turns ON/OFF the scale value display or queries the current setting.	5-204
:MATH <x>:SVALUE :MATH<x>:THReshold<x></x></x></x>	i a company and the company an	+
:MAIH <x>:IHRESHOIQ<x></x></x>	Sets the edge detection level of the count computation or queries the current setting.	5-204
:MATH <x>:UNIT?</x>	Queries all settings related to the computation unit.	5-204
:MATH <x>:UNIT[:DEFine]</x>	Sets the computation unit or queries the current setting.	5-204
:MATH <x>:UNIT:MODE</x>	Sets the automatic/manual addition of the computation unit or queries the current setting.	5-205
:MATH <x>:USERdefine?</x>	Queries all settings related to user-defined math or queries the current setting.	5-205
:MATH <x>:USERdefine:ARANging</x>	Executes auto ranging for user-defined math.	5-205
:MATH <x>:USERdefine:CONStant<x></x></x>	Sets a user-defined math constant or queries the current setting.	5-205
:MATH <x>:USERdefine:DEFine</x>	Sets a user-defined math equation or queries the current setting.	5-205
:MATH <x>:USERdefine:HISTory:ABORt</x>	Cancels history computation for user-defined math.	5-205
:MATH <x>:USERdefine:HISTory:</x>	Executes history computation for user-defined math.	5-205
EXECute		
MEASure Group		T
:MEASure?	Queries all settings related to the automated measurement of waveform parameters.	5-206
:MEASure:BIT <x>?</x>	Queries all settings related to each logic bit.	5-206
:MEASure:BIT <x>:AREA<x>?</x></x>	Queries all settings related to each area.	5-207
:MEASure:BIT <x>:AREA<x>:ALL</x></x>	Turns ON/OFF all logic waveform parameters.	5-207
:MEASure:BIT <x>:</x>	Queries all settings related to logic waveform parameters.	5-207
AREA <x>:<parameter>?</parameter></x>	Oursign the count for continuous statistical and continuous for	F 007
:MEASure:BIT <x>:</x>	Queries the count for continuous statistical processing of logic waveform	5-207
AREA <x>:<parameter>:COUNt?</parameter></x>	parameters.	F 207
:MEASure:BIT <x>:AREA<x>: <parameter>:{MAXimum MEAN  MINimum SDEViation 2</parameter></x></x>	Queries each statistical value of logic waveform parameters.	5-207
MINimum   SDEViation } ?	Turno ON/OEE the logic way of arm negative and are are successful.	F 207
:MEASure:BIT <x>:</x>	Turns ON/OFF the logic waveform parameters or queries the current	5-207
AREA <x>:<parameter>:STATe</parameter></x>	Setting.	E 200
:MEASure:BIT <x>:</x>	Queries automatically measured values of logic waveform parameters.	5-208
AREA <x>:<parameter>:VALue? :MEASure:BIT<x>:AREA<x>:DELay:</x></x></parameter></x>	Queries all settings related to the measurement conditions for the source	5-208

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Sets the edge detection count for the source waveform of delay	Command	Function	Page
measurement between channels or queries the current setting.			
channels or queries the current setting.  ###################################	_		
MMASURe: RITCX>: ARRACX>: DELay:   Duefies all settings related to the reference waveform of delay   REFerence; COUNT	-	, ,	5-208
IMPASURE INTEXES ARRACKES DELAY:   Sets the edge detection count for the reference waveform of delay measurement between channels or queries the current setting.   Sets the polarity of the reference waveform of delay measurement between 5-209 channels or queries the current setting.   MEASURE INTEXES ARRACKES DELAY:	_	Queries all settings related to the reference waveform of delay	5-208
MBASILere   SETEX+>   AREA(x>)   DELay!   Sets the polarity of the reference waveform of delay measurement between   5-209	:MEASure:BIT <x>:AREA<x>:DELay:</x></x>	Sets the edge detection count for the reference waveform of delay	5-209
Sets the trace for the reference waveform of delay measurement between   5-200		Sets the polarity of the reference waveform of delay measurement between	5-209
Channels or queries the current setting.	-		5-209
MEASURE   CALCULation   Queries all settings related to calculation items.   5-209     MEASURE   CALCULation   ALL   Turns ON/OFF all calculation items.   5-210     MEASURE   CALCULation   DEFIne <	REFerence: TRACe	channels or queries the current setting.	F 200
MEASURE: CALCULation: ALL   Turns ON/OFF all calculation items.   5-210	SOURce	current setting.	
MEASure: CALCulation: COUNT <a>?</a>	:MEASure:CALCulation?		_
MEASure : CALCULation : DEPInexx   Sets the equation of the calculation item or queries the current setting.   5-210	:MEASure:CALCulation:ALL		_
MEABure : CALCulation : (MAXimumexx)   Research   Minimumexx   Soletine   S	:MEASure:CALCulation:COUNt <x>?</x>	· · · ·	5-210
MEASUre : CALCUlation : STATe < x	:MEASure:CALCulation:DEFine <x></x>	Sets the equation of the calculation item or queries the current setting.	5-210
MEASURE : CALCULation : VALue < > ? Queries the automated measured value of the calculation item.   5-210	MEAN <x> MINimum<x> SDEViation<x> </x></x></x>	Queries the statistical value of the calculation item.	5-210
MEASure:CONTINUOUS: Queries all settings related to the continuous statistical processing.   5-210	:MEASure:CALCulation:STATe <x></x>	Turns ON/OFF the calculation item or queries the current setting.	5-210
### Sets the continuous statistical processing count or queries the current setting.  #### Setting setting related to the cycle statistical processing.  #### Sets the continuous statistical processing.  #### Sets the cycle source trace of the continuous statistical processing count or 5-211 cycle.  #### Sets the cycle source trace of the continuous statistical processing count or 5-211 cycle.  #### Sets the cycle source trace of the continuous statistical processing count or 5-211 cycle.  #### Sets the cycle source trace of the continuous statistical processing count or 5-211 cycle.  #### Sets the cycle source trace of the continuous statistical processing count or 5-211 cycle.  #### Sets the cycle statistical processing.  #### Sets the cycle source trace of the continuous statistical processing count or 5-211 cycle.  #### Sets the cycle statistical processing.  #### Sets the FLEXRAY bus automated measurement of waveform parameters.  ### Sets the Sets the Sets the FLEXRAY bus waveform parameters.  ### Sets the Sets the Sets the FLEXRAY bus waveform parameters or queries the current setting.  ### Sets the Sets the Sets the Sets the FLEXRAY bus waveform or queries the current setting.  ### Sets the Sets the BSSFES ID of the FLEXRAY bus waveform or queries the current setting.  ### Sets the Sets the Sets the Sets the FLEXRAY bus waveform or queries the current setting.  ### Sets the Sets the Sets the FLEXRAY bus waveform or queries the current setting.  ### Sets the Sets the Sets the FLEXRAY bus waveform or queries the current s	:MEASure:CALCulation:VALue <x>?</x>	Queries the automated measured value of the calculation item.	5-210
Setting   Sett	:MEASure:CONTinuous?	Queries all settings related to the continuous statistical processing.	5-210
MEASURE: CYCLE?   Queries all settings related to the cycle statistical processing.   5-210	:MEASure:CONTinuous:COUNt		5-210
MEASURE:CYCLE?   Queries all settings related to the cycle statistical processing.   5-210	:MEASure:CONTinuous:RESTart	Restarts the continuous statistical processing.	5-210
MEASure:CYCLe:EXECute   Executes the cycle statistical processing.   5-211	:MEASure:CYCLe?		5-210
MEASure: CYCLe: EXECUTE   Executes the cycle statistical processing.   5-211	:MEASure:CYCLe:ABORt		5-211
queries the current setting.  Turns ON/OFF the display of the automated measurement of waveform parameters or queries the current setting.  MEASure: FLEXRAY?  Queries all settings related to the FLEXRAY waveform parameters.  5-211  MEASure: FLEXRAY:BUS: BRATE  Sets the FLEXRAY bus waveform bit rate (data transfer rate) or queries the current setting.  MEASure: FLEXRAY: BUS: SPARATE  MEASure: FLEXRAY: BUS: < parameter>?  Queries all settings related to the FLEXRAY bus waveforms.  5-212  MEASure: FLEXRAY: BUS: < parameter>?  Queries all settings related to the FLEXRAY bus waveform parameters.  MEASure: FLEXRAY: BUS: < parameter>?  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform parameters.  Queries all settings related to the FLEXRAY bus waveform or queries the current	:MEASure:CYCLe:EXECute		5-211
### Turns ON/OFF the display of the automated measurement of waveform parameters or queries the current setting.  #### MEASure: FLEXray: BUS: Queries all settings related to the FLEXRAY bus waveforms. 5-211  ##################################	:MEASure:CYCLe:TRACe	,	5-211
#MEASURE:FLEXTAY:BUS: Queries all settings related to the FLEXRAY bus waveforms.  #MEASURE:FLEXTAY:BUS:RATE  #MEASURE:FLEXTAY:BUS:Aparameters    Queries all settings related to the FLEXRAY bus waveforms.  #MEASURE:FLEXTAY:BUS:Aparameters    Queries all settings related to the FLEXRAY bus waveform parameters.  #MEASURE:FLEXTAY:BUS:Aparameters    Queries all settings related to the FLEXRAY bus waveform parameters.  #MEASURE:FLEXTAY:BUS:Aparameters    Queries the count for continuous statistical processing of the FLEXRAY bus waveform parameters.  #MEASURE:FLEXTAY:BUS:Aparameters    Queries each statistical value of the FLEXRAY bus waveform parameters.  #MEASURE:FLEXTAY:BUS:Aparameters    MEASURE:FLEXTAY:BUS:Aparameters   Turns ON/OFF FLEXRAY bus waveform parameters or queries the current setting.  #MEASURE:FLEXTAY:BUS:Aparameters    Queries automated measurement values of the FLEXRAY bus waveform parameters.  #MEASURE:FLEXTAY:BUS:BSSFESID Sets the BSSFES ID of the FLEXRAY bus waveform or queries the current setting.  #MEASURE:FLEXTAY:BUS:BSSID Sets the BSS ID of the FLEXRAY bus waveform or queries the current setting.  #MEASURE:FLEXTAY:BUS:FTRACE  #MEASURE:FLEXTAY:BUS:FTRACE  #MEASURE:FLEXTAY:BUS:FTRACE  #MEASURE:FLEXTAY:BUS:TRACE  #MEASURE:FLEX	:MEASure:DISPlay	Turns ON/OFF the display of the automated measurement of waveform	5-211
EMEASURE: FLEXTAY: BUS: Aparameter> EMEASURE: FLEXTAY: BUS: BSSFESID EMEASURE: FLEXTAY: BUS: BSSFESID EMEASURE: FLEXTAY: BUS: BSSFESID EMEASURE: FLEXTAY: BUS: BSSID EMEASURE: FLEXTAY: BUS: BSSID EMEASURE: FLEXTAY: BUS: FBSSID EMEASURE: FLEXTAY: BUS: FBSSID EMEASURE: FLEXTAY: BUS: FTRACE EMEASURE: FLEXTAY: BUS: FTRACE EMEASURE: FLEXTAY: BUS: FTRACE  EMEASURE: FLEXTAY: BUS: TRACE<  COUNT:  COU	:MEASure:FLEXray?	Queries all settings related to the FLEXRAY waveform parameters.	5-211
current setting.  :MEASure:FLEXray:BUS: <parameter>? Queries all settings related to the FLEXRAY bus waveform parameters.  5-212  Gueries the count for continuous statistical processing of the FLEXRAY bus waveform parameters.  :MEASure:FLEXray:BUS:<parameter>:</parameter></parameter>	:MEASure:FLEXray:BUS?	Queries all settings related to the FLEXRAY bus waveforms.	5-211
MEASURE:FLEXRAY:BUS: <parameter>:   Queries the count for continuous statistical processing of the FLEXRAY bus   5-212   waveform parameters.    </parameter>	:MEASure:FLEXray:BUS:BRATe	` ' '	5-212
count?  :MEASure:FLEXray:BUS: <parameter>: [MEASure:FLEXray:BUS:<parameter>: [MEASure:FLEXray:BUS:<parameter>: [MEASure:FLEXray:BUS:<parameter>: [MEASure:FLEXray:BUS:<parameter>: [MEASure:FLEXray:BUS:<parameter>: [MEASure:FLEXray:BUS:<parameter>: [MEASure:FLEXray:BUS:<parameter>: [MEASure:FLEXray:BUS:<parameter>: [MEASure:FLEXray:BUS:   :MEASure:FLEXray:BUS:BSSFESID [MEASure:FLEXray:BUS:BSSFESID]  :MEASure:FLEXray:BUS:BSSID [MEASure:FLEXray:BUS:FBSSID]  :MEASure:FLEXray:BUS:FBSSID [MEASure:FLEXray:BUS:FBSSID]  :MEASure:FLEXray:BUS:FTRace [MEASure:FLEXray:BUS:FTRace]  :MEASure:FLEXray:BUS:FTRace [MEASure:FLEXray:BUS:FTRace]  :MEASure:FLEXray:BUS:TRACe&lt;  Sets the BSS ID of the FLEXRAY bus waveform or queries the current setting.  :MEASure:FLEXray:BUS:FTRace [MEASure:FLEXray:BUS:TRACe&lt;  Queries all Threshold level and hysteresis settings of each trace of the FLEXRAY bus waveform.  :MEASure:FLEXray:BUS:TRACe&lt;  Cueries all Threshold of each trace of the FLEXRAY bus waveform or queries the current setting.  :MEASure:FLEXray:BUS:TRACe&lt;  Cueries all Threshold level and hysteresis settings of each trace of the FLEXRAY bus waveform.  :MEASure:FLEXray:BUS:TRACe&lt;  Cueries all Threshold of each trace of the FLEXRAY bus waveform or queries the current setting.  :MEASure:FLEXray:BUS:TRACe&lt;  Cueries all Threshold of each trace of the FLEXRAY bus waveform.  :MEASure:FLEXray:BUS:TRACe&lt;  Cueries all Threshold of each trace of the FLEXRAY bus waveform or queries the current setting.  :MEASure:FLEXray:BUS:TRACe&lt;  Cueries all Threshold of each trace of the FLEXRAY bus waveform or queries the current setting.  :MEASure:FLEXray:BUS:TRACe&lt;  Cueries all Threshold of each trace of the FLEXRAY bus waveform or queries the current setting.  :MEASure:FLEXray:BUS:TRACe&lt;  Cueries all Threshold of each trace of the FLEXRAY bus waveform or queries the current setting.  :MEASure:FLEXRAY:BUS:TRACe&lt;  Cueries all Threshold of each trace of the FLEXRAY bus waveform or queries the current setting.  :MEASure:FLEXRAY:BUS:TRACe&lt;  Cueries all Threshold of</parameter></parameter></parameter></parameter></parameter></parameter></parameter></parameter></parameter>	:MEASure:FLEXray:BUS: <parameter>?</parameter>	Queries all settings related to the FLEXRAY bus waveform parameters.	5-212
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setting.  :MEASure:FLEXray:BUS:BSSID  Sets the BSS ID of the FLEXRAY bus waveform or queries the current setting.  :MEASure:FLEXray:BUS:FBSSID  Sets the FBSS ID of the FLEXRAY bus waveform or queries the current setting.  :MEASure:FLEXray:BUS:FTRace  Sets the trace of the FLEXRAY bus waveform or queries the current setting.  :MEASure:FLEXray:BUS:SPOint  Sets the sample point of the FLEXRAY bus waveform or queries the current setting.  :MEASure:FLEXray:BUS:TRACe <x>?  Queries all Threshold level and hysteresis settings of each trace of the FLEXRAY bus waveform.  :MEASure:FLEXray:BUS:TRACe<x>:  Sets the hysteresis of the Threshold of each trace of the FLEXRAY bus waveform or queries the current setting.  :MEASure:FLEXray:BUS:TRACe<x>:  Sets the level of the Threshold of each trace of the FLEXRAY bus 5-213  waveform or queries the current setting.</x></x></x>			5-212
setting.  Sets the FBSS ID of the FLEXRAY bus waveform or queries the current setting.  Sets the trace of the FLEXRAY bus waveform or queries the current setting.  Sets the trace of the FLEXRAY bus waveform or queries the current setting.  Sets the sample point of the FLEXRAY bus waveform or queries the current setting.  Sets the sample point of the FLEXRAY bus waveform or queries the current setting.  Sets the sample point of the FLEXRAY bus waveform or queries the current setting.  Sets the sample point of the FLEXRAY bus waveform or queries the current setting.  Sets the hysteresis of the Threshold of each trace of the FLEXRAY bus waveform or queries the current setting.  Sets the level of the Threshold of each trace of the FLEXRAY bus 5-213	:MEASure:FLEXray:BUS:BSSFESID	Sets the BSSFES ID of the FLEXRAY bus waveform or queries the current	5-212
setting.  Sets the trace of the FLEXRAY bus waveform or queries the current setting.  Sets the sample point of the FLEXRAY bus waveform or queries the current setting.  Sets the sample point of the FLEXRAY bus waveform or queries the current setting.  Sets the sample point of the FLEXRAY bus waveform or queries the current setting.  Sets the sample point of the FLEXRAY bus waveform or queries the current setting.  Sets the hysteresis of the Threshold of each trace of the FLEXRAY bus waveform or queries the current setting.  Sets the level of the Threshold of each trace of the FLEXRAY bus 5-213  Sets the level of the Threshold of each trace of the FLEXRAY bus 5-213	:MEASure:FLEXray:BUS:BSSID	· ·	5-212
setting.  :MEASure:FLEXray:BUS:SPOint Sets the sample point of the FLEXRAY bus waveform or queries the current setting.  :MEASure:FLEXray:BUS:TRACe <x>? Queries all Threshold level and hysteresis settings of each trace of the FLEXRAY bus waveform.  :MEASure:FLEXray:BUS:TRACe<x>: Sets the hysteresis of the Threshold of each trace of the FLEXRAY bus waveform or queries the current setting.  :MEASure:FLEXray:BUS:TRACe<x>: Sets the level of the Threshold of each trace of the FLEXRAY bus 5-213</x></x></x>	:MEASure:FLEXray:BUS:FBSSID		5-212
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Command	Function	Page
:MEASure:FLEXray:RECeiver?	Queries all settings related to the FLEXRAY receiver waveform.	5-213
:MEASure:FLEXray:RECeiver:RXD?	Queries all settings related to the FLEXRAY receiver waveform data.	5-213
:MEASure:FLEXray:RECeiver:	Queries all settings related to the FLEXRAY receiver waveform data	5-214
RXD: <parameter>?</parameter>	parameters.	
:MEASure:FLEXray:RECeiver:	Queries the count for continuous statistical processing of the FLEXRAY	5-214
RXD: <parameter>:COUNt?</parameter>	receiver waveform data parameters.	5 2 1 4
:MEASure:FLEXray:RECeiver:RXD: <pa< td=""><td>Sets each statistical value of the FLEXRAY receiver waveform data</td><td>5-214</td></pa<>	Sets each statistical value of the FLEXRAY receiver waveform data	5-214
rameter>:{MAXimum MEAN MINimum SD	parameters	5 2 1 4
EViation}?	parameters	
:MEASure:FLEXray:RECeiver:	Turns ON/OFF the FLEXRAY receiver waveform data parameters.	5-214
RXD: <parameter>:STATe</parameter>	Tuttis Ott/Off the FEE/NAT receiver wavelotti data parameters.	3-214
:MEASure:FLEXray:RECeiver:	Sets automated measurement values of the FLEXRAY receiver waveform	5-214
RXD: <parameter>:VALue?</parameter>	data parameters	3-214
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:MEASure:FLEXray:RECeiver:RXD:	Queries all settings in BPBM of the FLEXRAY receiver waveform data.	5-214
BPBM?	Overies the DDDM level of the ELEVEN version was determined	5.04.4
:MEASure:FLEXray:RECeiver:RXD:	Queries the BPBM level of the FLEXRAY receiver waveform data.	5-214
BPBM: LEVel		
:MEASure:FLEXray:RECeiver:RXD:	Queries the BPBM trace of the FLEXRAY receiver waveform data.	5-215
BPBM: TRACe		
:MEASure:FLEXray:RECeiver:RXD:	Queries all settings in the FLEXRAY receiver waveform data.	5-215
DATA?		
:MEASure:FLEXray:RECeiver:RXD:	Queries the level of the FLEXRAY receiver waveform data.	5-215
DATA:LEVel		
:MEASure:FLEXray:RECeiver:RXD:	Queries the trace of the FLEXRAY receiver waveform data.	5-215
DATA:TRACe		
:MEASure:FLEXray:RECeiver:RXEN?	Queries all settings related to the FLEXRAY receiver waveform enable	5-215
	data.	
:MEASure:FLEXray:RECeiver:	Queries all settings related to the FLEXRAY receiver waveform enable data	5-215
RXEN: <parameter>?</parameter>	parameters.	
:MEASure:FLEXray:RECeiver:	Queries the count for continuous statistical processing of the FLEXRAY	5-215
RXEN: <parameter>:COUNt?</parameter>	receiver waveform enable data parameters.	
:MEASure:FLEXray:RECeiver:RXEN: <p< td=""><td>Queries each statistical value of the FLEXRAY receiver waveform enable</td><td>5-215</td></p<>	Queries each statistical value of the FLEXRAY receiver waveform enable	5-215
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:MEASure:FLEXray:RECeiver:	Turns ON/OFF FLEXRAY receiver waveform enable data parameters.	5-216
RXEN: <parameter>:STATe</parameter>	· ·	
:MEASure:FLEXray:RECeiver:	Queries automated measurement values of the FLEXRAY receiver	5-216
RXEN: <parameter>:VALue?</parameter>	waveform enable data parameters.	
:MEASure:FLEXray:RECeiver:RXEN:	Queries all settings in BPBM of the FLEXRAY receiver waveform enable	5-216
BPBM?	data.	
:MEASure:FLEXray:RECeiver:RXEN:	Queries the BPBM level of the FLEXRAY receiver waveform enable data.	5-216
BPBM: LEVel	Qualitative by bill lot of the received wavelenn shape data.	0 2 10
:MEASure:FLEXray:RECeiver:RXEN:	Queries the BPBM trace of the FLEXRAY receiver waveform enable data.	5-216
BPBM: TRACe	addies the bi bivi trace of the i EEXIXAI receiver wavelorii chable data.	3 2 10
:MEASure:FLEXray:RECeiver:RXEN:	Queries all settings in the FLEXRAY receiver waveform enable data.	5-216
ENABle?	Queries all settings in the FLEXIXAT receiver wavelonn enable data.	3-210
	Queries the level of the FLEXRAY receiver waveform enable data.	E 017
:MEASure:FLEXray:RECeiver:RXEN:	Queries the level of the FLEXRAY receiver waveform enable data.	5-217
ENABle: LEVel	Queries the trace of the FLEXRAY receiver waveform enable data.	F 047
:MEASure:FLEXray:RECeiver:RXEN:	Queries the trace of the FLEXRAY receiver waveform enable data.	5-217
ENABle:TRACe	T ON/OFF A SIGN IN CHIEF ENDANGE A	5.047
:MEASure:FLEXray:STATistics	Turns ON/OFF statistics mode of the FLEXRAY waveform parameters or	5-217
	queries the current setting.	
:MEASure:FLEXray:TRANsmitter?	Queries all settings related to the FLEXRAY transmitter waveform.	5-217
:MEASure:FLEXray:TRANsmitter:TXD?	Queries all settings related to the FLEXRAY transmitter waveform data.	5-217
:MEASure:FLEXray:TRANsmitter:	Queries all settings related to the FLEXRAY transmitter waveform data	5-218
TXD: <parameter>?</parameter>	parameters.	
:MEASure:FLEXray:TRANsmitter:	Sets the count of the CONTinuous Statistics of the FLEXRAY transmitter	5-218
TXD: <parameter>:COUNt?</parameter>	waveform data parameters	
:MEASure:FLEXray:TRANsmitter:	Queries each statistical value of the FLEXRAY transmitter waveform data	5-218
TXD: <parameter>:{MAXimum MEAN MIN</parameter>	parameters.	
_ ` ` ' '		
imum SDEViation}?		
<pre>imum   SDEViation } ? :MEASure:FLEXray:TRANsmitter:</pre>	Turns ON/OFF FLEXRAY transmitter waveform data parameters.	5-218

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Command	Function	Page
:MEASure:FLEXray:TRANsmitter:	Queries automated measurement values of the FLEXRAY transmitter	5-218
TXD: <parameter>:VALue?</parameter>	waveform data parameters.	
:MEASure:FLEXray:TRANsmitter:TXD: BPBM?	Queries all settings in BPBM of the FLEXRAY transmitter waveform data.	5-218
:MEASure:FLEXray:TRANsmitter:TXD: BPBM:DPRoximal	Sets the BPBM distal/proximal value of the FLEXRAY transmitter waveform data or queries the current setting.	5-219
:MEASure:FLEXray:TRANsmitter:TXD:	Queries the BPBM level of the FLEXRAY transmitter waveform data.	5-219
BPBM:LEVel :MEASure:FLEXray:TRANsmitter:TXD:	Queries the BPBM trace of the FLEXRAY transmitter waveform data.	5-219
<pre>BPBM:TRACe :MEASure:FLEXray:TRANsmitter:TXD:</pre>	Queries all settings in the FLEXRAY transmitter waveform data.	5-219
DATA? :MEASure:FLEXray:TRANsmitter:TXD:	Queries the level of the FLEXRAY transmitter waveform data.	5-219
DATA:LEVel		
:MEASure:FLEXray:TRANsmitter:TXD: DATA:TRACe	Queries the trace of the FLEXRAY transmitter waveform data.	5-219
:MEASure:FLEXray:TRANsmitter: TXEN?	Queries all settings related to the FLEXRAY transmitter enable data.	5-220
:MEASure:FLEXray:TRANsmitter:	Queries all settings related to the FLEXRAY transmitter waveform enable	5-220
TXEN: <pre>rameter&gt;?</pre>	data parameters.	220
:MEASure:FLEXray:TRANsmitter: TXEN: <pre>parameter&gt;:COUNt?</pre>	Queries the count for continuous statistical processing of the FLEXRAY transmitter waveform enable data parameters.	5-220
:MEASure:FLEXray:TRANsmitter:	Queries each statistical value of the FLEXRAY transmitter waveform enable	F 220
TXEN: <parameter>:{MAXimum MEAN MI</parameter>	data parameters.	5-220
Nimum SDEViation}? :MEASure:FLEXray:TRANsmitter:	Turns ON/OFF FLEXRAY transmitter waveform enable data parameters.	5-220
TXEN: <parameter>:STATe</parameter>		
:MEASure:FLEXray:TRANsmitter: TXEN: <parameter>:VALue?</parameter>	Queries automated measurement values of the FLEXRAY transmitter waveform enable data parameters.	5-221
:MEASure:FLEXray:TRANsmitter: TXEN:BPBM?	Queries all settings in BPBM of the FLEXRAY transmitter waveform enable data.	5-221
:MEASure:FLEXray:TRANsmitter: TXEN:BPBM:LEVel	Queries the BPBM level of the FLEXRAY transmitter waveform enable data.	5-221
:MEASure:FLEXray:TRANsmitter:	Queries the BPBM trace of the FLEXRAY transmitter waveform enable	5-221
TXEN:BPBM:TRACe :MEASure:FLEXray:TRANsmitter:	data.  Queries all settings in the FLEXRAY transmitter waveform enable data.	5-221
TXEN:ENABle? :MEASure:FLEXray:TRANsmitter:	Queries the level of the FLEXRAY transmitter waveform enable data.	5-221
TXEN:ENABle:LEVel :MEASure:FLEXray:TRANsmitter:	Queries the trace of the FLEXRAY transmitter waveform enable data.	5-222
TXEN: ENABle: TRACe	Quelles the trace of the FEEXIXAL transmitter wavelount enable data.	J-222
:MEASure:FLEXray:TYPE	Queries the type of the waveform parameters of the FLEXRAY.	5-222
:MEASure:HISTory:ABORt	Aborts the execution of the statistical processing of the history data.	5-222
:MEASure:HISTory:EXECute	Executes the statistical processing of the history data.	5-222
:MEASure:MODE	Sets the mode of the automated measurement of waveform parameters or	5-222
:MEASure:THReshold?	queries the current setting.  Queries all settings related to the threshold levels of the automated	5-222
MED Course BYD subs 2.3 ED2 C	measurement of waveform parameters.	F 000
:MEASure:THReshold:TRACe <x>? :MEASure:THReshold:TRACe<x>:AUTO</x></x>	Queries the threshold levels of the trace.  Sets the detection mode when the auto setting of the threshold level is	5-223 5-223
:MEASure:THReshold:TRACe <x>:</x>	enabled or queries the current setting.  Queries all settings related to the level and hysteresis of the threshold	5-223
LHYSteresis?	level.	
:MEASure:THReshold:TRACe <x>: LHYSteresis:HYSTeresis</x>	Sets the hysteresis of the threshold level or queries the current setting.	5-223
:MEASure:THReshold:TRACe <x>: LHYSteresis:LEVel</x>	Sets the level of the threshold level or queries the current setting.	5-223
:MEASure:THReshold:TRACe <x>:MODE</x>	Sets the setup mode of the threshold level or queries the current setting.	5-223
:MEASure:THReshold:TRACe <x>:</x>	Queries all settings related to the upper and lower limits of the threshold	5-223
ULOWer?	level.	
:MEASure:THReshold:TRACe <x>: ULOWer:RANGe</x>	setting.	5-224
:MEASure:TRACe <x>?</x>	Queries all settings related to the trace.	5-224

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Turns ON/OFF all waveform parameters   5-225	Command	Function	Page
MRABURE : PRACe xx - ARBAxx   ALL   Turns ON/OFF all waveform parameters.   5-225	:MEASure:TRACe <x>:AREA<x>?</x></x>	Queries all settings related to the area.	5-225
ARBASILLE (TRACE xx) - APATAMENT POT TRACE xx) - APATAMENT POT TRACE xx	:MEASure:TRACe <x>:AREA<x>:ALL</x></x>	Turns ON/OFF all waveform parameters.	5-225
AMERBERACY   TRACE-CXY   AREA-CXY   CARREACXY   CARR	:MEASure:TRACe <x>:</x>	Queries all settings related to the waveform parameter.	5-225
ARBARUS-I-PRATAMENTO-I COUNT?  ARBARUS-I-PRATAMENTO-I COUNT?  ARBARUS-I-PRATAMENTO-I STATE  ARBA	AREA <x>:<parameter>?</parameter></x>		
Course the statistical value of the waveform parameter.   5-226	:MEASure:TRACe <x>:</x>	Queries the continuous statistical processing count of the waveform	5-225
CPATAMETER TRACE (MAXTMUM   MMAX  MITHALINAIN   BDM2   MITHALINAIN   MITHALINAIN   BDM2   MIRABAYER   TRACE   MAXTMUM   MAXEMAX   MAXEMA	AREA <x>:<parameter>:COUNt?</parameter></x>	parameter.	
### MINISTRATE   STARCe   STARCE   Turns ON/OFF the waveform parameter or queries the current setting.   S-226   #### MEASUre : TRACe   STARCE   AREA   AREA   STARCE	:MEASure:TRACe <x>:AREA<x>:</x></x>	Queries the statistical value of the waveform parameter.	5-226
INDEASURE (TRACE < > : STATE    MEASURE (TRACE < > : )	<parameter>:{MAXimum MEAN </parameter>		
ARBASure: TRACe xxx : ARBA xxx : DBLay:  MRASure: TRACe xxx : ARBA xxx : DBLay:  MRASu	MINimum SDEViation}?		
MBASURe   TRACe <   AREA <   DELay		Turns ON/OFF the waveform parameter or queries the current setting.	5-226
AREBASURE (TRACe(xx): AREA(xx): DELay): WEASURE (TRACe(xx): AREA(xx):			
MRASURE : TRACe xx : AREA xx : DELay : MacSure : TRACe xx : AREA xx : MacSure : MacSure : TRACe xx : AREA xx : MacSure : MacSure : TRACe xx : AREA xx : MacSure : MacSure : TRACe xx : AREA xx : MacSure : MacSure : TRACe xx : AREA xx : MacSure : MacSure : TRACe xx : AREA xx : MacSure : MacSure : TRACe xx : AREA xx : MacSure : MacSure : TRACe xx : AREA xx : MacSure : MacSure : TRACe xx : AREA xx : MacSure : MacSure : TRACe xx : AREA xx : MacSure		Queries the automated measured value of the waveform parameter.	5-226
MRASURE : TRACe < A : AREA < : DELay : Massire : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : DELay : Measure : TRACe < A : AREA < : METHOD : Measure : TRACe < A : AREA < : METHOD : Measure : TRACe < A : AREA < : METHOD : Measure : Meas			
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:MEASure: TRANge       Sets the measurement range or queries the current setting.       5-229         :MEASure: WAIT?       Waits for the completion of the automated measurement with a timeout option.       5-229         :MEASure: WINDow       Sets the measurement source window of the area or queries the current setting.       5-229         :REFerence Group       **REFerence       5-230         :REFerence       Queries all settings related to the reference.       5-230         :REFerence       **SETANGE       Queries all settings related to the reference or queries the current setting.       5-230         :REFerence       **SETANGE       Queries all settings related to the waveform label of the reference.       5-230         :REFerence       **SETANGE       Sets the inverted display of the reference or queries the current setting.       5-230         :REFerence       **SETANGE       Sets the waveform label of the reference or queries the current setting.       5-230         :REFerence       **SETANGE       **SETANGE       **SETANGE       5-230         :REFerence       **SETANGE       **	:MEASure:TRACe <x>:AREA<x>:METHod</x></x>	Sets the method for detecting the High/Low level for automated	5-229
**MEASure:WINDow<**x> Sets the measurement source window of the area or queries the current setting.  **REFerence Group**  **REFerence<**x>? Queries all settings related to the reference.  **REFerence<**x>: DISPlay**  **Turns ON/OFF the display of the reference or queries the current setting.  **REFerence<**x>: LABel?*  **Queries all settings related to the waveform label of the reference.  **REFerence<**x>: LABel?*  **Queries all settings related to the waveform label of the reference.  **REFerence<**x>: LABel?*  **Queries all settings related to the waveform label of the reference.  **REFerence<**x>: LABel?*  **REFerence<**x>: LABel?*  **REFerence<**x>: LABel [:DEFine]*  **Sets the waveform label of the reference or queries the current setting.  **REFerence<**x>: LABel : MODE*  **Turns ON/OFF the waveform label display of the reference or queries the current setting.  **REFerence<**x>: LABel : MODE*  **Turns ON/OFF the waveform to the reference or queries the current setting.  **REFerence<**x>: DADD*  **LABEL : MODE*  **Turns ON/OFF the waveform to the reference or queries the current setting.  **REFerence<**x>: SELect*  **Sets the varical position of the reference or queries the current setting.  **REFerence<**x>: SELect*  **Sets the waveform (computation or reference) to the computation channel or queries the current setting.  **REFerence<**x>: SVALue*  **Turns ON/OFF the scale display of the reference or queries the current setting.  **SEARch<**x>: ABORC*  **Queries all settings related to the search function.  **SEARch<**x>: ABORC*  **Aborts the search.  **Search<**x>: ABORC*  **Aborts the search function.		measurement of waveform parameters or queries the current setting.	
option.  Sets the measurement source window of the area or queries the current setting.  REFerence Group  :REFerence :REFe	:MEASure:TRANge <x></x>	Sets the measurement range or queries the current setting.	5-229
Sets the measurement source window of the area or queries the current setting.  REFerence Group  :REFerence <x>? Queries all settings related to the reference. 5-230 :REFerence<x>:DISPlay Turns ON/OFF the display of the reference or queries the current setting. 5-230 :REFerence<x>:INVert Sets the inverted display of the reference or queries the current setting. 5-230 :REFerence<x>:LABel? Queries all settings related to the waveform label of the reference. 5-230 :REFerence<x>:LABel? Queries all settings related to the waveform label of the reference. 5-230 :REFerence<x>:LABel:MODE Turns ON/OFF the waveform label display of the reference or queries the current setting. 5-230 :REFerence<x>:LABel:MODE Turns ON/OFF the waveform label display of the reference or queries the current setting. 5-230 :REFerence<x>:LOAD Loads the waveform to the reference or queries the current setting. 5-230 :REFerence<x>:POSition Sets the vertical position of the reference or queries the current setting. 5-230 :REFerence<x>:SELect Sets the waveform (computation or reference) to the computation channel or queries the current setting. 5-230 :REFerence<x>:SVALue Turns ON/OFF the scale display of the reference or queries the current setting. 5-230 :REFerence<x>:SVALue Turns ON/OFF the scale display of the reference or queries the current setting. 5-230 :REFerence<x>:SEARch<x>? Queries all settings related to the search function. 5-231 :SEARch<x>:ABORt Aborts the search. 5-231</x></x></x></x></x></x></x></x></x></x></x></x></x></x></x>	:MEASure:WAIT?	Waits for the completion of the automated measurement with a timeout	5-229
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### Turns ON/OFF the waveform label display of the reference or queries the current setting.  ###################################	:REFerence <x>:LABel?</x>	Queries all settings related to the waveform label of the reference.	5-230
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:REFerence <x>:POSition       Sets the vertical position of the reference or queries the current setting.       5-230         :REFerence<x>:SELect       Sets the waveform (computation or reference) to the computation channel or queries the current setting.       5-230         :REFerence<x>:SVALue       Turns ON/OFF the scale display of the reference or queries the current setting.       5-230         SEARch Group       :SEARch<x>?       Queries all settings related to the search function.       5-231         :SEARch<x>:ABORt       Aborts the search.       5-231</x></x></x></x></x>		-	
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or queries the current setting.  :REFerence <x>:SVALue  Turns ON/OFF the scale display of the reference or queries the current setting.  5-230  SEARch Group  :SEARch<x>?  Queries all settings related to the search function.  5-231  :SEARch<x>:ABORt  Aborts the search.</x></x></x>	:REFerence <x>:POSition</x>	Sets the vertical position of the reference or queries the current setting.	5-230
:REFerence <x>:SVALue     Turns ON/OFF the scale display of the reference or queries the current setting.     5-230       SEARch Group     :SEARch<x>?     Queries all settings related to the search function.     5-231       :SEARch<x>:ABORt     Aborts the search.     5-231</x></x></x>	:REFerence <x>:SELect</x>	Sets the waveform (computation or reference) to the computation channel	5-230
setting.       SEARch Group       : SEARch <x>?     Queries all settings related to the search function.     5-231       : SEARch<x>: ABORt     Aborts the search.     5-231</x></x>			
SEARch Group         : SEARch <x>?       Queries all settings related to the search function.       5-231         : SEARch<x>: ABORt       Aborts the search.       5-231</x></x>	:REFerence <x>:SVALue</x>	Turns ON/OFF the scale display of the reference or queries the current	5-230
: SEARch <x>? Queries all settings related to the search function. 5-231 :SEARch<x>: ABORt Aborts the search. 5-231</x></x>		setting.	
: SEARch <x>: ABORt Aborts the search. 5-231</x>	SEARch Group		
: SEARch <x>: ABORt Aborts the search. 5-231</x>	:SEARch <x>?</x>	Queries all settings related to the search function.	5-231
: SEARch <x>: CANBus? Queries all settings related to the CAN bus signal search. 5-231</x>	:SEARch <x>:ABORt</x>	•	5-231
	:SEARch <x>:CANBus?</x>	Queries all settings related to the CAN bus signal search.	5-231

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Command	Function	Page
:SEARch <x>:CANBus:SETup?</x>	Queries all settings related to the CAN bus signal search setup.	5-231
:SEARch <x>:CANBus[:SETup]:ACK</x>	Sets the ACK condition of the CAN bus signal search or queries the current setting.	5-232
:SEARch <x>:CANBus[:SETup]:BRATe</x>	Sets the bit rate (data transfer rate) of the CAN bus signal search or queries the current setting.	5-232
:SEARch <x>:CANBus[:SETup]:DATA?</x>	Queries all settings related to the CAN bus signal search data.	5-232
:SEARch <x>:CANBus[:SETup]:DATA:</x>	Sets the byte order of the CAN bus signal search data or queries the	5-232
BORDer	current setting.	
:SEARch <x>:CANBus[:SETup]:DATA: CONDition</x>	Sets the data condition of the CAN bus signal search or queries the current setting.	5-232
:SEARch <x>:CANBus[:SETup]:DATA: DATA<x></x></x>	Sets the comparison data of the CAN bus signal search data or queries the current setting.	5-232
:SEARch <x>:CANBus[:SETup]:DATA: DLC</x>	Sets the number of valid bytes (DLC) of the CAN bus signal search data or queries the current setting.	5-232
:SEARch <x>:CANBus[:SETup]:DATA: HEXA</x>	Sets the CAN bus signal search data in hexadecimal notation.	5-233
:SEARch <x>:CANBus[:SETup]:DATA:</x>	Sets the MSB and LSB bits of the CAN bus signal search data or queries the current setting.	5-233
:SEARch <x>:CANBus[:SETup]:DATA: PATTern</x>	Sets the CAN bus signal search data in binary notation or queries the current setting.	5-233
:SEARch <x>:CANBus[:SETup]:DATA: SIGN</x>	Sets the sign of the CAN bus signal search data or queries the current setting.	5-233
:SEARch <x>:CANBus[:SETup]:IDEXt?</x>	Queries all settings related to the ID of the extended format of the CAN bus signal search.	5-233
:SEARch <x>:CANBus[:SETup]:IDEXt:</x>	Sets the ID of the extended format of the CAN bus signal search in hexadecimal notation.	5-233
:SEARch <x>:CANBus[:SETup]:IDEXt: PATTern</x>	Sets the ID of the extended format of the CAN bus signal search in binary notation or queries the current setting.	5-233
:SEARch <x>:CANBus[:SETup]:IDSTd?</x>	Queries all settings related to the ID of the standard format of the CAN bus signal search.	5-233
:SEARch <x>:CANBus[:SETup]:IDSTd: HEXA</x>	Sets the ID of the standard format of the CAN bus signal search in hexadecimal notation.	5-233
:SEARch <x>:CANBus[:SETup]:IDSTd: PATTern</x>	Sets the ID of the standard format of the CAN bus signal search in binary notation or queries the current setting.	5-234
:SEARch <x>:CANBus[:SETup]:MODE</x>	Sets the CAN bus signal search mode or queries the current setting.	5-234
:SEARch <x>:CANBus[:SETup]: MSIGnal?</x>	Queries all settings related to the message signal of the CAN bus signal search .	5-234
:SEARch <x>:CANBus[:SETup]: MSIGnal:MESSage?</x>	Queries all settings related to the message of the CAN bus signal search .	5-234
:SEARch <x>:CANBus[:SETup]: MSIGnal:MESSage:ITEM</x>	Sets the CAN bus signal search message item.	5-234
:SEARch <x>:CANBus[:SETup]: MSIGnal:MESSage:MODE</x>	Turns ON/OFF the CAN bus signal search message or queries the current setting.	5-234
:SEARch <x>:CANBus[:SETup]: MSIGnal:SELect</x>	Sets the message signal conditions for the CAN bus signal search or queries the current setting.	5-234
:SEARch <x>:CANBus[:SETup]: MSIGnal:SIGNal?</x>	Queries all settings related to the signal of the CAN bus signal search .	5-234
:SEARch <x>:CANBus[:SETup]: MSIGnal:SIGNal:CONDition</x>	Sets the signal data conditions for the CAN bus signal search or queries the current setting.	5-235
:SEARch <x>:CANBus[:SETup]: MSIGnal:SIGNal:DATA<x></x></x>	Sets the signal data comparison data for the CAN bus signal search or queries the current setting.	5-235
:SEARch <x>:CANBus[:SETup]: MSIGnal:SIGNal:ITEM</x>	Sets the CAN bus signal search signal item.	5-235
:SEARch <x>:CANBus[:SETup]: MSIGnal:SIGNal:MODE</x>	Turns ON/OFF the CAN bus signal search signal or queries the current setting.	5-235
:SEARch <x>:CANBus[:SETup]: RECessive</x>	Sets the recessive level (bus level) of the CAN bus signal search or queries the current setting.	5-235
:SEARch <x>:CANBus[:SETup]:RTR</x>	Sets the RTR of the CAN bus signal search or queries the current setting.	5-235
:SEARch <x>:CANBus[:SETup]:SPOint</x>	Sets the sample point of the CAN bus signal search or queries the current setting.	5-236

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Command	Function	Page
:SEARch <x>:CANBus[:SETup]:TRACe</x>	Sets the source channel of the CAN bus signal search or queries the current setting.	5-236
:SEARch <x>:CLOCk?</x>	Queries all settings related to the clock channel.	5-236
:SEARch <x>:CLOCk:POLarity</x>	Sets the polarity of the clock channel or queries the current setting.	5-236
:SEARch <x>:CLOCk:SOURce</x>	Sets the clock trace of the search or queries the current setting.	5-236
:SEARch <x>:DECimation</x>	Sets the decimation detection of the skip mode or queries the current setting.	5-236
:SEARch <x>:EXECute</x>	Executes the search.	5-236
:SEARch <x>:FLEXray?</x>	Queries all settings related to the FLEXRAY bus signal search.	5-236
:SEARch <x>:FLEXray:BRATe</x>	Sets the FLEXRAY bus signal search bit rate (data transfer rate) or queries the current setting.	_
:SEARch <x>:FLEXray:ERRor?</x>	Queries all settings related to the FLEXRAY bus signal search error .	5-237
:SEARch <x>:FLEXray:ERRor:BSS</x>	Sets the FLEXRAY bus signal search BSS error or queries the current setting.	5-237
:SEARch <x>:FLEXray:ERRor:CRC</x>	Sets the FLEXRAY bus signal search CRC error or queries the current setting.	5-237
:SEARch <x>:FLEXray:ERRor:CRCBus</x>	Sets the target channel of the FLEXRAY bus signal search CRC error or queries the current setting.	5-237
:SEARch <x>:FLEXray:ERRor:FES</x>	Sets the FLEXRAY bus signal search FES error or queries the current setting.	5-237
:SEARch <x>:FLEXray:ERRor:TRACe</x>	Sets the FLEXRAY bus signal search error trace or queries the current setting.	5-237
:SEARch <x>:FLEXray:IDData?</x>	Queries all settings related to the IDData of the FLEXRAY bus signal search.	5-237
:SEARch <x>:FLEXray:IDData:CCOunt?</x>	Queries all settings related to the Cycle Count of the FLEXRAY bus signal search .	5-237
:SEARch <x>:FLEXray:IDData:CCOunt:CONDition</x>	Sets the Cycle Count data conditions for the FLEXRAY bus signal search or queries the current setting.	5-238
:SEARch <x>:FLEXray:IDData:CCOunt: COUNt<x></x></x>	Sets the FLEXRAY bus signal search Cycle Count or queries the current setting.	5-238
:SEARch <x>:FLEXray:IDData:DATA?</x>	Queries all settings related to the Data Field of the FLEXRAY bus signal search.	5-238
:SEARch <x>:FLEXray:IDData:DATA: BORDer</x>	Sets the byte order of the Data Field of the FLEXRAY bus signal search or queries the current setting.	5-238
:SEARch <x>:FLEXray:IDData:DATA: CONDition</x>	Sets the data conditions of the Data Field of the FLEXRAY bus signal search or queries the current setting.	5-238
:SEARch <x>:FLEXray:IDData:DATA: DATA<x></x></x>	Sets the comparison data of the Data Field of the FLEXRAY bus signal search or queries the current setting.	5-239
:SEARch <x>:FLEXray:IDData:DATA: DPOSition</x>	Sets the position for pattern comparison of the data of the Data Field of the FLEXRAY bus signal search or queries the current setting.	5-239
:SEARch <x>:FLEXray:IDData:DATA: DSIZe</x>	Sets the number of bytes of data in the Data Field of the FLEXRAY bus signal search or queries the current setting.	5-239
:SEARch <x>:FLEXray:IDData:DATA: HEXA</x>	Sets the data in the Data Field of the FLEXRAY bus signal search in hexadecimal.	5-239
:SEARch <x>:FLEXray:IDData:DATA: MSBLsb</x>	Sets the MSB/LSB bit of data in the Data Field of the FLEXRAY bus signal search or queries the current setting.	5-239
:SEARch <x>:FLEXray:IDData:DATA: PATTern</x>	Sets the data of the Data Field of the FLEXRAY bus signal search in binary or queries the current setting.	5-239
:SEARch <x>:FLEXray:IDData:DATA: SIGN</x>	Sets the data sign of the Data Field of the FLEXRAY bus signal search or queries the current setting.	5-239
:SEARch <x>:FLEXray:IDData:FID?</x>	Queries all settings related to the Frame ID of the FLEXRAY bus signal search.	5-240
:SEARch <x>:FLEXray:IDData:FID: CONDition</x>	Sets the Frame ID data conditions for the FLEXRAY bus signal search or queries the current setting.	5-240
:SEARch <x>:FLEXray:IDData:FID: ID<x></x></x>	Sets the Frame ID value for the FLEXRAY bus signal search or queries the current setting.	5-240
:SEARch <x>:FLEXray:IDData: INDicator?</x>	Queries all settings related to the Indicator of the FLEXRAY bus signal search.	5-240
:SEARch <x>:FLEXray:IDData: INDicator:CONDition</x>	Sets the data conditions of the Indicator of the FLEXRAY bus signal search or queries the current setting.	5-240

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Command	Function	Page
:SEARch <x>:FLEXray:IDData:</x>	Sets the Null frame of the Indicator of the FLEXRAY bus signal search or	5-240
INDicator:NFRame	queries the current setting.	
:SEARch <x>:FLEXray:IDData:</x>	Sets the Payload preamble of the Indicator of the FLEXRAY bus signal	5-241
INDicator:PPReamble	search or queries the current setting.	
:SEARch <x>:FLEXray:IDData:</x>	Sets the Start frame of the Indicator of the FLEXRAY bus signal search or	5-241
INDicator:STFRame	queries the current setting.	
:SEARch <x>:FLEXray:IDData:</x>	Sets the Sync frame of the Indicator of the FLEXRAY bus signal search or	5-241
INDicator:SYFRame	queries the current setting.	
:SEARch <x>:FLEXray:MODE</x>	Sets the FLEXRAY bus signal search mode or queries the current setting.	5-241
:SEARch <x>:FLEXray:TRACe</x>	Sets the FLEXRAY bus signal search trace or queries the current setting.	5-241
:SEARch <x>:HOLDoff</x>	Sets the hold off detection or queries the current setting.	5-241
:SEARch <x>:I2CBus?</x>	Queries all settings related to the I <sup>2</sup> C bus signal search.	5-242
:SEARch <x>:I2CBus:CLOCk?</x>	Queries all settings related to the clock of the I <sup>2</sup> C bus signal search.	5-242
:SEARch <x>:I2CBus:CLOCk:SOURce</x>	Sets the clock trace of the I <sup>2</sup> C bus signal search or queries the current	5-242
	setting.	
:SEARch <x>:I2CBus:SETup?</x>	Queries all settings related to the I <sup>2</sup> C bus signal search setup.	5-242
:SEARch <x>:I2CBus[:SETup]:ADATa?</x>	Queries all settings related to the address of the I <sup>2</sup> C bus signal search.	5-242
:SEARch <x>:I2CBus[:SETup]:ADATa:</x>	Queries all settings related to the 10-bit address of the I <sup>2</sup> C bus signal	5-243
BIT10address?	search.	0
:SEARch <x>:I2CBus[:SETup]:ADATa:</x>	Sets the 10-bit address of the I <sup>2</sup> C bus signal search in hexadecimal	5-243
BIT10address:HEXA	notation.	0
:SEARch <x>:I2CBus[:SETup]:ADATa:</x>	Sets the 10-bit address of the I <sup>2</sup> C bus signal search in binary notation or	5-243
BIT10address:PATTern	queries the current setting.	0 2 .0
:SEARch <x>:I2CBus[:SETup]:ADATa:</x>	Queries all settings related to the 7-bit address of the I <sup>2</sup> C bus signal search.	5-243
BIT7ADdress?	addition an obtaining rotated to the ribit addition of the ribit addition.	0 2 10
:SEARch <x>:I2CBus[:SETup]:ADATa:</x>	Sets the 7-bit address of the I <sup>2</sup> C bus signal search in hexadecimal notation.	5-243
BIT7ADdress:HEXA	Solo the 1 stradardoo of the 1 o sao digital obaron in hoxadoomid notation.	0 2 10
:SEARch <x>:I2CBus[:SETup]:ADATa:</x>	Sets the 7-bit address of the I <sup>2</sup> C bus signal search in binary notation or	5-244
BIT7ADdress:PATTern	queries the current setting.	
:SEARch <x>:I2CBus[:SETup]:ADATa:</x>		5-244
BIT7APsub?	search.	
:SEARch <x>:I2CBus[:SETup]:ADATa:</x>	Queries all settings related to the 7-bit address of the 7-bit + Sub address	5-244
BIT7APsub:ADDRess?	of the I <sup>2</sup> C bus signal search.	
:SEARch <x>:I2CBus[:SETup]:ADATa:</x>	Sets the 7-bit address of the 7-bit + Sub address of the I <sup>2</sup> C bus signal	5-244
BIT7APsub:ADDRess:HEXA	search in hexadecimal notation.	
:SEARch <x>:I2CBus[:SETup]:ADATa:</x>	Sets the 7-bit address of the 7-bit + Sub address of the I <sup>2</sup> C bus signal	5-244
BIT7APsub:ADDRess:PATTern	search in binary notation or queries the current setting.	
:SEARch <x>:I2CBus[:SETup]:ADATa:</x>	Queries all settings related to the Sub address of the 7-bit + Sub address	5-244
BIT7APsub:SADDress?	of the I <sup>2</sup> C bus signal search.	
:SEARch <x>:I2CBus[:SETup]:ADATa:</x>	Sets the Sub address of the 7-bit + Sub address of the I <sup>2</sup> C bus signal	5-244
BIT7APsub:SADDress:HEXA	search in hexadecimal notation.	
:SEARch <x>:I2CBus[:SETup]:ADATa:</x>	Sets the Sub address of the 7-bit + Sub address of the I <sup>2</sup> C bus signal	5-245
BIT7APsub:SADDress:PATTern	search in binary notation or queries the current setting.	
:SEARch <x>:I2CBus[:SETup]:ADATa:</x>	Sets the address type of the I <sup>2</sup> C bus signal search or queries the current	5-245
TYPE	setting.	
:SEARch <x>:I2CBus[:SETup]:DATA?</x>	Queries all settings related to the data of the I <sup>2</sup> C bus signal search.	5-245
:SEARch <x>:I2CBus[:SETup]:DATA:</x>	Sets the number of data bytes of the I <sup>2</sup> C bus signal search or queries the	5-245
BYTE	current setting.	
:SEARch <x>:I2CBus[:SETup]:DATA:</x>	Sets the determination method (match or not match) of the data of the I <sup>2</sup> C	5-245
CONDition	bus signal search or queries the current setting.	
:SEARch <x>:I2CBus[:SETup]:DATA:</x>	Sets the position for comparing the data pattern of the I <sup>2</sup> C bus signal	5-245
DPOSition	search or queries the current setting.	
:SEARch <x>:I2CBus[:SETup]:DATA:</x>	Sets the data of the I <sup>2</sup> C bus signal search in hexadecimal notation.	5-245
HEXA <x></x>		
:SEARch <x>:I2CBus[:SETup]:DATA:</x>	Enables/Disables the data conditions of the I <sup>2</sup> C bus signal search or	5-245
MODE	queries the current setting.	
:SEARch <x>:I2CBus[:SETup]:DATA:</x>	Sets the data of the I <sup>2</sup> C bus signal search in binary notation or queries the	5-246
PATTern <x></x>	current setting.	
:SEARch <x>:I2CBus[:SETup]:DATA:</x>	Sets the pattern comparison start position mode of the data of the I <sup>2</sup> C bus	5-246
PMODe	signal search or queries the current setting.	
:SEARch <x>:I2CBus[:SETup]:DATA:</x>	Sets the trace of the data of the I <sup>2</sup> C bus signal search or queries the	
.bhmcn.r.izebab[.bhrap].bmm.		1
TRACe	current setting.	

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### BIT7maddress? ### the ### :SEARch <x>:12CBus[:SETup]:GCAL1:</x>	earch in hexadecimal notation.  Lets the 7-bit master address of the general call of the I <sup>2</sup> C bus signal earch in binary notation or queries the current setting.  Lets the second byte type of the general call of the I <sup>2</sup> C bus signal search or pueries the current setting.  Lets the search mode of the I <sup>2</sup> C bus signal search or queries the current setting.  Lets the search mode of the I <sup>2</sup> C bus signal search or queries the current setting.  Lets all settings related to the NON ACK ignore mode of the I <sup>2</sup> C bus signal search.  Lets whether to ignore NON ACK in high speed mode of the I <sup>2</sup> C bus signal search or queries the current setting.  Lets whether to ignore NON ACK in read access mode of the I <sup>2</sup> C bus signal search or queries the current setting.  Lets whether to ignore NON ACK in the start byte of the I <sup>2</sup> C bus signal search or queries the current setting.  Lets whether to ignore NON ACK in the start byte of the I <sup>2</sup> C bus signal search or queries the current setting.  Lets whether to ignore NON ACK in the start byte of the I <sup>2</sup> C bus signal search or queries the current setting.  Lets the type of the start byte or high speed mode of the I <sup>2</sup> C bus signal search or queries the current setting.	5-246 5-246 5-247 5-247 5-247 5-247 5-247
:SEARch <x>:I2CBus[:SETup]:GCAL1:       Set         BIT7maddress:HEXA       sea         :SEARch<x>:I2CBus[:SETup]:GCAL1:       Set         BIT7maddress:PATTern       sea         :SEARch<x>:I2CBus[:SETup]:GCAL1:       Set         SBYTe       que         :SEARch<x>:I2CBus[:SETup]:MODE       Set         :SEARch<x>:I2CBus[:SETup]:       Que         NAIGnore?       sig         NAIGnore:HSMode       sea         :SEARch<x>:I2CBus[:SETup]:       Set         NAIGnore:RACCess       sig         :SEARch<x>:I2CBus[:SETup]:       Set         NAIGnore:SBYTe       sea         :SEARch<x>:I2CBus[:SETup]:       Qu         SBHSmode?       bus         :SEARch<x>:I2CBus[:SETup]:       Set         SBHSmode:TYPE       sea         :SEARch<x>:LINBus?       Qu         :SEARch<x>:LINBus:SETup?       Qu</x></x></x></x></x></x></x></x></x></x></x>	ets the 7-bit master address of the general call of the I <sup>2</sup> C bus signal earch in hexadecimal notation.  ets the 7-bit master address of the general call of the I <sup>2</sup> C bus signal earch in binary notation or queries the current setting.  ets the second byte type of the general call of the I <sup>2</sup> C bus signal search or ueries the current setting.  ets the search mode of the I <sup>2</sup> C bus signal search or queries the current etting.  ets the search mode of the I <sup>2</sup> C bus signal search or queries the current etting.  ueries all settings related to the NON ACK ignore mode of the I <sup>2</sup> C bus gnal search.  ets whether to ignore NON ACK in high speed mode of the I <sup>2</sup> C bus signal earch or queries the current setting.  ets whether to ignore NON ACK in read access mode of the I <sup>2</sup> C bus gnal search or queries the current setting.  ets whether to ignore NON ACK in the start byte of the I <sup>2</sup> C bus signal earch or queries the current setting.  ueries all settings related to the start byte and high speed mode of the I <sup>2</sup> C bus signal search.  ets the type of the start byte or high speed mode of the I <sup>2</sup> C bus signal earch or queries the current setting.	5-246 5-247 5-247 5-247 5-247 5-247
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BIT7maddress:PATTern         Set           :SEARch <x>:I2CBus[:SETup]:GCALl:         Set           SBYTE         que           :SEARch<x>:I2CBus[:SETup]:MODE         Set           set         set           :SEARch<x>:I2CBus[:SETup]:         Qu           NAIGnore:         Set           NAIGnore:HSMode         set           :SEARch<x>:I2CBus[:SETup]:         Set           NAIGnore:RACCess         sigt           :SEARch<x>:I2CBus[:SETup]:         Set           NAIGnore:SBYTe         set           :SEARch<x>:I2CBus[:SETup]:         Qu           SBHSmode?         bus           :SEARch<x>:I2CBus[:SETup]:         Set           SBHSmode:TYPE         set           :SEARch<x>:LINBus?         Qu           :SEARch<x>:LINBus:SETup?         Qu</x></x></x></x></x></x></x></x></x>	earch in binary notation or queries the current setting.  Lets the second byte type of the general call of the I <sup>2</sup> C bus signal search or pueries the current setting.  Lets the search mode of the I <sup>2</sup> C bus signal search or queries the current setting.  Lets the search mode of the I <sup>2</sup> C bus signal search or queries the current setting.  Lets whether to ignore NON ACK in high speed mode of the I <sup>2</sup> C bus signal search or queries the current setting.  Lets whether to ignore NON ACK in read access mode of the I <sup>2</sup> C bus signal search or queries the current setting.  Lets whether to ignore NON ACK in the start byte of the I <sup>2</sup> C bus signal search or queries the current setting.  Lets whether to ignore NON ACK in the start byte of the I <sup>2</sup> C bus signal search or queries the current setting.  Lets whether to ignore NON ACK in the start byte of the I <sup>2</sup> C bus signal search or queries the current setting.  Lets whether to ignore NON ACK in the start byte of the I <sup>2</sup> C bus signal search or queries the current setting.  Lets the type of the start byte or high speed mode of the I <sup>2</sup> C bus signal search or queries the current setting.	5-246 5-247 5-247 5-247 5-247 5-247
:SEARch <x>:I2CBus [:SETup] :GCALl :       Set         SBYTE       que         :SEARch<x>:I2CBus [:SETup] :MODE       Set         :SEARch<x>:I2CBus [:SETup] :       Qu         NAIGnore?       sig         :SEARch<x>:I2CBus [:SETup] :       Set         NAIGnore:HSMode       see         :SEARch<x>:I2CBus [:SETup] :       Set         NAIGnore:RACCess       sig         :SEARch<x>:I2CBus [:SETup] :       Set         NAIGnore:SBYTe       see         :SEARch<x>:I2CBus [:SETup] :       Qu         SBHSmode?       bus         :SEARch<x>:I2CBus [:SETup] :       Set         SBHSmode:TYPE       see         :SEARch<x>:LINBus?       Qu         :SEARch<x>:LINBus:SETup?       Qu</x></x></x></x></x></x></x></x></x></x>	ets the second byte type of the general call of the I <sup>2</sup> C bus signal search or puries the current setting.  ets the search mode of the I <sup>2</sup> C bus signal search or queries the current setting.  ueries all settings related to the NON ACK ignore mode of the I <sup>2</sup> C bus gnal search.  ets whether to ignore NON ACK in high speed mode of the I <sup>2</sup> C bus signal search or queries the current setting.  ets whether to ignore NON ACK in read access mode of the I <sup>2</sup> C bus gnal search or queries the current setting.  ets whether to ignore NON ACK in the start byte of the I <sup>2</sup> C bus signal search or queries the current setting.  ets whether to ignore NON ACK in the start byte of the I <sup>2</sup> C bus signal search or queries the current setting.  ueries all settings related to the start byte and high speed mode of the I <sup>2</sup> C bus signal search.  ets the type of the start byte or high speed mode of the I <sup>2</sup> C bus signal search or queries the current setting.	5-247 5-247 5-247 5-247 5-247
:SEARch <x>:I2CBus [:SETup] : MODE       Set         :SEARch<x>:I2CBus [:SETup] :       Qu         NAIGnore?       sig         :SEARch<x>:I2CBus [:SETup] :       Set         NAIGnore:HSMode       see         :SEARch<x>:I2CBus [:SETup] :       Set         NAIGnore:RACCess       sig         :SEARch<x>:I2CBus [:SETup] :       Set         NAIGnore:SBYTe       see         :SEARch<x>:I2CBus [:SETup] :       Qu         SBHSmode?       bus         :SEARch<x>:I2CBus [:SETup] :       Set         SBHSmode:TYPE       see         :SEARch<x>:LINBus?       Qu         :SEARch<x>:LINBus:SETup?       Qu</x></x></x></x></x></x></x></x></x>	ets the search mode of the I <sup>2</sup> C bus signal search or queries the current etting.  ueries all settings related to the NON ACK ignore mode of the I <sup>2</sup> C bus gnal search.  ets whether to ignore NON ACK in high speed mode of the I <sup>2</sup> C bus signal earch or queries the current setting.  ets whether to ignore NON ACK in read access mode of the I <sup>2</sup> C bus gnal search or queries the current setting.  ets whether to ignore NON ACK in the start byte of the I <sup>2</sup> C bus signal earch or queries the current setting.  ueries all settings related to the start byte and high speed mode of the I <sup>2</sup> C us signal search.  ets the type of the start byte or high speed mode of the I <sup>2</sup> C bus signal earch or queries the current setting.	5-247 5-247 5-247 5-247
:SEARch <x>:I2CBus[:SETup]:       Qu         NAIGnore?       sig         :SEARch<x>:I2CBus[:SETup]:       Set         NAIGnore:HSMode       see         :SEARch<x>:I2CBus[:SETup]:       Set         NAIGnore:RACCess       sig         :SEARch<x>:I2CBus[:SETup]:       Set         NAIGnore:SBYTe       see         :SEARch<x>:I2CBus[:SETup]:       Qu         SBHSmode?       bus         :SEARch<x>:I2CBus[:SETup]:       Set         SBHSmode:TYPE       see         :SEARch<x>:LINBus?       Qu         cur       :SEARch<x>:LINBus:SETup?       Qu</x></x></x></x></x></x></x></x>	ueries all settings related to the NON ACK ignore mode of the I <sup>2</sup> C bus gnal search.  ets whether to ignore NON ACK in high speed mode of the I <sup>2</sup> C bus signal earch or queries the current setting.  ets whether to ignore NON ACK in read access mode of the I <sup>2</sup> C bus gnal search or queries the current setting.  ets whether to ignore NON ACK in the start byte of the I <sup>2</sup> C bus signal earch or queries the current setting.  ueries all settings related to the start byte and high speed mode of the I <sup>2</sup> C us signal search.  ets the type of the start byte or high speed mode of the I <sup>2</sup> C bus signal earch or queries the current setting.	5-247 5-247 5-247
:SEARch <x>:12CBus[:SETup]:       Set         NAIGnore:HSMode       see         :SEARch<x>:12CBus[:SETup]:       Set         NAIGnore:RACCess       sig         :SEARch<x>:12CBus[:SETup]:       Set         NAIGnore:SBYTe       see         :SEARch<x>:12CBus[:SETup]:       Qu         SBHSmode?       bus         :SEARch<x>:12CBus[:SETup]:       Set         SBHSmode:TYPE       see         :SEARch<x>:LINBus?       Qu         cur       :SEARch<x>:LINBus:SETup?       Qu</x></x></x></x></x></x></x>	ets whether to ignore NON ACK in high speed mode of the I <sup>2</sup> C bus signal earch or queries the current setting.  ets whether to ignore NON ACK in read access mode of the I <sup>2</sup> C bus gnal search or queries the current setting.  ets whether to ignore NON ACK in the start byte of the I <sup>2</sup> C bus signal earch or queries the current setting.  ueries all settings related to the start byte and high speed mode of the I <sup>2</sup> C us signal search.  ets the type of the start byte or high speed mode of the I <sup>2</sup> C bus signal earch or queries the current setting.	5-247 5-247
NAIGnore:HSMode         sea           :SEARch <x>:I2CBus[:SETup]:         Set           NAIGnore:RACCess         sig           :SEARch<x>:I2CBus[:SETup]:         Set           NAIGnore:SBYTE         sea           :SEARch<x>:I2CBus[:SETup]:         Qu           SBHSmode?         bus           :SEARch<x>:I2CBus[:SETup]:         Set           SBHSmode:TYPE         sea           :SEARch<x>:LINBus?         Qu           :SEARch<x>:LINBus:SETup?         Qu</x></x></x></x></x></x>	earch or queries the current setting.  Lets whether to ignore NON ACK in read access mode of the I <sup>2</sup> C bus gnal search or queries the current setting.  Lets whether to ignore NON ACK in the start byte of the I <sup>2</sup> C bus signal earch or queries the current setting.  Lets whether to ignore NON ACK in the start byte of the I <sup>2</sup> C bus signal earch or queries the current setting.  Lets all settings related to the start byte and high speed mode of the I <sup>2</sup> C bus signal search.  Lets the type of the start byte or high speed mode of the I <sup>2</sup> C bus signal earch or queries the current setting.	5-247 5-247
NAIGnore:RACCess         sig           :SEARch <x>:I2CBus[:SETup]:         Set           NAIGnore:SBYTe         sea           :SEARch<x>:I2CBus[:SETup]:         Qu           SBHSmode?         bus           :SEARch<x>:I2CBus[:SETup]:         Set           SBHSmode:TYPE         sea           :SEARch<x>:LINBus?         Qu           :SEARch<x>:LINBus:SETup?         Qu</x></x></x></x></x>	gnal search or queries the current setting.  ets whether to ignore NON ACK in the start byte of the I <sup>2</sup> C bus signal earch or queries the current setting.  ueries all settings related to the start byte and high speed mode of the I <sup>2</sup> C us signal search.  ets the type of the start byte or high speed mode of the I <sup>2</sup> C bus signal earch or queries the current setting.	5-247
NAIGnore:SBYTe         sea           :SEARch <x>:I2CBus[:SETup]:         Qu           SBHSmode?         bus           :SEARch<x>:I2CBus[:SETup]:         Set           SBHSmode:TYPE         sea           :SEARch<x>:LINBus?         Qu           :SEARch<x>:LINBus:SETup?         Qu</x></x></x></x>	earch or queries the current setting.  ueries all settings related to the start byte and high speed mode of the I <sup>2</sup> C us signal search.  ets the type of the start byte or high speed mode of the I <sup>2</sup> C bus signal earch or queries the current setting.	
:SEARch <x>:I2CBus[:SETup]:       Qu         :SBHSmode?       bus         :SEARch<x>:I2CBus[:SETup]:       Set         SBHSmode:TYPE       ses         :SEARch<x>:LINBus?       Qu         :SEARch<x>:LINBus:SETup?       Qu</x></x></x></x>	ueries all settings related to the start byte and high speed mode of the I <sup>2</sup> C us signal search.  ets the type of the start byte or high speed mode of the I <sup>2</sup> C bus signal earch or queries the current setting.	5-247
:SEARch <x>:I2CBus[:SETup]: Set SBHSmode:TYPE :SEARch<x>:LINBus? Qui cur :SEARch<x>:LINBus:SETup? Qui</x></x></x>	ets the type of the start byte or high speed mode of the I <sup>2</sup> C bus signal earch or queries the current setting.	1
:SEARch <x>:LINBus?  cur :SEARch<x>:LINBus:SETup?  Qu</x></x>		5-247
cur :SEARch <x>:LINBus:SETup? Qu</x>	uorios all sottings rolated to the LIN bus signal search or queries the	
	urrent setting.	5-248
	ueries all settings related to setup of the LIN bus signal search or queries e current setting.	5-248
	-	5-248
:SEARch <x>:LINBus[:SETup]:BRATe Set</x>		5-248
:SEARch <x>:LINBus[:SETup]:DATA? Qu</x>	ueries all settings related to data of the LIN bus signal search or queries	5-248
:SEARch <x>:LINBus[:SETup]:DATA: Set</x>	e current setting. ets the number of LIN bus signal search data bytes or queries the current	5-248
:SEARch <x>:LINBus[:SETup]:DATA: Set</x>	etting. ets the data byte order of the LIN bus signal search or queries the current	5-248
	etting.	5.040
CONDition	·	5-249
	ets the comparison data of the LIN bus signal search data or queries the urrent setting.	5-249
	-	5-249
:SEARch <x>:LINBus[:SETup]:DATA: Set</x>		5-249
	etting. ets the LIN bus signal search data in binary or queries the current setting.	5-249
PATTern :SEARch <x>:LINBus[:SETup]:DATA: Set</x>	ets the data sign of the LIN bus signal search or queries the current	5-249
	etting.	
:SEARch <x>:LINBus[:SETup]:ERRor? Qu</x>	ueries all settings related to the LIN bus signal search error .	5-249
	ets the LIN bus signal search Checksum error or queries the current etting.	5-250
	8	5-250
:SEARch <x>:LINBus[:SETup]:ERRor: Set</x>	ets the LIN bus signal search Parity error or queries the current setting.	5-250
	ets the LIN bus signal search Synch error or queries the current setting.	5-250
	ets the LIN bus signal search Timeout error or queries the current setting.	5-250
TOUT :SEARch <x>:LINBus[:SETup]:ID? Qu</x>	ueries all settings related to ID of the LIN bus signal search or queries the	5-250
	urrent setting. ets the LIN bus signal search ID in hexadecimal.	5-250

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Command	Function	Page
:SEARch <x>:LINBus[:SETup]:ID: PATTern</x>	Sets the LIN bus signal search ID in binary or queries the current setting.	5-250
:SEARch <x>:LINBus[:SETup]:MODE</x>	Sets the LIN bus signal search mode or queries the current setting.	5-250
:SEARch <x>:LINBus[:SETup]: REVision</x>	Sets the LIN bus signal search revision (1.3 or 2.0) or queries the current setting.	5-251
:SEARch <x>:LINBus[:SETup]:SPOint</x>	Sets the LIN bus signal search sampling point or queries the current setting.	5-251
:SEARch <x>:LINBus[:SETup]:TRACe</x>	Sets the LIN bus signal search trace or queries the current setting.	5-251
:SEARch <x>:LOGic</x>	Sets the search logic or queries the current setting.	5-251
:SEARch <x>:MARK</x>	Turns ON/OFF the search mark or queries the current setting.	5-251
:SEARch <x>:POLarity</x>	Sets the search polarity or queries the current setting.	5-251
:SEARch <x>:SELect</x>	Sets the detection waveform number of the search function or queries the current setting.	5-251
:SEARch <x>:SELect? MAXimum</x>	Queries the detection count of the search function.	5-251
:SEARch <x>:SLOGic?</x>	Queries all settings related to the logic search.	5-252
:SEARch <x>:SLOGic:CLOCk?</x>	Queries all settings related to the logic search clock.	5-252
:SEARch <x>:SLOGic:CLOCk:POLarity</x>	Sets the polarity of the clock of the logic search or queries the current setting.	5-252
:SEARch <x>:SLOGic:CLOCk:SOURce</x>	Sets the clock for the logic search or queries the current setting.	5-252
:SEARch <x>:SLOGic:I2CBus?</x>	Queries all settings related to the logic I <sup>2</sup> C bus signal search.	5-253
:SEARch <x>:SLOGic:I2CBus:CLOCk?</x>	Queries all settings related to the clock channel of the logic I <sup>2</sup> C bus signal search.	5-253
:SEARch <x>:SLOGic:I2CBus:CLOCk: SOURce</x>	Sets the clock channel of the logic I <sup>2</sup> C bus signal search or queries the current setting.	5-253
:SEARch <x>:SLOGic:I2CBus[:SETup]?</x>	Queries all settings related to the setup of the logic I <sup>2</sup> C bus signal search.	5-253
:SEARch <x>:SLOGic:I2CBus[:SETup]: ADATa?</x>	Queries all settings related to the address of the logic I <sup>2</sup> C bus signal search.	5-253
:SEARch <x>:SLOGic:I2CBus[:SETup]: ADATa:BIT10address?</x>	Queries all settings related to the 10-bit address of the logic I <sup>2</sup> C bus signal search.	5-254
:SEARch <x>:SLOGic:I2CBus[:SETup]: ADATa:BIT10address:HEXA</x>	Sets the 10-bit address of the logic I <sup>2</sup> C bus signal search in hexadecimal notation.	5-254
:SEARch <x>:SLOGic:I2CBus[:SETup]: ADATa:BIT10address:PATTern</x>	Sets the 10-bit address of the logic I <sup>2</sup> C bus signal search in binary notation or queries the current setting.	5-254
:SEARch <x>:SLOGic:I2CBus[:SETup]: ADATa:BIT7ADdress?</x>	Queries all settings related to the 7-bit address of the logic I <sup>2</sup> C bus signal search.	5-254
:SEARch <x>:SLOGic:I2CBus[:SETup]: ADATa:BIT7ADdress:HEXA</x>	Sets the 7-bit address of the logic I <sup>2</sup> C bus signal search in hexadecimal notation.	5-254
:SEARch <x>:SLOGic:I2CBus[:SETup]: ADATa:BIT7ADdress:PATTern</x>	Sets the 7-bit address of the logic I <sup>2</sup> C bus signal search in binary notation or queries the current setting.	5-254
:SEARch <x>:SLOGic:I2CBus[:SETup]: ADATa:BIT7APsub?</x>	Queries all settings related to the 7-bit address + Sub address of the logic I <sup>2</sup> C bus signal search.	5-254
:SEARch <x>:SLOGic:I2CBus[:SETup]: ADATa:BIT7APsub:ADDRess?</x>	Queries all settings related to the 7-bit address of the 7-bit address + Sub address of the logic I <sup>2</sup> C bus signal search.	5-255
:SEARch <x>:SLOGic:I2CBus[:SETup]: ADATa:BIT7APsub:ADDRess:HEXA</x>	Sets the 7-bit address of the 7-bit address + Sub address of the logic I <sup>2</sup> C bus signal search in hexadecimal notation.	5-255
:SEARch <x>:SLOGic:I2CBus[:SETup]: ADATa:BIT7APsub:ADDRess:PATTern</x>	Sets the 7-bit address of the 7-bit address + Sub address of the logic I <sup>2</sup> C bus signal search in binary notation or queries the current setting.	5-255
:SEARch <x>:SLOGic:I2CBus[:SETup]: ADATa:BIT7APsub:SADDress?</x>	Queries all settings related to the Sub address of the 7-bit address + Sub address of the logic I <sup>2</sup> C bus signal search.	5-255
:SEARch <x>:SLOGic:I2CBus[:SETup]: ADATa:BIT7APsub:SADDress:HEXA</x>	Sets the Sub address of the 7-bit address + Sub address of the logic I <sup>2</sup> C bus signal search in hexadecimal notation.	5-255
:SEARch <x>:SLOGic:I2CBus[:SETup]: ADATa:BIT7APsub:SADDress:PATTern</x>	Sets the Sub address of the 7-bit address + Sub address of the logic I <sup>2</sup> C bus signal search in binary notation or queries the current setting.	5-255
:SEARch <x>:SLOGic:I2CBus[:SETup]: ADATa:TYPE</x>	Sets the address type of the logic I <sup>2</sup> C bus signal search or queries the current setting.	5-256
:SEARch <x>:SLOGic:I2CBus[:SETup]: DATA?</x>	Queries all settings related to the data of the logic I <sup>2</sup> C bus signal search.	5-256
:SEARch <x>:SLOGic:I2CBus[:SETup]: DATA:BYTE</x>	Sets the number of setup data bytes of the logic I <sup>2</sup> C bus signal search or queries the current setting.	5-256
:SEARch <x>:SLOGic:I2CBus[:SETup]: DATA:CONDition</x>	Sets the determination method (match or not match) of the data of the logic $I^2C$ bus signal search or queries the current setting.	5-256
:SEARch <x>:SLOGic:I2CBus[:SETup]: DATA:DPOSition</x>	Sets the position for comparing the data pattern of the logic I <sup>2</sup> C bus signal search or queries the current setting.	5-256

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Command	Function	Page
:SEARch <x>:SLOGic:I2CBus[:SETup]:</x>	Sets the data of the logic I <sup>2</sup> C bus signal search in hexadecimal notation.	5-256
DATA: HEXA <x></x>		
:SEARch <x>:SLOGic:I2CBus[:SETup]: DATA:MODE</x>	Enables/disables the data conditions of the logic I <sup>2</sup> C bus signal search or queries the current setting.	5-257
:SEARch <x>:SLOGic:I2CBus[:SETup]: DATA:PATTern<x></x></x>	Sets the data of the logic I <sup>2</sup> C bus signal search in binary notation or queries the current setting.	5-257
:SEARch <x>:SLOGic:I2CBus[:SETup]:</x>	Sets the pattern comparison start position mode of the logic I <sup>2</sup> C bus signal	5-257
DATA: PMODe : SEARch <x>: SLOGic: I2CBus[:SETup]:</x>	search or queries the current setting.  Sets the data trace of the logic I <sup>2</sup> C bus signal search or queries the current	5-257
DATA:TRACe	setting.	
:SEARch <x>:SLOGic:I2CBus[:SETup]: GCAL1?</x>	Queries all settings related to the general call of the logic I <sup>2</sup> C bus signal search.	5-257
:SEARch <x>:SLOGic:I2CBus[:SETup]: GCALl:BIT7maddress?</x>	Queries all settings related to the 7-bit master address of the general code of the logic I <sup>2</sup> C bus signal search.	5-257
:SEARch <x>:SLOGic:I2CBus[:SETup]:</x>	Sets the 7-bit master address of the general call of the logic I <sup>2</sup> C bus signal	5-257
GCALl:BIT7maddress:HEXA	search in hexadecimal notation.	5-258
:SEARch <x>:SLOGic:I2CBus[:SETup]: GCALl:BIT7maddress:PATTern</x>	Sets the 7-bit master address of the general call of the logic I <sup>2</sup> C bus signal search in binary notation or queries the current setting.	5-256
:SEARch <x>:SLOGic:I2CBus[:SETup]:</x>	Sets the second byte type of the general call of the logic I <sup>2</sup> C bus trigger or	5-258
GCAL1:SBYTe (Second Byte)	queries the current setting.	
:SEARch <x>:SLOGic:I2CBus[:SETup]: MODE</x>	Sets the search mode of the logic I <sup>2</sup> C bus signal search or queries the current setting.	5-258
:SEARch <x>:SLOGic:I2CBus[:SETup]:</x>	Queries all settings related to the NON ACK ignore mode of the logic I <sup>2</sup> C	5-258
NAIGnore?	bus signal search.	5-258
:SEARch <x>:SLOGic:I2CBus[:SETup]: NAIGnore:HSMode</x>	Sets whether to ignore NON ACK in high speed mode of the logic I <sup>2</sup> C bus signal search or queries the current setting.	5-256
:SEARch <x>:SLOGic:I2CBus[:SETup]:</x>		5-258
NAIGnore: RACCess	signal search or queries the current setting.	
:SEARch <x>:SLOGic:I2CBus[:SETup]: NAIGnore:SBYTe (Start Byte)</x>	Sets whether to ignore NON ACK in the start byte of the logic I <sup>2</sup> C bus signal search or queries the current setting.	5-259
:SEARch <x>:SLOGic:I2CBus[:SETup]:</x>	Queries all settings related to the start byte and high speed mode of the	5-259
SBHSmode?	logic I <sup>2</sup> C bus signal search.	
:SEARch <x>:SLOGic:I2CBus[:SETup]: SBHSmode:TYPE</x>	Sets the type of start byte and high speed mode of the logic I <sup>2</sup> C bus signal search or queries the current setting.	5-259
:SEARch <x>:SLOGic:LINBus?</x>	Queries all settings related to the logic LIN bus signal search.	5-259
:SEARch <x>:SLOGic:LINBus[:SETup]?</x>	Queries all settings related to the setup of the logic LIN bus signal search.	5-259
:SEARch <x>:SLOGic:LINBus[:SETup]: BLENgth</x>	Sets the logic LIN bus signal search break length or queries the current setting.	5-259
:SEARch <x>:SLOGic:LINBus[:SETup]:</x>	Sets the bit rate (data transfer rate) of the logic LIN bus signal search or	5-260
BRATe	queries the current setting.	= = = =
:SEARch <x>:SLOGic:LINBus[:SETup]: DATA?</x>	Queries all settings related to the data of the logic LIN bus signal search.	5-260
:SEARch <x>:SLOGic:LINBus[:SETup]:</x>	Sets the number of bytes of the logic LIN bus signal search or queries the	5-260
DATA:BNUM	current setting.	
:SEARch <x>:SLOGic:LINBus[:SETup]: DATA:BORDer</x>	Sets the data byte order of the logic LIN bus signal search or queries the current setting.	5-260
:SEARch <x>:SLOGic:LINBus[:SETup]:</x>	Sets the data condition of the logic LIN bus signal search or queries the	5-260
DATA: CONDition	current setting.	
:SEARch <x>:SLOGic:LINBus[:SETup]: DATA:DATA<x></x></x>	Sets the comparison data of the logic LIN bus signal search data or queries the current setting.	5-261
:SEARch <x>:SLOGic:LINBus[:SETup]:</x>	Sets the data of the logic LIN bus signal search in hexadecimal notation.	5-261
DATA: HEXA		
:SEARch <x>:SLOGic:LINBus[:SETup]: DATA:MSBLsb</x>	Sets the MSB/LSB bit of the logic LIN bus signal search or queries the current setting.	5-261
:SEARch <x>:SLOGic:LINBus[:SETup]:</x>	Sets the data of the logic LIN bus signal search in binary notation or	5-261
DATA: PATTern	queries the current setting.	<u> </u>
:SEARch <x>:SLOGic:LINBus[:SETup]: DATA:SIGN</x>	Sets the data sign of the logic LIN bus signal search or queries the current setting.	5-261
:SEARch <x>:SLOGic:LINBus[:SETup]: ERRor?</x>	Queries all settings related to the logic LIN bus signal search error .	5-262
:SEARch <x>:SLOGic:LINBus[:SETup]:</x>	Sets the logic LIN bus signal search Checksum error or queries the current	5-262
ERRor: CHECksum	setting.	

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Command	Function	Page
:SEARch <x>:SLOGic:LINBus[:SETup]:</x>	Sets the logic LIN bus signal search Framing error or queries the current	5-262
ERRor: FRAMing	setting.	<u> </u>
:SEARch <x>:SLOGic:LINBus[:SETup]:</x>	Sets the logic LIN bus signal search Parity error or queries the current	5-262
<pre>ERROr:PARity :SEARch<x>:SLOGic:LINBus[:SETup]:</x></pre>	setting.  Sets the logic LIN bus signal search Synch error or queries the current	5-262
:SEARCH <x>:SLOGIC:LINBUS[:SEIUP]: ERROr:SYNCh</x>	setting.	3-202
:SEARch <x>:SLOGic:LINBus[:SETup]:</x>	Sets the logic LIN bus signal search Timeout error or queries the current	5-262
ERRor: TOUT	setting.	
:SEARch <x>:SLOGic:LINBus[:SETup]:</x>	Queries all settings related to the ID of the logic LIN bus signal search.	5-262
ID? :SEARch <x>:SLOGic:LINBus[:SETup]:</x>	Sets the ID of the logic LIN bus signal search in hexadecimal notation.	5-263
ID:HEXA	dets the 10 of the logic Life bus signal search in hexadecimal notation.	3-203
:SEARch <x>:SLOGic:LINBus[:SETup]:</x>	Sets the ID of the logic LIN bus signal search in binary notation or queries	5-263
ID:PATTern	the current setting.	
:SEARch <x>:SLOGic:LINBus[:SETup]:</x>	Sets the logic LIN bus signal search mode or queries the current setting.	5-263
MODE	Sate the logic LIN has simple example revision (4.2 or 2.0) or gueries the	F 262
:SEARch <x>:SLOGic:LINBus[:SETup]: REVision</x>	Sets the logic LIN bus signal search revision (1.3 or 2.0) or queries the current setting.	5-263
:SEARch <x>:SLOGic:LINBus[:SETup]:</x>	Sets the logic LIN bus signal search sampling point or queries the current	5-263
SPOint	setting.	
:SEARch <x>:SLOGic:LINBus[:SETup]:</x>	Sets the trace of the logic LIN bus signal search or queries the current	5-263
TRACe	setting.	
:SEARch <x>:SLOGic:POLarity</x>	Sets the logic search polarity or queries the current setting.	5-263
:SEARch <x>:SLOGic:SOURce</x>	Sets the logic search source or queries the current setting.	5-264
:SEARch <x>:SLOGic:SPATtern?</x>	Queries all settings related to logic serial pattern search.	5-264
(Serial Pattern)		
:SEARch <x>:SLOGic:SPATtern:CLOCk?</x>	Queries all settings related to the clock for the logic serial pattern search.	5-264
:SEARch <x>:SLOGic:SPATtern:CLOCk: MODE</x>	Enables/disables the clock for the logic serial analysis pattern search or queries the current setting.	5-264
:SEARch <x>:SLOGic:SPATtern:CLOCk:</x>	Sets the polarity of the clock trace of the logic serial pattern search or	5-264
POLarity	queries the current setting.	
:SEARch <x>:SLOGic:SPATtern:CLOCk: SOURce</x>	Sets the clock trace for the logic serial pattern search or queries the current setting.	5-264
:SEARch <x>:SLOGic:SPATtern:CS</x>	Enables/disables the chip select for the logic serial analysis pattern search	5-264
	or queries the current setting.	
:SEARch <x>:SLOGic:SPATtern:LATCh?</x>	Queries all settings related to the latch for the logic serial pattern search.	5-265
:SEARch <x>:SLOGic:SPATtern:LATCh:</x>	Sets the polarity of the latch trace of the logic serial pattern search or	5-265
POLarity	queries the current setting.	
:SEARch <x>:SLOGic:SPATtern:LATCh: TRACe</x>	Sets the latch trace for the logic serial pattern search or queries the current setting.	5-265
:SEARch <x>:SLOGic:</x>	Queries all settings related to the setup for the logic serial pattern search.	5-265
SPATtern[:SETup]?		
:SEARch <x>:SLOGic:</x>	Sets the bit rate for the logic serial pattern search or queries the current	5-265
SPATtern[:SETup]:BITRate	setting.	
:SEARch <x>:SLOGic:</x>	Clears (Don't care) all patterns of the logic serial pattern search.	5-265
SPATtern[:SETup]:CLEar :SEARch <x>:SLOGic:</x>	Queries all settings related to the data for the logic serial pattern search.	5-265
SPATtern[:SETup]:DATA?	queries all settings related to the data for the logic serial pattern search.	3-203
:SEARch <x>:SLOGic:</x>	Sets the active trace level of the data for the logic serial pattern search or	5-266
SPATtern[:SETup]:DATA:ACTive	queries the current setting.	
:SEARch <x>:SLOGic:</x>	Sets the trace of the data for the logic serial pattern search or queries the	5-266
SPATtern[:SETup]:DATA:TRACe :SEARch <x>:SLOGic:</x>	current setting.  Sets the pattern of the logic serial pattern search in hexadecimal notation.	5-266
:SEARCH <x>:SLOGIC:  SPATtern[:SETup]:HEXA</x>	octo the pattern of the logic serial pattern search in hexadecimal notation.	3-200
:SEARch <x>:SLOGic:</x>	Sets the pattern of the logic serial pattern search in binary notation, or	5-266
SPATtern[:SETup]:PATTern	queries the current setting.	
:SEARch <x>:SLOGic:SPIBus?</x>	Queries all settings related to the logic SPI bus signal search.	5-266
:SEARch <x>:SLOGic:SPIBus:CLOCk?</x>	Queries all settings related to the clock signal channel of the logic SPI bus signal search.	5-266
:SEARch <x>:SLOGic:SPIBus:CLOCk:</x>	Sets the polarity of the clock signal channel of the logic SPI bus signal	5-267
POLarity	search or queries the current setting.	

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# 5.1 A List of Commands

Command	Function	Page
:SEARch <x>:SLOGic:SPIBus:CLOCk:</x>	Sets the clock signal channel of the logic SPI bus signal search or queries the current setting.	5-267
:SEARch <x>:SLOGic:SPIBus:CS?</x>	Queries all settings related to the chip select signal channel of the logic SPI bus signal search.	5-267
:SEARch <x>:SLOGic:SPIBus:CS:</x>	Sets the active level of the chip select signal channel of the logic SPI bus signal search or queries the current setting.	5-267
:SEARch <x>:SLOGic:SPIBus:CS:TRACe</x>	Sets the chip select signal channel of the logic SPI bus signal search or	5-267
:SEARch <x>:SLOGic:SPIBus[:SETup]?</x>	queries the current setting.  Queries all settings related to the setup of the logic SPI bus signal search.	5-267
:SEARch <x>:SLOGic:SPIBus[:SETup]: BITorder</x>	Sets the bit order of the logic SPI bus signal search or queries the current setting.	5-267
:SEARch <x>:SLOGic:SPIBus[:SETup]: DATA<x>?</x></x>	Queries all settings related to each data of the logic SPI bus signal search.	5-268
:SEARch <x>:SLOGic:SPIBus[:SETup]: DATA<x>:BYTE</x></x>	Sets the data size (in bytes) of each data of the logic SPI bus signal search or queries the current setting.	5-268
:SEARch <x>:SLOGic:SPIBus[:SETup]: DATA<x>:CONDition</x></x>	Sets the determination method (match or not match) of the data of the logic SPI bus signal search or queries the current setting.	5-268
:SEARch <x>:SLOGic:SPIBus[:SETup]:</x>	Sets the pattern comparison start position of the logic SPI bus signal	5-268
DATA <x>:DPOSition :SEARch<x>:SLOGic:SPIBus[:SETup]:</x></x>	search or queries the current setting.  Sets the data of the logic SPI bus signal search in hexadecimal notation.	5-268
DATA <x>:HEXA<x> :SEARch<x>:SLOGic:SPIBus[:SETup]:</x></x></x>	Sets the data of the logic SPI bus signal search in binary notation or	5-268
DATA <x>:PATTern<x> :SEARch<x>:SLOGic:SPIBus[:SETup]:</x></x></x>	queries the current setting.  Sets the source channel of each data of the logic SPI bus signal search or	5-269
DATA <x>:TRACe :SEARch<x>:SLOGic:SPIBus[:SETup]:</x></x>	queries the current setting.  Sets the wiring system of the logic SPI bus signal search (three-wire or	5-269
MODE	four-wire) or queries the current setting.	
:SEARch <x>:SLOGic:STATe?</x>	Queries all settings related to the logic state search.	5-269
:SEARch <x>:SLOGic:STATe:BIT?</x>	Queries all settings related to the bits of the logic state search.	5-270
:SEARch <x>:SLOGic:STATe: BIT:{A<x> B<x> C<x> D<x>}</x></x></x></x></x>	Sets the truth conditions for each bit of the logic state search or queries the current setting.	5-270
:SEARch <x>:SLOGic:STATe:BIT:CLEar</x>	Clears (Don't care) all truth conditions for each bit of the logic serial pattern search.	5-270
:SEARch <x>:SLOGic:STATe:BIT:LOGic</x>	Sets the logic of the logic state search or queries the current setting.	5-270
:SEARch <x>:SLOGic:STATe:GROup<x>?</x></x>	Queries all settings related to each group of the logic state search.	5-270
:SEARch <x>:SLOGic:STATe:GROup<x>:</x></x>	Clears (Don't care) all truth conditions for each group of the logic serial	5-270
CLEar	pattern search.	
:SEARch <x>:SLOGic:STATe:GROup<x>: CONDition</x></x>	Sets the determination condition for each group of the logic state search or queries the current setting.	5-270
:SEARch <x>:SLOGic:STATe:GROup<x>: DATA<x></x></x></x>	Sets the comparison data for each group of the logic state search or queries the current setting.	5-271
:SEARch <x>:SLOGic:STATe:GROup<x>:</x></x>	Sets the truth conditions for each group of the logic serial pattern search in hexadecimal notation.	5-271
:SEARch <x>:SLOGic:STATe:GROup<x>: PATTern</x></x>	Sets the truth condition for each group of the logic state search in binary notation or queries the current setting.	5-271
:SEARch <x>:SLOGic:STATe:GROup<x>:</x></x>	Sets the symbol item for each group of the logic state search.	5-271
SYMBol :SEARch <x>:SLOGic:STATe:TYPE</x>	Sets the setting method of the logic state search or queries the current setting.	5-271
:SEARch <x>:SLOGic:UART?</x>	Queries all settings related to the logic UART bus signal search.	5-272
:SEARch <x>:SLOGic:UART:BRATe</x>	Sets the logic UART bus signal search bit rate (data transfer rate) or queries the current setting.	5-272
:SEARch <x>:SLOGic:UART:DATA?</x>	Queries all settings related to data of the logic UART bus signal search .	5-272
:SEARch <x>:SLOGic:UART:DATA: BITorder</x>	Sets the data bit order of the logic UART bus signal search or queries the	5-272
:SEARch <x>:SLOGic:UART:DATA: BITorder :SEARch<x>:SLOGic:UART:DATA:DSIZe</x></x>	Sets the data bit order of the logic UART bus signal search or queries the current setting.  Sets the number of data bytes of the logic UART bus signal search or	5-272
BITorder :SEARch <x>:SLOGic:UART:DATA:DSIZe</x>	Sets the data bit order of the logic UART bus signal search or queries the current setting.  Sets the number of data bytes of the logic UART bus signal search or queries the current setting.	5-272
BITorder :SEARch <x>:SLOGic:UART:DATA:DSIZe :SEARch<x>:SLOGic:UART:DATA:HEXA</x></x>	Sets the data bit order of the logic UART bus signal search or queries the current setting.  Sets the number of data bytes of the logic UART bus signal search or queries the current setting.  Sets the logic UART bus signal search data in hexadecimal.	5-272 5-272
BITOrder :SEARch <x>:SLOGic:UART:DATA:DSIZe :SEARch<x>:SLOGic:UART:DATA:HEXA :SEARch<x>:SLOGic:UART:DATA: PATTern</x></x></x>	Sets the data bit order of the logic UART bus signal search or queries the current setting.  Sets the number of data bytes of the logic UART bus signal search or queries the current setting.  Sets the logic UART bus signal search data in hexadecimal.  Sets the data of the logic UART bus signal search in binary or queries the current setting.	5-272 5-272 5-272
BITorder :SEARch <x>:SLOGic:UART:DATA:DSIZe :SEARch<x>:SLOGic:UART:DATA:HEXA :SEARch<x>:SLOGic:UART:DATA:</x></x></x>	Sets the data bit order of the logic UART bus signal search or queries the current setting.  Sets the number of data bytes of the logic UART bus signal search or queries the current setting.  Sets the logic UART bus signal search data in hexadecimal.  Sets the data of the logic UART bus signal search in binary or queries the	5-272 5-272 5-272 5-272

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Command	Function	Page
:SEARch <x>:SLOGic:UART:ERRor: PARity</x>	Sets the logic UART bus signal search Parity error or queries the current setting.	5-273
:SEARch <x>:SLOGic:UART:ERRor:</x>	Sets the logic UART bus signal search Parity mode or queries the current	5-273
PMODe	setting.	5.070
:SEARch <x>:SLOGic:UART:FORMat</x>	Sets the logic UART bus signal search format or queries the current setting.	+
:SEARch <x>:SLOGic:UART:MODE</x>	Sets the logic UART bus signal search mode or queries the current setting.	5-273
:SEARch <x>:SLOGic:UART:POLarity</x>	Sets the logic UART bus signal search polarity or queries the current setting.	5-273
:SEARch <x>:SLOGic:UART:TRACe</x>	Sets the logic UART bus signal search trace or queries the current setting.	5-273
:SEARch <x>:SLOGic:UART:SPOint</x>	Sets the logic UART bus signal search sampling point or queries the current setting.	5-273
:SEARch <x>:SLOGic:WIDTh?</x>	Queries all settings of the logic pulse width search.	5-273
:SEARch <x>:SLOGic:WIDTh:MODE</x>	Sets the determination mode of the logic pulse width search or queries the current setting.	5-274
:SEARch <x>:SLOGic:WIDTh:TIME<x></x></x>	Sets the pulse width of the logic pulse width search or queries the current setting.	5-274
:SEARch <x>:SLOGic:WIDTh:TYPE</x>	Sets the logic pulse width search type or queries the current setting.	5-274
:SEARch <x>:SMODe</x>	Sets the skip mode or queries the current setting.	5-274
:SEARch <x>:SPATtern?</x>	Queries all settings related to the serial pattern search.	5-274
:SEARch <x>:SPATtern:CLOCk?</x>	Queries all settings related to clock of the serial pattern search.	5-274
:SEARch <x>:SPATtern:CLOCk:MODE</x>	Enables/Disables the clock of the serial pattern search or queries the current setting.	5-274
:SEARch <x>:SPATtern:CLOCk: POLarity</x>	Sets the polarity of the clock trace of the serial pattern search or queries the current setting.	5-274
:SEARch <x>:SPATtern:CLOCk:SOURce</x>	Sets the clock trace of the serial pattern search or queries the current setting.	5-275
:SEARch <x>:SPATtern:CS</x>	Enables/Disables the chip select of the serial pattern search or queries the current setting.	5-275
:SEARch <x>:SPATtern:LATCh?</x>	Queries all settings related to latch of the serial pattern search.	5-275
:SEARch <x>:SPATtern:LATCh:</x>	Sets the polarity of the latch trace of the serial pattern search or queries the	5-275
POLarity	current setting.	
:SEARch <x>:SPATtern:LATCh:TRACe</x>	Sets the latch trace of the serial pattern search or queries the current setting.	5-275
:SEARch <x>:SPATtern:SETup?</x>	Queries all settings related to setup of the serial pattern search.	5-275
:SEARch <x>:SPATtern[:SETup]: BITRate</x>	Sets the bit rate of the serial pattern search or queries the current setting.	5-275
:SEARch <x>:SPATtern[:SETup]:CLEar</x>	Clears the entire pattern of the serial pattern search.	5-275
:SEARch <x>:SPATtern[:SETup]:DATA?</x>	Queries all settings related to data of the serial pattern search.	5-275
:SEARch <x>:SPATtern[:SETup]:DATA: ACTive</x>	Sets the active level of the data trace of the serial pattern search or queries the current setting.	5-276
:SEARch <x>:SPATtern[:SETup]:DATA: TRACe</x>	Sets the data trace of the serial pattern search or queries the current setting.	5-276
:SEARch <x>:SPATtern[:SETup]:HEXA</x>	Sets the pattern of the serial pattern search in hexadecimal notation.	5-276
:SEARch <x>:SPATtern[:SETup]: PATTern</x>	Sets the pattern of the serial pattern search in binary notation or queries the current setting.	5-276
:SEARch <x>:SPIBus?</x>	Queries all settings related to the SPI bus signal search.	5-276
:SEARch <x>:SPIBus:CLOCk</x>	Queries all settings related to the clock channel of the SPI bus signal search.	5-276
:SEARch <x>:SPIBus:CLOCk:POLarity</x>	Sets the polarity of the clock channel of the SPI bus signal search or	5-276
:SEARch <x>:SPIBus:CLOCk:SOURce</x>	queries the current setting.  Sets the clock channel of the SPI bus signal search or queries the current	5-276
:SEARch <x>:SPIBus:CS?</x>	Queries all settings related to the chip select channel of the SPI bus signal	5-277
:SEARch <x>:SPIBus:CS:ACTive</x>	search.  Sets the active level of the chip select channel of the SPI bus signal search or queries the current setting.	5-277
:SEARch <x>:SPIBus:CS:TRACe</x>	Sets the chip select channel of the SPI bus signal search or queries the current setting.	5-277
:SEARch <x>:SPIBus:SETup?</x>	Queries all settings related to the SPI bus signal search setup.	5-277
:SEARch <x>:SPIBus[:SETup]:</x>	Sets the bit order of the SPI bus signal search or queries the current	5-277
BITorder	setting.	

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Command	Function	Page
:SEARch <x>:SPIBus[:SETup]:</x>	Queries all settings related to the data of the SPI bus signal search.	5-277
DATA <x>?</x>		
:SEARch <x>:SPIBus[:SETup]: DATA<x>:BYTE</x></x>	Sets the number of bytes of the data of the SPI bus signal search or queries the current setting.	5-277
:SEARch <x>:SPIBus[:SETup]:</x>	Sets the determination method (match or not match) of the data of the SPI	5-278
DATA <x>: CONDition</x>	bus signal search or queries the current setting.	
:SEARch <x>:SPIBus[:SETup]: DATA<x>:DPOSition</x></x>	Sets the pattern comparison start position of the data of the SPI bus signal search or queries the current setting.	5-278
:SEARch <x>:SPIBus[:SETup]:</x>	Sets the data of the SPI bus signal search in hexadecimal notation.	5-278
DATA <x>:HEXA<x></x></x>		
:SEARch <x>:SPIBus[:SETup]: DATA<x>:PATTern<x></x></x></x>	Sets the data of the SPI bus signal search in binary notation or queries the current setting.	5-278
:SEARch <x>:SPIBus[:SETup]: DATA<x>:TRACe</x></x>	Sets the source channel of the data of the SPI bus signal search or queries the current setting.	5-278
:SEARch <x>:SPIBus[:SETup]:MODE</x>	Sets the wiring system of the SPI bus signal search (three-wire or four-wire) or queries the current setting.	5-278
:SEARch <x>:SPOint</x>	Sets the search start position or queries the current setting.	5-279
:SEARch <x>:STRace</x>	Sets the search source trace or queries the current setting.	5-279
:SEARch <x>:TRACe<x>?</x></x>	Queries all settings related to the search conditions of the trace.	5-279
:SEARch <x>:TRACe<x>:CONDition</x></x>	Sets the condition to be satisfied for the trace or queries the current setting.	5-279
:SEARch <x>:TRACe<x>:HYSTeresis</x></x>	Sets the hysteresis of the trace or queries the current setting.	5-279
:SEARch <x>:TRACe<x>:LEVel</x></x>	Sets the threshold level of the trace or queries the current setting.	5-279
:SEARch <x>:TYPE</x>	Sets the search type or queries the current setting.	5-279
:SEARch <x>:UART?</x>	Queries all settings related to the UART bus signal search.	5-279
:SEARch <x>:UART:BRATe</x>	Sets the UART bus signal search bit rate (data transfer rate) or queries the current setting.	5-280
:SEARch <x>:UART:DATA?</x>	Queries all settings related to data of the UART bus signal search .	5-280
:SEARch <x>:UART:DATA:BITorder</x>	Sets the data bit order of the UART bus signal search or queries the current setting.	5-280
:SEARch <x>:UART:DATA:DSIZe</x>	Sets the number of data bytes of the UART bus signal search or queries the current setting.	5-280
:SEARch <x>:UART:DATA:HEXA</x>	Sets the UART bus signal search data in hexadecimal.	5-280
:SEARch <x>:UART:DATA:PATTern</x>	Sets the data of the UART bus signal search in binary or queries the current setting.	5-280
:SEARch <x>:UART:ERRor?</x>	Queries all settings related to the UART bus signal search error .	5-280
:SEARch <x>:UART:ERRor:FRAMing</x>	Sets the UART bus signal search Framing error or queries the current setting.	5-280
:SEARch <x>:UART:ERRor:PARity</x>	Sets the UART bus signal search Parity error or queries the current setting.	5-280
:SEARch <x>:UART:ERRor:PMODe</x>	Sets the UART bus signal search Parity mode or queries the current setting.	5-281
:SEARch <x>:UART:FORMat</x>	Sets the UART bus signal search format or queries the current setting.	5-281
:SEARch <x>:UART:MODE</x>	Sets the UART bus signal search mode or queries the current setting.	5-281
:SEARch <x>:UART:POLarity</x>	Sets the UART bus signal search polarity or queries the current setting.	5-281
:SEARch <x>:UART:TRACe</x>	Sets the UART bus signal search trace or queries the current setting.	5-281
:SEARch <x>:UART:SPOint</x>	Sets the UART bus signal search sample point or queries the current setting.	5-281
:SEARch <x>:WIDTh?</x>	Queries all settings related to the pulse width search.	5-281
:SEARch <x>:WIDTh:MODE</x>	Sets the pulse width determination mode or queries the current setting.	5-281
:SEARch <x>:WIDTh:TIME<x></x></x>	Sets the pulse width of the pulse width search or queries the current setting.	5-281
:SEARch <x>:WIDTh:TYPE</x>	Sets the pulse width search type or queries the current setting.	5-281
SERialbus Group	The second secon	1
:SERialbus?	Queries all settings related to the serial bus setup.	5-282
:SERialbus:SETup <x>?</x>	Queries all settings related to each setup of the serial bus setup.	5-282
:SERialbus:SETup <x>:ASETup:ABORt</x>	Cancels auto setup of the serial bus setup.	5-282
:SERialbus:SETup <x>:ASETup: EXECute</x>	Executes auto setup of the serial bus setup.	5-282
:SERialbus:SETup <x>:ASETup:UNDO</x>	Undoes the executed auto setup of the serial bus setup.	5-283
:SERialbus:SETup <x>:CANBus?</x>	Queries all settings related to the CAN bus setup.	5-283
:SERialbus:SETup <x>:CANBus:BRATe</x>	Sets the CAN bus setup bit rate (data transfer rate) or queries the current	5-283
	setting.	

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Command	Function	Page
:SERialbus:SETup <x>:CANBus:</x>	Sets the CAN bus setup recessive level (bus level) or queries the current	5-283
RECessive	setting.	
:SERialbus:SETup <x>:CANBus:SPOint</x>	Sets the CAN bus setup sample point or queries the current setting.	5-283
:SERialbus:SETup <x>:CANBus:TRACe</x>	Sets the CAN bus setup trace or queries the current setting.	5-283
:SERialbus:SETup <x>:FLEXray?</x>	Queries all settings related to the FLEXRAY bus setup.	5-283
:SERialbus:SETup <x>:FLEXray:BRATe</x>	Sets the FLEXRAY bus setup bit rate (data transfer rate) or queries the	5-283
	current setting.	
:SERialbus:SETup <x>:FLEXray: CRCBus</x>	Sets the FLEXRAY bus setup CRC Error or queries the current setting.	5-283
:SERialbus:SETup <x>:FLEXray: SPOint</x>	Sets the FLEXRAY bus setup sample point or queries the current setting.	5-284
:SERialbus:SETup <x>:FLEXray:TRACe</x>	Sets the FLEXRAY bus setup trace or queries the current setting.	5-284
:SERialbus:SETup <x>:I2CBus?</x>	Queries all settings related to the I2C bus setup.	5-284
:SERialbus:SETup <x>:I2CBus:CLOCk</x>	Sets the I2C bus setup clock channel or queries the current setting.	5-284
:SERialbus:SETup <x>:I2CBus:DTRace</x>	Sets the I2C bus signal analysis data channel or queries the current setting.	5-284
:SERialbus:SETup <x>:LINBus?</x>	Queries all settings related to the LIN bus setup.	5-284
:SERialbus:SETup <x>:LINBus:BRATe</x>	Sets the LIN bus setup bit rate (data transfer rate) or queries the current	5-284
_	setting.	
:SERialbus:SETup <x>:LINBus: REVision</x>	Sets the LIN bus setup revision (1.3 or 2.0) or queries the current setting.	5-284
:SERialbus:SETup <x>:LINBus:SPOint</x>	Sets the LIN bus setup sample point or queries the current setting.	5-285
:SERialbus:SETup <x>:LINBus:TRACe</x>	Sets the LIN bus setup trace or queries the current setting.	5-285
:SERialbus:SETup <x>:SPIBus?</x>	Queries all settings related to the SPI bus setup.	5-285
:SERialbus:SETup <x>:SPIBus:</x>	Sets the SPI bus setup bit order or queries the current setting.	5-285
BITorder	Sold the Office and office the during.	0 200
:SERialbus:SETup <x>:SPIBus:CLOCk?</x>	Queries all settings related to the channel of the clock signal of the SPI bus setup.	5-285
:SERialbus:SETup <x>:SPIBus:CLOCk:</x>	Sets the polarity of the channel of the clock signal of the SPI bus setup.	5-285
POLarity GDTD	Coto the about of the clock signed of the CDI but cotion or guaries the	F 00F
:SERialbus:SETup <x>:SPIBus:CLOCk: TRACe</x>	Sets the channel of the clock signal of the SPI bus setup or queries the current setting.	5-285
:SERialbus:SETup <x>:SPIBus:CS?</x>	Queries all settings related to the channel of the chip select signal of the SPI bus setup.	5-285
:SERialbus:SETup <x>:SPIBus:CS:</x>	Sets the active level of the channel of the chip select signal of the SPI bus	5-286
ACTive	setup.	3-200
:SERialbus:SETup <x>:SPIBus:CS: TRACe</x>	Sets the channel of the chip select signal of the SPI bus setup or queries the current setting.	5-286
:SERialbus:SETup <x>:SPIBus: DATA<x>?</x></x>	Queries all settings related to each data of the SPI bus setup.	5-286
:SERialbus:SETup <x>:SPIBus: DATA<x>:ACTive</x></x>	Sets the active level of each data of the SPI bus setup or queries the current setting.	5-286
:SERialbus:SETup <x>:SPIBus:</x>	Sets each data channel of the SPI bus setup or queries the current setting.	5-286
DATA <x>:TRACe</x>	ı '	
:SERialbus:SETup <x>:SPIBus:MODE</x>	Sets the wiring method (3-wire/4-wire) of the SPI bus setup or queries the current setting.	5-286
:SERialbus:SETup <x>:TRACe<x>?</x></x>	Queries all settings related to each trace.	5-286
:SERialbus:SETup <x>:TRACe<x>:</x></x>	Sets the hysteresis of the threshold level of each trace or queries the	5-286
HYSTeresis	current setting.	
:SERialbus:SETup <x>:TRACe<x>: LEVel</x></x>	Sets the threshold level of each trace or queries the current setting.	5-287
:SERialbus:SETup <x>:TYPE</x>	Sets the serial bus setup type or queries the current setting.	5-287
:SERialbus:SETup <x>:UART?</x>	Queries all settings related to the UART bus setup.	5-287
:SERialbus:SETup <x>:UART:BITorder</x>	Sets the UART bus setup bit order or queries the current setting.	5-287
:SERialbus:SETup <x>:UART:BRATe</x>	Sets the UART bus setup bit rate (data transfer rate) or queries the current	5-287
.CEDialbug.CETton	setting.	5-287
:SERialbus:SETup <x>:UART:FORMat</x>	Sets the UART bus setup data format or queries the current setting.	+
:SERialbus:SETup <x>:UART:PMODe</x>	Sets the UART bus setup Parity mode or queries the current setting.	5-287
:SERialbus:SETup <x>:UART:POLarity</x>	Sets the UART bus setup polarity or queries the current setting.	5-287
:SERialbus:SETup <x>:UART:SPOint</x>	Sets the UART bus setup sample point or queries the current setting.	5-288
:SERialbus:SETup <x>:UART:TRACe</x>	Sets the UART bus setup trace or queries the current setting.	5-288
:SERialbus:TLINk	Sets the serial bus setup trigger link or queries the current setting.	5-288
SNAP Group : SNAP	Executes the snapshot.	5-289

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Command	Function	Page
SSTart Group		
:SSTart?	Executes the single start of the trigger mode.	5-289
STARt Group		
:STARt	Starts waveform acquisition.	5-289
STATus Group		10 -00
:STATus?	Queries all settings related to the communication status function.	5-290
:STATus:CONDition?	Queries the contents of the condition register.	5-290
:STATUS:EESE	Sets the extended event enable register or queries the current setting.	5-290
:STATUS:EESR?	Queries the content of the extended event register and clears the register.	5-290
:STATus:ERRor?	Queries the code and message of the error that occurred.	5-290
:STATus:FILTer <x></x>	Sets the transition filter or queries the current setting.	5-290
:STATus:OENable	Sets whether to store messages other than errors to the error queue or	5-290
~	queries the current setting.	
:STATus:QMESsage	Sets whether to attach a message description to the response to the :	5-290
	STATus:ERRor? query or queries the current setting.	
:STATus:SPOLl?	Executes serial polling.	5-290
STOP Group		
:STOP	Stops waveform acquisition.	5-291
SYSTem Group		
:SYSTem?	Queries all settings related to the system.	5-291
:SYSTem:CLICk	Turns ON/OFF the click sound or queries the current setting.	5-291
:SYSTem:CLOCk?	Queries all settings related to the date, time, and time difference with	5-291
	respect to GMT.	
:SYSTem:CLOCk:DTIMe	Sets the date, time, and time difference with respect to GMT or queries the current setting.	5-291
:SYSTem:CLOCk:MODE	Turns ON/OFF the date, time, and time difference with respect to GMT or	5-291
GVGE DODM-t TMDM [ DVDG-t]	queries the current setting.	F 204
:SYSTem:FORMat:IMEMory[:EXECute]	Formats the internal memory.	5-291
:SYSTem:FORMat:IHDD[:EXECute]	Formats the internal hard disk.	5-291
:SYSTem:FORMat:SDELete[:EXECute]	Clears and formats the internal memory.	5-291
:SYSTem:LANGuage	Sets the message language or queries the current setting.  Sets the menu font size or queries the current setting.	5-291 5-292
:SYSTem:MFSize		5-292
:SYSTem:MLANguage	Sets the menu language or queries the current setting.	5-292
:SYSTem:OVERview :SYSTem:USBKeyboard	Displays system information.  Sets the USB keyboard type or queries the current setting.	5-292
1	Sets the OSB keyboard type of queries the current setting.	3-292
TIMebase Group :TIMebase?	Overies all settings related to the time has	T 202
	Queries all settings related to the time base.	5-293
:TIMebase:SRATe?	Queries the sample rate.	5-293
:TIMebase:TDIV	Sets the T/div value or queries the current setting.	5-293
TRIGger Group	Overdee all as the manufact of the triangle	5 00 4
:TRIGger?	Queries all settings related to the trigger.	5-294
:TRIGger:ACTion?	Queries all settings related to the action-on-trigger.	5-294
:TRIGger:ACTion:ACQCount	Sets the action count of action-on-trigger or queries the current setting.	5-294
:TRIGger:ACTion:BUZZer	Sets whether to sound a buzzer when an action is activated or queries the current setting.	5-294
:TRIGger:ACTion:HCOPy	Sets whether to output screen image data (ON/OFF) when an action is	5-294
	activated or queries the current setting.	
:TRIGger:ACTion:MAIL?	Queries all settings related to the mail transmission when an action is activated.	5-294
:TRIGger:ACTion:MAIL:INTerval	Sets the interval at which to send mail when an action is activated or queries the current setting.	5-295
:TRIGger:ACTion:MAIL:MODE	Sets whether to send mail when an action is activated or queries the current setting.	5-295
:TRIGger:ACTion:MODE	Sets the action-on-trigger mode or queries the current setting.	5-295
:TRIGger:ACTion:SAVE	Sets whether to save the waveform data to the storage medium (ON/OFF)	5-295
MDTG ACM' CTTT.	when an action is activated or queries the current setting.	E 005
:TRIGger:ACTion:STARt	Starts the action-on-trigger.	5-295
:TRIGger:ACTion:STOP	Stops the action-on-trigger.	5-295
:TRIGger:CLOCk?	Queries all settings related to the clock channel.	5-295
:TRIGger:CLOCk:POLarity	Sets the polarity of the clock channel or queries the current setting.  Sets the source waveform of the clock channel or queries the current	5-295
:TRIGger:CLOCk:SOURce	isers the source waveloun of the clock channel of dueries the current	5-295

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Command	Function	Page
:TRIGger:DELay?	Queries all settings related to the trigger delay.	5-295
:TRIGger:DELay:EDGecount?	Queries all settings related to edge count of the trigger delay.	5-295
:TRIGger:DELay:EDGecount:COUNt	Sets the edge count value of the trigger delay or queries the current setting.	
:TRIGger:DELay:MODE	Turns ON/OFF the trigger delay or queries the current setting.	5-296
:TRIGger:DELay:POLarity	Sets the edge polarity the trigger delay or queries the current setting.	5-296
:TRIGger:DELay:SOURce	Sets the edge source the trigger delay or queries the current setting.	5-296
:TRIGger:DELay:TIME	Sets the delay value the trigger delay or queries the current setting.	5-296
:TRIGger:DELay:TYPE	Sets the trigger delay type or queries the current setting.	5-296
:TRIGger:EINTerval?	Queries all settings related to the event interval.	5-296
:TRIGger:EINTerval:EVENt <x>?</x>	Queries all settings related to the event.	5-297
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the CAN bus signal trigger of the event.	5-297
CANBus?		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the ACK condition of the CAN bus signal trigger or queries the current	5-297
CANBus: ACK	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the bit rate (data transfer rate) of the CAN bus signal trigger or queries	5-298
CANBus: BRATe	the current setting.	
:TRIGger:EINTerval:EVENt <x>: CANBus:DATA?</x>	Queries all settings related to the CAN bus signal trigger data.	5-298
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the byte order of the CAN bus signal trigger data or queries the	5-298
CANBus:DATA:BORDer	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data condition of the CAN bus signal trigger or queries the current	5-298
CANBus:DATA:CONDition	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the comparison data of the CAN bus signal trigger data or queries the	5-298
CANBus:DATA:DATA <x></x>	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the number of valid bytes (DLC) of the CAN bus signal trigger data or	5-299
CANBus:DATA:DLC	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the CAN bus signal trigger data in hexadecimal notation.	5-299
CANBus: DATA: HEXA		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the MSB and LSB bits of the CAN bus signal trigger data or queries	5-299
CANBus:DATA:MSBLsb	the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the CAN bus signal trigger data in binary notation or queries the	5-299
CANBus:DATA:PATTern	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the sign of the CAN bus signal trigger data or queries the current	5-299
CANBus:DATA:SIGN	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the ID of the extended format of the CAN bus	5-299
CANBus: IDEXt?	signal trigger.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the ID of the extended format of the CAN bus signal trigger in	5-299
CANBus: IDEXt: HEXA	hexadecimal notation.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the ID of the extended format of the CAN bus signal trigger in binary	5-300
CANBus: IDEXt: PATTern	notation or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the OR condition of the CAN bus signal	5-300
CANBus: IDOR?	trigger.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to each ID of the OR condition of the CAN bus	5-301
CANBus: IDOR: ID <x>?</x>	signal trigger.	5.004
:TRIGger:EINTerval:EVENt <x>:</x>	Sets each ACK condition of the OR condition of the CAN bus signal trigger	5-301
CANBus:IDOR:ID <x>:ACK</x>	or queries the current setting.	5.004
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to each data of the OR condition of the CAN	5-301
CANBus: IDOR: ID <x>:DATA?</x>	bus signal trigger.	5.004
:TRIGger:EINTerval:EVENt <x>:</x>	Sets byte order of each data of the OR condition of the CAN bus signal	5-301
CANBus:IDOR:ID<	trigger or queries the current setting.	5.004
:TRIGger:EINTerval:EVENt <x>:</x>	0 00	5-301
CANBus:IDOR:ID<	<u> </u>	F 000
:TRIGger:EINTerval:EVENt <x>:</x>	Sets comparison data of each data of the OR condition of the CAN bus	5-302
CANBus:IDOR:ID<	signal trigger or queries the current setting.	F 200
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the number of valid bytes (DLC) of each data of the OR condition of	5-302
CANBus: IDOR: ID<	the CAN bus signal trigger or queries the current setting.	F 200
:TRIGger:EINTerval:EVENt <x>:</x>	Sets each data of the OR condition of the CAN bus signal trigger in	5-302
CANBus: IDOR: ID <x>: DATA: HEXA</x>	hexadecimal notation.	F 200
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the MSB and LSB bits of each data of the OR condition of the CAN	5-302
CANBus:IDOR:ID <x>:DATA:MSBLsb</x>	bus signal trigger or queries the current setting.	

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Command	Function	Page
:TRIGger:EINTerval:EVENt <x>:</x>	Sets each data of the OR condition of the CAN bus signal trigger in binary	5-302
CANBus:IDOR:ID <x>:DATA:PATTern</x>	notation or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets sign of each data of the OR condition of the CAN bus signal trigger or	5-303
CANBus:IDOR:ID <x>:DATA:SIGN</x>	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets each message format (standard or extended) of the OR condition of	5-303
CANBus:IDOR:ID <x>:FORMat</x>	the CAN bus signal trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the ID of each extended format of the OR	5-303
CANBus: IDOR: ID <x>: IDEXt?</x>	condition of the CAN bus signal trigger.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the ID of each extended format of the OR condition of the CAN bus	5-303
CANBus: IDOR: ID <x>: IDEXt: HEXA</x>	signal trigger in hexadecimal notation.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the ID of each extended format of the OR condition of the CAN bus	5-303
CANBus:IDOR:ID<	signal trigger in binary notation or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the ID of each standard format of the OR	5-303
CANBus: IDOR: ID <x>: IDSTd?</x>	condition of the CAN bus signal trigger.	5.004
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the ID of each standard format of the OR condition of the CAN bus	5-304
CANBus:IDOR:ID<	signal trigger in hexadecimal notation.	5.004
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the ID of each standard format of the OR condition of the CAN bus	5-304
CANBus:IDOR:ID<	signal trigger in binary notation or queries the current setting.	5.004
:TRIGger:EINTerval:EVENt <x>:</x>	Enables or disables each condition of the OR condition of the CAN bus	5-304
CANBus:IDOR:ID<	signal trigger or queries the current setting.	5.004
:TRIGger:EINTerval:EVENt <x>:</x>	Sets each RTR of the OR condition of the CAN bus signal trigger or queries	5-304
CANBus:IDOR:ID<	the current setting.	5.004
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the ID of the standard format of the CAN bus	5-304
CANBus: IDSTd?	signal trigger.	5.004
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the ID of the standard format of the CAN bus signal trigger in	5-304
CANBus: IDSTd: HEXA	hexadecimal notation.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the ID of the standard format of the CAN bus signal trigger in binary	5-305
CANBus: IDSTd: PATTern	notation or queries the current setting.	5.005
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the CAN bus signal trigger mode or queries the current setting.	5-305
CANBus: MODE		5.005
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the message signal of the CAN bus signal	5-305
CANBus: MSIGnal?	trigger.	5.005
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to message of the CAN bus signal trigger .	5-305
CANBus: MSIGnal: MESSage <x>?</x>	Cata the CAN has signed trigger massage item	5-306
:TRIGger:EINTerval:EVENt <x>: CANBus:MSIGnal:MESSage<x>:ITEM</x></x>	Sets the CAN bus signal trigger message item.	5-306
	Turns ON/OFF the CAN bus signal trigger message or queries the current	5-306
:TRIGger:EINTerval:EVENt <x>: CANBus:MSIGnal:MESSage<x>:MODE</x></x>	setting.	3-306
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the message signal conditions for the CAN bus signal trigger or	5-306
CANBus: MSIGnal: SELect	queries the current setting.	3-300
:TRIGger:EINTerval:EVENt <x>:</x>		5-306
CANBus: MSIGnal: SIGNal <x>?</x>	Queries all settings related to the signal of the CAN bus signal trigger .	3-306
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the signal data conditions for the CAN bus signal trigger or queries the	5 306
CANBus: MSIGnal: SIGNal <x>:</x>	current setting.	3-306
CONDition	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the signal data comparison data for the CAN bus signal trigger or	5-306
CANBus: MSIGnal: SIGNal <x>: DATA<x></x></x>	queries the current setting.	3-300
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the CAN bus signal trigger signal item.	5-307
CANBus: MSIGnal: SIGNal <x>: ITEM</x>	Sets the CAN bus signal trigger signal item.	3-307
:TRIGger:EINTerval:EVENt <x>:</x>	Turns ON/OFF the CAN bus signal trigger signal or queries the current	5-307
CANBus: MSIGnal: SIGNal <x>: MODE</x>	setting.	3-307
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the recessive level (bus level) of the CAN bus signal trigger or queries	5 207
CANBus: RECessive	the current setting.	3-307
	Sets the RTR of the CAN bus signal trigger or queries the current setting.	5-307
:TRIGger:EINTerval:EVENt <x>: CANBus:RTR</x>	Sets the KTK of the CAN bus signal trigger of queries the current setting.	3-307
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the trigger source of the CAN bus signal trigger or queries the current	5-307
CANBus:SOURce	setting.	3-307
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the sample point of the CAN bus signal trigger or queries the current	5-307
:TRIGGET:EINTERVAL:EVENT <x>:  CANBus:SPOint</x>		3-307
	Setting.  Ourries all settings related to the clock channel of the event	5 207
:TRIGger:EINTerval:EVENt <x>: CLOCk?</x>	Queries all settings related to the clock channel of the event.	5-307
	Sate the polarity of the clock channel of the event or quaries the event	5 200
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the polarity of the clock channel of the event or queries the current	5-308
CLOCk:POLarity	setting.	<u> </u>

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Command	Function	Page
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the source waveform of the clock channel of the event or queries the	5-308
CLOCk:SOURce	current setting.	
:TRIGger:EINTerval:EVENt <x>: ESTate?</x>	Queries all settings related to the edge/state trigger.	5-308
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the polarity of the edge/state trigger or queries the current setting.	5-308
ESTate: POLarity	Sets the polarity of the edge/state trigger of queries the current setting.	3-306
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the trigger source of the edge/state trigger or queries the current	5-308
ESTate: SOURce	setting.	0 000
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the FLEXRAY bus signal triggers of each	5-309
FLEXray?	event.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the FLEXRAY bus signal trigger bit rate (data transfer rate) or queries	5-309
FLEXray:BRATe	the current setting.	
:TRIGger:EINTerval:EVENt <x>: FLEXray:ERRor?</x>	Queries all settings related to the FLEXRAY bus signal trigger error .	5-309
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the FLEXRAY bus signal trigger BSS error or queries the current	5-309
FLEXray: ERRor: BSS	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the FLEXRAY bus signal trigger error channel or queries the current	5-309
FLEXray: ERRor: CHANnel	setting.	
:TRIGger:EINTerval:EVENt <x>: FLEXray:ERRor:CRC</x>	Sets the FLEXRAY bus signal trigger CRC error or queries the current setting.	5-310
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the target channel of the FLEXRAY bus signal trigger CRC error or	5-310
FLEXray: ERRor: CRCBus <x></x>	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the FLEXRAY bus signal trigger FES error or queries the current	5-310
FLEXray: ERRor: FES	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the FLEXRAY bus signal trigger error source or queries the current	5-310
FLEXray: ERRor: SOURce <x></x>	setting.	5.040
:TRIGger:EINTerval:EVENt <x>: FLEXray:IDData?</x>	Queries all settings related to the IDData of the FLEXRAY bus signal trigger	5-310
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the Cycle Count of the FLEXRAY bus signal	5-310
FLEXray: IDData: CCOunt?	trigger.	0.0
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the Cycle Count data conditions for the FLEXRAY bus signal trigger or	5-311
FLEXray: IDData: CCOunt: CONDition	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the FLEXRAY bus signal trigger Cycle Count or queries the current	5-311
FLEXray: IDData: CCOunt: COUNt <x></x>	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the Data Field of the FLEXRAY bus signal	5-311
FLEXray:IDData:DATA? :TRIGger:EINTerval:EVENt <x>:</x>	trigger .  Sets the byte order of the Data Field of the FLEXRAY bus signal trigger or	5-311
FLEXray:IDData:DATA:BORDer	queries the current setting.	3-311
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data conditions of the Data Field of the FLEXRAY bus signal	5-311
FLEXray: IDData: DATA: CONDition	trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the comparison data of the Data Field of the FLEXRAY bus signal	5-312
FLEXray:IDData:DATA:DATA <x></x>	trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>: FLEXray:IDData:DATA:DPOSition</x>	Sets the position for pattern comparison of the data of the Data Field of the FLEXRAY bus signal trigger or queries the current setting.	5-312
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the number of bytes of data in the Data Field of the FLEXRAY bus	5-312
FLEXray: IDData: DATA: DSIZe	signal trigger or queries the current setting.	0 012
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data in the Data Field of the FLEXRAY bus signal trigger in	5-312
FLEXray:IDData:DATA:HEXA	hexadecimal.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the MSB/LSB bit of data in the Data Field of the FLEXRAY bus signal	5-312
FLEXray:IDData:DATA:MSBLsb	trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data of the Data Field of the FLEXRAY bus signal trigger in binary	5-313
FLEXray: IDData: DATA: PATTern	or queries the current setting.  Sets the data sign of the Data Field of the FLEXRAY bus signal trigger or	5-313
:TRIGger:EINTerval:EVENt <x>: FLEXray:IDData:DATA:SIGN</x>	queries the current setting.	0-313
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the Frame ID of the FLEXRAY bus signal	5-313
FLEXray: IDData: FID?	trigger.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the Frame ID data conditions for the FLEXRAY bus signal trigger or	5-313
FLEXray: IDData: FID: CONDition	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the Frame ID value for the FLEXRAY bus signal trigger or queries the	5-313
FLEXray:IDData:FID:ID <x></x>	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the Indicator of the FLEXRAY bus signal	5-314
FLEXray: IDData: INDicator?	trigger.	<u> </u>

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# 5.1 A List of Commands

Command	Function	Page
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data conditions of the Indicator of the FLEXRAY bus signal trigger	5-314
FLEXray: IDData: INDicator:	or queries the current setting.	
CONDition		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the Null frame of the Indicator of the FLEXRAY bus signal trigger or	5-314
FLEXray: IDData: INDicator: NFRame	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the Payload preamble of the Indicator of the FLEXRAY bus signal	5-314
FLEXray: IDData: INDicator:	trigger or queries the current setting.	
PPReamble		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the Start frame of the Indicator of the FLEXRAY bus signal trigger or	5-314
FLEXray:IDData:INDicator:STFRame	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the Synch frame of the Indicator of the FLEXRAY bus signal trigger or	5-314
FLEXray:IDData:INDicator:SYFRame	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the OR conditions of the FLEXRAY bus	5-315
FLEXray:IDOR?	signal trigger.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the position for pattern comparison of the data of the Data Field of	5-315
FLEXray: IDOR: DPOSition	the OR condition of the FLEXRAY bus signal trigger or queries the current	
	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the number of bytes of data in the Data Field of the OR condition of	5-315
FLEXray:IDOR:DSIZe	the FLEXRAY bus signal trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to each IDData of the OR condition of the	5-315
FLEXray:IDOR:IDData <x>?</x>	FLEXRAY bus signal trigger .	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the Cycle Count of each IDData of the OR	5-316
FLEXray:IDOR:IDData <x>:CCOunt?</x>	condition of the FLEXRAY bus signal trigger .	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets each Cycle Count data condition of the OR condition for the FLEXRAY	5-316
FLEXray: IDOR: IDData <x>: CCOunt:</x>	bus signal trigger or queries the current setting.	
CONDition		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets each Cycle Count of the OR conditions for the FLEXRAY bus signal	5-316
FLEXray: IDOR: IDData <x>: CCOunt:</x>	trigger or queries the current setting.	
COUNt <x></x>		
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to each Data Field of the OR condition of the	5-316
FLEXray: IDOR: IDData <x>:DATA?</x>	FLEXRAY bus signal trigger .	5.047
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the byte order of the Data Field of each OR condition of the FLEXRAY	5-317
FLEXray: IDOR: IDData <x>: DATA:</x>	bus signal trigger or queries the current setting.	
BORDer	Cote the date and distance of the Date Field of each OD condition of the	F 047
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data conditions of the Data Field of each OR condition of the	5-317
FLEXray:IDOR:IDData <x>:DATA: CONDition</x>	FLEXRAY bus signal trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the comparison data of the Data Field of each OR condition of the	5-317
FLEXray:IDOR:IDData <x>:DATA:</x>	FLEXRAY bus signal trigger or queries the current setting.	3-317
DATA <x></x>	LEARAT bus signal trigger of queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data in each Data Field of the OR condition of the FLEXRAY bus	5-317
FLEXray:IDOR:IDData <x>:DATA:HEXA</x>	signal trigger in hexadecimal.	3-317
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the MSB/LSB bit of data in each Data Field of the OR condition of the	5-318
FLEXray:IDOR:IDData <x>:DATA:</x>	FLEXRAY bus signal trigger or queries the current setting.	5-510
MSBLsb		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data of each Data Field of the OR conditions of the FLEXRAY bus	5-318
FLEXray: IDOR: IDData <x>: DATA:</x>	signal trigger or queries the current setting.	
PATTern		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data sign of the Data Field of each OR condition of the FLEXRAY	5-318
FLEXray:IDOR:IDData <x>:DATA:SIGN</x>	bus signal trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to each Frame ID of the OR condition of the	5-318
FLEXray: IDOR: IDData <x>: FID?</x>	FLEXRAY bus signal trigger.	3.3
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data conditions of the Frame ID of each OR condition of the	5-318
FLEXray: IDOR: IDData <x>:FID:</x>	FLEXRAY bus signal trigger or queries the current setting.	
CONDition	, and a substitution of the substitution of th	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets each Frame ID value of the OR condition for the FLEXRAY bus signal	5-319
J	trigger or queries the current setting.	
FLEXray:IDOR:IDData <x>:FID:ID<x></x></x>	, 55 ,	5-319
FLEXray:IDOR:IDData <x>:FID:ID<x> :TRIGger:EINTerval:EVENt<x>:</x></x></x>	Queries all settings related to each Indicator of the OR condition of the	0-015
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to each Indicator of the OR condition of the FLEXRAY bus signal trigger.	3-313
:TRIGger:EINTerval:EVENt <x>: FLEXray:IDOR:IDData<x>:INDicator?</x></x>	FLEXRAY bus signal trigger.	
:TRIGger:EINTerval:EVENt <x>:</x>		5-319

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Command	Function	Page
:TRIGger:EINTerval:EVENt <x>:</x>	Sets each Indicator Null frame of the OR condition for the FLEXRAY bus	5-319
FLEXray:IDOR:IDData <x>:INDicator:</x>	signal trigger or queries the current setting.	
NFRame		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets each Indicator Payload preamble of the OR condition for the	5-320
FLEXray:IDOR:IDData <x>:INDicator:</x>	FLEXRAY bus signal trigger or queries the current setting.	
PPReamble		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets each Indicator Start frame of the OR condition for the FLEXRAY bus	5-320
FLEXray:IDOR:IDData <x>:INDicator:</x>	signal trigger or queries the current setting.	
STFRame		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets each Indicator Synch frame of the OR condition for the FLEXRAY bus	5-320
FLEXray: IDOR: IDData <x>: INDicator:</x>	signal trigger or queries the current setting.	
SYFRame		
:TRIGger:EINTerval:EVENt <x>:</x>	Enables (1) or disables (0) each condition for each OR condition of the	5-320
FLEXray: IDOR: IDData <x>: MODE</x>	FLEXRAY bus signal trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the FLEXRAY bus signal trigger mode or queries the current setting.	5-320
FLEXray: MODE		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the FLEXRAY bus signal trigger source or queries the current setting.	5-320
FLEXray:SOURce		
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the I <sup>2</sup> C bus trigger of the event.	5-321
I2CBus?		
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the address of the I <sup>2</sup> C bus trigger.	5-321
I2CBus:ADATa?		
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the 10-bit address of the I <sup>2</sup> C bus trigger.	5-321
I2CBus:ADATa:BIT10address?		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the 10-bit address of the I <sup>2</sup> C bus trigger in hexadecimal notation.	5-321
I2CBus:ADATa:BIT10address:HEXA		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the 10-bit address of the I <sup>2</sup> C bus trigger in binary notation or queries	5-321
I2CBus:ADATa:BIT10address:PATTern	<u> </u>	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the 7-bit address of the I <sup>2</sup> C bus trigger.	5-321
I2CBus:ADATa:BIT7ADdress?		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the 7-bit address of the I <sup>2</sup> C bus trigger in hexadecimal notation.	5-322
I2CBus:ADATa:BIT7ADdress:HEXA		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the 7-bit address of the I <sup>2</sup> C bus trigger in binary notation or queries	5-322
I2CBus:ADATa:BIT7ADdress:PATTern	the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the 7-bit + Sub address of the I <sup>2</sup> C bus trigger.	5-322
I2CBus:ADATa:BIT7APsub?		
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the 7-bit address of the 7-bit + Sub address	5-322
I2CBus:ADATa:BIT7APsub:ADDRess?	of the I <sup>2</sup> C bus trigger.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the 7-bit address of the 7-bit + Sub address of the I <sup>2</sup> C bus trigger in	5-322
I2CBus:ADATa:BIT7APsub:ADDRess:	hexadecimal notation.	
HEXA		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the 7-bit address of the 7-bit + Sub address of the I <sup>2</sup> C bus trigger in	5-322
I2CBus: ADATa: BIT7APsub: ADDRess:	binary notation or queries the current setting.	
PATTern		5.000
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the Sub address of the 7-bit + Sub address	5-322
I2CBus:ADATa:BIT7APsub:SADDress?	of the I <sup>2</sup> C bus trigger.	5.000
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the Sub address of the 7-bit + Sub address of the I <sup>2</sup> C bus trigger in	5-323
I2CBus:ADATa:BIT7APsub:SADDress:	hexadecimal notation.	
HEXA	Cata the Cub address of the 7 hit is Cub address of the 120 have triangle in	F 202
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the Sub address of the 7-bit + Sub address of the I <sup>2</sup> C bus trigger in	5-323
I2CBus:ADATa:BIT7APsub:SADDress:	binary notation or queries the current setting.	
PATTern	Sets the address type of the I <sup>2</sup> C bus trigger or queries the current setting.	E 222
:TRIGger:EINTerval:EVENt <x>:</x>	bets the address type of the IFO bus trigger or queries the current setting.	5-323
I2CBus: ADATa: TYPE	Quarias all sattings related to the clock of the 120 has trigger	5 200
:TRIGger:EINTerval:EVENt <x>: I2CBus:CLOCk?</x>	Queries all settings related to the clock of the I <sup>2</sup> C bus trigger.	5-323
	Soto the clock trace of the I2C bus trigger or quaries the gurrent setting	E 222
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the clock trace of the I <sup>2</sup> C bus trigger or queries the current setting.	5-323
I2CBus:CLOCk:SOURce	Queries all settings related to the data of the I <sup>2</sup> C bus trigger.	5-323
:TRIGger:EINTerval:EVENt <x>: I2CBus:DATA?</x>	Quenes an settings related to the data of the FC bus trigger.	0-323
	Sate the number of data butes of the 12C bus trigger or quaries the	5 224
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the number of data bytes of the I <sup>2</sup> C bus trigger or queries the current	5-324
I2CBus:DATA:BYTE	setting.	

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Command	Function	Page
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the determination method (match or not match) of the data of the I <sup>2</sup> C	5-324
I2CBus:DATA:CONDition	bus trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the position for comparing the data pattern of the I <sup>2</sup> C bus trigger or	5-324
I2CBus:DATA:DPOSition	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data of the I <sup>2</sup> C bus trigger in hexadecimal notation.	5-324
I2CBus:DATA:HEXA <x></x>		
:TRIGger:EINTerval:EVENt <x>:</x>	Enables/Disables the data conditions of the I <sup>2</sup> C bus trigger or queries the	5-324
I2CBus:DATA:MODE	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data of the I <sup>2</sup> C bus trigger in binary notation or queries the current	5-324
I2CBus:DATA:PATTern <x></x>	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the pattern comparison start position mode of the data of the I <sup>2</sup> C bus	5-325
I2CBus:DATA:PMODe	trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data trace of the I <sup>2</sup> C bus trigger or queries the current setting.	5-325
I2CBus:DATA:SOURce		
:TRIGger:EINTerval:EVENt <x>: I2CBus:GCALl?</x>	Queries all settings related to the general call of the I <sup>2</sup> C bus trigger.	5-325
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the 7-bit master address of the general call of	5-325
I2CBus:GCAL1:BIT7maddress?	the I <sup>2</sup> C bus trigger.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the 7-bit master address of the general call of the I <sup>2</sup> C bus trigger in	5-325
I2CBus:GCALl:BIT7maddress:HEXA	hexadecimal notation.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the 7-bit master address of the general call of the I <sup>2</sup> C bus trigger in	5-325
I2CBus:GCAL1:BIT7maddress:PATTern	binary notation or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the second byte type of the general call of the I <sup>2</sup> C bus trigger or	5-326
I2CBus:GCAL1:SBYTe	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the trigger mode of the I <sup>2</sup> C bus trigger or queries the current setting.	5-326
I2CBus:MODE		
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the NON ACK ignore mode of the I <sup>2</sup> C bus	5-326
I2CBus:NAIGnore?	trigger.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets whether to ignore NON ACK in high speed mode of the I <sup>2</sup> C bus trigger	5-326
I2CBus:NAIGnore:HSMode	or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets whether to ignore NON ACK in read access mode of the I <sup>2</sup> C bus	5-326
I2CBus:NAIGnore:RACCess	trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets whether to ignore NON ACK in the start byte of the I <sup>2</sup> C bus trigger or	5-326
I2CBus:NAIGnore:SBYTe	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the start byte and high speed mode of the I <sup>2</sup> C	5-327
I2CBus:SBHSmode?	bus trigger.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the type of the start byte or high speed mode of the I <sup>2</sup> C bus trigger or	5-327
I2CBus:SBHSmode:TYPE	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to LIN bus signal triggers of each event.	5-327
LINBus?		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the LIN bus signal trigger break length or queries the current setting.	5-327
LINBus: BLENgth		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the LIN bus signal trigger bitrate (data transfer rate) or queries the	5-327
LINBus:BRATe	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the LIN bus signal trigger error.	5-327
LINBus: ERRor?		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the LIN bus signal trigger Checksum error or queries the current	5-328
LINBus: ERRor: CHECksum	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the number of error data bytes for the LIN bus signal trigger or queries	5-328
LINBus: ERRor: DSIZe	the current setting.	5 000
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the LIN bus signal trigger Framing error or queries the current setting.	5-328
LINBus: ERRor: FRAMing	Coto the LIN bus signed trigger Parity array or averies the assument as the	E 200
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the LIN bus signal trigger Parity error or queries the current setting.	5-328
LINBus: ERRor: PARity	Coto the LIN bug signal trigger Complete and a superior the superior that	F 200
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the LIN bus signal trigger Synch error or queries the current setting.	5-328
LINBus: ERROr: SYNCh	Cote the LIN bug signed trigger Times of several an evenies the suggest of the	F 200
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the LIN bus signal trigger Timeout error or queries the current setting.	5-328
LINBus: ERROr: TOUT	Quaries all pattings related to the IDDs to of the LINI has signed to the	F 220
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the IDData of the LIN bus signal trigger .	5-329
LINBus: IDData?		

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Command	Function	Page
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the Data Field of the LIN bus signal trigger .	5-329
LINBus:IDData:DATA?		
:TRIGger:EINTerval:EVENt <x>: LINBus:IDData:DATA:BORDer</x>	Sets the data byte order of the LIN bus signal trigger or queries the current setting.	5-329
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data conditions of the Data Field of the LIN bus signal trigger or	5-329
LINBus: IDData: DATA: CONDition	queries the current setting.	3-323
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the comparison data of the LIN bus signal trigger data or queries the	5-329
LINBus:IDData:DATA:DATA <x></x>	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the number of bytes of data in the Data Field of the LIN bus signal	5-330
LINBus:IDData:DATA:DSIZe	trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>: LINBus:IDData:DATA:HEXA</x>	Sets the data in the Data Field of the LIN bus signal trigger in hexadecimal.	5-330
	Onto the MOD/LOD bit of the LINI has a fine of the survey of the survey of	5 000
:TRIGger:EINTerval:EVENt <x>: LINBus:IDData:DATA:MSBLsb</x>	Sets the MSB/LSB bit of the LIN bus signal trigger or queries the current setting.	5-330
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data of the Data Field of the LIN bus signal trigger in binary or	5-330
LINBus: IDData: DATA: PATTern	queries the current setting.	0 000
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data sign of the LIN bus signal trigger or queries the current	5-330
LINBus: IDData: DATA: SIGN	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the ID of the LIN bus signal trigger .	5-330
LINBus: IDData: ID?		<u> </u>
:TRIGger:EINTerval:EVENt <x>: LINBus:IDData:ID:HEXA</x>	Sets the LIN bus signal trigger ID in hexadecimal.	5-331
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the LIN bus signal trigger ID in binary or queries the current setting.	5-331
LINBus: IDData: ID: PATTern	Sets the Life bus signal trigger in in binary or queries the current setting.	5-331
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the OR conditions of the LIN bus signal	5-331
LINBus: IDOR?	trigger.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the number of bytes of data in the Data Field of the OR condition of	5-331
LINBus: IDOR: DSIZe	the LIN bus signal trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to each IDData of the OR condition of the LIN	5-331
LINBus: IDOR: IDData <x>?</x>	bus signal trigger .	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to each Data Field of the OR condition of the	5-331
LINBus:IDOR:IDData <x>:DATA?</x>	LIN bus signal trigger.	
:TRIGger:EINTerval:EVENt <x>:</x>	,	5-332
LINBus: IDOR: IDData <x>: DATA: BORDer</x>	trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>: LINBus:IDOR:IDData<x>:DATA:</x></x>	Sets the data conditions of the Data Field of each OR condition of the LIN bus signal trigger or queries the current setting.	5-332
CONDition	bus signal trigger of queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the comparison data of each data of the OR conditions of the LIN bus	5-332
LINBus: IDOR: IDData <x>: DATA:</x>	signal trigger or queries the current setting.	0 002
DATA <x></x>	Signal angger of queries and earners estaing.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data in each Data Field of the OR condition of the LIN bus signal	5-332
LINBus: IDOR: IDData <x>: DATA: HEXA</x>	trigger in hexadecimal.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the MSB/LSB bit of each data of the OR condition of the LIN bus	5-333
LINBus: IDOR: IDData <x>: DATA: MSBLsb</x>	signal trigger or queries the current setting.	<u> </u>
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data of each Data Field of the OR conditions of the LIN bus signal	5-333
LINBus:IDOR:IDData <x>:DATA: PATTern</x>	trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the sign of each data of the OR conditions of the LIN bus signal trigger	5-333
LINBus:IDOR:IDData <x>:DATA:SIGN</x>	or queries the current setting.	3 333
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to each ID of the OR condition of the LIN bus	5-333
LINBus:IDOR:IDData <x>:ID?</x>	signal trigger.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets each ID of the OR conditions of the LIN bus signal trigger in	5-333
LINBus:IDOR:IDData <x>:ID:HEXA</x>	hexadecimal.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets each ID of the OR conditions of the LIN bus signal trigger binary or	5-333
LINBus:IDOR:IDData <x>:ID:PATTern</x>	queries the current setting.	F 00.4
:TRIGger:EINTerval:EVENt <x>: LINBus:IDOR:IDData<x>:MODE</x></x>	Enables (1) or disables (0) each condition for each OR condition of the LIN bus signal trigger or queries the current setting.	5-334
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the LIN bus signal trigger mode or queries the current setting.	5-334
LINBus: MODE	5 55 1 11 11 11 11 11 11 11 11	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the LIN bus signal trigger revision (1.3 or 2.0) or queries the current	5-334
LINBus: REVision	setting.	

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LINBus 3:00URCe TIRTIGGER: RINTERVAL RUENTLAND: LINBus 3:POOINT TIRTIGGER: RINTERVAL RUENTLAND: LINBus 3:POOINT TIRTIGGER: RINTERVAL RUENTLAND: LOGIC: RINTERVAL RUENTLAND	Command	Function	Page
Sets the LIN bus signal trigger sample point or queries the current setting.   5-3	:TRIGger:EINTerval:EVENt <x>:</x>	Sets the LIN bus signal trigger source or queries the current setting.	5-334
LINNUM: SPOINT PRISOGER: SINTERVAL (SURNEL XXX): LOGGER: CLOCK: POLARYITY PRISOGER: SINTERVAL (SURNEL XXX): LOGGER: CLOCK: POLARYITY PRISOGER: SINTERVAL (SURNEL XXX): LOGGER: CLOCK: POLARYITY PRISOGER: SINTERVAL (SURNEL XXX): LOGGER: CLOCK: SOURCE PRISOGER: SINTERVAL (SURNEL XXX): LOGGER: CLOCK: SOURCE LOGGER: SOURCE PRISOGER: SINTERVAL (SURNEL XXX): LOGGER: SOURCE LOGGER: SOURCE PRISOGER: SINTERVAL (SURNEL XXX): LOGGER: SOURCE LOGGER: SOURCE PRISOGER: SINTERVAL (SURNEL XXX): LOGGER: SINTERVAL (SURNEL XXX	LINBus:SOURce		
IREGger : BINTerval : EVENT <		Sets the LIN bus signal trigger sample point or queries the current setting.	5-334
COGIGO PRINTERVAL   EVENT CASE		Overing all pattings related to the large twings of the syent	F 225
Sets the polarity of the logic trigger clock.   5-3		Queries all settings related to the logic trigger of the event.	5-335
Sets the polarity of the logic trigger clock or queries the current setting.   5-3		Queries all settings related to the logic trigger clock	5-335
LIGGIC: CLOCK: POLARITY  FIREGger: BINTerval: EVENEX.xx;  LOGIC: BSTATE?  FIREGger: BINTerval: EVENEX.xx;  LOGIC: BSTATE?  FIREGger: BINTerval: EVENEX.xx;  LOGIC: BSTATE?  FIREGger: BINTerval: EVENEX.xx;  Sets the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  Sets the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  Sets the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic or queries the current setting.  Cueries all settings related to the logic PC bus trigger for each event.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic PC bus trigger in binary notation or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic PC bus trigger in binary notation or queries the current setting.  1-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic PC bus trigger.  1-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state		Queries all settings related to the logic trigger clock.	0 000
LIGGIC: CLOCK: POLARITY  FIREGger: BINTerval: EVENEX.xx;  LOGIC: BSTATE?  FIREGger: BINTerval: EVENEX.xx;  LOGIC: BSTATE?  FIREGger: BINTerval: EVENEX.xx;  LOGIC: BSTATE?  FIREGger: BINTerval: EVENEX.xx;  Sets the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  Sets the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  Sets the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic or queries the current setting.  Cueries all settings related to the logic PC bus trigger for each event.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic PC bus trigger in binary notation or queries the current setting.  5-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic PC bus trigger in binary notation or queries the current setting.  1-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state trigger of the logic PC bus trigger.  1-3  LOGIC: BSTATE: POLARITY  SETS the polarity of the edge/state	:TRIGger:EINTerval:EVENt <x>:</x>	Sets the polarity of the logic trigger clock or queries the current setting.	5-335
LOGIC: CLOCK; SOURCE  TRIGGer: BINTERVAL; EVENT.     Queries all settings related to the edge/state trigger of the logic.     5-3  LOGIC: BSTate: POLArity  Sets the polarity of the edge/state trigger of the logic or queries the current setting.     5-3  LOGIC: BSTate: POLArity  Sets the polarity of the edge/state trigger source of the logic or queries the current setting.     5-3  LOGIC: BSTATE: EVENT.     5-3  Sets the polarity of the edge/state trigger source of the logic or queries the current setting.     5-3  LOGIC: PSTATE: SOURCE  TRIGGER: BINTERVAL; EVENT.     Sets the edge/state trigger source of the logic or queries the current setting.     5-3  LOGIC: PSTATE: SOURCE  TRIGGER: BINTERVAL; EVENT.     Sets the edge/state trigger source of the logic or queries the current setting.     5-3  LOGIC: PSTATE: SOURCE  TRIGGER: BINTERVAL; EVENT.     Sets the edge/state trigger source of the logic or queries the current setting.     5-3  LOGIC: PSTATE: SOURCE  TRIGGER: BINTERVAL; EVENT.     Sets the 10-bit address of the logic PSC bus trigger.     5-3  LOGIC: 12CBus: ADATA: BITTO address:  Sets the 10-bit address of the logic PSC bus trigger in binary notation or queries the current setting.     5-3  LOGIC: 12CBus: ADATA: BITTO Address:  LOGIC: 12CBus: ADATA: BITTO Address:  LOGIC: 12CBus: ADATA: BITTA Adress:  LOGIC: 12CBus: ADATA: BITTA Brub:  TRIGGER: BINTERVAL; EVENT.     Sets the 7-bit address of the logic PC bus trigger in hexadecimal notation.     5-3  LOGIC: PC bus trigger.	LOGic:CLOCk:POLarity		
Considerial Settings related to the edge/state trigger of the logic   5-3	:TRIGger:EINTerval:EVENt <x>:</x>	Sets the clock source of the logic trigger or queries the current setting.	5-335
LOGIC: ESTAte?   Sets the polarity of the edge/state trigger of the logic or queries the current setting.   Sets the polarity of the edge/state trigger of the logic or queries the current setting.   Sets the polarity of the edge/state trigger of the logic or queries the current setting.   Sets the polarity of the edge/state trigger of the logic or queries the current setting.   Sets the polarity of the edge/state trigger of the logic or queries the current setting.   Sets the polarity of the edge/state trigger source of the logic or queries the current setting.   Sets the 10-bit address of the logic or queries the current setting.   Sets the 10-bit address of the logic or queries the current setting.   Sets the 10-bit address of the logic or queries the current setting.   Sets the 10-bit address of the logic or queries the current setting.   Sets the 10-bit address of the logic or queries the current setting.   Sets the 10-bit address of the logic or queries the current setting.   Sets the 10-bit address of the logic or queries the current setting.   Sets the 10-bit address of the logic or queries the current setting.   Sets the 10-bit address of the logic or queries the current setting.   Sets the 10-bit address of the logic or queries the current setting.   Sets the 10-bit address of the logic or queries the current setting.   Sets the 10-bit address of the logic or queries the current setting.   Sets the 10-bit address of the logic or queries the current setting.   Sets the 10-bit address of the logic or queries the current setting.   Sets the 10-bit address of the logic or queries the current setting.   Sets the 10-bit address of the logic or queries the current setting.   Sets the 10-bit address of the 10-bit address of the logic or queries the current setting.   Sets the 7-bit address of the 10-bit or queries the logic or queries the current setting.   Sets the 7-bit address of the logic or queries the logic or queries the current setting.   Sets the 10-bit address of the 10-bit or queries the logic or			
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Setting.   Setting.		Cata the polarity of the adva/atota trigger of the legic as guaries the guarant	E 226
Sets the edge/state trigger source of the logic or queries the current setting.   5-3			5-336
LOGIc:ESTAte:SOURCE TRIGGer:EINTerval:EVENt <x>: Queries all settings related to the logic I<sup>2</sup>C bus trigger for each event.  5-3 LOGic:12CBus:ADATa:EITT0.address? TRIGGer:EINTerval:EVENt<x>: LOGic:12CBus:ADATa:EITT0.address? TRIGGer:EINTerval:EVENt<x>: LOGic:12CBus:ADATa:EITT0.address? TRIGGer:EINTerval:EVENt<x>: LOGic:12CBus:ADATa:EITT0.address? HEXA  TRIGGer:EINTerval:EVENt<x>: LOGic:12CBus:ADATa:EITT0.address? PATTern TRIGGer:EINTerval:EVENt<x>: LOGic:12CBus:ADATa:BITT0.address. PATTern TRIGGer:EINTerval:EVENt<x>: LOGic:12CBus:ADATa:BITTADdress? TRIGGer:EINTerval:EVENt<x>: LOGic:12CBus:ADATa:BITTADdress? HEXA  Cueries all settings related to the 10-bit address of the logic I<sup>2</sup>C bus trigger in hexadecimal notation.  5-3 LOGic:12CBus:ADATa:BITADdress? HEXA  Cueries all settings related to the 7-bit address of the logic I<sup>2</sup>C bus trigger in binary notation or queries the current setting.  Sets the 10-bit address of the logic I<sup>2</sup>C bus trigger in binary notation or queries the current setting.  Cueries all settings related to the 7-bit address of the logic I<sup>2</sup>C bus trigger.  Sets the 10-bit address of the logic I<sup>2</sup>C bus trigger in binary notation or queries the current setting.  Sets the 7-bit address of the logic I<sup>2</sup>C bus trigger in binary notation or queries the current setting.  PATTERN  Cueries all settings related to the 7-bit + Sub address of the logic I<sup>2</sup>C bus trigger.  Sets the 7-bit address of the logic I<sup>2</sup>C bus trigger in binary notation or queries the current setting.  Cueries all settings related to the 7-bit + Sub address of the logic I<sup>2</sup>C bus trigger.  Sets the 7-bit address of the 7-bit + Sub address of the logic I<sup>2</sup>C bus trigger.  Cueries all settings related to the 7-bit + Sub address of the logic I<sup>2</sup>C bus trigger.  Sets the 7-bit address of the 7-bit + Sub address of the logic I<sup>2</sup>C bus trigger.  Cueries all settings related to the 5-bit + Sub address of the logic I<sup>2</sup>C bus trigger.  Sets the 7-bit address of the 7-bit + Sub address of the logic I<sup>2</sup>C bus trigger.  Cueries all settings</x></x></x></x></x></x></x></x>	-		5-336
.TRIGGE: EINTERVAL: EVENT.     Queries all settings related to the logic I <sup>2</sup> C bus trigger for each event.     5-3		Sold the dago, state trigger source of the logic of queries the burrent solding.	0 000
Sets the 10-bit address of the logic IPC bus trigger.		Queries all settings related to the logic I <sup>2</sup> C bus trigger for each event.	5-336
LIGGIG: 12CBus : ADATa : BUTTO address? :TRIGGET: EINTERVAL: EVENE < S :TRIGGET: EINTERVAL: E	LOGic: I2CBus?		
TRIGger:EINTerval:EVENt <x>:   LOGIc:12CBus:ADATa:BIT10address?    </x>	:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the address of the logic I <sup>2</sup> C bus trigger.	5-337
LOGIc:12CBus:ADATa:BIT10address? ITRIGger:EINTerval:EVENt <x>: LOGIc:12CBus:ADATa:BIT10address: HEXA  Sets the 10-bit address of the logic I<sup>2</sup>C bus trigger in hexadecimal notation. 5-3 LOGIc:12CBus:ADATa:BIT10address: HEXA  Sets the 10-bit address of the logic I<sup>2</sup>C bus trigger in binary notation or queries the current setting. PATTern  Sets the 10-bit address of the logic I<sup>2</sup>C bus trigger in binary notation or queries the current setting. PATTern  Sets the 7-bit address of the logic I<sup>2</sup>C bus trigger in binary notation or queries the current setting.  Sets the 7-bit address of the logic I<sup>2</sup>C bus trigger in hexadecimal notation. 5-3 LOGIc:12CBus:ADATa:BIT7ADdress: HEXA  Sets the 7-bit address of the logic I<sup>2</sup>C bus trigger in binary notation or queries the current setting. PATTern  Sets the 7-bit address of the logic I<sup>2</sup>C bus trigger in binary notation or queries the current setting. PATTern  Sets the 7-bit address of the logic I<sup>2</sup>C bus trigger in binary notation or queries all settings related to the 7-bit + Sub address of the logic I<sup>2</sup>C bus trigger.  Queries all settings related to the 7-bit + Sub address of the 10gic I<sup>2</sup>C bus trigger.  Queries all settings related to the 7-bit + Sub address of the 10gic I<sup>2</sup>C bus trigger.  Queries all settings related to the 7-bit + Sub address of the 10gic I<sup>2</sup>C bus trigger.  Queries all settings related to the 7-bit + Sub address of the 10gic I<sup>2</sup>C bus trigger.  Sets the 7-bit address of the 7-bit + Sub address of the 10gic I<sup>2</sup>C bus trigger.  Sets the 7-bit address of the 7-bit + Sub address of the 10gic I<sup>2</sup>C bus trigger.  Sets the 7-bit address of the 7-bit + Sub address of the 10gic I<sup>2</sup>C bus trigger.  Sets the 7-bit address of the 7-bit + Sub address of the 10gic I<sup>2</sup>C bus trigger.  Sets the 7-bit address of the 7-bit + Sub address of the 10gic I<sup>2</sup>C bus trigger.  Sets the 3-bit address of the 10gic I<sup>2</sup>C bus trigger or queries the current setting.  Sets the sub address of the 1-bit + Sub address of the 10gic I<sup>2</sup>C bus trigger.  Sets the address of the 1-bit + S</x>	LOGic:I2CBus:ADATa?		
Sets the 10-bit address of the logic I²C bus trigger in hexadecimal notation.   5-3	1	Queries all settings related to the 10-bit address of the logic I <sup>2</sup> C bus trigger.	5-337
LOGIC.I2CBus:ADATa:BIT10address: HEXA  Sets the 10-bit address of the logic I <sup>2</sup> C bus trigger in binary notation or queries the current setting. PATTern  (Queries all settings related to the 7-bit address of the logic I <sup>2</sup> C bus trigger. Sets the 7-bit address of the logic I <sup>2</sup> C bus trigger in hexadecimal notation.  Sets the 7-bit address of the logic I <sup>2</sup> C bus trigger in hexadecimal notation.  Sets the 7-bit address of the logic I <sup>2</sup> C bus trigger in hexadecimal notation.  Sets the 7-bit address of the logic I <sup>2</sup> C bus trigger in hexadecimal notation.  Sets the 7-bit address of the logic I <sup>2</sup> C bus trigger in hexadecimal notation.  Sets the 7-bit address of the logic I <sup>2</sup> C bus trigger in hexadecimal notation.  Sets the 7-bit address of the logic I <sup>2</sup> C bus trigger in binary notation or queries the current setting.  PATTER  (TRIGGER: EINTERVAL: EVENT<**): LOGIC: 12CBus: ADATa: BIT7APsub?  SETS INTERVAL: EVENT **>: LOGIC: 12CBus: ADATa: BIT7APsub: ADDRESS: HEXA  (TRIGGER: EINTERVAL: EVENT **>: LOGIC: 12CBus: ADATa: BIT7APsub: ADDRESS: HEXA  (TRIGGER: EINTERVAL: EVENT **>: LOGIC: 12CBus: ADATa: BIT7APsub: ADDRESS: PATTERN  (TRIGGER: EINTERVAL: EVENT **>: COGIC: 12CBus: ADATa: BIT7APsub: ADDRESS: PATTERN  (TRIGGER: EINTERVAL: EVENT **>: COGIC: 12CBus: ADATa: BIT7APsub: ADDRESS: HEXA  (TRIGGER: EINTERVAL: EVENT **>: COGIC: 12CBus: ADATa: BIT7APsub:		Octobrillo 40 hit address of the besis 120 has taken as in heart being best from	F 007
HEXA  :TRIGger:EINTerval:EVENt <a>: COGic:IZCBus:ADATa:BITTADdress: COGic:IZCBus:ADATa:BITTADdress: COGic:IZCBus:ADATa:BITTADdress: COGic:IZCBus:ADATa:BITTADdress: LOGic:IZCBus:ADATa:BITTADdress: LOGic:IZCBus:ADATa:BITTADdress: LOGic:IZCBus:ADATa:BITTADdress: LOGic:IZCBus:ADATa:BITTADdress: LOGic:IZCBus:ADATa:BITTADdress: LOGic:IZCBus:ADATa:BITTADdress: LOGic:IZCBus:ADATa:BITTADdress: LOGic:IZCBus:ADATa:BITTADdress: LOGic:IZCBus:ADATa:BITTADdress: LOGic:IZCBus:ADATa:BITTAPsub: LOGic</a>		Sets the 10-bit address of the logic I <sup>2</sup> C bus trigger in nexadecimal notation.	5-337
Sets the 10-bit address of the logic I²C bus trigger in binary notation or queries the current setting.			
LOGIC: I2CBus: ADATa: BTT10address: PATTern  TRIGger: EINTerval: EVENt <x>: LOGIC: I2CBus: ADATa: BTT7ADdress?  ITRIGger: EINTerval: EVENt<x>: COGIC: I2CBus: ADATa: BTT7ADdress: HEXA  Sets the 7-bit address of the logic I2C bus trigger in hexadecimal notation.  Sets the 7-bit address of the logic I2C bus trigger in hexadecimal notation.  Sets the 7-bit address of the logic I2C bus trigger in hexadecimal notation.  Sets the 7-bit address of the logic I2C bus trigger in binary notation or queries the current setting.  PATTER  COGIC: I2CBus: ADATa: BTT7APsub?  ITRIGger: EINTerval: EVENt<x>: COGIC: I2CBus: ADATa: BTT7APsub: ADDRess?  ITRIGger: EINTerval: EVENt<x>: COGIC: I2CBus: ADATa: BTT7APsub: ADDRess: HEXA  ITRIGger: EINTerval: EVENt<x>: COGIC: I2CBus: ADATa: BTT7APsub: ADDRess: HEXA  ITRIGger: EINTerval: EVENt<x>: COGIC: I2CBus: ADATa: BTT7APsub: ADDRess: PATTern  ITRIGger: EINTerval: EVENt<x>: COGIC: I2CBus: ADATa: BTT7APsub: ADDRess: PATTern  ITRIGger: EINTerval: EVENt<x>: COGIC: I2CBus: ADATa: BTT7APsub: ADDRess: PATTern  ITRIGger: EINTerval: EVENt<x>: COGIC: I2CBus: ADATa: BTT7APsub: ADDRess: PATTern  ITRIGger: EINTerval: EVENt<x>: COGIC: I2CBus: ADATa: BTT7APsub: C</x></x></x></x></x></x></x></x></x></x>		Sets the 10-bit address of the logic I <sup>2</sup> C bus trigger in binary notation or	5-337
PATTERN   Codic: I2CBus: ADATa: BITTADdress?			000.
LOGic: I2CBus: ADATa: BIT7ADdress? :TRIGger: EINTerval: EVENt < x>: LOGic: I2CBus: ADATa: BIT7ADdress: HEXA  Sets the 7-bit address of the logic I²C bus trigger in hexadecimal notation.  Sets the 7-bit address of the logic I²C bus trigger in binary notation or queries the current setting.  PATTERN :TRIGger: EINTerval: EVENt < x>: LOGic: I2CBus: ADATa: BIT7ADsub? :TRIGger: EINTerval: EVENt < x>: LOGic: I2CBus: ADATa: BIT7APsub: ADDRess: -ITRIGger: EINTerval: EVENt < x>: COuries all settings related to the 7-bit address of the logic I²C bus trigger.  Queries all settings related to the 7-bit address of the P-bit + Sub address of the logic I²C bus trigger.  Queries all settings related to the 7-bit address of the F-bit + Sub address of the logic I²C bus trigger.  Sets the 7-bit address of the 7-bit address of the logic I²C bus trigger.  Queries all settings related to the 7-bit address of the F-bit + Sub address of the logic I²C bus trigger.  Sets the 7-bit address of the 7-bit + Sub address of the logic I²C bus trigger.  Sets the 7-bit address of the 7-bit + Sub address of the logic I²C bus trigger.  Sets the 7-bit address of the 7-bit + Sub address of the logic I²C bus trigger.  Sets the 7-bit address of the 7-bit + Sub address of the logic I²C bus trigger in binary notation or queries the current setting.  Sets the 7-bit address of the 7-bit + Sub address of the logic I²C bus trigger in binary notation or queries the current setting.  Sets the 7-bit address of the 7-bit + Sub address of the logic I²C bus trigger in binary notation or queries the current setting.  Queries all settings related to the 7-bit + Sub address of the 1-bit + Sub add			
TRIGger:EINTerval:EVENt <x>:   LOGic:I2CBus:ADATa:BIT7ADdress:     HEXA     TRIGger:EINTerval:EVENt<x>:   LOGic:I2CBus:ADATa:BIT7ADdress:     HEXA     TRIGger:EINTerval:EVENt<x>:   LOGic:I2CBus:ADATa:BIT7ADdress:     PATTern     LOGic:I2CBus:ADATa:BIT7ADdress:     PATTern     LOGic:I2CBus:ADATa:BIT7APsub?     LOGic:I2CBus:ADATa:BIT7APsub?     LOGic:I2CBus:ADATa:BIT7APsub:     ADDRess?     TRIGger:EINTerval:EVENt<x>:   LOGic:I2CBus:ADATa:BIT7APsub:     ADDRess:HEXA     LOGic:I2CBus:ADATa:BIT7APsub:     ADDRess:PATTern     TRIGger:EINTerval:EVENt<x>:     LOGic:I2CBus:ADATa:BIT7APsub:     ADDRess:PATTern     TRIGger:EINTerval:EVENt<x>:     Cogic:I2CBus:ADATa:BIT7APsub:     ADDRess:PATTern     TRIGger:EINTerval:EVENt<x>:     LOGic:I2CBus:ADATa:BIT7APsub:     ADDRess:PATTern     TRIGger:EINTerval:EVENt<x>:     LOGic:I2CBus:ADATa:BIT7APsub:     ADDRess:PATTern     TRIGger:EINTerval:EVENt<x>:     LOGic:I2CBus:ADATa:BIT7APsub:     ADDRess:PATTern     TRIGger:EINTerval:EVENt<x>:     LOGic:I2CBus:ADATa:BIT7APsub:     SADDress:PATTern     TRIGger:EINTerval:EVENt<x>:     Sets the sub address of the 7-bit + Sub address of the logic I²C bus trigger     In hexadecimal notation.     SADDress:PATTern     TRIGger:EINTerval:EVENt<x>:     Sets the sub address of the 7-bit + Sub address of the logic I²C bus trigger     Sets the sub address of the 7-bit + Sub address of the logic I²C bus trigger     Sets the sub address of the 7-bit + Sub address of the logic I²C bus trigger     Sets the sub address of the 7-bit + Sub address of the logic I²C bus trigger     Sets the address type of the logic I²C bus trigger or queries the current     Sets the address type of the logic I²C bus trigger or qu</x></x></x></x></x></x></x></x></x></x></x></x></x></x></x></x>	:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the 7-bit address of the logic I <sup>2</sup> C bus trigger.	5-337
LOGic:12CBus:ADATa:BIT7ADdress: HEXA  Sets the 7-bit address of the logic l²C bus trigger in binary notation or LOGic:12CBus:ADATa:BIT7ADdress: PATTERN :TRIGger:EINTerval:EVENt <x>: LOGic:12CBus:ADATa:BIT7APsub? :TRIGger:EINTerval:EVENt<x>: LOGic:12CBus:ADATa:BIT7APsub? :TRIGger:EINTerval:EVENt<x>: LOGic:12CBus:ADATa:BIT7APsub? :TRIGger:EINTerval:EVENt<x>: LOGic:12CBus:ADATa:BIT7APsub: ADDRess? :TRIGger:EINTerval:EVENt<x>: LOGic:12CBus:ADATa:BIT7APsub: ADDRess:HEXA  Sets the 7-bit address of the 7-bit address of the logic l²C bus trigger.  LOGic:12CBus:ADATa:BIT7APsub: ADDRess:HEXA  Sets the 7-bit address of the 7-bit + Sub address of the logic l²C bus trigger in binary notation.  Sets the 7-bit address of the 7-bit + Sub address of the logic l²C bus trigger.  LOGic:12CBus:ADATa:BIT7APsub: ADDRess:PATTern :TRIGger:EINTerval:EVENt<x>: LOGic:12CBus:ADATa:BIT7APsub: ADDRess:PATTern :TRIGger:EINTerval:EVENt<x>: LOGic:12CBus:ADATa:BIT7APsub: SADDress:HEXA :TRIGger:EINTerval:EVENt<x>: LOGic:12CBus:ADATa:BIT7APsub: SEts the sub address of the 7-bit + Sub address of the logic l²C bus trigger in binary notation or queries the current setting.  Sets the sub address of the 7-bit + Sub address of the logic l²C bus trigger in binary notation or queries the current setting.  Sets the address type of the logic l²C bus trigger or queries the current setting.  Sets the address type of the logic l²C bus trigger or queries the current setting.  Sets the address of the 1-bit + Sub address of the logic l²C bus trigger or queries the current setting.  Sets the address type of the logic l²C bus trigger or queries the current setting.  Sets the address of the 1-bit + Sub addres</x></x></x></x></x></x></x></x></x></x></x></x></x>	LOGic:I2CBus:ADATa:BIT7ADdress?		
### HEXA  ### TRIGger: EINTerval: EVENt<**>:  ### Sets the 7-bit address of the logic I²C bus trigger in binary notation or queries the current setting.  ### Sets the 7-bit address of the logic I²C bus trigger in binary notation or queries the current setting.  ### Sets the 7-bit address of the logic I²C bus trigger in binary notation or queries the current setting.  ### Sets the 7-bit address of the 7-bit + Sub address of the logic I²C bus trigger.  ### Sets the 7-bit address of the 7-bit + Sub address of the 7-bit + Sub address of the 100 pic I²C bus trigger.  ### Sets the 7-bit address of the 7-bit + Sub address of the 7-bit + Sub address of the 100 pic I²C bus trigger.  ### Sets the 7-bit address of the 7-bit + Sub address of the 100 pic I²C bus trigger.  ### Sets the 7-bit address of the 7-bit + Sub address of the 7-bit + Sub address of the 100 pic I²C bus trigger.  ### Sets the 7-bit address of the 7-bit + Sub address of the 100 pic I²C bus trigger.  ### Sets the 7-bit address of the 7-bit + Sub address of the 100 pic I²C bus trigger.  ### Sets the 7-bit address of the 7-bit + Sub address of the 100 pic I²C bus trigger.  ### Sets the 7-bit address of the 7-bit + Sub address of the 100 pic I²C bus trigger.  ### Sets the 7-bit address of the 7-bit + Sub address of the 100 pic I²C bus trigger.  ### Sets the 7-bit address of the 100 pic I²C bus trigger.  ### Sets the 7-bit address of the 100 pic I²C bus trigger.  ### Sets the 7-bit address of the 100 pic I²C bus trigger.  ### Sets the 7-bit address of the 100 pic I²C bus trigger.  ### Sets the 7-bit address of the 100 pic I²C bus trigger.  ### Sets the 7-bit address of the 7-bit + Sub address of the 100 pic I²C bus trigger.  ### Sets the 7-bit address of the 100 pic I²C bus trigger.  ### Sets the 8-bit address of the 100 pic I²C bus trigger.  ### Sets the 8-bit address of the 100 pic I²C bus trigger.  ### Sets the 8-bit address of the 100 pic I²C bus trigger.  ### Sets the 100 pic I²C bus trigger.  ### Sets the 100 pic I²C bus trigger.  ### Sets the 100 pic I	_	Sets the 7-bit address of the logic I <sup>2</sup> C bus trigger in hexadecimal notation.	5-337
:TRIGger:EINTerval:EVENt <x>: LOGic:I2CBus:ADATa:BIT7ADdress: PATTern  Queries all settings related to the 7-bit + Sub address of the logic I<sup>2</sup>C bus trigger.  ITRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: LOGic:I2CBus:ADATa:BIT7APsub: ADDRess: :TRIGger:EINTerval:EVENt<x>: COuries all settings related to the 7-bit address of the logic I<sup>2</sup>C bus trigger.  Sets the 7-bit address of the 7-bit address of the logic I<sup>2</sup>C bus trigger.  Queries all settings related to the 7-bit address of the 7-bit + Sub address of the logic I<sup>2</sup>C bus trigger.  Sets the 7-bit address of the 7-bit + Sub address of the logic I<sup>2</sup>C bus trigger in binary notation or queries the current setting.  Sets the 7-bit address of the 7-bit + Sub address of the 10-bit + Sub</x></x></x>			
LOGic:I2CBus:ADATa:BIT7ADdress: PATTern :TRIGger:EINTerval:EVENt <x>: LOGic:I2CBus:ADATa:BIT7APsub? :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: ADDRess? :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: ADDRess:HEXA :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: ADDRess:PATTern :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: ADDRess:PATTern :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: ADDRess:PATTern :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: ADDRess:PATTern :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: ADDRess:HEXA :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: ADDRess:HEXA :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: SADDress:HEXA :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: SADDress:HEXA :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: SADDress:HEXA :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: SADDress:HEXA :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: SADDress:PATTern :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: SADDress:PATTern :TRIGger:EINTerval:EVENt<x>: Sets the sub address of the 7-bit + Sub address of the logic I²C bus trigger in hexadecimal notation.  SADDress:PATTern :TRIGger:EINTerval:EVENt<x>: Sets the sub address of the 7-bit + Sub address of the logic I²C bus trigger in binary notation or queries the current setting.  SADDress:PATTern :TRIGger:EINTerval:EVENt<x>: Sets the address type of the logic I²C bus trigger or queries the current setting.  TRIGger:EINTerval:EVENt<x>: Queries all settings related to the clock of the logic I²C bus trigger.  5-3  COGic:I2CBus:ADATa:TYPE  Sets the address type of the logic I²C bus trigger or queries the current setting.  5-3  COGIC:I2CBus:CLOCK?  5-3  COGIC:I2CBus:CLOCK?  5-4  COGIC:I2CBus:CLOCK?  5-5  COGIC:I2CBus:CLOCK?  5-7  COURTED  5-8  COGIC:I2CBus:CLOCK?  5-8  COGIC:I2CBus:CLOCK?  5-9  COGIC:I2CBus:CLOCK?  5-9  COGIC:I2CBus:CLOCK?  5-9  COGIC:I2CBus:CLOCK?  5-9  COGIC:I2CBus:C</x></x></x></x></x></x></x></x></x></x></x></x></x></x></x></x></x></x></x>		Cata the 7 hit address of the lastic 120 has trianged in him on a station or	F 220
PATTERN  :TRIGGER:EINTERVAL:EVENT< :X>:  Queries all settings related to the 7-bit + Sub address of the logic l²C bus trigger.  :TRIGGER:EINTERVAL:EVENT< :X			5-338
:TRIGger:EINTerval:EVENt <x>: LOGic:I2CBus:ADATa:BIT7APsub?  :TRIGger:EINTerval:EVENt<x>: COueries all settings related to the 7-bit + Sub address of the logic l²C bus trigger.  Queries all settings related to the 7-bit address of the 7-bit + Sub address of the 7-bit + Sub address of the 1-bit + Sub address of the 1-b</x></x>		queries the current setting.	
LOGic:I2CBus:ADATa:BIT7APsub?  :TRIGger:EINTerval:EVENt <x>:</x>		Queries all settings related to the 7-bit + Sub address of the logic I <sup>2</sup> C bus	5-338
:TRIGger:EINTerval:EVENt <x>: LOGic:I2CBus:ADATa:BIT7APsub: ADDRess? :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: ADDRess:HEXA :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: ADDRess:HEXA :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: ADDRess:ADATa:BIT7APsub: ADDRess:PATTern :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: ADDRess:HEXA :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: ADDRess:PATTern :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: ADDRess:PATTern :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: ADDRess:PATTern :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:ADATa:BIT7APsub: ADDRess:PATTern :TRIGger:EINTerval:EVENt<x>: Sets the sub address of the 7-bit + Sub address of the logic I²C bus trigger in binary notation or queries the current setting.  Sets the sub address of the 7-bit + Sub address of the logic I²C bus trigger in binary notation or queries the current setting.  Sets the address type of the logic I²C bus trigger or queries the current setting.  Sets the address type of the logic I²C bus trigger or queries the current setting.  Sets the address type of the logic I²C bus trigger or queries the current setting.  Sets the address type of the logic I²C bus trigger or queries the current setting.  Sets the clock trace for the logic I²C bus trigger or queries the current setting.  Sets the clock trace for the logic I²C bus trigger or queries the current setting.</x></x></x></x></x></x></x></x></x></x></x></x></x></x>			
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:TRIGger:EINTerval:EVENt <x>: LOGic:I2CBus:ADATa:TYPE :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:CLOCk?  :TRIGger:EINTerval:EVENt<x>: LOGic:I2CBus:CLOCk?  :TRIGger:EINTerval:EVENt<x>: Sets the address type of the logic I²C bus trigger or queries the current  5-3  Sets the address type of the logic I²C bus trigger or queries the current  5-3  Sets the address type of the logic I²C bus trigger or queries the current  5-3  Sets the address type of the logic I²C bus trigger or queries the current  5-3  Sets the address type of the logic I²C bus trigger or queries the current  5-3</x></x></x></x>		in binary notation or queries the current setting.	
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:TRIGger:EINTerval:EVENt <x>: Queries all settings related to the clock of the logic l<sup>2</sup>C bus trigger.  LOGic:I2CBus:CLOCk?  :TRIGger:EINTerval:EVENt<x>: Sets the clock trace for the logic l<sup>2</sup>C bus trigger or queries the current  5-3</x></x>			5-339
LOGic:I2CBus:CLOCk? :TRIGger:EINTerval:EVENt <x>: Sets the clock trace for the logic I<sup>2</sup>C bus trigger or queries the current 5-3</x>		<u> </u>	E 220
:TRIGger:EINTerval:EVENt <x>: Sets the clock trace for the logic I<sup>2</sup>C bus trigger or queries the current 5-3</x>		Queries all settings related to the clock of the logic ITC bus trigger.	5-339
		Sets the clock trace for the logic I <sup>2</sup> C bus trigger or queries the current	5-339
LOGic:I2CBus:CLOCk:SOURce setting.	5		3 333

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Command	Function	Page
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the data of the logic I <sup>2</sup> C bus trigger.	5-339
LOGic:I2CBus:DATA?		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the number of settings for the logic I <sup>2</sup> C bus trigger or queries the	5-340
LOGic:I2CBus:DATA:BYTE	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the determination method for the data of the logic I <sup>2</sup> C bus trigger (match	5-340
LOGic: I2CBus: DATA: CONDition	/ no match) or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the pattern comparison position for the data of the logic I <sup>2</sup> C bus trigger	5-340
LOGic:I2CBus:DATA:DPOSition	or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data of the logic I <sup>2</sup> C bus trigger in hexadecimal notation.	5-340
LOGic:I2CBus:DATA:HEXA <x></x>	Solo and data of the region of a sad angger in northward in a reduction	0 0 .0
:TRIGger:EINTerval:EVENt <x>:</x>	Enables/disables the data conditions of the logic I <sup>2</sup> C bus trigger or queries	5-340
LOGic: I2CBus: DATA: MODE	the current setting.	0 0 10
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data for the logic I <sup>2</sup> C bus trigger in binary notation or queries the	5-340
LOGic:I2CBus:DATA:PATTern <x></x>	current setting.	0 0 10
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the pattern comparison start position for the data of the logic I <sup>2</sup> C bus	5-341
LOGic: I2CBus: DATA: PMODe	trigger or queries the current setting.	0 0 7 1
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data trace for the logic I <sup>2</sup> C bus trigger or queries the current	5-341
LOGic:I2CBus:DATA:SOURce	setting.	3 341
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the general call of the logic I <sup>2</sup> C bus trigger.	5-341
LOGic:I2CBus:GCAL1?	defices all settings related to the general call of the logic ( o bus trigger.	3-341
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the 7-bit master address of the general call of	5 2/1
LOGic:I2CBus:GCALl:BIT7maddress?	the logic I <sup>2</sup> C bus trigger.	3-341
	Sets the 7-bit master address of the general call of the logic I <sup>2</sup> C bus trigger	E 2/1
:TRIGger:EINTerval:EVENt <x>:</x>	in hexadecimal notation.	5-341
LOGic:I2CBus:GCAL1:BIT7maddress: HEXA	In nexadecimal notation.	
	Coto the 7 hit meeter address of the general cell of the legic I <sup>2</sup> C has trigger	E 244
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the 7-bit master address of the general call of the logic I <sup>2</sup> C bus trigger	5-341
LOGic:I2CBus:GCAL1:BIT7maddress:	in binary notation or queries the current setting.	
PATTern	Cote the time of the accord byte of the general call of the logic 120 byte	5-342
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the type of the second byte of the general call of the logic I <sup>2</sup> C bus	5-342
LOGic:I2CBus:GCAL1:SBYTe (Second	trigger or queries the current setting.	
Byte)	Coto the triager made for the legic I2C has triager or queries the current	5-342
:TRIGger:EINTerval:EVENt <x>: LOGic:I2CBus:MODE</x>	Sets the trigger mode for the logic I <sup>2</sup> C bus trigger or queries the current setting.	5-342
		5-342
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the NON-ACK Ignore mode of the logic I <sup>2</sup> C	5-342
LOGic:12CBus:NAIGnore?	bus trigger.  Sets whether to ignore NON ACK in high speed mode of the logic I <sup>2</sup> C bus	F 242
:TRIGger:EINTerval:EVENt <x>:</x>		5-342
LOGic:12CBus:NAIGnore:HSMode	trigger or queries the current setting.	F 242
:TRIGger:EINTerval:EVENt <x>:</x>	Sets whether to ignore NON ACK in read access mode of the logic I <sup>2</sup> C bus	5-342
LOGic:I2CBus:NAIGnore:RACCess	trigger or queries the current setting.	5.040
:TRIGger:EINTerval:EVENt <x>:</x>	Sets whether to ignore NON ACK in the start byte of the logic I <sup>2</sup> C bus	5-342
LOGic:I2CBus:NAIGnore:SBYTe (Start	trigger or queries the current setting.	
Byte)	On all and the second at the first and he dealth and an and an all and a first and a	5.040
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the start byte/high speed mode of the logic	5-343
LOGic:I2CBus:SBHSmode?	I <sup>2</sup> C bus trigger.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the type of the start byte/high speed mode of the logic I <sup>2</sup> C bus trigger	5-343
LOGic:I2CBus:SBHSmode:TYPE	or queries the current setting.	5.040
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the logic LIN bus signal trigger of each event.	5-343
LOGic:LINBus?		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic LIN bus signal trigger break length or queries the current	5-343
LOGic:LINBus:BLENgth	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the bit rate (data transfer rate) of the logic LIN bus signal trigger or	5-344
LOGic:LINBus:BRATe	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the logic LIN bus signal trigger error .	5-344
LOGic:LINBus:ERRor?		
:TRIGger:EINTerval:EVENt <x>:</x>		5-344
LOGic:LINBus:ERRor:CHECksum	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the number of error data bytes for the logic LIN bus signal trigger or	5-344
LOGic:LINBus:ERRor:DSIZe	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic LIN bus signal trigger Framing error or queries the current	5-344
LOGic:LINBus:ERRor:FRAMing	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic LIN bus signal trigger Parity error or queries the current	5-344
_	I and	I
LOGic:LINBus:ERRor:PARity	setting.	
LOGic:LINBus:ERRor:PARity :TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic LIN bus signal trigger Synch error or queries the current	5-345

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Command	Function	Page
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic LIN bus signal trigger Timeout error or queries the current	5-345
LOGic:LINBus:ERRor:TOUT	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the IDData of the logic LIN bus signal trigger	5-345
LOGic:LINBus:IDData?		
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the Data Field of the logic LIN bus signal	5-345
LOGic:LINBus:IDData:DATA?	trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data byte order of the logic LIN bus signal trigger or queries the	5-345
LOGic:LINBus:IDData:DATA:BORDer	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data conditions of the Data Field of the logic LIN bus signal trigger	5-345
LOGic:LINBus:IDData:DATA:	or queries the current setting.	
CONDition		5.040
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the comparison data of the logic LIN bus signal trigger data or queries	5-346
LOGic:LINBus:IDData:DATA:DATA <x></x>	the current setting.	5-346
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the number of bytes of data in the Data Field of the logic LIN bus signal trigger or queries the current setting.	5-346
LOGic:LINBus:IDData:DATA:DSIZe	Sets the data in the Data Field of the logic LIN bus signal trigger in	5-346
:TRIGger:EINTerval:EVENt <x>: LOGic:LINBus:IDData:DATA:HEXA</x>	hexadecimal.	3-346
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the MSB/LSB bit of the logic LIN bus signal trigger or queries the	5-346
LOGic:LINBus:IDData:DATA:MSBLsb	current setting.	0-040
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data of the Data Field of the logic LIN bus signal trigger in binary	5-346
LOGic:LINBus:IDData:DATA:PATTern	or queries the current setting.	3 070
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data sign of the logic LIN bus signal trigger or queries the current	5-347
LOGic:LINBus:IDData:DATA:SIGN	setting.	3 347
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the ID of the logic LIN bus signal trigger .	5-347
LOGic:LINBus:IDData:ID?	addition all collarings rotated to the 12 of the logic Envisue digital digger.	0 0 17
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic LIN bus signal trigger ID in hexadecimal.	5-347
LOGic:LINBus:IDData:ID:HEXA		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic LIN bus signal trigger ID in binary or queries the current	5-347
LOGic:LINBus:IDData:ID:PATTern	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the OR conditions of the logic LIN bus signal	5-347
LOGic:LINBus:IDOR?	trigger.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the number of bytes of data in the Data Field of the OR condition of	5-348
LOGic:LINBus:IDOR:DSIZe	the logic LIN bus signal trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to each IDData of the OR condition of the logic	5-348
LOGic:LINBus:IDOR:IDData <x>?</x>	LIN bus signal trigger.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to each Data Field of the OR condition of the	5-348
LOGic:LINBus:IDOR:IDData <x>:DATA?</x>	logic LIN bus signal trigger .	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the byte order of each data of the OR conditions of the logic LIN bus	5-348
LOGic:LINBus:IDOR:IDData <x>:DATA:</x>	signal trigger or queries the current setting.	
BORDer		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data conditions of the Data Field of each OR condition of the logic	5-349
LOGic:LINBus:IDOR:IDData <x>:DATA:</x>	LIN bus signal trigger or queries the current setting.	
CONDition		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the comparison data of each data of the OR conditions of the logic	5-349
LOGic:LINBus:IDOR:IDData <x>:DATA:</x>	LIN bus signal trigger or queries the current setting.	
DATA <x></x>	Outside data to seek Data Field (the OB and the Color of	5.046
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data in each Data Field of the OR condition of the logic LIN bus	5-349
LOGic:LINBus:IDOR:IDData <x>:DATA:</x>	signal trigger in hexadecimal.	
HEXA	Coto the MCD/I CD bit of each data of the OD and distance the larger LINE	E 240
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the MSB/LSB bit of each data of the OR condition of the logic LIN bus	jo-349
LOGic:LINBus:IDOR:IDData <x>:DATA: MSBLsb</x>	signal trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data of each Data Field of the OR conditions of the logic LIN bus	5-349
LOGic:LINBus:IDOR:IDData <x>:DATA:</x>	signal trigger or queries the current setting.	0-048
PATTern	Signal anggor of quoties the surrent setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the sign of each data of the OR conditions of the logic LIN bus signal	5-350
LOGic:LINBus:IDOR:IDData <x>:DATA:</x>	trigger or queries the current setting.	3 550
SIGN		
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to each ID of the OR condition of the logic LIN	5-350
LOGic:LINBus:IDOR:IDData <x>:ID?</x>	bus signal trigger.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets each ID of the OR conditions of the logic LIN bus signal trigger in	5-350
LOGic:LINBus:IDOR:IDData <x>:ID:</x>	hexadecimal.	
неха		
HEXA		

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Command	Function	Page
:TRIGger:EINTerval:EVENt <x>:</x>	Sets each ID of the OR conditions of the logic LIN bus signal trigger binary	5-350
LOGic:LINBus:IDOR:IDData <x>:ID:</x>	or queries the current setting.	
PATTern		
:TRIGger:EINTerval:EVENt <x>:</x>	Enables (1) or disables (0) each condition for each OR condition of the	5-350
LOGic:LINBus:IDOR:IDData <x>:MODE</x>	logic LIN bus signal trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic LIN bus signal trigger mode or queries the current setting.	5-350
LOGic:LINBus:MODE		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic LIN bus signal trigger revision (1.3 or 2.0) or queries the	5-351
LOGic:LINBus:REVision	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the trigger source of the logic LIN bus signal trigger or queries the	5-351
LOGic:LINBus:SOURce	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic LIN bus signal trigger sample point or queries the current	5-351
LOGic:LINBus:SPOint	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the logic serial pattern trigger of each event.	5-351
LOGic:SPATtern? (Serial Pattern)		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the bit rate for the logic serial pattern trigger or queries the current	5-351
LOGic:SPATtern:BITRate	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Clears (set to don't care) all patterns of the logic serial pattern trigger.	5-351
LOGic:SPATtern:CLEar		
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the clock for the logic serial pattern trigger.	5-352
LOGic:SPATtern:CLOCk?		
:TRIGger:EINTerval:EVENt <x>:</x>	Enables/disables the clock for the logic serial analysis pattern trigger or	5-352
LOGic:SPATtern:CLOCk:MODE	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the polarity of the clock trace of the logic serial pattern trigger or	5-352
LOGic:SPATtern:CLOCk:POLarity	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the clock trace for the logic serial pattern trigger or queries the current	5-352
LOGic:SPATtern:CLOCk:SOURce	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Enables/disables the chip select for the logic serial analysis pattern trigger	5-352
LOGic:SPATtern:CS	or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the data for the logic serial pattern trigger.	5-352
LOGic:SPATtern:DATA?		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the active level of the data for the logic serial pattern trigger or queries	5-353
LOGic:SPATtern:DATA:ACTive	the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data rate for the logic serial pattern trigger or queries the current	5-353
LOGic:SPATtern:DATA:SOURce	setting.	5.050
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the pattern of the logic serial pattern trigger in hexadecimal notation.	5-353
LOGic:SPATtern:HEXA	Outside all pottings valeted to the letch for the legic porial pottern trigger	F 252
:TRIGger:EINTerval:EVENt <x>: LOGic:SPATtern:LATCh?</x>	Queries all settings related to the latch for the logic serial pattern trigger.	5-353
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the polarity of the latch trace of the logic serial pattern trigger or	5-353
LOGic:SPATtern:LATCh:POLarity	queries the current setting.	5-353
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the latch trace for the logic serial pattern trigger or queries the current	5 254
LOGic:SPATtern:LATCh:SOURce	setting.	3-334
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the pattern of the logic serial pattern trigger in binary notation, or	5-354
LOGic:SPATtern:PATTern	queries the current setting.	0 004
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the logic SPI bus trigger for each event.	5-354
LOGic:SPIBus?	Quento all country rotates to the logic of 1 but thigger for each event.	0 00 .
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the bit order for the logic SPI bus trigger or queries the current or	5-354
LOGic:SPIBus:BITorder	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the clock of the logic SPI bus trigger.	5-355
LOGic:SPIBus:CLOCk?		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the polarity of the clock trace for the logic SPI bus trigger or queries	5-355
LOGic:SPIBus:CLOCk:POLarity	the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the clock trace for the logic SPI bus trigger or queries the current	5-355
LOGic:SPIBus:CLOCk:SOURce	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the chip select of the logic SPI bus trigger.	5-355
LOGic:SPIBus:CS?		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the active level of the chip select for the logic SPI bus trigger or	5-355
LOGic:SPIBus:CS:ACTive	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the chip select trace for the logic SPI bus trigger or queries the current	5-355
LOGic:SPIBus:CS:SOURce	setting.	
		E SEC
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to each data of the logic SPI bus trigger.	5-356

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Command	Function	Page
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the number of settings for each data of the logic SPI bus trigger or	5-356
LOGic:SPIBus:DATA <x>:BYTE</x>	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the determination method for the data of the logic SPI bus trigger	5-356
LOGic:SPIBus:DATA <x>:CONDition</x>	(match / no match) or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the pattern comparison start position for the data of the logic SPI bus	5-356
LOGic:SPIBus:DATA <x>:DPOSition</x>	trigger or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data of the logic SPI bus trigger in hexadecimal notation.	5-356
LOGic:SPIBus:DATA <x>:HEXA<x></x></x>		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets each data of the logic SPI bus trigger in binary notation or queries the	5-356
LOGic:SPIBus:DATA <x>:PATTern<x></x></x>	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the trace of each data of the logic SPI bus trigger or queries the	5-357
LOGic:SPIBus:DATA <x>:SOURce</x>	current setting.	
:TRIGger:EINTerval:EVENt <x>: LOGic:SPIBus:MODE</x>	Sets the wiring method (3-wire/4-wire) of the logic SPI bus trigger or queries the current setting.	5-357
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the logic state trigger.	5-357
LOGic:STATe?		
:TRIGger:EINTerval:EVENt <x>: LOGic:STATe:BIT?</x>	Queries all settings related to the bit of the logic state trigger.	5-358
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the condition to be satisfied for the bit of the logic state trigger or	5-358
LOGic:STATe:BIT:{A <y> B<y> C<y> </y></y></y>	queries the current setting.	
D <y>}</y>		
:TRIGger:EINTerval:EVENt <x>: LOGic:STATe:BIT:CLEar</x>	Clears the entire condition to be satisfied for the bit of the logic state trigger (set to don't care) or queries the current setting.	5-358
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic of the logic state trigger or queries the current setting.	5-358
LOGic:STATe:BIT:LOGic		
:TRIGger:EINTerval:EVENt <x>: LOGic:STATe:GROup<x>?</x></x>	Queries all settings related to the group of the logic state trigger.	5-358
:TRIGger:EINTerval:EVENt <x>:</x>	Clears the entire condition to be satisfied for the group of the logic state	5-358
LOGic:STATe:GROup <x>:CLEar</x>	trigger (set to don't care) or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the determination condition for the group of the logic state trigger or	5-359
LOGic:STATe:GROup <x>:CONDition</x>	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the condition to be satisfied for the group of the logic state trigger in	5-359
LOGic:STATe:GROup <x>:HEXA</x>	hexadecimal notation.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the condition to be satisfied for the group of the logic state trigger in	5-359
LOGic:STATe:GROup <x>:PATTern</x>	binary notation or queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the symbol item for each group of the logic state trigger.	5-359
LOGic:STATe:GROup <x>:SYMBol</x>		
:TRIGger:EINTerval:EVENt <x>: LOGic:STATe:TYPE</x>	Sets the setup type of the logic state trigger or queries the current setting.	5-359
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the logic UART bus signal trigger of each	5-359
LOGic:UART?	event.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic UART bus signal trigger bit rate (data transfer rate) or	5-360
LOGic:UART:BRATe	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>: LOGic:UART:DATA?</x>	Queries all settings related to the data of the logic UART bus signal trigger	5-360
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic UART bus signal trigger data bit order or queries the current	5-360
LOGic:UART:DATA:BITorder	setting.	000
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the number of bytes of the logic UART bus signal trigger data or	5-360
LOGic:UART:DATA:DSIZe	queries the current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic UART bus signal trigger data in hexadecimal.	5-360
LOGic:UART:DATA:HEXA		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data of the logic UART bus signal trigger in binary or queries the	5-360
LOGic:UART:DATA:PATTern	current setting.	
:TRIGger:EINTerval:EVENt <x>: LOGic:UART:ERRor?</x>	Queries all settings related to the logic UART bus signal trigger error .	5-361
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic UART bus signal trigger Framing error or queries the current	5-361
LOGic:UART:ERRor:FRAMing	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic UART bus signal trigger Parity error or queries the current	5-361
LOGic:UART:ERRor:PARity	setting.	

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Command	Function	Page
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic UART bus signal trigger Parity mode or queries the current	5-361
LOGic:UART:ERRor:PMODe	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic UART bus signal trigger format or queries the current setting.	5-361
LOGic:UART:FORMat		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic UART bus signal trigger mode or queries the current setting.	5-361
LOGic: UART: MODE		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic UART bus signal trigger polarity or queries the current	5-362
LOGic:UART:POLarity	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic UART bus signal trigger source or queries the current setting.	5-362
LOGic:UART:SOURce		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic UART bus signal sample point or queries the current setting.	5-362
LOGic:UART:SPOint		
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the logic pulse width trigger.	5-362
LOGic:WIDTh?		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the determination mode of the logic pulse width trigger or queries the	5-362
LOGic:WIDTh:MODE	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the polarity of the logic pulse width trigger or queries the current	5-363
LOGic:WIDTh:POLarity	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the trigger source of the logic pulse width trigger or queries the current	5-363
LOGic:WIDTh:SOURce	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the logic pulse width of the pulse width trigger or queries the current	5-363
LOGic:WIDTh:TIME <x></x>	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the serial pattern trigger of the event.	5-363
SPATtern?		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the bit rate of the serial pattern trigger or queries the current setting.	5-363
SPATtern:BITRate		
:TRIGger:EINTerval:EVENt <x>:</x>	Clears the entire pattern of the serial pattern trigger.	5-364
SPATtern:CLEar		
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to clock of the serial pattern trigger.	5-364
SPATtern:CLOCk?		
:TRIGger:EINTerval:EVENt <x>:</x>	Enables/Disables the clock of the serial pattern trigger or queries the	5-364
SPATtern: CLOCk: MODE	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the polarity of the clock trace of the serial pattern trigger or queries the	5-364
SPATtern:CLOCk:POLarity	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the clock trace of the serial pattern trigger or queries the current	5-364
SPATtern: CLOCk: SOURce	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Enables/Disables the chip select of the serial pattern trigger or queries the	5-364
SPATtern: CS	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to data of the serial pattern trigger.	5-364
SPATtern:DATA?		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the active level of the data of the serial pattern trigger or queries the	5-365
SPATtern:DATA:ACTive	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the data trace of the serial pattern trigger or queries the current	5-365
SPATtern:DATA:SOURce	setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the pattern of the serial pattern trigger in hexadecimal notation.	5-365
SPATtern: HEXA		
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to latch of the serial pattern trigger.	5-365
SPATtern:LATCh?		
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the polarity of the latch trace of the serial pattern trigger or queries the	5-365
SPATtern:LATCh:POLarity	current setting.	
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the latch trace of the serial pattern trigger or queries the current	5-365
SPATtern:LATCh:SOURce	setting.	F 600
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the pattern of the serial pattern trigger in binary notation or queries the	5-366
SPATtern: PATTern	current setting.	F 000
:TRIGger:EINTerval:EVENt <x>:</x>	Queries all settings related to the SPI bus trigger of the event.	5-366
SPIBus?	Out of the hill and an of the CDU at the control of the CDU at the control of the CDU at the control of the con	F 005
:TRIGger:EINTerval:EVENt <x>:</x>	Sets the bit order of the SPI bus trigger or queries the current setting.	5-366
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:TRIGger:EINTerval:EVENt <x>: SPIBus:DATA<x>:PATTern<x></x></x></x>	Sets the data of the SPI bus trigger in binary notation or queries the current	5-368
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:TRIGger:ENHanced:FLEXray:IDOR:   Sets the data sign of the Data Field of each OR condition of the FLEXRAY   IDData <x>:DATA:SIGN   bus signal trigger or queries the current setting.</x>	5-390
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:TRIGger:ENHanced:FLEXray:IDOR: Sets each Indicator Payload preamble of the OR condition for the	5-392
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IDData <x>: MODE FLEXRAY bus signal trigger or queries the current setting.</x>	
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:TRIGger:ENHanced:12CBus? Queries all settings related to the I <sup>2</sup> C bus trigger.	5-393
:TRIGger:ENHanced:I2CBus:ADATa? Queries all settings related to the address of the I2C bus trigger.	5-393

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:TRIGger:ENHanced:I2CBus:ADATa: BIT10address:HEXA	Sets the 10-bit address of the I <sup>2</sup> C bus trigger in hexadecimal notation.	5-393
:TRIGger:ENHanced:I2CBus:ADATa: BIT10address:PATTern	Sets the 10-bit address of the I <sup>2</sup> C bus trigger in binary notation or queries the current setting.	5-393
:TRIGger:ENHanced:I2CBus:ADATa:	Queries all settings related to the 7-bit address of the I <sup>2</sup> C bus trigger.	5-394
BIT7ADdress? :TRIGger:ENHanced:I2CBus:ADATa:	Sets the 7-bit address of the I <sup>2</sup> C bus trigger in hexadecimal notation.	5-394
BIT7ADdress:HEXA :TRIGger:ENHanced:I2CBus:ADATa:	Sets the 7-bit address of the I <sup>2</sup> C bus trigger in binary notation or queries	5-394
BIT7ADdress:PATTern :TRIGger:ENHanced:I2CBus:ADATa:	the current setting.  Queries all settings related to the 7-bit + Sub address of the I <sup>2</sup> C bus trigger.	5-394
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:TRIGger:ENHanced:I2CBus:ADATa: BIT7APsub:ADDRess:HEXA	of the I <sup>2</sup> C bus trigger.  Sets the 7-bit address of the 7-bit + Sub address of the I <sup>2</sup> C bus trigger in hexadecimal notation.	5-394
:TRIGger:ENHanced:I2CBus:ADATa: BIT7APsub:ADDRess:PATTern	Sets the 7-bit address of the 7-bit + Sub address of the I <sup>2</sup> C bus trigger in binary notation or queries the current setting.	5-394
:TRIGger:ENHanced:I2CBus:ADATa: BIT7APsub:SADDress?	Queries all settings related to the Sub address of the 7-bit + Sub address of the I <sup>2</sup> C bus trigger.	5-394
:TRIGger:ENHanced:I2CBus:ADATa: BIT7APsub:SADDress:HEXA	Sets the Sub address of the 7-bit + Sub address of the I <sup>2</sup> C bus trigger in hexadecimal notation.	5-395
:TRIGger:ENHanced:I2CBus:ADATa: BIT7APsub:SADDress:PATTern	Sets the Sub address of the 7-bit + Sub address of the I <sup>2</sup> C bus trigger in binary notation or queries the current setting.	5-395
:TRIGger:ENHanced:I2CBus:ADATa: TYPE	Sets the address type of the I <sup>2</sup> C bus trigger or queries the current setting.	5-395
:TRIGger:ENHanced:I2CBus:CLOCk?	Queries all settings related to the clock of the I <sup>2</sup> C bus trigger.	5-395
:TRIGger:ENHanced:I2CBus:CLOCk: SOURce	Sets the clock trace of the I <sup>2</sup> C bus trigger or queries the current setting.	5-395
:TRIGger:ENHanced:I2CBus:DATA?	Queries all settings related to the data of the I <sup>2</sup> C bus trigger.	5-395
:TRIGger:ENHanced:I2CBus:DATA: BYTE	Sets the number of data bytes of the I <sup>2</sup> C bus trigger or queries the current setting.	5-395
:TRIGger:ENHanced:I2CBus:DATA: CONDition	Sets the determination method (match or not match) of the data of the I <sup>2</sup> C bus trigger or queries the current setting.	5-395
:TRIGger:ENHanced:I2CBus:DATA: DPOSition	Sets the position for comparing the data pattern of the I <sup>2</sup> C bus trigger or queries the current setting.	5-396
:TRIGger:ENHanced:I2CBus:DATA: HEXA <x></x>	Sets the data of the I <sup>2</sup> C bus trigger in hexadecimal notation.	5-396
:TRIGger:ENHanced:I2CBus:DATA: MODE	Enables/Disables the data conditions of the I <sup>2</sup> C bus trigger or queries the current setting.	5-396
:TRIGger:ENHanced:I2CBus:DATA: PATTern <x></x>	Sets the data of the I <sup>2</sup> C bus trigger in binary notation or queries the current setting.	5-396
:TRIGger:ENHanced:I2CBus:DATA: PMODe	Sets the pattern comparison start position mode of the data of the I <sup>2</sup> C bus trigger or queries the current setting.	5-396
:TRIGger:ENHanced:I2CBus:DATA: SOURce	Sets the data trace of the I <sup>2</sup> C bus trigger or queries the current setting.	5-396
:TRIGger:ENHanced:I2CBus:GCALl?	Queries all settings related to the general call of the I <sup>2</sup> C bus trigger.	5-396
:TRIGger:ENHanced:I2CBus:GCALl: BIT7maddress?	Queries all settings related to the 7-bit master address of the general call of the I <sup>2</sup> C bus trigger.	5-396
:TRIGger:ENHanced:I2CBus:GCALl: BIT7maddress:HEXA	Sets the 7-bit master address of the general call of the I <sup>2</sup> C bus trigger in hexadecimal notation.	5-397
:TRIGger:ENHanced:I2CBus:GCALl: BIT7maddress:PATTern	Sets the 7-bit master address of the general call of the I <sup>2</sup> C bus trigger in binary notation or queries the current setting.	5-397
:TRIGger:ENHanced:I2CBus:GCAL1: SBYTe	Sets the second byte type of the general call of the I <sup>2</sup> C bus trigger or queries the current setting.	5-397
:TRIGger:ENHanced:I2CBus:MODE	Sets the trigger mode of the I <sup>2</sup> C bus trigger or queries the current setting.	5-397

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:TRIGger:ENHanced:I2CBus:	Sets whether to ignore NON ACK in high speed mode of the I <sup>2</sup> C bus trigger	5-397
NAIGnore: HSMode	or queries the current setting.	
:TRIGger:ENHanced:I2CBus:	Sets whether to ignore NON ACK in read access mode of the I <sup>2</sup> C bus	5-397
NAIGnore:RACCess	trigger or queries the current setting.	
:TRIGger:ENHanced:I2CBus:	Sets whether to ignore NON ACK in the start byte of the I <sup>2</sup> C bus trigger or	5-397
NAIGnore:SBYTe	queries the current setting.	
:TRIGger:ENHanced:I2CBus:	Queries all settings related to the start byte and high speed mode of the I <sup>2</sup> C	5-398
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:TRIGger:ENHanced:LINBus:BLENgth	Sets the LIN bus signal trigger break length or queries the current setting.	5-398
:TRIGger:ENHanced:LINBus:BRATe	Sets the LIN bus signal trigger bitrate (data transfer rate) or queries the	5-398
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:TRIGger:ENHanced:LINBus:ERRor:	Sets the LIN bus signal trigger Parity error or queries the current setting.	5-399
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:TRIGger:ENHanced:LINBus:ERRor:	Sets the LIN bus signal trigger Synch error or queries the current setting.	5-399
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:TRIGger:ENHanced:LINBus:IDOR:	Sets the byte order of each data of the OR conditions of the LIN bus signal	5-402
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:TRIGger:ENHanced:LINBus:IDOR:	Sets the data in each Data Field of the OR condition of the LIN bus signal	5-403
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:TRIGger:ENHanced:LINBus:IDOR:	Sets the MSB/LSB bit of each data of the OR condition of the LIN bus	5-403
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:TRIGger:ENHanced:LINBus:IDOR:	Sets the data of each Data Field of the OR conditions of the LIN bus signal	5-403
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:TRIGger:ENHanced:LINBus:REVision	Sets the LIN bus signal trigger revision (1.3 or 2.0) or queries the current	5-404
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:TRIGger:ENHanced:LINBus:SOURce	Sets the LIN bus signal trigger source or queries the current setting.	5-404
:TRIGger:ENHanced:LINBus:SPOint	Sets the LIN bus signal trigger sample point or queries the current setting.	5-404
:TRIGger:ENHanced:SPATtern?	Queries all settings related to the serial pattern trigger.	5-404
:TRIGger:ENHanced:SPATtern:	Sets the bit rate of the serial pattern trigger or queries the current setting.	5-404
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:TRIGger:ENHanced:SPATtern:CLEar	Clears the entire pattern of the serial pattern trigger.	5-404
:TRIGger:ENHanced:SPATtern:CLOCk?	Queries all settings related to clock of the serial pattern trigger.	5-404
:TRIGger:ENHanced:SPATtern:CLOCk:	Enables/Disables the clock of the serial pattern trigger or queries the	5-405
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:TRIGger:ENHanced:SPATtern:CLOCk:	Sets the polarity of the clock trace of the serial pattern trigger or queries the	5-405
POLarity	current setting.	0 100
:TRIGger:ENHanced:SPATtern:CLOCk:	Sets the clock trace of the serial pattern trigger or queries the current	5-405
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:TRIGger:ENHanced:SPATtern:DATA:	Sets the active level of the data of the serial pattern trigger or queries the	5-405
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Sets the clock trace of the SPI bus trigger or queries the current setting.  5-407  Sets the active level of the chip select of the SPI bus trigger.  5-407  Sets the active level of the chip select of the SPI bus trigger.  5-407  Sets the active level of the chip select of the SPI bus trigger or queries the current setting.  5-407  Sets the active level of the chip select of the SPI bus trigger or queries the current setting.  5-407  Sets the active level of the chip select of the SPI bus trigger or queries the current setting.  5-407  Sets the chip select trace of the SPI bus trigger or queries the current setting.  5-407  Sets the chip select trace of the SPI bus trigger or queries the current setting.  5-407  SETS SETS SETS SETS SETS SETS SETS SET		, ,	5-406
IRRIGGER: ENManced: SPIBUS: CS; Correct Set the active level of the chip select of the SPI bus trigger or queries the current setting.  TRIGGER: ENManced: SPIBUS: CS; Correct Set the active level of the chip select of the SPI bus trigger or queries the current setting.  TRIGGER: ENManced: SPIBUS: DATA-X-X-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-Y-	:TRIGger:ENHanced:SPIBus:CLOCk:	,	5-407
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IPRIGGET: ENHAnced: SPIBus: DATA-X>7  Queries all settings related to the data of the SPI bus trigger.  Sets the number of bytes of the data of the SPI bus trigger or queries the current setting.  Sets the number of bytes of the data of the SPI bus trigger or queries the current setting.  Sets the determination method (match or not match) of the data of the SPI bus trigger or queries the current setting.  Sets the pattern comparison start position of the data of the SPI bus trigger or queries the current setting.  Sets the pattern comparison start position of the data of the SPI bus trigger or queries the current setting.  Sets the pattern comparison start position of the data of the SPI bus trigger or queries the current setting.  Sets the data of the SPI bus trigger in hexadecimal notation.  \$\frigger: \text{ENHAnced: SPIBus: DATA-X>:}\$\$  Sets the data of the SPI bus trigger in hexadecimal notation.  \$\frigger: \text{ENHAnced: SPIBus: DATA-X>:}\$\$  Sets the data of the SPI bus trigger or queries the current setting.  \$\frigger: \text{ENHAnced: SPIBus: DATA-X>:}\$\$  Sets the data of the SPI bus trigger or queries the current setting.  \$\frigger: \text{ENHAnced: SPIBus: DATA-X>:}\$\$  \$\frigger: \text{ENHAnced: SPIBus: MODE}\$\$  \$\frigger: \text{ENHAnced: UART: DATA-X}:\$\$  \$\frigger: ENHAnced: UART: DATA	:TRIGger:ENHanced:SPIBus:CS:	Sets the chip select trace of the SPI bus trigger or queries the current	5-407
Sets the number of bytes of the data of the SPI bus trigger or queries the current setting.	SOURce	setting.	
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DROSELLON OR queries the current setting.  FRIGGER: ENHAnced: SPIBUS: DATA-Xxx:  Sets the data of the SPI bus trigger in hexadecimal notation.  FAOR SPITCENTAX  Sets the data of the SPI bus trigger in hexadecimal notation or queries the current setting.  FRIGGER: ENHAnced: SPIBUS: DATA-Xxx:  Sets the data of the SPI bus trigger in binary notation or queries the current setting.  FRIGGER: ENHAnced: SPIBUS: DATA-Xxx:  Sets the trace of the data of the SPI bus trigger or queries the current setting.  FRIGGER: ENHAnced: SPIBUS: MODE  Sets the wiring system of the SPI bus trigger (three-wire or four-wire) or queries the current setting.  FRIGGER: ENHAnced: UART?  Queries all settings related to the logic UART bus signal trigger.  FRIGGER: ENHAnced: UART: DATA:  SETS the UART bus signal trigger bit rate (data transfer rate) or queries the current setting.  FRIGGER: ENHAnced: UART: DATA:  SETS the UART bus signal trigger data bit order or queries the current setting.  FRIGGER: ENHAnced: UART: DATA: DATA:  FRIGGER: ENHAnced: UART: ERROR:  COURIES all settings.  FRIGGER: ENHAnced: UART: ERROR:  FRIGGER: ENHAnced: UART: ERROR:  FRIGGER: ENHAnced: UART: ERROR:  FRIGGER: ENHAnced: UART: ERROR:  SETS the UART bus signal trigger farming error or queries the current setting.  FRIGGER: ENHAnced: UART: FORMAt  FRIGGER: ENHA	CONDition	bus trigger or queries the current setting.	
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:TRIGger:ENHanced:UART:DATA:DSIZe current setting.  :TRIGger:ENHanced:UART:DATA:HEXA Sets the UART bus signal trigger data in hexadecimal.  :TRIGger:ENHanced:UART:DATA: Sets the UART bus signal trigger in binary or queries the current setting.  :TRIGger:ENHanced:UART:ERROR: Queries all settings related to the UART bus signal trigger error. 5-409  :TRIGger:ENHanced:UART:ERROR: Sets the UART bus signal trigger framing error or queries the current setting.  :TRIGger:ENHanced:UART:ERROR: Sets the UART bus signal trigger Parity error or queries the current setting.  :TRIGger:ENHanced:UART:ERROR: Sets the UART bus signal trigger Parity error or queries the current setting.  :TRIGger:ENHanced:UART:FORMAT Sets the UART bus signal trigger Parity mode or queries the current setting.  :TRIGger:ENHanced:UART:MODE Sets the UART bus signal trigger format or queries the current setting.  :TRIGger:ENHanced:UART:MODE Sets the UART bus signal trigger mode or queries the current setting.  :TRIGger:ENHanced:UART:POLARITY Sets the UART bus signal trigger polarity or queries the current setting.  :TRIGger:ENHanced:UART:SOURCE Sets the UART bus signal trigger sample point or queries the current setting.  :TRIGger:ENHanced:UART:SOURCE Sets the UART bus signal trigger sample point or queries the current setting.  :TRIGger:ESTate? Queries all settings related to the edge/state trigger.  :TRIGger:ESTate:EOR: CHANNel  :TRIGger:ESTate:EOR:CHANNel<  Sets the channel polarity of the OR trigger or queries the current setting.  :TRIGger:ESTate:EOR:CHANnel<  Sets the channel polarity of the edge/state trigger or queries the current setting.  :TRIGger:ESTate:POLarity Sets the polarity of the edge/state trigger or queries the current setting.  :TRIGger:ESTate:POLarity Sets the polarity of the edge/state trigger or queries the current setting.  :TRIGger:ESTate:POLarity Sets the polarity of the edge/state trigger or queries the current setting.  :TRIGger:ESTate:POLarity Sets the polarity of the edge/state trigger or queries the current			5-408
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Command	Function	Page
:TRIGger:LOGic:CLOCk:SOURce	Sets the clock source of the logic trigger or queries the current setting.	5-411
:TRIGger:LOGic:ESTate?	Queries all settings related to the edge/state trigger of the logic.	5-411
:TRIGger:LOGic:ESTate:POLarity	Sets the polarity of the edge/state trigger of the logic or queries the current	
	setting.	
:TRIGger:LOGic:ESTate:SOURce	Sets the edge/state trigger source of the logic or queries the current setting.	5-411
:TRIGger:LOGic:I2CBus?	Queries all settings related to the logic I <sup>2</sup> C bus trigger.	5-411
:TRIGger:LOGic:I2CBus:ADATa?	Queries all settings related to the address of the logic I <sup>2</sup> C bus trigger.	5-411
:TRIGger:LOGic:I2CBus:ADATa:	Queries all settings related to the 10-bit address of the logic I <sup>2</sup> C bus trigger.	
BIT10address?		
:TRIGger:LOGic:I2CBus:ADATa:	Sets the 10-bit address of the logic I <sup>2</sup> C bus trigger in hexadecimal notation.	5-412
BIT10address:HEXA		
:TRIGger:LOGic:I2CBus:ADATa:	Sets the 10-bit address of the logic I <sup>2</sup> C bus trigger in binary notation or	5-412
BIT10address:PATTern	queries the current setting.	
:TRIGger:LOGic:I2CBus:ADATa:	Queries all settings related to the 7-bit address of the logic I <sup>2</sup> C bus trigger.	5-412
BIT7ADdress?		
:TRIGger:LOGic:I2CBus:ADATa:	Sets the 7-bit address of the logic I <sup>2</sup> C bus trigger in hexadecimal notation.	5-412
BIT7ADdress:HEXA		
:TRIGger:LOGic:I2CBus:ADATa:	Sets the 7-bit address of the logic I <sup>2</sup> C bus trigger in binary notation or	5-412
BIT7ADdress:PATTern	queries the current setting.	
:TRIGger:LOGic:I2CBus:ADATa:	Queries all settings related to the 7-bit + Sub address of the logic I <sup>2</sup> C bus	5-412
BIT7APsub?	trigger.	
:TRIGger:LOGic:I2CBus:ADATa:	Queries all settings related to the 7-bit address of the 7-bit + Sub address	5-412
BIT7APsub:ADDRess?	of the logic I <sup>2</sup> C bus trigger.	
:TRIGger:LOGic:I2CBus:ADATa:	Sets the 7-bit address of the 7-bit + Sub address of the logic I <sup>2</sup> C bus trigger	5-413
BIT7APsub:ADDRess:HEXA	in hexadecimal notation.	
:TRIGger:LOGic:I2CBus:ADATa:	Sets the 7-bit address of the 7-bit + Sub address of the logic I <sup>2</sup> C bus trigger	5-413
BIT7APsub:ADDRess:PATTern	in binary notation or queries the current setting.	
:TRIGger:LOGic:I2CBus:ADATa:	Queries all settings related to the sub address of the 7-bit + Sub address of	5-413
BIT7APsub:SADDress?	the logic I <sup>2</sup> C bus trigger.	
:TRIGger:LOGic:I2CBus:ADATa:	1	5-413
BIT7APsub:SADDress:HEXA	in hexadecimal notation.	5 440
:TRIGger:LOGic:I2CBus:ADATa: BIT7APsub:SADDress:PATTern	Sets the sub address of the 7-bit + Sub address of the logic I <sup>2</sup> C bus trigger in hierary potation or queries the surrent eatting	5-413
	in binary notation or queries the current setting.	5-413
:TRIGger:LOGic:I2CBus:ADATa:TYPE	Sets the address type of the logic I <sup>2</sup> C bus trigger or queries the current setting.	5-413
:TRIGger:LOGic:I2CBus:CLOCk?	Queries all settings related to the clock of the logic I <sup>2</sup> C bus trigger.	5-413
:TRIGger:LOGic:I2CBus:CLOCk:	Sets the clock trace for the logic I <sup>2</sup> C bus trigger or queries the current	5-413
SOURce	setting.	0 110
:TRIGger:LOGic:I2CBus:DATA?	Queries all settings related to the data of the logic I <sup>2</sup> C bus trigger.	5-414
:TRIGger:LOGic:I2CBus:DATA:BYTE	Sets the number of settings for the logic I <sup>2</sup> C bus trigger or queries the	5-414
	current setting.	
:TRIGger:LOGic:I2CBus:DATA:	Sets the determination method for the data of the logic I <sup>2</sup> C bus trigger (match	5-414
CONDition	/ no match) or queries the current setting.	
:TRIGger:LOGic:I2CBus:DATA:	Sets the pattern comparison position for the data of the logic I <sup>2</sup> C bus trigger	5-414
DPOSition	or queries the current setting.	
:TRIGger:LOGic:I2CBus:DATA:	Sets the data of the logic I <sup>2</sup> C bus trigger in hexadecimal notation.	5-414
HEXA <x></x>		
:TRIGger:LOGic:I2CBus:DATA:MODE	Enables/disables the data conditions of the logic I <sup>2</sup> C bus trigger or queries	5-414
	the current setting.	
:TRIGger:LOGic:I2CBus:DATA:	Sets the data for the logic I <sup>2</sup> C bus trigger in binary notation or queries the	5-414
PATTern <x></x>	current setting.	
:TRIGger:LOGic:I2CBus:DATA:PMODe	Sets the pattern comparison start position for the data of the logic I <sup>2</sup> C bus	5-414
	trigger or queries the current setting.	
:TRIGger:LOGic:I2CBus:DATA:SOURce	Sets the data trace for the logic I <sup>2</sup> C bus trigger or queries the current	5-415
	setting.	
:TRIGger:LOGic:I2CBus:GCALl?	Queries all settings related to the general call of the logic I <sup>2</sup> C bus trigger.	5-415
:TRIGger:LOGic:I2CBus:GCALl:	Queries all settings related to the 7-bit master address of the general call of	5-415
BIT7maddress?	the logic I <sup>2</sup> C bus trigger.	
:TRIGger:LOGic:I2CBus:GCALl:	Sets the 7-bit master address of the general call of the logic I <sup>2</sup> C bus trigger	5-415
BIT7maddress:HEXA	in hexadecimal notation.	

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Command	Function	Page
:TRIGger:LOGic:I2CBus:GCALl:	Sets the 7-bit master address of the general call of the logic I <sup>2</sup> C bus trigger	5-415
BIT7maddress:PATTern	in binary notation or queries the current setting.	
:TRIGger:LOGic:I2CBus:GCAL1:SBYTe (Second Byte)	Sets the type of the second byte of the general call of the logic I <sup>2</sup> C bus trigger or queries the current setting.	5-415
:TRIGger:LOGic:I2CBus:MODE	Sets the trigger mode for the logic I <sup>2</sup> C bus trigger or queries the current setting.	5-415
:TRIGger:LOGic:I2CBus:NAIGnore?	Queries all settings related to the NON-ACK Ignore mode of the logic I <sup>2</sup> C bus trigger.	5-415
:TRIGger:LOGic:I2CBus:NAIGnore: HSMode	Sets whether to ignore NON ACK in high speed mode of the logic I <sup>2</sup> C bus trigger or queries the current setting.	5-416
:TRIGger:LOGic:I2CBus:NAIGnore:	Sets whether to ignore NON ACK in read access mode of the logic I <sup>2</sup> C bus trigger or queries the current setting.	5-416
:TRIGger:LOGic:I2CBus:NAIGnore:	Sets whether to ignore NON ACK in the start byte of the logic I <sup>2</sup> C bus	5-416
SBYTe (Start Byte)	trigger or queries the current setting.	
:TRIGger:LOGic:I2CBus:SBHSmode?	Queries all settings related to the start byte/high speed mode of the logic I <sup>2</sup> C bus trigger.	5-416
:TRIGger:LOGic:I2CBus:SBHSmode: TYPE	Sets the type of the start byte/high speed mode of the logic I <sup>2</sup> C bus trigger or queries the current setting.	5-416
:TRIGger:LOGic:LINBus?	Queries all settings related to the logic LIN bus signal triggers.	5-416
:TRIGger:LOGic:LINBus:BLENgth	Sets the logic LIN bus signal trigger break length or queries the current setting.	5-416
:TRIGger:LOGic:LINBus:BRATe	Sets the bit rate (data transfer rate) of the logic LIN bus signal trigger or queries the current setting.	5-417
:TRIGger:LOGic:LINBus:ERRor?	Queries all settings related to the logic LIN bus signal trigger error .	5-417
:TRIGger:LOGic:LINBus:ERRor:	Sets the logic LIN bus signal trigger Checksum error or queries the current	5-417
CHECksum	setting.	
:TRIGger:LOGic:LINBus:ERRor:DSIZe	Sets the number of error data bytes for the logic LIN bus signal trigger or queries the current setting.	5-417
:TRIGger:LOGic:LINBus:ERRor:	Sets the logic LIN bus signal trigger Framing error or queries the current	5-417
FRAMing	Setting.	5-417
:TRIGger:LOGic:LINBus:ERRor: PARity	Sets the logic LIN bus signal trigger Parity error or queries the current setting.	
:TRIGger:LOGic:LINBus:ERRor:SYNCh	Sets the logic LIN bus signal trigger Synch error or queries the current setting.	5-417
:TRIGger:LOGic:LINBus:ERRor:TOUT	Sets the logic LIN bus signal trigger Timeout error or queries the current setting.	5-417
:TRIGger:LOGic:LINBus:IDData?	Queries all settings related to the IDData of the logic LIN bus signal trigger .	5-417
:TRIGger:LOGic:LINBus:IDData: DATA?	Queries all settings related to the Data Field of the logic LIN bus signal trigger.	5-418
:TRIGger:LOGic:LINBus:IDData:	Sets the data byte order of the logic LIN bus signal trigger or queries the	5-418
:TRIGger:LOGic:LINBus:IDData:	Sets the data conditions of the Data Field of the logic LIN bus signal trigger	5-418
DATA: CONDition	or queries the current setting.	E 440
:TRIGger:LOGic:LINBus:IDData: DATA:DATA <x></x>	Sets the comparison data of the logic LIN bus signal trigger data or queries the current setting.	5-418
:TRIGger:LOGic:LINBus:IDData:	Sets the number of bytes of data in the Data Field of the logic LIN bus	5-418
DATA:DSIZe	signal trigger or queries the current setting.	
:TRIGger:LOGic:LINBus:IDData: DATA:HEXA	Sets the data in the Data Field of the logic LIN bus signal trigger in hexadecimal.	5-418
:TRIGger:LOGic:LINBus:IDData: DATA:MSBLsb	Sets the MSB/LSB bit of the logic LIN bus signal trigger or queries the current setting.	5-419
:TRIGger:LOGic:LINBus:IDData: DATA:PATTern	Sets the data of the Data Field of the logic LIN bus signal trigger in binary or queries the current setting.	5-419
:TRIGger:LOGic:LINBus:IDData: DATA:SIGN	Sets the data sign of the logic LIN bus signal trigger or queries the current	5-419
:TRIGger:LOGic:LINBus:IDData:ID?	Setting.  Queries all settings related to the ID of the logic LIN bus signal trigger.	5-419
:TRIGger:LOGic:LINBus:IDData:ID:	Sets the logic LIN bus signal trigger ID in hexadecimal.	5-419
HEXA		

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Command	Function	Page
:TRIGger:LOGic:LINBus:IDData:ID: PATTern	Sets the logic LIN bus signal trigger ID in binary or queries the current setting.	5-419
:TRIGger:LOGic:LINBus:IDOR?	Queries all settings related to the OR conditions of the logic LIN bus signal trigger .	5-419
:TRIGger:LOGic:LINBus:IDOR:DSIZe	Sets the number of bytes of data in the Data Field of the OR condition of the logic LIN bus signal trigger or queries the current setting.	5-420
:TRIGger:LOGic:LINBus:IDOR: IDData <x>?</x>	Queries all settings related to each IDData of the OR condition of the logic LIN bus signal trigger.	5-420
:TRIGger:LOGic:LINBus:IDOR: IDData <x>:DATA?</x>	Queries all settings related to each Data Field of the OR condition of the logic LIN bus signal trigger.	5-420
:TRIGger:LOGic:LINBus:IDOR: IDData <x>:DATA:BORDer</x>	Sets the byte order of each data of the OR conditions of the logic LIN bus signal trigger or queries the current setting.	5-420
:TRIGger:LOGic:LINBus:IDOR: IDData <x>:DATA:CONDition</x>	Sets the data conditions of the Data Field of each OR condition of the logic LIN bus signal trigger or queries the current setting.	5-420
:TRIGger:LOGic:LINBus:IDOR:	Sets the comparison data of each data of the OR conditions of the logic	5-420
IDData <x>:DATA:DATA<x> :TRIGger:LOGic:LINBus:IDOR:</x></x>	LIN bus signal trigger or queries the current setting.  Sets the data in each Data Field of the OR condition of the logic LIN bus	5-421
IDData <x>:DATA:HEXA :TRIGger:LOGic:LINBus:IDOR:</x>	signal trigger in hexadecimal.  Sets the MSB/LSB bit of each data of the OR condition of the logic LIN bus	5-421
IDData <x>:DATA:MSBLsb :TRIGger:LOGic:LINBus:IDOR:</x>	signal trigger or queries the current setting.  Sets the data of each Data Field of the OR conditions of the logic LIN bus	5-421
<pre>IDData<x>:DATA:PATTern :TRIGger:LOGic:LINBus:IDOR:</x></pre>	signal trigger or queries the current setting.  Sets the sign of each data of the OR conditions of the logic LIN bus signal	5-421
<pre>IDData<x>:DATA:SIGN :TRIGger:LOGic:LINBus:IDOR:</x></pre>	trigger or queries the current setting.  Queries all settings related to each ID of the OR condition of the logic LIN	5-421
IDData <x>:ID? :TRIGger:LOGic:LINBus:IDOR:</x>	bus signal trigger .  Sets each ID of the OR conditions of the logic LIN bus signal trigger in	5-421
IDData <x>:ID:HEXA</x>	hexadecimal.  Sets each ID of the OR conditions of the logic LIN bus signal trigger binary	5-421
:TRIGger:LOGic:LINBus:IDOR: IDData <x>:ID:PATTern</x>	or queries the current setting.	
:TRIGger:LOGic:LINBus:IDOR: IDData <x>:MODE</x>	Enables (1) or disables (0) each condition for each OR condition of the logic LIN bus signal trigger or queries the current setting.	5-422
:TRIGger:LOGic:LINBus:MODE	Sets the logic LIN bus signal trigger mode or queries the current setting.	5-422
:TRIGger:LOGic:LINBus:REVision	Sets the logic LIN bus signal trigger revision (1.3 or 2.0) or queries the current setting.	5-422
:TRIGger:LOGic:LINBus:SOURce	Sets the trigger source of the logic LIN bus signal trigger or queries the current setting.	5-422
:TRIGger:LOGic:LINBus:SPOint	Sets the logic LIN bus signal trigger sample point or queries the current setting.	5-422
:TRIGger:LOGic:SPATtern? (Serial Pattern)	Queries all settings related to logic serial pattern trigger.	5-422
:TRIGger:LOGic:SPATtern:BITRate	Sets the bit rate for the logic serial pattern trigger or queries the current setting.	5-422
:TRIGger:LOGic:SPATtern:CLEar	Clears (set to don't care) all patterns of the logic serial pattern trigger.	5-422
:TRIGger:LOGic:SPATtern:CLOCk?	Queries all settings related to the clock for the logic serial pattern trigger.	5-422
:TRIGger:LOGic:SPATtern:CLOCk:	Enables/disables the clock for the logic serial analysis pattern trigger or queries the current setting.	5-423
:TRIGger:LOGic:SPATtern:CLOCk: POLarity	Sets the polarity of the clock trace of the logic serial pattern trigger or queries the current setting.	5-423
:TRIGger:LOGic:SPATtern:CLOCk: SOURce	Sets the clock trace for the logic serial pattern trigger or queries the current setting.	5-423
:TRIGger:LOGic:SPATtern:CS	Enables/disables the chip select for the logic serial analysis pattern trigger or queries the current setting.	5-423
:TRIGger:LOGic:SPATtern:DATA?	Queries all settings related to the data for the logic serial pattern trigger.	5-423
:TRIGger:LOGic:SPATtern:DATA: ACTive	Sets the active level of the data for the logic serial pattern trigger or queries the current setting.	<del> </del>
:TRIGger:LOGic:SPATtern:DATA: SOURce	Sets the data rate for the logic serial pattern trigger or queries the current	5-423
:TRIGger:LOGic:SPATtern:HEXA	setting.  Sets the pattern of the logic serial pattern trigger in hexadecimal notation.	5-423
:TRIGger:LOGic:SPATtern:LATCh?	Queries all settings related to the latch for the logic serial pattern trigger.	5-423

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Command	Function	Page
:TRIGger:LOGic:SPATtern:LATCh:	Sets the polarity of the latch trace of the logic serial pattern trigger or	5-424
POLarity	queries the current setting.	
:TRIGger:LOGic:SPATtern:LATCh:	Sets the latch trace for the logic serial pattern trigger or queries the current	5-424
SOURce	setting.	
:TRIGger:LOGic:SPATtern:PATTern	Sets the pattern of the logic serial pattern trigger in binary notation, or queries the current setting.	5-424
:TRIGger:LOGic:SPIBus?	Queries all settings related to the logic SPI bus trigger.	5-424
:TRIGger:LOGic:SPIBus:BITorder	Sets the bit order for the logic SPI bus trigger or queries the current setting.	5-424
:TRIGger:LOGic:SPIBus:CLOCk?	Queries all settings related to the clock of the logic SPI bus trigger.	5-424
:TRIGger:LOGic:SPIBus:CLOCk:	Sets the polarity of the clock trace for the logic SPI bus trigger or queries	5-424
POLarity	the current setting.	
:TRIGger:LOGic:SPIBus:CLOCk:	Sets the clock trace for the logic SPI bus trigger or queries the current	5-425
SOURce	setting.	
:TRIGger:LOGic:SPIBus:CS?	Queries all settings related to the chip select of the logic SPI bus trigger.	5-425
:TRIGger:LOGic:SPIBus:CS:ACTive	Sets the active level of the chip select for the logic SPI bus trigger or	5-425
	queries the current setting.	F 40F
:TRIGger:LOGic:SPIBus:CS:SOURce	Sets the chip select trace for the logic SPI bus trigger or queries the current	5-425
TPICGOR.IOCig.CDIPug.DATA (V. 2	Setting.  Outring all cottings related to each data of the logic SPI bus trigger.	5-425
:TRIGger:LOGic:SPIBus:DATA <x>? :TRIGger:LOGic:SPIBus:DATA<x>:</x></x>	Queries all settings related to each data of the logic SPI bus trigger.  Sets the number of settings for each data of the logic SPI bus trigger or	5-425
BYTE	queries the current setting.	5-425
:TRIGger:LOGic:SPIBus:DATA <x>:</x>	Sets the determination method for the data of the logic SPI bus trigger	5-425
CONDition	(match / no match) or queries the current setting.	0 120
:TRIGger:LOGic:SPIBus:DATA <x>:</x>	Sets the pattern comparison start position for the data of the logic SPI bus	5-425
DPOSition	trigger or queries the current setting.	
:TRIGger:LOGic:SPIBus:DATA <x>:</x>	Sets the data of the logic SPI bus trigger in hexadecimal notation.	5-426
HEXA <x></x>		
:TRIGger:LOGic:SPIBus:DATA <x>:</x>	Sets each data of the logic SPI bus trigger in binary notation or queries the	5-426
PATTern <x></x>	current setting.	
:TRIGger:LOGic:SPIBus:DATA <x>:</x>	Sets the trace of each data of the logic SPI bus trigger or queries the	5-426
SOURce	current setting.	
:TRIGger:LOGic:SPIBus:MODE	Sets the wiring method (3-wire/4-wire) of the logic SPI bus trigger or	5-426
MDIGram I OG ; c CMAMa 2	queries the current setting.	5-426
:TRIGger:LOGic:STATe?	Queries all settings related to the logic state trigger.	+
:TRIGger:LOGic:STATe:BIT?	Queries all settings related to the bit of the logic state trigger.	5-426
:TRIGger:LOGic:STATe:BIT:{A <x>  B<x> C<x> D<x>}</x></x></x></x>	Sets the condition to be satisfied for the bit of the logic state trigger or queries the current setting.	5-427
:TRIGger:LOGic:STATe:BIT:CLEar	Clears the entire condition to be satisfied for the bit of the logic state trigger	5-427
	(set to don't care) or queries the current setting.	3 421
:TRIGger:LOGic:STATe:BIT:LOGic	Sets the logic of the logic state trigger or queries the current setting.	5-427
:TRIGger:LOGic:STATe:GROup <x>?</x>	Queries all settings related to the group of the logic state trigger.	5-427
:TRIGger:LOGic:STATe:GROup <x>:</x>	Clears the entire condition to be satisfied for the group of the logic state	5-427
CLEar	trigger (set to don't care) or queries the current setting.	
:TRIGger:LOGic:STATe:GROup <x>:</x>	Sets the determination condition for the group of the logic state trigger or	5-427
CONDition	queries the current setting.	
:TRIGger:LOGic:STATe:GROup <x>:</x>	Sets the condition to be satisfied for the group of the logic state trigger in	5-427
HEXA	hexadecimal notation.	
:TRIGger:LOGic:STATe:GROup <x>:</x>	Sets the condition to be satisfied for the group of the logic state trigger in	5-427
PATTern	binary notation or queries the current setting.	
:TRIGger:LOGic:STATe:GROup <x>:</x>	Sets the symbol item for the group of the logic state trigger.	5-428
SYMBol TOGA TOGATA TANDE	Cata the cating time of the legic state (discuss or more) at the case of	F 400
:TRIGger:LOGic:STATe:TYPE	Sets the setup type of the logic state trigger or queries the current setting.	5-428
:TRIGger:LOGic:UART?	Queries all settings related to the logic UART bus signal trigger.	5-428
:TRIGger:LOGic:UART:BRATe	Sets the logic UART bus signal trigger bit rate (data transfer rate) or queries the current setting.	5-428
	Queries all settings related to the data of the logic UART bus signal trigger	5-428
:TRIGger:LOGic:UART:DATA?	Chiefles all settings telated to the data of the logic Live Light pile signal fridger	

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Command	Function	Page
:TRIGger:LOGic:UART:DATA:BITorder	Sets the logic UART bus signal trigger data bit order or queries the current setting.	5-428
:TRIGger:LOGic:UART:DATA:DSIZe	Sets the number of bytes of the logic UART bus signal trigger data or queries the current setting.	5-428
:TRIGger:LOGic:UART:DATA:HEXA	Sets the logic UART bus signal trigger data in hexadecimal.	5-428
:TRIGger:LOGic:UART:DATA:PATTern	Sets the data of the logic UART bus signal trigger in binary or queries the current setting.	5-428
:TRIGger:LOGic:UART:ERRor?	Queries all settings related to the logic UART bus signal trigger error .	5-428
:TRIGger:LOGic:UART:ERRor:FRAMing	Sets the logic UART bus signal trigger Framing error or queries the current setting.	5-429
:TRIGger:LOGic:UART:ERRor:PARity	Sets the logic UART bus signal trigger Parity error or queries the current setting.	5-429
:TRIGger:LOGic:UART:ERRor:PMODe	Sets the logic UART bus signal trigger Parity mode or queries the current setting.	5-429
:TRIGger:LOGic:UART:FORMat	Sets the logic UART bus signal trigger format or queries the current setting.	5-429
:TRIGger:LOGic:UART:MODE	Sets the logic UART bus signal trigger mode or queries the current setting.	5-429
:TRIGger:LOGic:UART:POLarity	Sets the logic UART bus signal trigger polarity or queries the current setting.	5-429
:TRIGger:LOGic:UART:SOURce	Sets the logic UART bus signal trigger source or queries the current setting.	5-429
:TRIGger:LOGic:UART:SPOint	Sets the logic UART bus signal sample point or queries the current setting.	5-429
:TRIGger:LOGic:WIDTh?	Queries all settings related to the logic pulse width trigger.	5-429
:TRIGger:LOGic:WIDTh:MODE	Sets the determination mode of the logic pulse width trigger or queries the current setting.	5-429
:TRIGger:LOGic:WIDTh:POLarity	Sets the polarity of the logic pulse width trigger or queries the current setting.	5-430
:TRIGger:LOGic:WIDTh:SOURce	Sets the trigger source of the logic pulse width trigger or queries the current setting.	5-430
:TRIGger:LOGic:WIDTh:TIME <x></x>	Sets the logic pulse width of the pulse width trigger or queries the current setting.	5-430
:TRIGger:MODE	Sets the trigger mode or queries the current setting.	5-430
:TRIGger:POSition	Sets the trigger position or queries the current setting.	5-430
:TRIGger:SCOunt	Sets the number of times the trigger is to be activated when the trigger mode is Single(N) or queries the current setting.	5-430
:TRIGger:SOURce?	Queries all settings related to the trigger source.	5-430
:TRIGger:SOURce:CHANnel <x>?</x>	Queries all settings related to the channel of the trigger source.	5-430
:TRIGger:SOURce:CHANnel <x>: COUPling</x>	Sets the trigger coupling of the channel or queries the current setting.	5-431
:TRIGger:SOURce:CHANnel <x>: HFRejection</x>	Sets the low pass filter (HF rejection) of the channel or queries the current setting.	5-431
:TRIGger:SOURce:CHANnel <x>: HYSTeresis</x>	Sets the hysteresis of the channel or queries the current setting.	5-431
:TRIGger:SOURce:CHANnel <x>:LEVel</x>	Sets the trigger level of the channel or queries the current setting.	5-431
:TRIGger:SOURce:CHANnel <x>:STATe</x>	Sets the condition to be satisfied of the channel or queries the current setting.	5-431
:TRIGger:SOURce:CHANnel <x>:WIDTh</x>	Sets the window trigger width of the channel or queries the current setting.	5-431
:TRIGger:SOURce:CHANnel <x>:WINDow</x>	Turns ON/OFF the window of the channel or queries the current setting.	5-431
:TRIGger:SOURce:EXTernal?	Queries all settings related to the external trigger.	5-431
:TRIGger:SOURce:EXTernal:LEVel	Sets the trigger level of the external trigger or queries the current setting.	5-432
:TRIGger:SOURce:EXTernal:PROBe	Sets the probe attenuation of the external trigger or queries the current setting.	5-432
:TRIGger:SOURce:LOGic	Sets the trigger source logic or queries the current setting.	5-432
:TRIGger:TYPE	Sets the trigger type or queries the current setting.	5-432
:TRIGger:WIDTh?	Queries all settings related to the pulse width trigger.	5-432

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Command	Function	Page
:TRIGger:WIDTh:MODE	Sets the determination mode of the pulse width trigger or queries the	5-432
3	current setting.	
:TRIGger:WIDTh:POLarity	Sets the polarity of the pulse width trigger or queries the current setting.	5-432
:TRIGger:WIDTh:SOURce	Sets the trigger source of the pulse width trigger or queries the current	5-432
	setting.	
:TRIGger:WIDTh:TIME <x></x>	Sets the pulse width of the pulse width trigger or queries the current setting.	5-433
WAVeform Group		
:WAVeform?	Queries all of the information of the waveform data.	5-434
:WAVeform:BITS?	Queries the bit length of the specified waveform data.	5-434
:WAVeform:BYTeorder	Sets the transmission byte order or queries the current setting.	5-434
:WAVeform:END	Sets the last data point of the specified waveform or queries the current setting.	5-434
:WAVeform:FORMat	Sets the format of the data to be transmitted or queries the current setting.	5-434
:WAVeform:LENGth?	Queries the total number of data points of the specified waveform.	5-434
:WAVeform:OFFSet?	Queries the offset value of the specified waveform data.	5-434
:WAVeform:POSition?	Queries the vertical axis position used for converting to voltage when RBYTe is specified with: WAVeform:FORMat.	5-434
:WAVeform:RANGe?	Queries the range value of the specified waveform data.	5-434
:WAVeform:RECord	Sets the target record number for the commands in the WAVeform group or	5-435
	queries the current setting.	
:WAVeform:RECord? MINimum	Queries the minimum record number.	5-435
:WAVeform:SEND?	Queries the specified waveform data.	5-435
:WAVeform:SIGN?	Queries the presence of a sign.	5-436
:WAVeform:SRATe?	Queries the sample rate of the target record.	5-436
:WAVeform:STARt	Sets the first data point of the specified waveform or queries the current setting.	5-436
:WAVeform:TRACe	Sets the target waveform for the commands in the WAVeform group or queries the current setting.	5-436
:WAVeform:TRIGger?	Queries the trigger position of the target record.	5-436
:WAVeform:TYPE?	Queries the acquisition mode of the specified waveform.	5-436
ZOOM Group	addition the dequienter mede of the opening wavelenn.	0 100
: ZOOM?	Queries all settings related to the waveform zoom.	5-437
:ZOOM:ALLocation <x>?</x>	Queries all settings related to the zoom source waveform.	5-437
:ZOOM:ALLocation:ALLon	Sets all waveforms to be zoomed.	5-437
:ZOOM:ALLocation:TRACe <x></x>	Turns ON/OFF the trace you wish to zoom or queries the current setting.	5-437
:ZOOM:FORMat <x></x>	Sets the display format of the zoom waveform or queries the current setting.	5-437
:ZOOM:HLINkage	Turns ON/OFF the horizontal link or queries the current setting.	5-437
:ZOOM:HDINKage	Queries all settings related to the horizontal zoom.	5-437
:ZOOM:HORIZONtal <x>:ASCRoll?</x>	Queries all settings related to the nonzontal zoom.  Queries all settings related to the auto scroll function.	5-437
:ZOOM:HORIZONtal <x>:ASCRO11; :ZOOM:HORizontal<x>:ASCRo11:JUMP</x></x>	Moves the zoom center position to the left or right edge.	5-437
:ZOOM:HORizontal <x>:ASCRoll:SOMP</x>	Sets the auto scroll speed or queries the current setting.	5-437
	Starts auto scrolling.	5-438
I.700M.UODirontalawa.ACCDoll.CTAD+	Starts auto scrolling.	5-438
:ZOOM:HORizontal <x>:ASCRoll:STARt</x>	Stops auto corolling	
:ZOOM:HORizontal <x>:ASCRoll:STOP</x>	Stops auto scrolling.	-
:ZOOM:HORizontal <x>:ASCRoll:STOP :ZOOM:HORizontal<x>:MAG</x></x>	Sets the horizontal zoom magnification or queries the current setting.	5-438
:ZOOM:HORizontal <x>:ASCRoll:STOP :ZOOM:HORizontal<x>:MAG :ZOOM:HORizontal<x>:POSition</x></x></x>	Sets the horizontal zoom magnification or queries the current setting.  Sets the horizontal zoom center position or queries the current setting.	5-438 5-438
:ZOOM:HORizontal <x>:ASCRoll:STOP :ZOOM:HORizontal<x>:MAG :ZOOM:HORizontal<x>:POSition :ZOOM:MODE</x></x></x>	Sets the horizontal zoom magnification or queries the current setting.  Sets the horizontal zoom center position or queries the current setting.  Sets the display mode of the zoom waveform or queries the current setting.	5-438 5-438 5-438
:ZOOM:HORizontal <x>:ASCRoll:STOP :ZOOM:HORizontal<x>:MAG :ZOOM:HORizontal<x>:POSition :ZOOM:MODE :ZOOM:TYPE<x></x></x></x></x>	Sets the horizontal zoom magnification or queries the current setting.  Sets the horizontal zoom center position or queries the current setting.  Sets the display mode of the zoom waveform or queries the current setting.  Sets the zoom type or queries the current setting.	5-438 5-438 5-438 5-438
:ZOOM:HORizontal <x>:ASCRoll:STOP :ZOOM:HORizontal<x>:MAG :ZOOM:HORizontal<x>:POSition :ZOOM:MODE :ZOOM:TYPE<x> :ZOOM:VERTical<x>?</x></x></x></x></x>	Sets the horizontal zoom magnification or queries the current setting.  Sets the horizontal zoom center position or queries the current setting.  Sets the display mode of the zoom waveform or queries the current setting.  Sets the zoom type or queries the current setting.  Queries all settings related to the vertical zoom.	5-438 5-438 5-438 5-438 5-438
:ZOOM:HORizontal <x>:ASCRoll:STOP :ZOOM:HORizontal<x>:MAG :ZOOM:HORizontal<x>:POSition :ZOOM:MODE :ZOOM:TYPE<x> :ZOOM:VERTical<x>? :ZOOM:VERTical<x>:INITialize</x></x></x></x></x></x>	Sets the horizontal zoom magnification or queries the current setting.  Sets the horizontal zoom center position or queries the current setting.  Sets the display mode of the zoom waveform or queries the current setting.  Sets the zoom type or queries the current setting.  Queries all settings related to the vertical zoom.  Initializes the vertical zoom.	5-438 5-438 5-438 5-438 5-438 5-438
:ZOOM:HORizontal <x>:ASCRoll:STOP :ZOOM:HORizontal<x>:MAG :ZOOM:HORizontal<x>:POSition :ZOOM:MODE :ZOOM:TYPE<x> :ZOOM:VERTical<x>? :ZOOM:VERTical<x>:INITialize :ZOOM:VERTical<x>:MAG</x></x></x></x></x></x></x>	Sets the horizontal zoom magnification or queries the current setting.  Sets the horizontal zoom center position or queries the current setting.  Sets the display mode of the zoom waveform or queries the current setting.  Sets the zoom type or queries the current setting.  Queries all settings related to the vertical zoom.  Initializes the vertical zoom magnification or queries the current setting.	5-438 5-438 5-438 5-438 5-438 5-438
:ZOOM:HORizontal <x>:ASCRoll:STOP :ZOOM:HORizontal<x>:MAG :ZOOM:HORizontal<x>:POSition :ZOOM:MODE :ZOOM:TYPE<x> :ZOOM:VERTical<x>? :ZOOM:VERTical<x>:INITialize</x></x></x></x></x></x>	Sets the horizontal zoom magnification or queries the current setting.  Sets the horizontal zoom center position or queries the current setting.  Sets the display mode of the zoom waveform or queries the current setting.  Sets the zoom type or queries the current setting.  Queries all settings related to the vertical zoom.  Initializes the vertical zoom.	5-438 5-438 5-438 5-438 5-438 5-438

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Command	Function	Page
Common Command Grou	up	
*CAL?	Performs calibration and queries the result.	5-439
*CLS	Clears the standard event register, extended event register, and error queue.	5-439
*ESE	Sets the standard event enable register or queries the current setting.	5-439
*ESR?	Queries the standard event register and clears the register.	5-439
*IDN?	Queries the instrument model.	5-439
*LRN?	Queries collectively the current settings of the command group.	5-440
*OPC	Sets the OPC bit to 1 after the completion of the specified overlap command.	5-441
*OPC?	Creates a response after the completion of the specified overlap command.	5-441
*OPT?	Queries the options.	5-441
*PSC	Sets whether to clear the registers at power on or queries the current setting.	5-441
*RST	Executes the initialization of settings.	5-441
*SRE	Sets the service request enable register or queries the current setting.	5-441
*STB?	Queries the status byte register.	5-441
*TST?	Performs a self-test and queries the result.	5-442
*WAI	Holds the subsequent command until the completion of the specified overlap operation.	5-442

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# 5.2 ACQuire Group

#### :ACQuire?

Function Queries all settings related to the waveform

acquisition.

Syntax : ACQuire?

Example :ACQUIRE? -> :ACQUIRE:AVERAGE:COUNT 2;

EWEIGHT 16;:ACQUIRE:HRMODE 0;

INTERLEAVE 0; INTERPOLATE 1; MODE NORMAL;

REPETITIVE 0; RLENGTH 12500

### :ACQuire:AVERage?

Function Queries all settings related to averaging and the

waveform acquisition count.

Syntax :ACQuire:AVERage?

Example :ACQUIRE:AVERAGE? -> :ACQUIRE:AVERAGE:

COUNT 2; EWEIGHT 16

### :ACQuire:AVERage:COUNt

Function Sets the waveform acquisition count of averaging

mode or queries the current setting.

Syntax :ACQuire:AVERage:COUNt {<NRf>}

:ACQuire:AVERage:COUNt? <NRf> = 2 to 65536 (2n steps)

Example :ACQUIRE:AVERAGE:COUNT 2

:ACQUIRE:AVERAGE:COUNT? -> :ACQUIRE:

AVERAGE: COUNT 2

## :ACQuire:AVERage:EWEight

Function Sets the attenuation constant when averaging mode

is used infinitely or queries the current setting.

 $\verb|Syntax| : \verb|ACQuire:AVERage:EWEight| \{ < \verb|NRf> \} \\$ 

:ACQuire:AVERage:EWEight? <NRf> = 2 to 1024 (2n steps)

Example :ACQUIRE:AVERAGE:EWEIGHT 16

:ACQUIRE:AVERAGE:EWEIGHT? -> :ACQUIRE:

AVERAGE: EWEIGHT 16

## :ACQuire:HRMode

Function Turns ON/OFF the high resolution mode or queries

the current setting.

Syntax :ACQuire:HRMode {<Boolean>}

:ACQuire:HRMode?

Example :ACQUIRE:HRMODE ON

:ACQUIRE:HRMODE? -> :ACQUIRE:HRMODE 1

## :ACQuire:INTERLeave

Function Turns ON/OFF interleave or queries the current

settina.

Syntax :ACQuire:INTERLeave {<Boolean>}

:ACQuire:INTERLeave?

Example :ACQUIRE:INTERLEAVE ON

:ACQUIRE:INTERLEAVE? -> :ACQUIRE:

INTERLEAVE 1

#### :ACQuire:INTERPolate

Function Turns ON/OFF data interpolation or queries the

current setting.

Syntax :ACQuire:INTERPolate {<Boolean>}

:ACQuire:INTERPolate?

Example :ACQUIRE:INTERPOLATE ON

:ACQUIRE:INTERPOLATE? -> :ACQUIRE:

INTERPOLATE 1

### :ACQuire:MODE

Function Sets the waveform acquisition mode or queries the

current setting.

Syntax :ACQuire:MODE {AVERage | ENVelope | NORMal}

:ACQuire:MODE?

Example :ACQUIRE:MODE NORMAL

:ACQUIRE:MODE? -> :ACQUIRE:MODE NORMAL

#### :ACQuire:REPetitive

Function Turns ON/OFF the repetitive sampling or queries the

current setting.

Syntax :ACQuire:REPetitive {<Boolean>}

:ACQuire:REPetitive?

Example :ACQUIRE:REPETITIVE ON

:ACQUIRE:REPETITIVE? -> :ACQUIRE:

REPETITIVE 1

## :ACQuire:RLENgth

Function Sets the record length or queries the current setting.

Syntax :ACQuire:RLENgth {<NRf>}

:ACQuire:RLENgth?

<NRf> = See the SB5000 User's Manual.

Example :ACQUIRE:RLENGTH 6250000

:ACQUIRE:RLENGTH?

-> :ACQUIRE:RLENGTH 6250000

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# 5.3 ANALysis Group

## :ANALysis?

Function Queries all settings related to the analysis function.

Syntax :ANALysis?

Example :ANALYSIS? -> :ANALYSIS:AHISTOGRAM1:

HORIZONTAL 4.0000000E+00. -4.000000E+00; MEASURE: CURSOR: BASIC:C1: STATE 1;:ANALYSIS:AHISTOGRAM1:MEASURE: CURSOR: BASIC: C2: STATE 1;: ANALYSIS: AHISTOGRAM1: MEASURE: CURSOR: BASIC: DC: STATE 1;:ANALYSIS:AHISTOGRAM1:MEASURE: CURSOR: CALCULATION: DEFINE1 "C1"; DEFINE2 "C2"; DEFINE3 "C1"; DEFINE4 "C2"; STATE1 0; STATE2 0; STATE3 0; STATE4 0;: ANALYSIS: AHISTOGRAM1: MEASURE: CURSOR: HLINKAGE 0; HPOSITION1 -5.0000000E+00; HPOSITION2 5.0000000E+00; VLINKAGE 0; VPOSITION1 4.0000000E+00; VPOSITION2 -4.0000000E+00;:ANALYSIS: AHISTOGRAM1: MEASURE: MODE OFF; PARAMETER: AREA1:MAXIMUM:STATE 0;:ANALYSIS: AHISTOGRAM1: MEASURE: PARAMETER: AREA1: MEAN:STATE 0;:ANALYSIS:AHISTOGRAM1: MEASURE: PARAMETER: AREA1: MEDIAN: STATE 0;:ANALYSIS:AHISTOGRAM1:MEASURE: PARAMETER: AREA1: MINIMUM: STATE 0;: ANALYSIS: AHISTOGRAM1: MEASURE: PARAMETER: AREA1: PEAK: STATE 0; : ANALYSIS: AHISTOGRAM1: MEASURE: PARAMETER: AREA1: RMS:STATE 0;:ANALYSIS:AHISTOGRAM1: MEASURE: PARAMETER: AREA1: SD2INTEG: STATE 0;:ANALYSIS:AHISTOGRAM1:MEASURE: PARAMETER: AREA1: SD3 INTEG: STATE 0;: ANALYSIS: AHISTOGRAM1: MEASURE: PARAMETER: AREA1:SDEVIATION:STATE 0::ANALYSIS: AHISTOGRAM1: MEASURE: PARAMETER: AREA1: SDINTEG:STATE 0;:ANALYSIS:AHISTOGRAM1: MEASURE: PARAMETER: AREA2: MAXIMUM: STATE 0;:ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER: AREA2: MEAN: STATE 0....

## :ANALysis:AHIStogram<x>?

Function Queries all settings related to the accumulated

histogram function.

Syntax :ANALysis:AHIStogram<x>?

< x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1? -> :ANALYSIS:

AHISTOGRAM1:HORIZONTAL 0.000E+00,

0.000E+00; MEASURE: CURSOR: BASIC: C1:

STATE 1;:ANALYSIS:AHISTOGRAM1:

MEASURE:CURSOR:BASIC:C2:STATE 1;:

ANALYSIS: AHISTOGRAM1: MEASURE: CURSOR:

BASIC:DC:STATE 1;:ANALYSIS:AHISTOGRAM1:

MEASURE: CURSOR: CALCULATION:

DEFINE1 "C1";DEFINE2 "C2";DEFINE3 "C1";

DEFINE4 "C2"; STATE1 1; STATE2 1;

STATE3 1; STATE4 1; : ANALYSIS:

AHISTOGRAM1: MEASURE: CURSOR: HLINKAGE 1;

HPOSITION1 0.000E+00;

HPOSITION2 1.000E+00; VLINKAGE 1;

VPOSITION1 1.000E+00;

VPOSITION2 1.000E+00;:ANALYSIS:

AHISTOGRAM1: MEASURE: MODE CURSOR;

PARAMETER: AREA1: MAXIMUM: STATE 1;:

ANALYSIS: AHISTOGRAM1: MEASURE: PARAMETER:

AREA1:MEAN:STATE 1;:ANALYSIS:

AHISTOGRAM1: MEASURE: PARAMETER: AREA1:

MEDIAN:STATE 1;:ANALYSIS:AHISTOGRAM1:

 ${\tt MEASURE:PARAMETER:AREA1:MINIMUM:}$ 

STATE 1;:ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER:AREA1:PEAK:STATE 1;:ANALYSIS:

AHISTOGRAM1:MEASURE:PARAMETER:AREA1:

RMS:STATE 1;:ANALYSIS:AHISTOGRAM1:

 ${\tt MEASURE:PARAMETER:AREA1:SD2INTEG:}$ 

STATE 1;:ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER:AREA1:SD3INTEG:STATE 1;:A

NALYSIS: AHISTOGRAM1: MEASURE: PARAMETER:

AREA1:SDEVIATION:STATE 1;:ANALYSIS:

AHISTOGRAM1: MEASURE: PARAMETER: AREA1:

SDINTEG:STATE 1....

#### :ANALysis:AHIStogram<x>:HORizontal

Function Sets the horizontal range of the accumulated histogram or queries the current setting.

Syntax :ANALysis:AHIStogram<x>:HORizontal

{ < NRf > , < NRf > }

:ANALysis:AHIStogram<x>:HORizontal?

< x > = 1 or 2

 $\langle NRf \rangle = -4 \text{ to } 4 \text{ (div)}$ 

Example :ANALYSIS:AHISTOGRAM1:HORIZONTAL 0,1

:ANALYSIS:AHISTOGRAM1:HORIZONTAL?

-> :ANALYSIS:AHISTOGRAM1:
HORIZONTAL 0.000E+00,0.000E+00

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Function Queries all settings related automated measurement of the accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure?

< x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE?

-> :ANALYSIS:AHISTOGRAM1:MEASURE: CURSOR:BASIC:C1:STATE 1;:ANALYSIS: AHISTOGRAM1:MEASURE:CURSOR:BASIC:C2: STATE 1;:ANALYSIS:AHISTOGRAM1:MEASURE:

CURSOR:BASIC:DC:STATE 1;:ANALYSIS:
AHISTOGRAM1:MEASURE:CURSOR:CALCULATION:

DEFINE1 "C1"; DEFINE2 "C2"; DEFINE3 "C1"; DEFINE4 "C2"; STATE1 1; STATE2 1;

STATE3 1; STATE4 1; :ANALYSIS:

AHISTOGRAM1: MEASURE: CURSOR: HLINKAGE 1;

HPOSITION1 0.000E+00;

HPOSITION2 1.000E+00; VLINKAGE 1;

VPOSITION1 0.000E+00;

VPOSITION2 1.000E+00;:ANALYSIS:

AHISTOGRAM1: MEASURE: MODE CURSOR;

PARAMETER:AREA1:MAXIMUM:STATE 1;:

ANALYSIS: AHISTOGRAM1: MEASURE: PARAMETER:

AREA1:MEAN:STATE 1;:ANALYSIS:

AHISTOGRAM1: MEASURE: PARAMETER: AREA1:

MEDIAN:STATE 1;:ANALYSIS:AHISTOGRAM1:

MEASURE: PARAMETER: AREA1: MINIMUM:

STATE 1;:ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER: AREA1: PEAK: STATE 1; :ANALYSIS:

AHISTOGRAM1: MEASURE: PARAMETER: AREA1:

RMS:STATE 1;:ANALYSIS:AHISTOGRAM1:

MEASURE: PARAMETER: AREA1: SD2INTEG:

STATE 1;:ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER:AREA1:SD3INTEG:STATE 1;:

ANALYSIS: AHISTOGRAM1: MEASURE: PARAMETER:

AREA1:SDEVIATION:STATE 1;:ANALYSIS:

AHISTOGRAM1: MEASURE: PARAMETER: AREA1:

SDINTEG:STATE 1....

## :ANALysis:AHIStogram<x>:MEASure:

CURSor?

Function Queries all settings related to cursor measurement of

the accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure:CURSor?

< x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR?

-> :ANALYSIS:AHISTOGRAM1:MEASURE: CURSOR:BASIC:C1:STATE 1;:ANALYSIS: AHISTOGRAM1:MEASURE:CURSOR:BASIC:C2: STATE 1;:ANALYSIS:AHISTOGRAM1:MEASURE:

CURSOR:BASIC:DC:STATE 1;:ANALYSIS:

AHISTOGRAM1: MEASURE: CURSOR: CALCULATION:

DEFINE1 "C1"; DEFINE2 "C2"; DEFINE3 "C1";

DEFINE4 "C2";STATE1 1;STATE2 1;

STATE3 1; STATE4 1; : ANALYSIS:

AHISTOGRAM1: MEASURE: CURSOR: HLINKAGE 1;

HPOSITION1 0.000E+00;

HPOSITION2 1.000E+00; VLINKAGE 1;

VPOSITION1 0.000E+00;
VPOSITION2 1.000E+00

## :ANALysis:AHIStogram<x>:MEASure:

#### CURSor: BASic?

Function Queries all settings related to basic items of the cursor of the accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure:

CURSor: BASic?

< x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

BASIC? -> :ANALYSIS:AHISTOGRAM1:
MEASURE:CURSOR:BASIC:C1:STATE 1;:
ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

BASIC:C2:STATE 1;:ANALYSIS:AHISTOGRAM1:

MEASURE:CURSOR:BASIC:DC:STATE 1

## :ANALysis:AHIStogram<x>:MEASure:

CURSor[:BASic]:ALL

Function Turns ON/OFF all basic items of the cursor of the

accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure:

CURSor[:BASic]:ALL {<Boolean>}

< x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

BASIC:ALL ON

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CURSor[:BASic]:C<x>?

Function Queries all settings related to the cursor of the

accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure:

CURSor [:BASic]:C<x>? <x> of AHIStogram<x> = 1 or 2

< x > of C < x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

BASIC:C1? -> :ANALYSIS:AHISTOGRAM1:
MEASURE:CURSOR:BASIC:C1:STATE 1

## :ANALysis:AHIStogram<x>:MEASure:

## CURSor[:BASic]:C<x>:STATe

Function Turns ON/OFF the cursor of the accumulated

histogram or queries the current setting.

Syntax :ANALysis:AHIStogram<x>:MEASure:

CURSor[:BASic]:C<x>:STATe {<Boolean>}
:ANALysis:AHIStogram<x>:MEASure:

CURSor[:BASic]:C<x>:STATe?
<x> of AHIStogram<x> = 1 or 2

< x > of C < x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

BASIC:C1:STATE ON

:ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

BASIC:C1:STATE? -> :ANALYSIS:
AHISTOGRAM1:MEASURE:CURSOR:

BASIC:C1:STATE 1

## :ANALysis:AHIStogram<x>:MEASure:

## CURSor[:BASic]:C<x>:VALue?

Function Queries the measured value of the cursor of the

accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure:

CURSor[:BASic]:C<x>:VALue?
<x> of AHIStogram<x> = 1 or 2

< x > of C < x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

BASIC:C1:VALUE? -> :ANALYSIS:
AHISTOGRAM1:MEASURE:CURSOR:
BASIC:C1:VALUE 1.000E+00

## :ANALysis:AHIStogram<x>:MEASure:

## CURSor[:BASic]:DC?

Function Queries all settings related to measured values

between cursors of the accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure:

CURSor[:BASic]:DC?

< x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

BASIC:DC? -> :ANALYSIS:AHISTOGRAM1: MEASURE:CURSOR:BASIC:DC:STATE 1

## :ANALysis:AHIStogram<x>:MEASure:

## CURSor[:BASic]:DC:STATe

Function Turns ON/OFF the measured values between cursors of the accumulated histogram or queries the current

setting.

Syntax :ANALysis:AHIStogram<x>:MEASure:

CURSor[:BASic]:DC:STATe {<Boolean>}
:ANALysis:AHIStogram<x>:MEASure:

CURSor[:BASic]:DC:STATe?

< x > = 1 or 2

Example : ANALYSIS: AHISTOGRAM1: MEASURE: CURSOR:

BASIC:DC:STATE ON

:ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

BASIC:DC:STATE? -> :ANALYSIS:

AHISTOGRAM1: MEASURE: CURSOR: BASIC: DC:

STATE 1

## :ANALysis:AHIStogram<x>:MEASure:

#### CURSor[:BASic]:DC:VALue?

Function Queries the measured value between cursors of the

accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure:

CURSor[:BASic]:DC:VALue?

< x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

BASIC:DC:VALUE? -> :ANALYSIS:
AHISTOGRAM1:MEASURE:CURSOR:
BASIC:DC:VALUE 1.000E+00

## :ANALysis:AHIStogram<x>:MEASure:

## CURSor: CALCulation?

Function Queries all settings related to calculation items of the

cursor of the accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure:CURSor:

CALCulation?

< x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

CALCULATION? -> :ANALYSIS:AHISTOGRAM1:

MEASURE: CURSOR:

CALCULATION:DEFINE1 "C1";DEFINE2 "C2"; DEFINE3 "C1";DEFINE4 "C2";STATE1 1;

STATE2 1;STATE3 1;STATE4 1

#### :ANALysis:AHIStogram<x>:MEASure:

## CURSor: CALCulation: ALL

Function Turns ON/OFF all calculation items of the cursor of

the accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure:CURSor:

CALCulation:ALL {<Boolean>}

< x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

CALCULATION: ALL ON

## CURSor: CALCulation: DEFine<x>

Function Sets the equation of the calculation item of the cursor

of the accumulated histogram or queries the current

setting.

Syntax :ANALysis:AHIStogram<x>:MEASure:CURSor:

CALCulation:DEFine<x> {<String>}

:ANALysis:AHIStogram<x>:MEASure:CURSor:

CALCulation: DEFine<x>? <x> of AHIStogram<x> = 1 or 2 <x> of DEFine<x> = 1 to 4 <String> = Up to 128 characters

Example :ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

CALCULATION: DEFINE1 "C1"

:ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

CALCULATION: DEFINE1? -> : ANALYSIS:

AHISTOGRAM1:MEASURE:CURSOR: CALCULATION:DEFINE1 "C1"

## :ANALysis:AHIStogram<x>:MEASure:

### CURSor: CALCulation: STATe<x>

Function Turns ON/OFF the calculation item of the cursor of

the accumulated histogram or queries the current

settina.

Syntax :ANALysis:AHIStogram<x>:MEASure:CURSor:

CALCulation:STATe<x> {<Boolean>}

:ANALysis:AHIStogram<x>:MEASure:CURSor:

CALCulation:STATe<x>? <x> of AHIStogram<x> = 1 or 2 <x> of STATe<x> = 1 to 4

Example :ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

CALCULATION:STATE1 ON

:ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

CALCULATION:STATE1? -> :ANALYSIS:

AHISTOGRAM1: MEASURE: CURSOR:

CALCULATION:STATE1 1

## :ANALysis:AHIStogram<x>:MEASure:

## CURSor: CALCulation: VALue < x >?

Function Queries the measured value of the calculation item of

the cursor of the accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure:CURSor:

CALCulation: VALue<x>? <x> of AHIStogram<x> = 1 or 2 <x> of VALue<x> = 1 to 4

Example :ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

CALCULATION: VALUE1? -> :ANALYSIS:

AHISTOGRAM1:MEASURE:CURSOR: CALCULATION:VALUE1 1.000E+00

#### :ANALysis:AHIStogram<x>:MEASure:

#### CURSor: HLINkage

Function Turns ON/OFF the horizontal cursor link of the

accumulated histogram or queries the current setting.

Syntax :ANALysis:AHIStogram<x>:MEASure:CURSor:

HLINkage {<Boolean>}

:ANALysis:AHIStogram<x>:MEASure:CURSor:

HLINkage?

< x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

HLINKAGE ON

:ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR: HLINKAGE? -> :ANALYSIS:AHISTOGRAM1:

MEASURE: CURSOR: HLINKAGE 1

## :ANALysis:AHIStogram<x>:MEASure:

#### CURSor: HPOSition<x>

Function Sets the horizontal cursor position of the accumulated

histogram or queries the current setting.

Syntax :ANALysis:AHIStogram<x>:MEASure:CURSor:

HPOSition<x> {<NRf>}

:ANALysis:AHIStogram<x>:MEASure:CURSor:

HPOSition<x>?

<x> of AHIStogram<x> = 1 or 2
<x> of HPOSition<x> = 1 or 2

 $\langle NRf \rangle = -5$  to 5 div

Example :ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

HPOSITION1 1

:ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

HPOSITION1? -> :ANALYSIS:AHISTOGRAM1:

MEASURE:CURSOR: HPOSITION1 1.000E+00

## :ANALysis:AHIStogram<x>:MEASure:

## CURSor: VLINkage

Function Turns ON/OFF the vertical cursor link of the

accumulated histogram or queries the current setting.

 $\verb|Syntax| : \verb|ANALysis:AHIStogram| < x>: \verb|MEASure:CURSor:| \\$ 

VLINkage {<Boolean>}

:ANALysis:AHIStogram<x>:MEASure:CURSor:

VLINkage?

< x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

VLINKAGE ON

:ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

VLINKAGE? -> :ANALYSIS:AHISTOGRAM1:

MEASURE: CURSOR: VLINKAGE 1

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#### CURSor: VPOSition<x>

Function Sets the vertical cursor position of the accumulated

histogram or queries the current setting.

Syntax :ANALysis:AHIStogram<x>:MEASure:CURSor:

VPOSition<x> {<NRf>}

:ANALysis:AHIStogram<x>:MEASure:CURSor:

VPOSition<x>?

<x> of AHIStogram<x> = 1 and 2 <x> of VPOSition<x> = 1 and 2 <NRf> = -4 to 4 (div)

(IVIV) = +10+ (GIV)

Example :ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR:

VPOSITION1 1

:ANALYSIS:AHISTOGRAM1:MEASURE:CURSOR: VPOSITION1? -> :ANALYSIS:AHISTOGRAM1:

MEASURE:CURSOR: VPOSITION1 1.000E+00

#### :ANALysis:AHIStogram<x>:MEASure:MODE

Function Sets the automated measurement mode of the

accumulated histogram or queries the current setting.

Syntax :ANALysis:AHIStogram<x>:MEASure:MODE

{CURSor|OFF|PARameter}

:ANALysis:AHIStogram<x>:MEASure:MODE?

< x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE:

MODE CURSOR

:ANALYSIS:AHISTOGRAM1:MEASURE:MODE?

-> :ANALYSIS:AHISTOGRAM1:MEASURE:

MODE CURSOR

## :ANALysis:AHIStogram<x>:MEASure: PARameter?

Function Queries all settings related to the automated

measurement of waveform parameters of the

accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure:

PARameter?

< x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER? -> :ANALYSIS:AHISTOGRAM1:

MEASURE: PARAMETER: AREA1: MAXIMUM:

STATE 1;:ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER:AREA1:MEAN:STATE 1;:ANALYSIS: AHISTOGRAM1:MEASURE:PARAMETER:AREA1:

MEDIAN:STATE 1;:ANALYSIS:AHISTOGRAM1:

MEASURE: PARAMETER: AREA1: MINIMUM:

STATE 1;:ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER:AREA1:PEAK:STATE 1;:ANALYSIS:

AHISTOGRAM1: MEASURE: PARAMETER: AREA1:

RMS:STATE 1;:ANALYSIS:AHISTOGRAM1:

MEASURE: PARAMETER: AREA1: SD2INTEG:

STATE 1;:ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER:AREA1:SD3INTEG:STATE 1;:

ANALYSIS: AHISTOGRAM1: MEASURE: PARAMETER:

AREA1:SDEVIATION:STATE 1;:ANALYSIS:

AHISTOGRAM1: MEASURE: PARAMETER: AREA1:

SDINTEG:STATE 1;:ANALYSIS:AHISTOGRAM1:

 ${\tt MEASURE:PARAMETER:AREA2:MAXIMUM:}$ 

STATE 1;:ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER: AREA2: MEAN: STATE 1;: ANALYSIS:

AHISTOGRAM1: MEASURE: PARAMETER: AREA2:

MEDIAN:STATE 1;:ANALYSIS:AHISTOGRAM1:

MEASURE: PARAMETER: AREA2: MINIMUM:

STATE 1;:ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER:AREA2:PEAK:STATE 1;:ANALYSIS:

AHISTOGRAM1: MEASURE: PARAMETER: AREA2:

RMS:STATE 1;:ANALYSIS:AHISTOGRAM1:

MEASURE: PARAMETER: AREA2: SD2INTEG:

STATE 1;:ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER: AREA2: SD3 INTEG: STATE 1;:

ANALYSIS: AHISTOGRAM1: MEASURE: PARAMETER:

AREA2:SDEVIATION:STATE 1;:ANALYSIS:
AHISTOGRAM1:MEASURE:PARAMETER:AREA2:

SDINTEG:STATE 1....

#### PARameter: AREA<x>?

Function Queries all settings related to the area of the

accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure:

PARameter:AREA<x>?

<x> of AHIStogram<x> = 1 and 2

<x> of AREA<x> = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER:AREA1? -> :ANALYSIS:

AHISTOGRAM1:MEASURE:PARAMETER:AREA1:
MAXIMUM:STATE 1;:ANALYSIS:AHISTOGRAM1:
MEASURE:PARAMETER:AREA1:MEAN:STATE 1;:

ANALYSIS: AHISTOGRAM1: MEASURE: PARAMETER:

AREA1: MEDIAN: STATE 1; : ANALYSIS:

AHISTOGRAM1: MEASURE: PARAMETER: AREA1:

MINIMUM:STATE 1;:ANALYSIS:AHISTOGRAM1:

MEASURE:PARAMETER:AREA1:PEAK:STATE 1;:

ANALYSIS: AHISTOGRAM1: MEASURE:

PARAMETER: AREA1: RMS: STATE 1; : ANALYSIS:

AHISTOGRAM1: MEASURE: PARAMETER: AREA1:

SD2INTEG:STATE 1;:ANALYSIS:AHISTOGRAM1:

 ${\tt MEASURE:PARAMETER:AREA1:SD3INTEG:}$ 

STATE 1;:ANALYSIS:AHISTOGRAM1:MEASURE:
PARAMETER:AREA1:SDEVIATION:STATE 1;:

ANALYSIS: AHISTOGRAM1: MEASURE: PARAMETER:

AREA1:SDINTEG:STATE 1

## :ANALysis:AHIStogram<x>:MEASure:

## PARameter:AREA<x>:ALL

Function Turns ON/OFF all waveform parameters of the

accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure:

PARameter:AREA<x>:ALL {<Boolean>}

<x> of AHIStogram<x> = 1 or 2

<x> of AREA<x> = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER: AREA1: ALL ON

## :ANALysis:AHIStogram<x>:MEASure:

## PARameter:AREA<x>:<Parameter>?

Function Queries all settings related to the waveform

parameter of the accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure:

PARameter:AREA<x>:<Parameter>?

<x> of AHIStogram<x> = 1 or 2

<x> of AREA<x> = 1 or 2

<Parameter> = {MAXimum|MEAN|MEDian|
MINimum|PEAK|RMS|SD2integ|SD3integ|

SDEViation | SDINteg }

Example (The following is an example for the maximum value

of area 1.)

:ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER:AREA1:MAXIMUM? -> :ANALYSIS:

AHISTOGRAM1: MEASURE: PARAMETER: AREA1:

MAXIMUM:STATE 1

## :ANALysis:AHIStogram<x>:MEASure:

### PARameter:AREA<x>:<Parameter>:STATe

Function Turns ON/OFF the waveform parameter of the

accumulated histogram or queries the current setting.

Syntax :ANALysis:AHIStogram<x>:MEASure:

PARameter:AREA<x>:<Parameter>:

STATe {<Boolean>}

:ANALysis:AHIStogram<x>:MEASure:

PARameter:AREA<x>:<Parameter>:STATe?

<x> of AHIStogram<x> = 1 or 2

<x> of AREA<x> = 1 or 2

<Parameter> = {MAXimum|MEAN|MEDian|

MINimum|PEAK|RMS|SD2integ|SD3integ|

SDEViation|SDINteg}

Example (The following is an example for the maximum value

of area 1.)

:ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER: AREA1: MAXIMUM: STATE ON

:ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER: AREA1: MAXIMUM: STATE?

-> :ANALYSIS:AHISTOGRAM1:MEASURE:
PARAMETER:AREA1:MAXIMUM:STATE 1

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#### PARameter: AREA<x>:<Parameter>: VALue?

Function Queries the automated measured value of the

waveform parameter of the accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure:

PARameter:AREA<x>:<Parameter>:VALue?

<x> of AHIStogram<x> = 1 or 2 <x> of AREA<x> = 1 or 2

<Parameter> = {MAXimum|MEAN|MEDian| MINimum|PEAK|RMS|SD2integ|SD3integ|

SDEViation|SDINteg}

Example (The following is an example for the maximum value

of area 1.)

:ANALYSIS:AHISTOGRAM1:MEASURE:
PARAMETER:AREA1:MAXIMUM:VALUE?
-> :ANALYSIS:AHISTOGRAM1:MEASURE:
PARAMETER:AREA1:MAXIMUM:VALUE 1.000E+00

FARAMETER.AREAT.MAXIMOM.VALOE 1.000E+00

## :ANALysis:AHIStogram<x>:MEASure:

#### PARameter: CALCulation?

Function Queries all settings related to the calculation items of waveform parameters of the accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure:

PARameter: CALCulation?

< x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER: CALCULATION? -> :ANALYSIS:

AHISTOGRAM1:MEASURE:PARAMETER:
CALCULATION:DEFINE1 "MEAN";
DEFINE2 "MAX";DEFINE3 "MIN";
DEFINE4 "PEAK";STATE1 1;STATE2 1;

STATE3 1;STATE4 1

#### :ANALysis:AHIStogram<x>:MEASure:

## PARameter: CALCulation: ALL

Function Turns ON/OFF all calculation items of the waveform parameters of the accumulated histogram.

barameters of the accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure:

PARameter:CALCulation:ALL {<Boolean>}

< x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER: CALCULATION: ALL ON

## :ANALysis:AHIStogram<x>:MEASure:

#### PARameter: CALCulation: DEFine<x>

Function Sets the equation of the calculation items of the

waveform parameter of the accumulated histogram or

queries the current setting.

Syntax :ANALysis:AHIStogram<x>:MEASure:

PARameter:CALCulation:
DEFine<x> {<String>}

:ANALysis:AHIStogram<x>:MEASure: PARameter:CALCulation:DEFine<x>?

<x> of AHIStogram<x> = 1 or 2 <x> of DEFine<x> = 1 to 4 <String> = Up to 128 characters

Example :ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER: CALCULATION: DEFINE1 "MEAN"

:ANALYSIS:AHISTOGRAM1:MEASURE:
PARAMETER:CALCULATION:DEFINE1?
-> :ANALYSIS:AHISTOGRAM1:MEASURE:
PARAMETER:CALCULATION:DEFINE1 "MEAN"

## :ANALysis:AHIStogram<x>:MEASure:

#### PARameter: CALCulation: STATe<x>

Function Turns ON/OFF the calculation items of the waveform parameter of the accumulated histogram or queries

the current setting.

Syntax :ANALysis:AHIStogram<x>:MEASure:

PARameter:CALCulation:STATe<x>

{<Boolean>}

:ANALysis:AHIStogram<x>:MEASure: PARameter:CALCulation:STATe<x>?

<x> of AHIStogram<x> = 1 or 2
<x> of STATe<x> = 1 to 4

Example :ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER: CALCULATION: STATE1 ON
:ANALYSIS: AHISTOGRAM1: MEASURE:
PARAMETER: CALCULATION: STATE1?
->:ANALYSIS: AHISTOGRAM1: MEASURE:
PARAMETER: CALCULATION: STATE1 1

## :ANALysis:AHIStogram<x>:MEASure:

## PARameter: CALCulation: VALue < x > ?

Function Queries the automated measured value of the calculation items of the waveform parameter of the

accumulated histogram.

Syntax :ANALysis:AHIStogram<x>:MEASure:

PARameter: CALCulation: VALue < x > ?

<x> of AHIStogram<x> = 1 or 2

<x> of VALue<x> = 1 to 4

Example :ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER: CALCULATION: VALUE1?
-> :ANALYSIS: AHISTOGRAM1: MEASURE:

PARAMETER: CALCULATION: VALUE1 1.000E+00

#### PARameter: HRANge<x>

Function Sets the horizontal range of the waveform parameter

of the accumulated histogram or queries the current

setting.

Syntax :ANALysis:AHIStogram<x>:MEASure:

PARameter:HRANge<x> {<NRf>,<NRf>}
:ANALysis:AHIStogram<x>:MEASure:

PARameter: HRANge<x>? <x> of AHIStogram<x> = 1 or 2 <x> of HRANge<x> = 1 or 2 <NRf> = -5 to 5 div

Example :ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER: HRANGE1 1,2

:ANALYSIS:AHISTOGRAM1:MEASURE:
PARAMETER:HRANGE1? -> :ANALYSIS:
AHISTOGRAM1:MEASURE:PARAMETER:
HRANGE1 2.000E+00,1.000E+00

#### :ANALysis:AHIStogram<x>:MEASure:

## PARameter: VRANge<x>

Function Sets the vertical range of the waveform parameter

of the accumulated histogram or queries the current

setting.

Syntax :ANALysis:AHIStogram<x>:MEASure:

PARameter:VRANge<x> {<NRf>, <NRf>}
:ANALysis:AHIStogram<x>:MEASure:

PARameter: VRANge<x>?
<x> of AHIStogram<x> = 1 or 2
<x> of VRANge<x> = 1 or 2
<NRf> = -4 to 4 (div)

Example :ANALYSIS:AHISTOGRAM1:MEASURE:

PARAMETER: VRANGE1 1,2

:ANALYSIS:AHISTOGRAM1:MEASURE:
PARAMETER:VRANGE1? -> :ANALYSIS:
AHISTOGRAM1:MEASURE:PARAMETER:
VRANGE1 2.000E+00,1.000E+00

#### :ANALysis:AHIStogram<x>:MODE

Function Sets the accumulated histogram mode or queries the

current setting.

Syntax :ANALysis:AHIStogram<x>:MODE

{HORizontal|VERTical}

:ANALysis:AHIStogram<x>:MODE?

< x > = 1 or 2

Example :ANALYSIS:AHISTOGRAM1:MODE HORIZONTAL

:ANALYSIS:AHISTOGRAM1:MODE?

-> :ANALYSIS:AHISTOGRAM1:MODE HORIZONTAL

#### :ANALysis:AHIStogram<x>:TRACe

Function Sets the source trace of the accumulated histogram

or queries the current setting.

Syntax :ANALysis:AHIStogram<x>:TRACe {<NRf>}

:ANALysis:AHIStogram<x>:TRACe?

< x > = 1 or 2< NRf > = 1 to 8

Example :ANALYSIS:AHISTOGRAM1:TRACE 1

:ANALYSIS:AHISTOGRAM1:TRACE?

-> :ANALYSIS:AHISTOGRAM1:TRACE 1

## :ANALysis:AHIStogram<x>:VERTical

Function Sets the vertical range of the accumulated histogram

or queries the current setting.

Syntax :ANALysis:AHIStogram<x>:VERTical

{ < NRf > , < NRf > }

:ANALysis:AHIStogram<x>:VERTical?

< x > = 1 or 2

< NRf > = -4 to 4 (div)

Example :ANALYSIS:AHISTOGRAM1:VERTICAL 1,2

:ANALYSIS:AHISTOGRAM1:VERTICAL?

-> :ANALYSIS:AHISTOGRAM1: VERTICAL 2.000E+00,1.000E+00

## :ANALysis:AHIStogram<x>:WINDow

Function Sets the measurement target window of the

accumulated histogram or queries the current setting.

Syntax :ANALysis:AHIStogram<x>:WINDow {MAIN|

Z1 | Z2 }

:ANALysis:AHIStogram<x>:WINDow?

< x > = 1 or 2

Example : ANALYSIS: AHISTOGRAM1: WINDOW MAIN

:ANALYSIS:AHISTOGRAM1:WINDOW?

-> :ANALYSIS:AHISTOGRAM1:WINDOW MAIN

## :ANALysis:DISPlay<x>

Function Turns ON/OFF the analysis function display or

queries the current setting.

Syntax :ANALysis:DISPlay<x> {<Boolean>}

:ANALysis:DISPlay<x>?

< x > = 1 or 2

Example :ANALYSIS:DISPLAY1 ON

:ANALYSIS:DISPLAY1? -> :ANALYSIS:

DISPLAY1 1

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#### :ANALysis:FFT<x>?

Function Queries all settings related to the FFT computation

function.

:ANALysis:FFT<x>? Syntax

< x > = 1 or 2

Example :ANALYSIS:FFT1? -> :ANALYSIS:FFT1:

HORIZONTAL:CSPAN:CENTER 1.000E+00;

SPAN1.000E+00;:ANALYSIS:FFT1:

HORIZONTAL: LRIGHT: RANGE2.000E+00,

1.000E+00::ANALYSIS:FFT1:HORIZONTAL:

MODE AUTO; :ANALYSIS:FFT1:IPART 1;

LENGTH 2500; MAXHOLD 1; MEASURE: MARKer:

BASIC:DFREQUENCY:STATE1;:ANALYSIS:FFT1:

MEASURE:MARKER:BASIC:DV:STATE 1;

:ANALYSIS:FFT1:MEASURE:MARKER:BASIC:

FREQUENCY1:STATE 1;:ANALYSIS:FFT1:

MEASURE: MARKER: BASIC: FREQUENCY2:

STATE 1;:ANALYSIS:FFT1:MEASURE:MARKER:

BASIC: POSITION1 1.000E+00; : ANALYSIS:

FFT1: MEASURE: MARKER: BASIC:

POSITION2 2.000E+00; V1: STATE 1;

:ANALYSIS:FFT1:MEASURE:MARKER:BASIC:

V2:STATE 1;:ANALYSIS:FFT1:MEASURE:

MARKER: CALCULATION: DEFINE1 "V(F1)":

DEFINE2 "V(F2)";DEFINE3 "V(F1)";

DEFINE4 "V(F2)"; STATE1 1; STATE2 1;

STATE3 1; STATE4 1; :ANALYSIS:FFT1:

MEASURE: MODE MARKER; PEAK: BASIC:

DFREQUENCY:STATE 1;:ANALYSIS:FFT1:

MEASURE:PEAK:BASIC:DV:STATE 1;

:ANALYSIS:FFT1:MEASURE:PEAK:BASIC:

FREQUENCY1:STATE 1;:ANALYSIS:FFT1:

MEASURE:PEAK:BASIC:FREQUENCY2:STATE 1;

:ANALYSIS:FFT1:MEASURE:PEAK:BASIC:

RANGE1 1.000E+00,0.000E+00;

RANGE2 1.000E+00,0.000E+00;V1:

STATE 1;:ANALYSIS:FFT1:MEASURE:PEAK:

BASIC: V2: STATE 1.....

#### :ANALysis:FFT<x>:HORizontal?

Function Queries all settings related the horizontal axis of the

FFT computation.

Syntax :ANALysis:FFT<x>:HORizontal?

< x > = 1 or 2

Example :ANALYSIS:FFT1:HORIZONTAL?

-> :ANALYSIS:FFT1:HORIZONTAL:CSPAN:

CENTER 1.000E+00; SPAN 1.000E+00;:

ANALYSIS: FFT1: HORIZONTAL: LRIGHT:

RANGE 2.000E+00,1.000E+00;:ANALYSIS:

FFT1:HORIZONTAL:MODE AUTO

#### :ANALysis:FFT<x>:HORizontal:CSPan?

Function Queries all settings related to the center and span of

the horizontal axis of the FFT computation.

:ANALysis:FFT<x>:HORizontal:CSPan? Syntax

< x > = 1 or 2

Example :ANALYSIS:FFT1:HORIZONTAL:CSPAN?

-> :ANALYSIS:FFT1:HORIZONTAL:CSPAN:

CENTER 1.000E+00; SPAN 1.000E+00

## :ANALysis:FFT<x>:HORizontal:CSPan:

## **CENTer**

Function Sets the horizontal center of the FFT computation or

queries the current setting.

Syntax :ANALysis:FFT<x>:HORizontal:CSPan:

CENTer {<Frequency>}

:ANALysis:FFT<x>:HORizontal:CSPan:

CENTer?

< x > = 1 or 2

<Frequency> = 0 to 250 G (Hz)

Example :ANALYSIS:FFT1:HORIZONTAL:CSPAN:

CENTER 1HZ

: ANALYSIS: FFT1: HORIZONTAL: CSPAN: CENTER?

-> :ANALYSIS:FFT1:HORIZONTAL:CSPAN:

CENTER 1.000E+00

## :ANALysis:FFT<x>:HORizontal:CSPan:

#### SPAN

Function Sets the horizontal span of the FFT computation or

queries the current setting.

:ANALysis:FFT<x>:HORizontal:CSPan: Syntax

SPAN {<Frequency>}

:ANALysis:FFT<x>:HORizontal:CSPan:SPAN?

< x > = 1 or 2

<Frequency> = 0 to 250 G (Hz)

Example :ANALYSIS:FFT1:HORIZONTAL:CSPAN:

SPAN 1HZ

:ANALYSIS:FFT1:HORIZONTAL:CSPAN:SPAN?

-> :ANALYSIS:FFT1:HORIZONTAL:CSPAN:

SPAN 1.000E+00

## :ANALysis:FFT<x>:HORizontal:LRIGht?

Function Queries all settings related the left and right edges of the horizontal axis of the FFT computation.

Syntax :ANALysis:FFT<x>:HORizontal:LRIGht?

< x > = 1 or 2

Example :ANALYSIS:FFT1:HORIZONTAL:LRIGHT?

-> :ANALYSIS:FFT1:HORIZONTAL:LRIGHT:

RANGE 2.000E+00,1.000E+00

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## :ANALysis:FFT<x>:HORizontal:LRIGht: **RANGe**

Function Sets the range of the horizontal left and right edges

of the FFT computation or queries the current setting.

Syntax :ANALysis:FFT<x>:HORizontal:LRIGht:

> RANGe {<Frequency>,<Frequency>} :ANALysis:FFT<x>:HORizontal:LRIGht:

RANGe? < x > = 1 or 2

<Frequency> = 0 to 250 G (Hz)

Example :ANALYSIS:FFT1:HORIZONTAL:LRIGHT:

RANGE 1HZ, 2HZ

: ANALYSIS: FFT1: HORIZONTAL: LRIGHT: RANGE? -> :ANALYSIS:FFT1:HORIZONTAL:LRIGHT:

RANGE 2.000E+00,1.000E+00

#### :ANALysis:FFT<x>:HORizontal:MODE

Function Sets the horizontal mode of the FFT computation or queries the current setting.

:ANALysis:FFT<x>:HORizontal:MODE {AUTO| Syntax

CSPan | LRIGht }

:ANALysis:FFT<x>:HORizontal:MODE?

< x > = 1 or 2

Example :ANALYSIS:FFT1:HORIZONTAL:MODE AUTO

:ANALYSIS:FFT1:HORIZONTAL:MODE?

-> :ANALYSIS:FFT1:HORIZONTAL:MODE AUTO

## :ANALysis:FFT<x>:IPARt (Imag Part)

Sets the source trace of the imaginary part of the FFT Function computation or queries the current setting.

:ANALysis:FFT<x>:IPARt {<NRf>|DONTcare} Syntax

:ANALysis:FFT<x>:IPARt?

< x > = 1 or 2< NRf > = 1 to 8

Example :ANALYSIS:FFT1:IPART 1

:ANALYSIS:FFT1:IPART? -> :ANALYSIS:

FFT1:IPART 1

#### :ANALysis:FFT<x>:LENGth

Sets the number of FFT points of the FFT Function

computation or queries the current setting.

Syntax :ANALysis:FFT<x>:LENGth {<NRf>}

:ANALysis:FFT<x>:LENGth?

< x > = 1 or 2

<NRf> = 2500, 6250, 12500, 25000, 62500, 125000,

or 250000

Example :ANALYSIS:FFT1:LENGTH 2500

:ANALYSIS:FFT1:LENGTH? -> :ANALYSIS:

FFT1:LENGTH 2500

#### :ANALysis:FFT<x>:MAXHold

Function Turns ON/OFF the maximum value hold function of the FFT computation or queries the current setting.

:ANALysis:FFT<x>:MAXHold {<Boolean>} Syntax

:ANALysis:FFT<x>:MAXHold?

< x > = 1 or 2

Example :ANALYSIS:FFT1:MAXHOLD ON

:ANALYSIS:FFT1:MAXHOLD? -> :ANALYSIS:

FFT1:MAXHOLD 1

## :ANALysis:FFT<x>:MEASure?

Function Queries all settings related to the automated measurement of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure?

< x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE? -> :ANALYSIS:

FFT1:MEASURE:MARKer:BASIC:DFREQUENCY:

STATE 1;:ANALYSIS:FFT1:MEASURE:MARKER:

BASIC:DV:STATE 1;:ANALYSIS:FFT1:

MEASURE: MARKER: BASIC: FREQUENCY1:

STATE 1;:ANALYSIS:FFT1:MEASURE:MARKER:

BASIC: FREQUENCY2: STATE 1;: ANALYSIS:

FFT1:MEASURE:MARKER:BASIC:

POSITION1 1.000E+00;:ANALYSIS:FFT1:

MEASURE: MARKER: BASIC:

POSITION2 2.000E+00; V1: STATE 1;

:ANALYSIS:FFT1:MEASURE:MARKER:BASIC:

V2:STATE 1;:ANALYSIS:FFT1:MEASURE:

MARKER: CALCULATION: DEFINE1 "V(F1)";

DEFINE2 "V(F2)"; DEFINE3 "V(F1)"; DEFINE4

"V(F2)"; STATE1 1; STATE2 1; STATE3 1;

STATE4 1;:ANALYSIS:FFT1:MEASURE:

MODE MARKER; PEAK: BASIC: DFREQUENCY:

STATE 1;:ANALYSIS:FFT1:MEASURE:PEAK:

BASIC:DV:STATE 1;:ANALYSIS:FFT1:

MEASURE: PEAK: BASIC: FREQUENCY1: STATE 1; :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:

FREQUENCY2:STATE 1;:ANALYSIS:FFT1:

MEASURE: PEAK: BASIC:

RANGE1 1.000E+00,0.000E+00;

RANGE2 1.000E+00,0.000E+00;V1:STATE 1;

: ANALYSIS: FFT1: MEASURE: PEAK: BASIC:

V2:STATE 1;:ANALYSIS:FFT1:MEASURE:PEAK:

CALCULATION: DEFINE1 "V(P1)";

DEFINE2 "V(P2)";DEFINE3 "V(P1)";

DEFINE4 "V(P2)"; STATE1 1; STATE2 1;

STATE3 1; STATE4 1

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#### :ANALysis:FFT<x>:MEASure:MARKer?

Function Queries all settings related to the marker cursor measurement of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:MARKer?

< x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:MARKER?

-> :ANALYSIS:FFT1:MEASURE:MARKER:BASIC:
DFREQUENCY:STATE 1;:ANALYSIS:FFT1:
MEASURE:MARKER:BASIC:DV:STATE 1;
:ANALYSIS:FFT1:MEASURE:MARKER:BASIC:
FREQUENCY1:STATE 1;:ANALYSIS:FFT1:
MEASURE:MARKER:BASIC:FREQUENCY2:

STATE 1;:ANALYSIS:FFT1:MEASURE:MARKER: BASIC:POSITION1 1.000E+00;:ANALYSIS:

BASIC: POSITIONI 1.000E+00; ANALYSIS: FFT1: MEASURE: MARKER: BASIC: POSITION2 2.000E+00; V1: STATE 1; ANALYSIS: FFT1: MEASURE: MARKER: BASIC: V2: STATE 1; ANALYSIS: FFT1: MEASURE: MARKER: CALCULATION: DEFINE1 "V(F1)"; DEFINE2 "V(F2)"; DEFINE3 "V(F1)"; DEFINE4 "V(F2)"; STATE1 1; STATE2 1; STATE3 1; STATE4 1

## :ANALysis:FFT<x>:MEASure:

#### MARKer: BASic?

Function Queries all settings related to basic items of the marker cursor of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:

MARKer:BASic?

< x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:MARKER:BASIC?
 -> :ANALYSIS:FFT1:MEASURE:MARKer:BASIC:
 DFREQUENCY:STATE 1;:ANALYSIS:FFT1:

DFREQUENCY:STATE 1;:ANALYSIS:FFT1:
MEASURE:MARKER:BASIC:DV:STATE 1;
:ANALYSIS:FFT1:MEASURE:MARKER:BASIC:
FREQUENCY1:STATE 1;:ANALYSIS:FFT1:
MEASURE:MARKER:BASIC:FREQUENCY2:
STATE 1;:ANALYSIS:FFT1:MEASURE:MARKER:
BASIC:POSITION1 1.000E+00;:ANALYSIS:

FFT1:MEASURE:MARKER:BASIC:
POSITION2 2.000E+00;V1:STATE 1;
:ANALYSIS:FFT1:MEASURE:MARKER:

BASIC: V2: STATE 1

## :ANALysis:FFT<x>:MEASure:

#### MARKer[:BASic]:ALL

Function Turns ON/OFF all basic items of the marker cursor of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:

MARKer[:BASic]:ALL {<Boolean>}

< x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:MARKER:BASIC:

ALL ON

#### :ANALysis:FFT<x>:MEASure:

#### MARKer[:BASic]:DFRequency?

Function Queries all settings related to the frequency value between marker cursors of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:

MARKer[:BASic]:DFRequency?

< x > = 1, 2

Example :ANALYSIS:FFT1:MEASURE:MARKer:BASIC:

DFREQUENCY? -> :ANALYSIS:FFT1:MEASURE:

MARKer:BASIC:DFREQUENCY:STATE 1

## :ANALysis:FFT<x>:MEASure:

### MARKer[:BASic]:DFRequency:STATe

Function Turns ON/OFF the frequency value between marker cursors of the FFT computation or queries the current setting.

STATe {<Boolean>}

:ANALysis:FFT<x>:MEASure:

MARKer[:BASic]:DFRequency:STATe?

< x > = 1, 2

Example :ANALYSIS:FFT1:MEASURE:MARKer:BASIC:

DFREQUENCY:STATE ON

:ANALYSIS:FFT1:MEASURE:MARKer:BASIC:
DFREQUENCY:STATE? -> :ANALYSIS:FFT1:
MEASURE:MARKer:BASIC:DFREQUENCY:STATE 1

## :ANALysis:FFT<x>:MEASure:

## MARKer[:BASic]:DFRequency:VALue?

Function Queries the frequency value between marker cursors of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:

MARKer[:BASic]:DFRequency:VALue?

< x > = 1, 2

Example :ANALYSIS:FFT1:MEASURE:MARKer:BASIC:

DFREQUENCY:VALUE? -> :ANALYSIS:FFT1:
MEASURE:MARKer:BASIC:DFREQUENCY:

VALUE 1.000E+00

## :ANALysis:FFT<x>:MEASure:

## MARKer[:BASic]:DV?

Function Queries all settings related to the power value

between marker cursors of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:

MARKer[:BASic]:DV?

< x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:MARKER:BASIC:DV?

-> :ANALYSIS:FFT1:MEASURE:MARKER:BASIC:

DV:STATE 1

## :ANALysis:FFT<x>:MEASure:

#### MARKer[:BASic]:DV:STATe

Function Turns ON/OFF the power value between marker

cursors of the FFT computation or queries the current

setting.

Syntax :ANALysis:FFT<x>:MEASure:

MARKer[:BASic]:DV:STATe {<Boolean>}

:ANALysis:FFT<x>:MEASure: MARKer[:BASic]:DV:STATe?

< x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:MARKER:BASIC:DV:

STATE ON

:ANALYSIS:FFT1:MEASURE:MARKER:BASIC:DV:

STATE? -> :ANALYSIS:FFT1:MEASURE:

MARKER: BASIC: DV: STATE 1

#### :ANALysis:FFT<x>:MEASure:

## MARKer[:BASic]:DV:VALue?

Function Queries the power value between marker cursors of

the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:

MARKer[:BASic]:DV:VALue?

< x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:MARKER:BASIC:DV:

VALUE? -> :ANALYSIS:FFT1:MEASURE: MARKER:BASIC:DV:VALUE 1.000E+00

## :ANALysis:FFT<x>:MEASure:

## MARKer[:BASic]:FREQuency<x>?

Function Queries all settings related to the frequency value of

the marker cursor of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:

MARKer[:BASic]:FREQuency<x>?

<x> of FFT<x> = 1, 2

<x> of FREQuency<x> = 1, 2

Example :ANALYSIS:FFT1:MEASURE:MARKER:BASIC:

FREQUENCY1? -> :ANALYSIS:FFT1:MEASURE:

MARKER: BASIC: FREQUENCY1: STATE 1

#### :ANALysis:FFT<x>:MEASure:

#### MARKer[:BASic]:FREQuency<x>:STATe

Function Turns ON/OFF the frequency value of the marker

cursor of the FFT computation or queries the current  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 

setting.

Syntax :ANALysis:FFT<x>:MEASure:

MARKer[:BASic]:FREQuency<x>:

STATe {<Boolean>}

:ANALysis:FFT<x>:MEASure:

MARKer[:BASic]:FREQuency<x>:STATe?

< x > of FFT < x > = 1, 2

<x> of FREQuency<x> = 1, 2

Example :ANALYSIS:FFT1:MEASURE:MARKER:BASIC:

FREQUENCY1:STATE ON

:ANALYSIS:FFT1:MEASURE:MARKER:BASIC: FREQUENCY1:STATE? -> :ANALYSIS:FFT1: MEASURE:MARKER:BASIC:FREQUENCY1:STATE 1

### :ANALysis:FFT<x>:MEASure:

### MARKer[:BASic]:FREQuency<x>:VALue?

Function Queries the frequency value of the marker cursor of

the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:

MARKer[:BASic]:FREQuency<x>:VALue?

< x > of FFT < x > = 1, 2

<x> of FREQuency<x> = 1, 2

Example :ANALYSIS:FFT1:MEASURE:MARKER:BASIC:

FREQUENCY1:VALUE? -> :ANALYSIS:FFT1:

MEASURE: MARKER: BASIC: FREQUENCY1:

VALUE 1.000E+00

## :ANALysis:FFT<x>:MEASure:

## MARKer[:BASic]:POSition<x> {<NRf>}

Function Sets the marker cursor position of the FFT

computation or queries the current setting.

Syntax :ANALysis:FFT<x>:MEASure:

MARKer[:BASic]:POSition<x> {<NRf>}

:ANALysis:FFT<x>:MEASure:

MARKer[:BASic]:POSition<x>?

< x > of FFT < x > = 1, 2

<x> of POSition<x> = 1, 2

<NRf> = -5 to 5 (div)

Example :ANALYSIS:FFT1:MEASURE:MARKER:BASIC:

POSITION1 1

 $: \verb"ANALYSIS: FFT1: \verb"MEASURE: MARKER: BASIC:"$ 

POSITION1? -> :ANALYSIS:FFT1:MEASURE:

MARKER:BASIC:POSITION1 1.000E+00

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#### :ANALysis:FFT<x>:MEASure:

#### MARKer[:BASic]:V<x>?

Function Queries all settings related to the power value of the

marker cursor of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:

MARKer[:BASic]:V<x>?
<x> of FFT<x> = 1 or 2
<x> of V<x> = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:MARKER:BASIC:V1?

-> :ANALYSIS:FFT1:MEASURE:MARKER:

BASIC:STATE 1

## :ANALysis:FFT<x>:MEASure:

#### MARKer[:BASic]:V<x>:STATe

Function Turns ON/OFF the power value of the marker cursor

of the FFT computation or queries the current setting.

Syntax :ANALysis:FFT<x>:MEASure:

MARKer[:BASic]:V<x>:STATe {<Boolean>}

:ANALysis:FFT<x>:MEASure: MARKer[:BASic]:V<x>:STATe?

<x> of FFT<x> = 1 or 2 <x> of V<x> = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:MARKER:BASIC:V1:

STATE ON

:ANALYSIS:FFT1:MEASURE:MARKER:BASIC:V1:

STATE? -> :ANALYSIS:FFT1:MEASURE:

MARKER: BASIC: V1: STATE 1

## :ANALysis:FFT<x>:MEASure:

#### MARKer[:BASic]:V<x>:VALue?

Function Queries the power value of the marker cursor of the

FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:

MARKer[:BASic]:V<x>:VALue?

<x> of FFT<x> = 1 or 2 <x> of V<x> = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:MARKER:BASIC:V1:

VALUE? -> :ANALYSIS:FFT1:MEASURE: MARKER:BASIC:V1:VALUE 1.000E+00

## :ANALysis:FFT<x>:MEASure:MARKer:

## CALCulation?

Function Queries all settings related to calculation items of the

marker cursor of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:MARKer:

CALCulation?

< x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:MARKER:

CALCULATION? -> :ANALYSIS:FFT1:MEASURE:
MARKER:CALCULATION:DEFINE1 "V(F1)";
DEFINE2 "V(F2)";DEFINE3 "V(F1)";
DEFINE4 "V(F2)";STATE1 1;STATE2 1;

STATE3 1;STATE4 1

## :ANALysis:FFT<x>:MEASure:MARKer:

#### CALCulation: ALL

Function Turns ON/OFF all calculation items of the marker

cursor of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:MARKer:

CALCulation:ALL {<Boolean>}

< x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:MARKER:

CALCULATION: ALL ON

## :ANALysis:FFT<x>:MEASure:MARKer:

## CALCulation:DEFine<x>

Function Sets the equation of the calculation items of the

marker cursor of the FFT computation or queries the

current setting.

Syntax :ANALysis:FFT<x>:MEASure:MARKer:

CALCulation:DEFine<x> {<String>}
:ANALysis:FFT<x>:MEASure:MARKer:

CALCulation:DEFine<x>?

<x> of FFT<x> = 1 or 2

<x> of DEFine<x> = 1 to 4

<String> = Up to 128 characters

Example :ANALYSIS:FFT1:MEASURE:MARKER:

CALCULATION: DEFINE1 "V(F1)"

:ANALYSIS:FFT1:MEASURE:MARKER:

CALCULATION:DEFINE1? -> :ANALYSIS:FFT1:

MEASURE: MARKER: CALCULATION:

DEFINE1 "V(F1)"

## :ANALysis:FFT<x>:MEASure:MARKer:

## CALCulation:STATe<x>

Function Turns ON/OFF the calculation items of the marker

cursor of the FFT computation or queries the current

setting.

Syntax :ANALysis:FFT<x>:MEASure:MARKer:C

ALCulation:STATe<x> {<Boolean>}
:ANALysis:FFT<x>:MEASure:MARKer:

CALCulation:STATe<x>?

<x> of FFT<x> = 1 or 2 <x> of STATe<x> = 1 to 4

Example :ANALYSIS:FFT1:MEASURE:MARKER:

CALCULATION:STATE1 ON

:ANALYSIS:FFT1:MEASURE:MARKER:

CALCULATION:STATE1? -> :ANALYSIS:FFT1:
MEASURE:MARKER:CALCULATION:STATE1 1

## :ANALysis:FFT<x>:MEASure:MARKer:

#### CALCulation: VALue<x>?

Function Queries the measured value of the calculation items

of the marker cursor of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:MARKer:

CALCulation: VALue<x>? <x> of FFT<x> = 1 or 2 <x> of VALue<x> = 1 to 4

Example :ANALYSIS:FFT1:MEASURE:MARKER:

CALCULATION: VALUE1? -> :ANALYSIS: FFT1:

MEASURE: MARKER: CALCULATION:

VALUE1 1.000E+00

## :ANALysis:FFT<x>:MEASure:MODE

Function Sets the automated measurement mode of the FFT computation or queries the current setting.

Syntax :ANALysis:FFT<x>:MEASure:MODE {MARKer|

OFF | PEAK }

:ANALysis:FFT<x>:MEASure:MODE?

< x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:MODE MARKER

:ANALYSIS:FFT1:MEASURE:MODE?

-> :ANALYSIS:FFT1:MEASURE:MODE MARKER

## :ANALysis:FFT<x>:MEASure:PEAK?

Function Queries all settings related to the peak value measurement of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:PEAK?

< x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:PEAK?

-> :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:

DFREQUENCY:STATE 1;:ANALYSIS:FFT1:

MEASURE: PEAK: BASIC: DV: STATE 1;:

ANALYSIS: FFT1: MEASURE: PEAK: BASIC:

FREQUENCY1:STATE 1;:ANALYSIS:FFT1:

MEASURE: PEAK: BASIC: FREQUENCY2: STATE 1;:

ANALYSIS:FFT1:MEASURE:PEAK:BASIC:

RANGE1 1.000E+00,0.000E+00;

RANGE2 1.000E+00,0.000E+00;V1:STATE 1;:

ANALYSIS:FFT1:MEASURE:PEAK:BASIC:V2:

STATE 1;:ANALYSIS:FFT1:MEASURE:PEAK:

CALCULATION: DEFINE1 "V(P1)";

DEFINE2 "V(P2)";DEFINE3 "V(P1)";

DEFINE4 "V(P2)";STATE1 1;STATE2 1;

STATE3 1;STATE4 1

#### :ANALysis:FFT<x>:MEASure:

#### PEAK: BASic?

Function Queries all settings related to basic items of the peak

value of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:PEAK:BASic?

< x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:PEAK:BASIC?

-> :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:

DFREQUENCY:STATE 1;:ANALYSIS:FFT1:

MEASURE:PEAK:BASIC:DV:STATE 1;

:ANALYSIS:FFT1:MEASURE:PEAK:BASIC:

FREQUENCY1:STATE 1;:ANALYSIS:FFT1:

MEASURE:PEAK:BASIC:FREQUENCY2:STATE 1;

:ANALYSIS:FFT1:MEASURE:PEAK:BASIC:

RANGE1 1.000E+00,0.000E+00;

RANGE2 1.000E+00,0.000E+00;V1:

STATE 1;:ANALYSIS:FFT1:MEASURE:PEAK:

BASIC: V2: STATE 1

#### :ANALysis:FFT<x>:MEASure:

## PEAK[:BASic]:ALL

Function Turns ON/OFF all basic items of the peak value of the

FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:

PEAK[:BASic]:ALL {<Boolean>}

< x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:

ALL ON

### :ANALysis:FFT<x>:MEASure:

## PEAK[:BASic]:DFRequency?

Function Queries all settings related to the frequency value between peak values of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:PEAK[:BASic]:

DFRequency?

< x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:

DFREQUENCY? -> :ANALYSIS:FFT1:MEASURE:

PEAK:BASIC:DFREQUENCY:STATE 1

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#### :ANALysis:FFT<x>:MEASure:

#### PEAK[:BASic]:DFRequency:STATe

Function Turns ON/OFF the frequency value between peak values of the FFT computation or queries the current setting.

setting.

Syntax :ANALysis:FFT<x>:MEASure:PEAK[:BASic]:

DFRequency:STATe {<Boolean>}

:ANALysis:FFT<x>:MEASure:PEAK[:BASic]:

DFRequency:STATe?

< x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:

DFREQUENCY: STATE ON

:ANALYSIS:FFT1:MEASURE:PEAK:BASIC:
DFREQUENCY:STATE? -> :ANALYSIS:FFT1:
MEASURE:PEAK:BASIC:DFREQUENCY:STATE 1

#### :ANALysis:FFT<x>:MEASure:

#### PEAK[:BASic]:DFRequency:VALue?

Function Queries the frequency value between peak values of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:PEAK[:BASic]:

DFRequency: VALue?

< x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:

DFREQUENCY:VALUE? -> :ANALYSIS:FFT1:

MEASURE: PEAK: BASIC: DFREQUENCY:

VALUE 1.000E+00

## :ANALysis:FFT<x>:MEASure:

#### PEAK[:BASic]:DV?

Function Queries all settings related to the power value between peak values of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:PEAK[:BASic]:

DV?

< x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:DV?

-> :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:

DV:STATE 1

## :ANALysis:FFT<x>:MEASure:

## PEAK[:BASic]:DV:STATe

Function Turns ON/OFF the power value between peak values of the FFT computation or queries the current setting.

Syntax :ANALysis:FFT<x>:MEASure:PEAK[:BASic]:

DV:STATe {<Boolean>}

:ANALysis:FFT<x>:MEASure:PEAK[:BASic]:

DV:STATe? <x> = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:DV:

STATE ON

:ANALYSIS:FFT1:MEASURE:PEAK:BASIC:DV: STATE? -> :ANALYSIS:FFT1:MEASURE:PEAK:

BASIC:DV:STATE 1

#### :ANALysis:FFT<x>:MEASure:

## PEAK[:BASic]:DV:VALue?

Function Queries the power value between peak values of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:PEAK[:BASic]:

DV: VALue? <x> = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:DV:

VALUE? -> :ANALYSIS:FFT1:MEASURE:PEAK:

BASIC:DV:VALUE 1.000E+00

## :ANALysis:FFT<x>:MEASure:

### PEAK[:BASic]:FREQuency<x>?

Function Queries all settings related to the peak frequency

value of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:PEAK[:BASic]:

FREQuency<x>?
<x> of FFT<x> = 1 or 2

<x> of FREQuency<x> = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:

FREQUENCY1? -> :ANALYSIS:FFT1:MEASURE:

PEAK:BASIC:FREQUENCY1:STATE 1

#### :ANALysis:FFT<x>:MEASure:

## PEAK[:BASic]:FREQuency<x>:STATe

Function Turns ON/OFF the peak frequency value of the FFT

computation or queries the current setting.

Syntax :ANALysis:FFT<x>:MEASure:PEAK[:BASic]:F

REQuency<x>:STATe {<Boolean>}

:ANALysis:FFT<x>:MEASure:PEAK[:BASic]:

FREQuency<x>: STATe? <x> of FFT<x> = 1 or 2 <x> of FREQuency<x> = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:

FREQUENCY1:STATE ON

:ANALYSIS:FFT1:MEASURE:PEAK:BASIC: FREQUENCY1:STATE? -> :ANALYSIS:FFT1: MEASURE:PEAK:BASIC:FREQUENCY1:STATE 1

## :ANALysis:FFT<x>:MEASure:

## PEAK[:BASic]:FREQuency<x>:VALue?

Function Queries the peak frequency value of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:PEAK[:BASic]:

FREQuency<x>: VALue? <x> of FFT<x> = 1 or 2 <x> of FREQuency<x> = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:

FREQUENCY1:VALUE? -> :ANALYSIS:FFT1:

MEASURE: PEAK: BASIC: FREQUENCY1:

VALUE 1.000E+00

## :ANALysis:FFT<x>:MEASure:

#### PEAK[:BASic]:RANGe<x>

Function Sets the measurement range of the peak value of the

FFT computation or queries the current setting.

Syntax :ANALysis:FFT<x>:MEASure:PEAK[:BASic]:

RANGe<x> {<NRf>,<NRf>}

:ANALysis:FFT<x>:MEASure:PEAK[:BASic]:

RANGe<x>?

<x> of FFT<x> = 1 or 2 <x> of RANGe<x> = 1 or 2

<NRf> = -5 to 5 div

Example :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:

RANGE1 0,1

:ANALYSIS:FFT1:MEASURE:PEAK:BASIC:
RANGE1? -> :ANALYSIS:FFT1:MEASURE:
PEAK:BASIC:RANGE1 1.000E+00,0.000E+00

#### :ANALysis:FFT<x>:MEASure:

#### PEAK[:BASic]:V<x>?

Function Queries all settings related to the peak value of the

FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:PEAK[:BASic]:

V<x>?

<x> of FFT<x> = 1 or 2 <x> of V<x> = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:V1?

-> :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:

V1:STATE 1

## :ANALysis:FFT<x>:MEASure:

## PEAK[:BASic]:V<x>:STATe

Function Turns ON/OFF the peak value of the FFT computation

or queries the current setting.

Syntax :ANALysis:FFT<x>:MEASure:PEAK[:BASic]:

V<x>:STATe {<Boolean>}

:ANALysis:FFT<x>:MEASure:PEAK[:BASic]:

V<x>:STATe?

<x> of FFT<x> = 1 or 2

< x > of V < x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:V1:

STATE ON

:ANALYSIS:FFT1:MEASURE:PEAK:BASIC:V1: STATE? -> :ANALYSIS:FFT1:MEASURE:PEAK:

BASIC:V1:STATE 1

## :ANALysis:FFT<x>:MEASure:

## PEAK[:BASic]:V<x>:VALue?

Function Queries the peak value of the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:PEAK[:BASic]:

V<x>:VALue?

<x> of FFT<x> = 1 or 2 <x> of V<x> = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:PEAK:BASIC:V1:

VALUE? -> :ANALYSIS:FFT1:MEASURE:PEAK:

BASIC:V1:VALUE 1.000E+00

## :ANALysis:FFT<x>:MEASure:PEAK:

#### CALCulation?

Function Queries all settings related to calculation items of the

FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:PEAK:

CALCulation? < x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:PEAK:

CALCULATION? -> :ANALYSIS:FFT1:MEASURE:

PEAK:CALCULATION:DEFINE1 "V(P1)";
DEFINE2 "V(P2)";DEFINE3 "V(P1)";
DEFINE4 "V(P2)";STATE1 1;STATE2 1;

STATE3 1;STATE4 1

#### :ANALysis:FFT<x>:MEASure:PEAK:

#### CALCulation: ALL

Function Turns ON/OFF all calculation items of the FFT

computation.

Syntax :ANALysis:FFT<x>:MEASure:PEAK:

CALCulation:ALL {<Boolean>}

< x > = 1 or 2

Example :ANALYSIS:FFT1:MEASURE:PEAK:

CALCULATION: ALL ON

## :ANALysis:FFT<x>:MEASure:PEAK:

#### CALCulation: DEFine<x>

Function Sets the equation of the calculation item of the FFT

computation or queries the current setting.

Syntax :ANALysis:FFT<x>:MEASure:PEAK:

CALCulation:DEFine<x> {<String>}
:ANALysis:FFT<x>:MEASure:PEAK:

CALCulation:DEFine<x>?

<x> of FFT<x> = 1 or 2

<x> of DEFine<x> = 1 to 4

<String> = Up to 128 characters

Example :ANALYSIS:FFT1:MEASURE:PEAK:

CALCULATION: DEFINE1 "V(P1)"

:ANALYSIS:FFT1:MEASURE:PEAK:

CALCULATION:DEFINE1? -> :ANALYSIS:FFT1:

MEASURE: PEAK: CALCULATION:

DEFINE1 "V(P1)"

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## :ANALysis:FFT<x>:MEASure:PEAK:

#### CALCulation:STATe<x>

Function Turns ON/OFF the calculation items of the FFT

computation or queries the current setting.

Syntax :ANALysis:FFT<x>:MEASure:PEAK:

CALCulation:STATe<x> {<Boolean>}

:ANALysis:FFT<x>:MEASure:PEAK:

CALCulation:STATe<x>? <x> of FFT<x> = 1 or 2 <x> of STATe<x> = 1 to 4

Example :ANALYSIS:FFT1:MEASURE:PEAK:

CALCULATION:STATE1 ON

:ANALYSIS:FFT1:MEASURE:PEAK:

CALCULATION:STATE1? -> :ANALYSIS:FFT1:
MEASURE:PEAK:CALCULATION:STATE1 1

#### :ANALysis:FFT<x>:MEASure:PEAK:

#### CALCulation: VALue < x >?

Function Queries the measured value of the calculation item of

the FFT computation.

Syntax :ANALysis:FFT<x>:MEASure:PEAK:

CALCulation: VALue<x>? <x> of FFT<x> = 1 or 2 <x> of VALue<x> = 1 to 4

Example :ANALYSIS:FFT1:MEASURE:PEAK:

CALCULATION:VALUE1? -> :ANALYSIS:FFT1:

 ${\tt MEASURE: PEAK: CALCULATION:}$ 

VALUE1 1.000E+00

## :ANALysis:FFT<x>:RANGe

Function Sets the measurement source window used in the

FFT computation or queries the current setting.

 $\verb|Syntax| : \verb|ANALysis:FFT<x>: \verb|RANGe| {MAIN | Z1 | Z2}| \\$ 

:ANALysis:FFT<x>:RANGe?

< x > = 1 or 2

Example :ANALYSIS:FFT1:RANGE MAIN

:ANALYSIS:FFT1:RANGE? -> :ANALYSIS:

FFT1:RANGE MAIN

## :ANALysis:FFT<x>:RPARt (Real Part)

Function Sets the source trace of the real part of the FFT

computation or queries the current setting.

Syntax :ANALysis:FFT<x>:RPARt {<NRf>}

:ANALysis:FFT<x>:RPARt?

< x > = 1 or 2

<NRf> = 1 to 8

Example :ANALYSIS:FFT1:RPART 1

:ANALYSIS:FFT1:RPART? -> :ANALYSIS:

FFT1:RPART 1

## :ANALysis:FFT<x>:RPOSition

#### (Ref Position)

Function Sets the center point of magnification of the vertical

axis of the FFT computation or queries the current  $% \left( t\right) =\left( t\right) \left(  

setting.

Syntax :ANALysis:FFT<x>:RPOSition {<NRf>}

:ANALysis:FFT<x>:RPOSition?

<x> = 1 or 2

 $\langle NRf \rangle = -4 \text{ to } 4 \text{ (div)}$ 

Example :ANALYSIS:FFT1:RPOSITION 1

:ANALYSIS:FFT1:RPOSITION? -> :ANALYSIS:

FFT1:RPOSITION 1.000E+00

## :ANALysis:FFT<x>:VERTical?

Function Queries all settings related the vertical axis of the

FFT computation.

Syntax :ANALysis:FFT<x>:VERTical?

< x > = 1 or 2

Example :ANALYSIS:FFT1:VERTICAL? -> :ANALYSIS:

FFT1:VERTICAL:

LEVEL 1.000E+00; MODE AUTO; SENSITIVITY 1.000E+00

## :ANALysis:FFT<x>:VERTical:LEVel

Function Sets the display position of the vertical axis of the

FFT computation or queries the current setting.

Syntax :ANALysis:FFT<x>:VERTical:LEVel {<NRf>}

:ANALysis:FFT<x>:VERTical:LEVel?

< x > = 1 or 2

<NRf> = -1.000E+31 to 1.000E+31 (dBV)

Example :ANALYSIS:FFT1:VERTICAL:LEVEL 1

:ANALYSIS:FFT1:VERTICAL:LEVEL?

-> :ANALYSIS:FFT1:VERTICAL:

LEVEL 1.000E+00

## :ANALysis:FFT<x>:VERTical:MODE

Function Sets the vertical axis mode of the FFT computation or

queries the current setting.

Syntax :ANALysis:FFT<x>:VERTical:MODE {AUTO|

MANual }

:ANALysis:FFT<x>:VERTical:MODE?

< x > = 1 or 2

Example :ANALYSIS:FFT1:VERTICAL:MODE AUTO

:ANALYSIS:FFT1:VERTICAL:MODE?

-> :ANALYSIS:FFT1:VERTICAL:MODE AUTO

## :ANALysis:FFT<x>:VERTical:

### **SENSitivity**

Function Sets the vertical sensitivity of the FFT computation or queries the current setting.

Syntax :ANALysis:FFT<x>:VERTical:SENSitivity

{<NRf>}

:ANALysis:FFT<x>:VERTical:SENSitivity?

< x > = 1 or 2

<NRf> = 0 to 1.000E+31 (dBV)

Example :ANALYSIS:FFT1:VERTICAL:SENSITIVITY 1

:ANALYSIS:FFT1:VERTICAL:SENSITIVITY?

-> :ANALYSIS:FFT1:VERTICAL:S

ENSITIVITY 1.000E+00

## :ANALysis:FFT<x>:WINDow

Function Sets the window function of the FFT computation or

queries the current setting.

Syntax :ANALysis:FFT<x>:WINDow {FLATtop|

HANNing|RECTangle}

:ANALysis:FFT<x>:WINDow?

< x > = 1 or 2

Example :ANALYSIS:FFT1:WINDOW FLATTOP

:ANALYSIS:FFT1:WINDOW? -> :ANALYSIS:

FFT1:WINDOW FLATTOP

## :ANALysis:LSBus<x>?

Function Queries all settings related to the logic serial bus

signal function.

Syntax :ANALysis:LSBus<x>?

< x > = 1 or 2

Example :ANALYSIS:LSBUS1? -> :ANALYSIS:LSBUS1:

ANALYZE: I2CBUS: CLOCK A0; DTRACE A1;:

ANALYSIS: LSBUS1: ANALYZE: LINBUS:

BRATE 19200; REVISION LIN1\_3;

SPOINT 18.8E+00; TRACE A0; :ANALYSIS:

LSBUS1:ANALYZE:LIST:DISPLAY 1;

MODE DETAIL; SCROLL VERTICAL; :

ANALYSIS:LSBUS1:ANALYZE:MODE;

RPOINT TRIGGER; SPIBUS: CLOCK:

POLARITY RISE; SOURCE A0; : ANALYSIS:

LSBUS1:ANALYZE:SPIBUS:CS:ACTIVE LOW;

TRACE A3::ANALYSIS:LSBUS1:ANALYZE:

SPIBUS:DATA1:ACTIVE HIGH; TRACE A1;:

ANALYSIS:LSBUS1:ANALYZE:SPIBUS:DATA2:

ACTIVE HIGH; TRACE A1; : ANALYSIS:

LSBUS1:ANALYZE:SPIBUSSETUP:

BITORDER MSBFIRST; MODE WIRE3; : ANALYSIS:

LSBUS1:ANALYZE:UART:BITORDER LSBFIRST;

BRATE 19200; FORMAT BIT7PARITY;

PMODE EVEN; POLARITY NEGATIVE;

SPOINT 18.8E+00; TRACE A0; :ANALYSIS:

LSBUS1:ZLINKAGE Z1

## :ANALysis:LSBus<x>[:ANALyze]?

Function Queries all settings related to the logic serial bus

signal.

Syntax :ANALysis:LSBus<x>[:ANALyze]?

< x > = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE? -> :ANALYSIS:

LSBUS1:ANALYZE:I2CBUS:CLOCK A0;

DTRACE A1;:ANALYSIS:LSBUS1:ANALYZE:

LINBUS:BRATE 19200;REVISION LIN1\_3;

SPOINT 18.8E+00; TRACE A0; : ANALYSIS:

LSBUS1:ANALYZE:LIST:DISPLAY 1;

MODE DETAIL; SCROLL VERTICAL; : ANALYSIS:

LSBUS1:ANALYZE:MODE; RPOINT TRIGGER;

SPIBUS:CLOCK:POLARITY RISE;SOURCE A0;:

ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CS:

ACTIVE LOW; TRACE A3; :ANALYSIS:LSBUS1:

ANALYZE:SPIBUS:DATA1:ACTIVE HIGH;

TRACE A1;:ANALYSIS:LSBUS1:ANALYZE:

SPIBUS:DATA2:ACTIVE HIGH; TRACE A1;:

ANALYSIS: LSBUS1: ANALYZE: SPIBUSSETUP:

BITORDER MSBFIRST; MODE WIRE3;:

ANALYSIS:LSBUS1:ANALYZE:UART:

BITORDER LSBFIRST; BRATE 19200;

FORMAT BIT7PARITY; PMODE EVEN;

POLARITY NEGATIVE; SPOINT 18.8E+00;

TRACE A0

## :ANALysis:LSBus<x>[:ANALyze]:I2CBus?

Function Queries all settings related to the logic I<sup>2</sup>C bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:I2CBus?

< x > = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:

12CBUS? -> :ANALYSIS:LSBUS1:ANALYZE:

I2CBUS:CLOCK A0;DTRACE A0

## :ANALysis:LSBus<x>[:ANALyze]:I2CBus:

## CLOCk

Function Sets the clock channel of the logic I<sup>2</sup>C bus signal analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:I2CBus:

CLOCk  $\{A < y > \}$ 

:ANALysis:LSBus<x>[:ANALyze]:I2CBus:

CLOCk?

< x > = 1 or 2

 $\langle y \rangle = 0$  to 7

Example :ANALYSIS:LSBUS1:ANALYZE:I2CBUS:

CLOCK AO

:ANALYSIS:LSBUS1:ANALYZE:I2CBUS:

CLOCK? -> :ANALYSIS:LSBUS1:ANALYZE:

I2CBUS:CLOCK A0

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## :ANALysis:LSBus<x>[:ANALyze]:I2CBus: DTRace

analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:I2CBus:

DTRace {A<y>}

:ANALysis:LSBus<x>[:ANALyze]:I2CBus:

x = 1 or 2x = 0 to 7

Example :ANALYSIS:LSBUS1:ANALYZE:I2CBUS:

DTRACE A0

:ANALYSIS:LSBUS1:ANALYZE:I2CBUS: DTRACE? -> :ANALYSIS:LSBUS1:ANALYZE:

I2CBUS:DTRACE A0

#### :ANALysis:LSBus<x>[:ANALyze]:LINBus?

Function Queries all settings related to the logic LIN bus signal

analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus?

< x > = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS?

-> :ANALYSIS:LSBUS1:ANALYZE:LINBUS:

BRATE 19200; REVISION LIN1\_3; SPOINT 18.8E+00; TRACE A0

# :ANALysis:LSBus<x>[:ANALyze]:LINBus:

Function Sets the bit rate (data transfer rate) of the logic LIN

bus signal analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus:

BRATe { < NRf > | USER, < NRf > }

:ANALysis:LSBus<x>[:ANALyze]:LINBus:

BRATe?

< x > = 1 or 2

< NRf > = 1200, 2400, 4800, 9600, or

19200

<NRf> of USER = See the User's Manual

(IM701361-01E).

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS:

BRATE 19200

:ANALYSIS:LSBUS1:ANALYZE:LINBUS:

BRATE? -> :ANALYSIS:LSBUS1:ANALYZE:

LINBUS:BRATE 19200

## :ANALysis:LSBus<x>[:ANALyze]:LINBus: FJUMp:BREak

Function Executes a field jump to the Break Field in the results

of the logic LIN bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus:

FJUMp:BREak
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS:FJUMP:

BREAK

## :ANALysis:LSBus<x>[:ANALyze]:LINBus: FJUMp:CSUM

Function Executes a field jump to the Checksum Field in the

results of the logic LIN bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus:

FJUMp:CSUM <x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS:FJUMP:

CSUM

## :ANALysis:LSBus<x>[:ANALyze]:LINBus: FJUMp:DATA

Function Executes a field jump to the Data Field in the results

of the logic LIN bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus:

FJUMp:DATA <x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS:FJUMP:

DATA

## :ANALysis:LSBus<x>[:ANALyze]:LINBus:

## FJUMp: IDENtifier

Function Executes a field jump to the Identifier Field in the

results of the logic LIN bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus:

FJUMp:IDENtifier
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS:FJUMP:

IDENTIFIER

## :ANALysis:LSBus<x>[:ANALyze]:LINBus:

## FJUMp:SYNCh

Function Executes a field jump to the Synch Field in the results

of the logic LIN bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus:

FJUMp:SYNCh

< x > = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS:FJUMP:

SYNCH

## :ANALysis:LSBus<x>[:ANALyze]:LINBus: REVision

Function Sets the revision (1.3 or 2.0) of the logic LIN bus

signal analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus:

REVision {LIN1\_3|LIN2\_0}

:ANALysis:LSBus<x>[:ANALyze]:LINBus:

REVision? <x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS:

REVISION LIN1 3

:ANALYSIS:LSBUS1:ANALYZE:LINBUS: REVISION? -> :ANALYSIS:LSBUS1:ANALYZE:

LINBUS:REVISION LIN1\_3

## :ANALysis:LSBus<x>[:ANALyze]:LINBus: SPOint

Function Sets the logic LIN bus signal analysis sample point or

queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus:

SPOint {<NRf>}

:ANALysis:LSBus<x>[:ANALyze]:LINBus:

SPOint?
<x> = 1 or 2
<NRf> = 18.8 to 90.6(%)

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS:

SPOINT 18.8

:ANALYSIS:LSBUS1:ANALYZE:LINBUS:SPOINT?

-> :ANALYSIS:LSBUS1:ANALYZE:LINBUS:

SPOINT 18.8E+00

## :ANALysis:LSBus<x>[:ANALyze]:LINBus: TRACe

Function Sets the trace of the logic LIN bus signal analysis or

queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus:

TRACe {A<y>}

:ANALysis:LSBus<x>[:ANALyze]:LINBus:

TRACe? <x> = 1 or 2 <y> = 0 to 7

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS:

TRACE A0

:ANALYSIS:LSBUS1:ANALYZE:LINBUS:TRACE?
-> :ANALYSIS:LSBUS1:ANALYZE:LINBUS:

TRACE A0.

## :ANALysis:LSBus<x>[:ANALyze]:LIST?

Function Queries all settings related to the analysis result list of the logic serial bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LIST?

< x > = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:

LIST? -> :ANALYSIS:LSBUS1:ANALYZE:LIST: DISPLAY 1;MODE DETAIL;SCROLL HORIZONTAL

## :ANALysis:LSBus<x>[:ANALyze]:LIST: DISPlay

Function Turns ON/OFF the analysis result list of the logic serial bus signal analysis or queries the current

setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LIST:

DISPlay {<Boolean>}

:ANALysis:LSBus<x>[:ANALyze]:LIST:

DISPlay? <x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LIST:

DISPLAY ON

:ANALYSIS:LSBUS1:ANALYZE:LIST:

DISPLAY? -> :ANALYSIS:LSBUS1:ANALYZE:

LIST:DISPLAY 1

## :ANALysis:LSBus<x>[:ANALyze]:LIST:

## ITEM?

Function Queries all items displayed on the analysis result list

of the logic serial bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LIST:ITEM?

< x > = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LIST:

ITEM?

-> :ANALYSIS:LSBUS1:ANALYZE:LIST: ITEM " No.,S/P,Hex,Form,R/W,ACK,"

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## :ANALysis:LSBus<x>[:ANALyze]:LIST:

#### MODE

Function Sets the mode of the analysis result list of the logic

serial bus signal analysis or queries the current

setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LIST:

MODE {DETail|SIMPle}

:ANALysis:LSBus<x>[:ANALyze]:LIST:MODE?

< x > = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LIST:

MODE DETAIL

:ANALYSIS:LSBUS1:ANALYZE:LIST:

MODE? -> :ANALYSIS:LSBUS1:ANALYZE:LIST:

MODE DETAIL

## :ANALysis:LSBus<x>[:ANALyze]:LIST: SCRoll

Function Sets the scroll method of the analysis result list of the

logic serial bus signal analysis or queries the current

setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LIST:

SCRoll {HORizontal|VERTical}

:ANALysis:LSBus<x>[:ANALyze]:LIST:

SCRoll? < x > = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LIST:

SCROLL HORIZONTAL

:ANALYSIS:LSBUS1:ANALYZE:LIST:

SCROLL? -> :ANALYSIS:LSBUS1:ANALYZE:

LIST:SCROLL HORIZONTAL

## :ANALysis:LSBus<x>[:ANALyze]:LIST: VALue?

Function Queries the automated measured value of the

specified analysis number in the analysis result list of

the logic serial bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LIST:

VALue? { < NRf > | MAXimum | MINimum}

< x > = 1 or 2

<NRf> = -40000 to 40000

(<NRf> = -2999 to 2999 for :ANALysis:SBUS<x>[:

ANALyze]:MODE CANBus.)

Example :ANALYSIS:LSBUS1:ANALYZE:LIST:

VALUE? 1

-> :ANALYSIS:LSBUS1:ANALYZE:LIST:

VALUE " 1, P, 00, A, , 0,"

Description Set the data to MAXimum or MINimum to specify the maximum list display number or the minimum list display number.

## :ANALysis:LSBus<x>[:ANALyze]:MODE

Function Sets the logic serial bus signal analysis mode or

queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:

MODE {I2CBus|LINBus|SPIBus|UART}
:ANALysis:LSBus<x>[:ANALyze]:MODE?

< x > = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:MODE I2CBUS

:ANALYSIS:LSBUS1:ANALYZE:

MODE? -> :ANALYSIS:LSBUS1:ANALYZE:

MODE I2CBUS

## :ANALysis:LSBus<x>[:ANALyze]:RPOint

Function Sets the analysis reference point of the logic serial bus signal analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:

RPOint {<NRf>, MANual | TRIGger}

:ANALysis:LSBus<x>[:ANALyze]:RPOint?

< x > = 1 or 2

<NRf> = -5 to 5(div)

Example :ANALYSIS:LSBUS1:ANALYZE:RPOINT

MANUAL, 1

:ANALYSIS:LSBUS1:ANALYZE:

RPOINT? -> :ANALYSIS:LSBUS1:ANALYZE:

RPOINT MANUAL, 1.00000E+00

## :ANALysis:LSBus<x>[:ANALyze]:SPIBus?

Function Queries all settings related to the logic SPI bus signal

analysis

Syntax :ANALysis:LSBus<x>[:ANALyze]:SPIBus?

< x > = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:

SPIBUS? -> :ANALYSIS:LSBUS1:ANALYZE:
SPIBUS:CLOCK:POLARITY FALL;SOURCE A0;:
ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CS:

ACTIVE HIGH; TRACE A0;:ANALYSIS:LSBUS1:

ANALYZE:SPIBUS:DATA1:ACTIVE HIGH;
TRACE A0;:ANALYSIS:LSBUS1:ANALYZE:
SPIBUS:DATA2:ACTIVE HIGH;TRACE A2;:

ANALYSIS: LSBUS1: ANALYZE: SPIBUSSETUP:

BITORDER LSBFIRST; MODE WIRE3

## :ANALysis:LSBus<x>[:ANALyze]:SPIBus:

Function Queries all settings related to the clock signal channel of the logic SPI bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:SPIBus:

CLOCk?

CLOCk?

< x > = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:

CLOCK? -> :ANALYSIS:LSBUS1:ANALYZE: SPIBUS:CLOCK:POLARITY FALL;SOURCE A0

## :ANALysis:LSBus<x>[:ANALyze]:SPIBus: CLOCk:POLarity

Function Sets the polarity of the clock signal channel of the

logic SPI bus signal analysis or queries the current

setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:SPIBus:

CLOCk: POLarity {FALL | RISE}

:ANALysis:LSBus<x>[:ANALyze]:SPIBus:

CLOCk: POLarity?

< x > = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CLOCK:

POLARITY FALL

:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CLOCK:
POLARITY? -> :ANALYSIS:LSBUS1:ANALYZE:

SPIBUS:CLOCK:POLARITY FALL

## :ANALysis:LSBus<x>[:ANALyze]:SPIBus: CLOCk:SOURce

Function Sets the clock signal channel of the logic SPI bus

signal analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:SPIBus:

CLOCk:SOURce {A<y>}

:ANALysis:LSBus<x>[:ANALyze]:SPIBus:

CLOCk:SOURce? <x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CLOCK:

SOURCE A0

<y> = 0 to 7

:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CLOCK:

SOURCE? -> :ANALYSIS:LSBUS1:ANALYZE:

SPIBUS:CLOCK:SOURCE A0

## :ANALysis:LSBus<x>[:ANALyze]:SPIBus: CS?

Function Queries all settings related to the chip select signal

channel of the logic SPI bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:SPIBus:CS?

< x > = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:

CS? -> :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:

CS:ACTIVE HIGH; TRACE A0

## :ANALysis:LSBus<x>[:ANALyze]:SPIBus: CS:ACTive

Function Sets the active level of the chip select signal channel

of the logic SPI bus signal analysis or queries the

current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:SPIBus:CS:

ACTive {HIGH|LOW}

:ANALysis:LSBus<x>[:ANALyze]:SPIBus:CS:

ACTive? <x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CS:

ACTIVE HIGH

:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CS:

ACTIVE? -> :ANALYSIS:LSBUS1:ANALYZE:

SPIBUS:CS:ACTIVE HIGH

## :ANALysis:LSBus<x>[:ANALyze]:SPIBus: CS:TRACe

Function Sets the chip select signal channel of the logic SPI

bus signal analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:SPIBus:CS:

TRACe  $\{A < y > \}$ 

:ANALysis:LSBus<x>[:ANALyze]:SPIBus:CS:

TRACe? <x> = 1 or 2 <y> = 0 to 7

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CS:

TRACE A0

:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CS:

TRACE? -> :ANALYSIS:LSBUS1:ANALYZE:

SPIBUS:CS:TRACE A0

# :ANALysis:LSBus<x>[:ANALyze]:SPIBus:

Function Queries all settings related to each data of the logic

SPI bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:SPIBus:

DATA<x>?

<x> of LSBus<x> = 1 or 2

<x> of DATA<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:

DATA1? -> :ANALYSIS:LSBUS1:ANALYZE:

SPIBUS:DATA1:ACTIVE HIGH;TRACE A0

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## :ANALysis:LSBus<x>[:ANALyze]:SPIBus: DATA<x>:ACTive

Function Sets the active level of each data of the logic SPI bus

signal analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:SPIBus:

DATA<x>:ACTive {HIGH|LOW}

:ANALysis:LSBus<x>[:ANALyze]:SPIBus:

DATA<x>:ACTive?

<x> of LSBus<x> = 1 or 2 <x> of DATA<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:DATA1:

ACTIVE HIGH

:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:DATA1: ACTIVE? -> :ANALYSIS:LSBUS1:ANALYZE:

SPIBUS:DATA1:ACTIVE HIGH

## :ANALysis:LSBus<x>[:ANALyze]:SPIBus: DATA<x>:TRACe

Function Sets the data channel of the logic SPI bus signal

analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:SPIBus:

DATA<x>:TRACe {A<y>}

:ANALysis:LSBus<x>[:ANALyze]:SPIBus:

DATA<x>:TRACe?

<x> of LSBus<x> = 1 or 2
<x> of DATA<x> = 1 or 2

<y> = 0 to 7

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:DATA1:

TRACE A0

:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:DATA1:
TRACE? -> :ANALYSIS:LSBUS1:ANALYZE:

SPIBUS:DATA1:TRACE A0

## :ANALysis:LSBus<x>[:ANALyze]: SPIBus[:SETup]?

Function Queries all settings related to the setup of the logic SPI bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:

SPIBus[:SETup]?

< x > = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:

SETUP? -> :ANALYSIS:LSBUS1:ANALYZE :SPIBUS:SETUP:BITORDER LSBFIRST;MODE

WIRE3

## :ANALysis:LSBus<x>[:ANALyze]:

## SPIBus[:SETup]:BITorder

Function Sets the bit order of the logic SPI bus signal analysis

or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:

SPIBus[:SETup]:

BITorder {LSBFirst | MSBFirst }
:ANALysis:LSBus<x>[:ANALyze]:
SPIBus[:SETup]:BITorder?

 $\langle x \rangle = 1 \text{ or } 2$ 

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP:

BITORDER LSBFIRST

:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP: BITORDER? -> :ANALYSIS:LSBUS1:ANALYZE:

SPIBUS:SETUP:BITORDER LSBFIRST

#### :ANALysis:LSBus<x>[:ANALyze]:

#### SPIBus[:SETup]:MODE

Function Sets the wiring system of the logic SPI bus signal analysis (three-wire or four-wire) or queries the

current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:

SPIBus[:SETup]:MODE {WIRe3|WIRe4}
:ANALysis:LSBus<x>[:ANALyze]:

SPIBus[:SETup]:MODE?

< x > = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP:

MODE WIRE3

:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP:

MODE? -> :ANALYSIS:LSBUS1:ANALYZE:

SPIBUS:SETUP:MODE WIRE3

## :ANALysis:LSBus<x>[:ANALyze]:UART?

Function Queries all settings related to the logic UART bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:UART?

< x > = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:UART?

-> :ANALYSIS:LSBUS1:ANALYZE:UART: BITORDER LSBFIRST;BRATE 19200; FORMAT BIT7PARITY;PMODE EVEN;P OLARITY NEGATIVE;SPOINT 18.8E+00;

TRACE A0

## :ANALysis:LSBus<x>[:ANALyze]:UART: BITorder

Function Sets the logic UART bus signal analysis bit order or

queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:UART:

BITorder {LSBFirst|MSBFirst}

:ANALysis:LSBus<x>[:ANALyze]:UART:

BITorder? <x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:UART:

BITORDER LSBFIRST

:ANALYSIS:LSBUS1:ANALYZE:UART:BITORDER?

-> :ANALYSIS:LSBUS1:ANALYZE:UART:

BITORDER LSBFIRST

## :ANALysis:LSBus<x>[:ANALyze]:UART:

#### BRATe

Function Sets the logic UART bus signal analysis bit rate (data

transfer rate) or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:UART:BRATe

{ <NRf > | USER, <NRf > }

:ANALysis:LSBus<x>[:ANALyze]:UART:

BRATe? <x> = 1 or 2

<NRf> = 1200, 2400, 4800, 9600, 19200, 38400,

57600, or 115200

<NRf> of USER = See the SB5000 User's Manual

Example :ANALYSIS:LSBUS1:ANALYZE:UART:BRATE

19200

:ANALYSIS:LSBUS1:ANALYZE:UART:BRATE?

-> :ANALYSIS:LSBUS1:ANALYZE:UART:BRATE

19200

## :ANALysis:LSBus<x>[:ANALyze]:UART:

#### FORMat

Function Sets the logic UART bus signal analysis data format

or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:UART:

FORMat {BIT7parity|BIT8Noparity|

BIT8Parity}

:ANALysis:LSBus<x>[:ANALyze]:UART:

FORMat?

< x > = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:UART:

FORMAT BIT7PARITY

:ANALYSIS:LSBUS1:ANALYZE:UART:FORMAT?

-> :ANALYSIS:LSBUS1:ANALYZE:UART:

FORMAT BIT7PARITY

## :ANALysis:LSBus<x>[:ANALyze]:UART:

#### **PMODe**

Function Sets the logic UART bus signal analysis parity mode

or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:UART:

PMODe {EVEN|ODD}

:ANALysis:LSBus<x>[:ANALyze]:UART:

PMODe?

< x > = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:UART:

PMODE EVEN

:ANALYSIS:LSBUS1:ANALYZE:UART:PMODE?

-> :ANALYSIS:LSBUS1:ANALYZE:UART:

PMODE EVEN

# :ANALysis:LSBus<x>[:ANALyze]:UART: POLarity

Function Sets the logic UART bus signal analysis parity or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:UART:

POLarity {NEGative|POSitive}

:ANALysis:LSBus<x>[:ANALyze]:UART:

POLarity? <x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:UART:

POLARITY NEGATIVE

:ANALYSIS:LSBUS1:ANALYZE:UART:

POLARITY? -> :ANALYSIS:LSBUS1:ANALYZE:

UART: POLARITY NEGATIVE

## :ANALysis:LSBus<x>[:ANALyze]:UART: SPOint

Function Sets the logic UART bus signal analysis sample point

or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:UART:

SPOint {<NRf>}

:ANALysis:LSBus<x>[:ANALyze]:UART:

SPOint?

< x > = 1 or 2

<NRf> = 18.8 to 90.6(%)

Example :ANALYSIS:LSBUS1:ANALYZE:UART:

SPOINT 18.8

:ANALYSIS:LSBUS1:ANALYZE:UART:SPOINT?

-> :ANALYSIS:LSBUS1:ANALYZE:UART:

SPOINT 18.8E+00

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## :ANALysis:LSBus<x>[:ANALyze]:UART:

#### TRACe

Function Sets the logic UART bus signal analysis trace or

queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:UART:

TRACe {A<y>}

:ANALysis:LSBus<x>[:ANALyze]:UART:

TRACe? < x > = 1 or 2<y> = 0 to 7

Example :ANALYSIS:LSBUS1:ANALYZE:UART:TRACE A0

:ANALYSIS:LSBUS1:ANALYZE:UART:TRACE? ->

:ANALYSIS:LSBUS1:ANALYZE:UART:TRACE A0

## :ANALysis:LSBus<x>:ZLINkage

Function Sets the zoom link of the logic serial bus signal

analysis or queries the current setting.

:ANALysis:LSBus<x>:ZLINkage {OFF | Z1 | Z2} Syntax

:ANALysis:LSBus<x>:ZLINkage?

< x > = 1 or 2

Example :ANALYSIS:LSBUS1:ZLINKAGE OFF

:ANALYSIS:LSBUS1:

ZLINKAGE? -> :ANALYSIS:LSBUS1:

ZLINKAGE OFF

## :ANALysis:SBUS<x>?

Function Queries all settings related to the serial bus signal

analysis function.

:ANALysis:SBUS<x>? Syntax

< x > = 1 or 2

Example :ANALYSIS:SBUS1? -> :ANALYSIS:SBUS1:

ANALYZE: CANBUS: BRATE 500000; RECESSIVE HIGH; SIGNAL: MODE 1;: ANALYSIS:SBUS1:ANALYZE:CANBUS: SPOINT 62.5E+00; TRACE 1; : ANALYSIS: SBUS1:ANALYZE:DECODE 1;FLEXRAY:

BRATE 5000000; SPOINT 5.00E+00; TRACE 1;:

ANALYSIS:SBUS1:ANALYZE:I2CBUS: CLOCK 1; DTRACE 2; :ANALYSIS: SBUS1:

ANALYZE:LINBUS:BRATE 19200; REVISION LIN1 3; SPOINT 18.8E+00;

TRACE 1;:ANALYSIS:SBUS1:ANALYZE:LIST:

DISPLAY 1; MODE DETAIL; SCROLL VERTICAL; :

ANALYSIS:SBUS1:ANALYZE:MODE CANBUS;

RPOINT TRIGGER: SPIBUS: CLOCK:

POLARITY RISE; SOURCE 1; :ANALYSIS: SBUS1: ANALYZE:SPIBUS:CS:ACTIVE LOW;TRACE 4;:

ANALYSIS:SBUS1:ANALYZE:SPIBUS:DATA1:

ACTIVE HIGH; TRACE 2; :ANALYSIS:SBUS1:

ANALYZE: SPIBUS: DATA2: ACTIVE HIGH;

TRACE 3;:ANALYSIS:SBUS1:ANALYZE:

SPIBUSSETUP:BITORDER MSBFIRST;M

ODE WIRE3;:ANALYSIS:SBUS1:ANALYZE:

TRACE1: HYSTERESIS 300.00000E-03;

LEVEL 0.0000000E+00....

## :ANALysis:SBUS<x>:ANALyze?

Function Queries all settings related to the serial bus signal

analysis.

Syntax :ANALysis:SBUS<x>:ANALyze?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE? -> :ANALYSIS:

SBUS1: ANALYZE: CANBUS: BRATE

500000; RECESSIVE HIGH; SIGNAL: MODE 1;:

ANALYSIS: SBUS1: ANALYZE: CANBUS: SPOINT 62.5E+00; TRACE 1; : ANALYSIS:

SBUS1:ANALYZE:DECODE 1;FLEXRAY:

BRATE 5000000; SPOINT 5.00E+00; TRACE 1;:

ANALYSIS:SBUS1:ANALYZE:I2CBUS:CLOCK 1;

DTRACE 2;:ANALYSIS:SBUS1:ANALYZE: LINBUS: BRATE 19200; REVISION LIN1 3;

SPOINT 18.8E+00; TRACE 1; : ANALYSIS:

MODE DETAIL; SCROLL VERTICAL; : ANALYSIS:

SBUS1:ANALYZE:MODE CANBUS; RPOINT TRIGGER; SPIBUS: CLOCK: P

SBUS1:ANALYZE:LIST:DISPLAY 1;

OLARITY RISE; SOURCE 1; : ANALYSIS: SBUS1:

ANALYZE:SPIBUS:CS:ACTIVE LOW;TRACE 4;: ANALYSIS:SBUS1:ANALYZE:SPIBUS:DATA1: ACTIVE HIGH: TRACE 2:: ANALYSIS: SBUS1: ANALYZE:SPIBUS:DATA2:ACTIVE HIGH;

TRACE 3....

### :ANALysis:SBUS<x>[:ANALyze]:CANBus?

Function Queries all settings related to the CAN bus signal analysis.

:ANALysis:SBUS<x>[:ANALyze]:CANBus? Syntax

< x > = 1 or 2

Example : ANALYSIS: SBUS1: ANALYZE: CANBUS?

-> :ANALYSIS:SBUS1:ANALYZE:CANBUS: BRATE 500000; RECESSIVE HIGH; SIGNAL: MODE 1;:ANALYSIS:SBUS1:ANALYZE:CANBUS:

SPOINT 62.5E+00; TRACE 1

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## :ANALysis:SBUS<x>[:ANALyze]:CANBus: BRATe

Function Sets the bit rate (data transfer rate) of the CAN bus

signal analysis or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:CANBus:

BRATe {<NRf>|USER,<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:CANBus:

BRATe? <x> = 1 or 2

<NRf> = 33300, 83300, 125000, 250000, 500000,

1000000

<NRf> of USER = See the User's Manual (IM701361-

01E).

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:

BRATE 83300

:ANALYSIS:SBUS1:ANALYZE:CANBUS:

BRATE?

-> :ANALYSIS:SBUS1:ANALYZE:CANBUS:

BRATE 83300

## :ANALysis:SBUS<x>[:ANALyze]:CANBus: FJUMp:ACK

Function Executes a field jump to the ACK Field in the results

of the CAN bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:CANBus:

FJUMp:ACK < x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:FJUMP:

ACK

## :ANALysis:SBUS<x>[:ANALyze]:CANBus: FJUMp:CONTrol

Function Executes a field jump to the Control Field in the

results of the CAN bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:CANBus:

FJUMp: CONTrol

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:FJUMP:

CONTROL

## :ANALysis:SBUS<x>[:ANALyze]:CANBus:

FJUMp: CRC

Function Executes a field jump to the CRC Field in the results

of the CAN bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:CANBus:

FJUMp:CRC

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:FJUMP:

CRC

## :ANALysis:SBUS<x>[:ANALyze]:CANBus: FJUMp:DATA

Function Executes a field jump to the Data Field in the results

of the CAN bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:CANBus:

FJUMp:DATA <x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:FJUMP:

DATA

## :ANALysis:SBUS<x>[:ANALyze]:CANBus: FJUMp:IDENtifier

Function Executes a field jump to the Identifier Field in the

results of the CAN bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:CANBus:

 ${\tt FJUMp:IDENtifier}$ 

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:FJUMP:

IDENTIFIER

## :ANALysis:SBUS<x>[:ANALyze]:CANBus: FJUMp:SOF

Function Executes a field jump to the SOF Field in the results of the CAN bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:CANBus:

FJUMp:SOF < x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:FJUMP:

COE

## :ANALysis:SBUS<x>[:ANALyze]:CANBus: RECessive

Function Sets the recessive level (bus level) of the CAN bus

signal analysis or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:CANBus:

RECessive {HIGH|LOW}

:ANALysis:SBUS<x>[:ANALyze]:CANBus:

RECessive?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:

RECESSIVE HIGH

:ANALYSIS:SBUS1:ANALYZE:CANBUS:

RECESSIVE?

-> :ANALYSIS:SBUS1:ANALYZE:CANBUS:

RECESSIVE HIGH

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## :ANALysis:SBUS<x>[:ANALyze]:CANBus: SIGNal?

Function Queries all settings related to the CAN bus signal

analysis signal.

Syntax :ANALysis:SBUS<x>[:ANALyze]:CANBus:

SIGNal? < x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:SIGNAL?

-> :ANALYSIS:SBUS1:ANALYZE:CANBUS:

SIGNAL: MODE 1

## :ANALysis:SBUS<x>[:ANALyze]:CANBus:

#### SIGNal:LIST:ITEM

Function Turns ON/OFF items to be displayed in the CAN bus

signal analysis signal list.

Syntax :ANALysis:SBUS<x>[:ANALyze]:CANBus:

SIGNal:LIST:ITEM {<String>,<String>,

<Boolean>} <x> = 1 or 2

<String> = Up to 32 characters

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:SIGNAL:

LIST:ITEM "ENGINE", "TEST", ON

Description The first string sets the signal, and the next string

sets the message.

## :ANALysis:SBUS<x>[:ANALyze]:CANBus:

## SIGNal:MODE

Function Turns ON/OFF the CAN bus signal analysis signal or

queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:CANBus:

SIGNal:MODE {<Boolean>}

:ANALysis:SBUS<x>[:ANALyze]:CANBus:

SIGNal:MODE? <x> = 1 or 2

Example : ANALYSIS: SBUS1: ANALYZE: CANBUS: SIGNAL:

MODE ON

:ANALYSIS:SBUS1:ANALYZE:CANBUS:SIGNAL:

MODE? -> :ANALYSIS:SBUS1:ANALYZE:

CANBUS:SIGNAL:MODE 1

## :ANALysis:SBUS<x>[:ANALyze]:CANBus:

#### SIGNal: TRENd: ITEM

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Function Turns ON/OFF items of the CAN bus signal analysis

signal to be trend-displayed.

Syntax :ANALysis:SBUS<x>[:ANALyze]:CANBus:

SIGNal:TRENd:ITEM {<String>,<String>}

< x > = 1 or 2

<String> = Up to 32 characters

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:SIGNAL:

TRENd: ITEM "ENGINE", "TEST"

Description The first string sets the signal, and the next string

sets the message.

## :ANALysis:SBUS<x>[:ANALyze]:CANBus: SPOint

Function Sets the sample point of the CAN bus signal analysis

or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:CANBus:

SPOint {<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:CANBus:

SPOint?  $\langle x \rangle = 1 \text{ or } 2$ 

<NRf> = 18.8 to 90.6(%)

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:

SPOINT 18.8

:ANALYSIS:SBUS1:ANALYZE:CANBUS:

SPOINT?

-> :ANALYSIS:SBUS1:ANALYZE:CANBUS:

SPOINT 18.8E+00

# :ANALysis:SBUS<x>[:ANALyze]:CANBus:

Function Sets the trace of the CAN bus signal analysis or

queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:CANBus:

TRACe {<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:CANBus:

TRACe? <x> = 1 or 2 <NRf> = 1 to 8

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:TRACE 1

:ANALYSIS:SBUS1:ANALYZE:CANBUS:

TRACE?

-> :ANALYSIS:SBUS1:ANALYZE:CANBUS:

TRACE 1

## :ANALysis:SBUS<x>[:ANALyze]:DECode

Function Turns the serial bus signal analysis decoding display ON/OFF or queries the current status.

Syntax ANALysis:SBUS<x>[:ANALyze]:

DECode {<Boolean>}

:ANALysis:SBUS<x>[:ANALyze]:DECode?

<x>=1 or 2

Example ANALYSIS:SBUS1:ANALYZE:DECODE ON

:ANALYSIS:SBUS1:ANALYZE:DECODE?

-> :ANALYSIS:SBUS1:ANALYZE:DECODE 1

## :ANALysis:SBUS<x>[:ANALyze]:FLEXray?

Function Queries all settings related to the FLEXRAY bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:FLEXray?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:FLEXRAY? ->

:ANALYSIS:SBUS1:ANALYZE:FLEXRAY:B
RATE 5000000;SPOINT 5.00E+00;TRACE 1

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## :ANALysis:SBUS<x>[:ANALyze]:FLEXray: BRATe

Function Sets the FLEXRAY bus signal analysis bit rate (data

transfer rate) or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:FLEXray:

BRATe {<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:FLEXray:

srare?
<x> = 1 or 2

<NRf> = 2500000, 5000000, or 10000000

Example :ANALYSIS:SBUS1:ANALYZE:FLEXRAY:

BRATE 5000000

:ANALYSIS:SBUS1:ANALYZE:FLEXRAY:BRATE?
-> :ANALYSIS:SBUS1:ANALYZE:FLEXRAY:

BRATE 5000000

## :ANALysis:SBUS<x>[:ANALyze]:FLEXray: FJUMp:CCOunt

Function Performs a field jump to the Cycle Count Field in the

results of the FLEXRAY bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:FLEXray:FJUMp:

**CCOunt** 

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:FLEXRAY:

FJUMP:CCOUNT

## :ANALysis:SBUS<x>[:ANALyze]:FLEXray: FJUMp:CRC

Function Performs a field jump to the CRC Field in the results

of the FLEXRAY bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:FLEXray:

FJUMp:CRC < x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:FLEXRAY:FJUMP:

CRC

## :ANALysis:SBUS<x>[:ANALyze]:FLEXray: FJUMp:DATA

Function Performs a field jump to the Data Field in the results

of the FLEXRAY bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:FLEXray:

FJUMp: DATA  $\langle x \rangle = 1 \text{ or } 2$ 

Example :ANALYSIS:SBUS1:ANALYZE:FLEXRAY:FJUMP:

DATA

## :ANALysis:SBUS<x>[:ANALyze]:FLEXray: FJUMp:HCRC

Function Performs a field jump to the Header CRC Field in the

results of the FLEXRAY bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:FLEXray:

FJUMp:HCRC < x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:FLEXRAY:FJUMP:

HCRC

## :ANALysis:SBUS<x>[:ANALyze]:FLEXray: FJUMp:IDENtifier

Function Performs a field jump to the Identifier Field in the

results of the FLEXRAY bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:FLEXray:

FJUMp: IDENtifier

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:FLEXRAY:FJUMP:

IDENTIFIER

## :ANALysis:SBUS<x>[:ANALyze]:FLEXray: FJUMp:PLENgth

Function Performs a field jump to the Payload Length Field in

the results of the FLEXRAY bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:FLEXray:

FJUMp: PLENgth <x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:FLEXRAY:FJUMP:

PLENGTH

## :ANALysis:SBUS<x>[:ANALyze]:FLEXray: SPOint

Function Sets the FLEXRAY bus signal analysis sample point

or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:FLEXray:

SPOint {<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:FLEXray:

SPOint?
<x> = 1 or 2
<NRf> = 1 to 8

Example :ANALYSIS:SBUS1:ANALYZE:FLEXRAY:

SPOINT 5

:ANALYSIS:SBUS1:ANALYZE:FLEXRAY:SPOINT?

-> :ANALYSIS:SBUS1:ANALYZE:FLEXRAY:

SPOINT 5.00E+00

## :ANALysis:SBUS<x>[:ANALyze]:FLEXray: TRACe

Function Sets the FLEXRAY bus signal analysis trace or

queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:FLEXray:

TRACe {<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:FLEXray:

TRACe? <x> = 1 or 2 <NRf> = 1 to 8

Example :ANALYSIS:SBUS1:ANALYZE:FLEXRAY:TRACE 1

:ANALYSIS:SBUS1:ANALYZE:FLEXRAY:TRACE?
-> :ANALYSIS:SBUS1:ANALYZE:FLEXRAY:

TRACE 1

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## :ANALysis:SBUS<x>[:ANALyze]:I2CBus?

Function Queries all settings related to the I<sup>2</sup>C bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:I2CBus?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:I2CBUS?

-> :ANALYSIS:SBUS1:ANALYZE:I2CBUS:

CLOCK 1; DTRACE 1

## :ANALysis:SBUS<x>[:ANALyze]:I2CBus: CLOCk

or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:I2CBus:

CLOCk {<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:I2CBus:

CLOCk? <x> = 1 or 2 <NRf> = 1 to 8

Example :ANALYSIS:SBUS1:ANALYZE:I2CBUS:CLOCK 1

:ANALYSIS:SBUS1:ANALYZE:I2CBUS:CLOCK?
-> :ANALYSIS:SBUS1:ANALYZE:I2CBUS:

CLOCK 1

# :ANALysis:SBUS<x>[:ANALyze]:I2CBus: DTRace

Function Sets the data channel of the I<sup>2</sup>C bus signal analysis

or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:I2CBus:

DTRace {<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:I2CBus:

DTRace? <x> = 1 or 2 <NRf> = 1 to 8

Example :ANALYSIS:SBUS1:ANALYZE:I2CBUS:DTRACE 1

:ANALYSIS:SBUS1:ANALYZE:I2CBUS:

DTRACE?

-> :ANALYSIS:SBUS1:ANALYZE:I2CBUS:

DTRACE 1

## :ANALysis:SBUS<x>[:ANALyze]:LINBus?

Function Queries all settings related to the LIN bus signal

analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:LINBus?

<x>=1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS?

-> :ANALYSIS:SBUS1:ANALYZE:LINBUS: BRATE 19200;REVISION LIN1 3;

SPOINT 18.8E+00; TRACE 1

## :ANALysis:SBUS<x>[:ANALyze]:LINBus:

#### BRATe

Function Sets the LIN bus signal analysis bitrate (data transfer

rate) or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:LINBus:

BRATe {<NRf>|USER,<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:LINBus:

BRATe? <x>=1 or 2

<NRf>=1200, 2400, 4800, 9600, 19200 USER <NRf>=See this User's Manual.

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS:

BRATE 19200

:ANALYSIS:SBUS1:ANALYZE:LINBUS:BRATE?
-> :ANALYSIS:SBUS1:ANALYZE:LINBUS:

BRATE 19200

## :ANALysis:SBUS<x>[:ANALyze]:LINBus:

## FJUMp:BREak

Function Executes a field jump to the Break Field in the results

of the LIN bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:LINBus:

FJUMp:BREak <x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS:FJUMP:

BREAK

## :ANALysis:SBUS<x>[:ANALyze]:LINBus:

## FJUMp: CSUM

Function Executes a field jump to the Checksum Field in the

results of the LIN bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:LINBus:

FJUMp:CSUM <x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS:FJUMP:

CSUM

## :ANALysis:SBUS<x>[:ANALyze]:LINBus:

## FJUMp: DATA

Function Executes a field jump to the Data Field in the results

of the LIN bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:LINBus:

FJUMp:DATA

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS:FJUMP:

DATA

## :ANALysis:SBUS<x>[:ANALyze]:LINBus:

#### FJUMp: IDENtifier

Function Executes a field jump to the Identifier Field in the

results of the LIN bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:LINBus:

FJUMp: IDENtifier

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS:FJUMP:

IDENTIFIER

## :ANALysis:SBUS<x>[:ANALyze]:LINBus: FJUMp:SYNCh

Function Executes a field jump to the Synch Field in the results

of the LIN bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:LINBus:

FJUMp:SYNCh < x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS:FJUMP:

SYNCH

## :ANALysis:SBUS<x>[:ANALyze]:LINBus: REVision

Function Sets the LIN bus signal analysis revision (1.3 or 2.0)

or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:LINBus:

REVision {LIN1 3 | LIN2 0 }

:ANALysis:SBUS<x>[:ANALyze]:LINBus:

REVision? <x>=1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS:

REVISION LIN1\_3

:ANALYSIS:SBUS1:ANALYZE:LINBUS:

REVISION? -> :ANALYSIS:SBUS1:ANALYZE:

LINBUS: REVISION LIN1\_3

## :ANALysis:SBUS<x>[:ANALyze]:LINBus: SPOint

Function Sets the LIN bus signal analysis sample point or

queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:LINBus:

SPOint {<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:LINBus:

SPOint? <x> = 1 or 2

<NRf> = 18.8 to 90.6(%)

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS:

SPOINT 18.8

:ANALYSIS:SBUS1:ANALYZE:LINBUS:SPOINT?

-> :ANALYSIS:SBUS1:ANALYZE:LINBUS:

SPOINT 18.8E+00

## :ANALysis:SBUS<x>[:ANALyze]:LINBus:

## TRACe

Function Sets the LIN bus signal analysis trace or queries the

current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:LINBus:

TRACe {<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:LINBus:

TRACe? <x>=1 or 2 <NRf>=1-8

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS:TRACE 1

:ANALYSIS:SBUS1:ANALYZE:LINBUS:TRACE?
-> :ANALYSIS:SBUS1:ANALYZE:LINBUS:

TRACE 1

## :ANALysis:SBUS<x>[:ANALyze]:LIST?

Function Queries all settings related to the list display of the

serial bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:LIST?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LIST?

-> :ANALYSIS:SBUS1:ANALYZE:LIST:

DISPLAY 1; MODE DETAIL; SCROLL HORIZONTAL

## :ANALysis:SBUS<x>[:ANALyze]:LIST: DISPlay

Function Turns the serial bus signal analysis list display ON/

OFF or queries the current status.

Syntax :ANALysis:SBUS<x>[:ANALyze]:LIST:

DISPlay {<Boolean>}

:ANALysis:SBUS<x>[:ANALyze]:LIST:

DISPlay? <x>=1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LIST:DISPLAY ON

:ANALYSIS:SBUS1:ANALYZE:LIST:DISPLAY?

-> :ANALYSIS:SBUS1:ANALYZE:LIST:

DISPLAY 1

## :ANALysis:SBUS<x>[:ANALyze]:LIST:

## ITEM?

Function Queries the item in the list display of the serial bus

signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:LIST:ITEM?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LIST:ITEM?

-> :ANALYSIS:SBUS1:ANALYZE:LIST:

ITEM " No.,S/P,Hex,Form,R/W,ACK,"

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## :ANALysis:SBUS<x>[:ANALyze]:LIST:

#### MODE

Function Sets the mode of the list display of the serial bus

signal analysis or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:LIST:

MODE {DETail|SIMPle}

:ANALysis:SBUS<x>[:ANALyze]:LIST:MODE?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LIST:

MODE DETAIL

:ANALYSIS:SBUS1:ANALYZE:LIST:MODE?
-> :ANALYSIS:SBUS1:ANALYZE:LIST:

MODE DETAIL

## :ANALysis:SBUS<x>[:ANALyze]:LIST: SCRoll

Function Sets the scroll method of the list display of the serial bus signal analysis or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:

LIST:SCRoll {HORizontal|VERTical}

:ANALysis:SBUS<x>[:ANALyze]:

LIST:SCRoll?

Example :ANALYSIS:SBUS1:ANALYZE:LIST:

SCROLL HORIZONTAL

:ANALYSIS:SBUS1:ANALYZE:LIST:SCROLL?

SCROLL HORIZONTAL

### ANALysis:SBUS<x>[:ANALyze]:LIST:VALue?

Function Queries the automated measured value of the specified analysis number in the analysis result list of

the serial bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:LIST:VALue?

 $\{\, <\! \texttt{NRf} \! > \! \mid \! \texttt{MAXimum} \! \mid \! \texttt{MINimum} \}$ 

< x > = 1 or 2

<NRf> = -40000 to 40000

 $(<NRf> = -2999 \text{ to } 2999 \text{ for :}ANALysis:SBUS}< x>$ 

[:ANALyze]:MODE CANBus)

Example :ANALYSIS:SBUS1:ANALYZE:LIST:

VALUE? 1

-> :ANALYSIS:SBUS1:ANALYZE:LIST:

VALUE "1, P, 00, A, , 0,"

Description Set the data to MAXimum or MINimum to specify the maximum list display number or the minimum list

display number.

## :ANALysis:SBUS<x>[:ANALyze]:MODE

Function Sets the serial bus signal analysis mode or queries

the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:

MODE {CANBus|FLEXray|I2CBus|LIN|SPIBus|

UART }

:ANALysis:SBUS<x>[:ANALyze]:MODE?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:MODE I2CBUS

:ANALYSIS:SBUS1:ANALYZE:MODE?

-> :ANALYSIS:SBUS1:ANALYZE:MODE I2CBUS

#### :ANALysis:SBUS<x>[:ANALyze]:RPOint

Function Sets the analysis reference point of the serial bus signal analysis or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:

RPOint {MANual, <NRf > | TRIGger}

:ANALysis:SBUS<x>[:ANALyze]:RPOint?

< x > = 1 or 2

<NRf> = -5 to 5 (div)

Example :ANALYSIS:SBUS1:ANALYZE:RPOINT MANAUL,1

:ANALYSIS:SBUS1:ANALYZE:RPOINT?
-> :ANALYSIS:SBUS1:ANALYZE:
RPOINT MANUAL,1.00000E+00

## :ANALysis:SBUS<x>[:ANALyze]:SPIBus?

Function Queries all settings related to the SPI bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:SPIBus?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS?

-> :ANALYSIS:SBUS1:ANALYZE:SPIBUS: CLOCK:POLARITY FALL;SOURCE 1;:ANALYSIS: SBUS1:ANALYZE:SPIBUS:CS:ACTIVE HIGH;

TRACE 1;:ANALYSIS:SBUS1:ANALYZE:SPIBUS:

DATA1:ACTIVE HIGH;TRACE 1;:ANALYSIS: SBUS1:ANALYZE:SPIBUS:DATA2:ACTIVE HIGH; TRACE 1::ANALYSIS:SBUS1:ANALYZE:SPIBUS:

SETUP:BITORDER LSBFIRST; MODE WIRE3

## :ANALysis:SBUS<x>[:ANALyze]:SPIBus: CLOCk?

Function Queries all settings related to the clock channel of the SPI bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:SPIBus:

CLOCk?

< x > = 1 or

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:CLOCK?

-> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:

CLOCK: POLARITY FALL; SOURCE 1

## :ANALysis:SBUS<x>[:ANALyze]:SPIBus: CLOCk:POLarity

Function Sets the polarity of the clock channel of the SPI bus

signal analysis or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:SPIBus:

CLOCk:POLarity {FALL|RISE}

:ANALysis:SBUS<x>[:ANALyze]:SPIBus:

CLOCk: POLarity?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:

CLOCK: POLARITY FALL

:ANALYSIS:SBUS1:ANALYZE:SPIBUS:CLOCK:

POLARITY?

-> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:

CLOCK: POLARITY FALL

## :ANALysis:SBUS<x>[:ANALyze]:SPIBus: CLOCk:SOURce

Function Sets the clock channel of the SPI bus signal analysis or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:SPIBus:

CLOCk:SOURce {<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:SPIBus:

CLOCk: SOURce? <x> = 1 or 2 <NRf> = 1 to 8

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:CLOCK:

SOURCE 1

:ANALYSIS:SBUS1:ANALYZE:SPIBUS:CLOCK:

SOURCE?

-> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:

CLOCK: SOURCE 1

## :ANALysis:SBUS<x>[:ANALyze]:SPIBus: CS?

Function Queries all settings related to the chip select channel

of the SPI bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:SPIBus:CS?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:CS?

-> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:CS:

ACTIVE HIGH; TRACE 1

## :ANALysis:SBUS<x>[:ANALyze]:SPIBus: CS:ACTive

Function Sets the active level of the chip select channel of the

SPI bus signal analysis or queries the current setting.

Syntax: ANALysis:SBUS<x>[:ANALyze]:SPIBus:CS:

ACTive {HIGH|LOW}

:ANALysis:SBUS<x>[:ANALyze]:SPIBus:CS:

ACTive? <x> = 1 or 2

Example: :ANALYSIS:SBUS1:ANALYZE:SPIBUS:CS:

ACTIVE HIGH

:ANALYSIS:SBUS1:ANALYZE:

SPIBUS: CS: ACTIVE?

-> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:CS:

ACTIVE HIGH

## :ANALysis:SBUS<x>[:ANALyze]:SPIBus: CS:TRACe

Function Sets the chip select channel of the SPI bus signal

analysis or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:SPIBus:

CS:TRACe {<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:SPIBus:

CS:TRACe? <x> = 1 or 2 <NRf> = 1 to 8

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:CS:

TRACE 1

:ANALYSIS:SBUS1:ANALYZE:SPIBUS:

CS:TRACE?

-> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:CS:

TRACE 1

## :ANALysis:SBUS<x>[:ANALyze]:SPIBus: DATA<x>?

Function Queries all settings related to the data of the SPI bus

signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:SPIBus:

DATA < x > ?

<x> of SBUS<x> = 1 or 2 <x> of DATA<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:

DATA1?

-> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:

DATA1:ACTIVE HIGH;TRACE 1

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## :ANALysis:SBUS<x>[:ANALyze]:SPIBus: DATA<x>:ACTive

Function Sets the active level of the data of the SPI bus signal

analysis or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:SPIBus:

DATA<x>:ACTive {HIGH|LOW}

:ANALysis:SBUS<x>[:ANALyze]:SPIBus:

DATA<x>:ACTive? <x> of SBUS<x> = 1 or 2 <x> of DATA<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:DATA1:

ACTIVE HIGH

:ANALYSIS:SBUS1:ANALYZE:SPIBUS:DATA1:

ACTIVE?

-> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:

DATA1:ACTIVE HIGH

## :ANALysis:SBUS<x>[:ANALyze]:SPIBus: DATA<x>:TRACe

Function Sets the data channel of the SPI bus signal analysis

or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:SPIBus:

DATA<x>:TRACe {<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:SPIBus:

DATA<x>: TRACe? <x> of SBUS<x> = 1 or 2 <x> of DATA<x> = 1 or 2

< NRf > = 1 to 8

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:DATA1:

TRACE 1

:ANALYSIS:SBUS1:ANALYZE:SPIBUS:DATA1:

TRACE?

-> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:

DATA1:TRACE 1

## :ANALysis:SBUS<x>[:ANALyze]:SPIBus: SETup?

Function Queries all settings related to the SPI bus signal

analysis setup.

Syntax :ANALysis:SBUS<x>[:ANALyze]:SPIBus:

SETup? <x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:SETUP?

-> :ANALYSIS:SBUS1:ANALYZE:SPIBUS: SETUP:BITORDER LSBFIRST;MODE WIRE3

## :ANALysis:SBUS<x>[:ANALyze]:

#### SPIBus[:SETup]:BITorder

Function Sets the bit order of the SPI bus signal analysis or

queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:

SPIBus[:SETup]:

BITorder {LSBFirst|MSBFirst}
:ANALysis:SBUS<x>[:ANALyze]:
SPIBus[:SETup]:BITorder?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:SETUP:

BITORDER LSBFIRST

:ANALYSIS:SBUS1:ANALYZE:SPIBUS:SETUP:

BITORDER?

-> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:

SETUP:BITORDER LSBFIRST

## :ANALysis:SBUS<x>[:ANALyze]:

## SPIBus[:SETup]:MODE

Function Sets the wiring system of the SPI bus signal analysis

(three-wire or four-wire) or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:

SPIBus[:SETup]:MODE {WIRE3|WIRE4}

:ANALysis:SBUS<x>[:ANALyze]:

SPIBus[:SETup]:MODE?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:

SETUP:MODE WIRE3

:ANALYSIS:SBUS1:ANALYZE:SPIBUS:

SETUP: MODE?

-> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:

SETUP: MODE WIRE3

## :ANALysis:SBUS<x>[:ANALyze]:

#### TRACe<x>?

Function Queries all settings related to the threshold level of the source channel of the serial bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:TRACe<x>?

<x> of SBUS<x> = 1 or 2 <x> of TRACe<x> = 1 to 8

Example :ANALYSIS:SBUS1:ANALYZE:TRACE1?

-> :ANALYSIS:SBUS1:ANALYZE:TRACE1: HYSTERESIS 1.000E+00;LEVEL 1.000E+00

## :ANALysis:SBUS<x>[:ANALyze]:

#### TRACe<x>: HYSTeresis

Function Sets the hysteresis of the threshold level of the source channel of the serial bus signal analysis or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:TRACe<x>:

HYSTeresis {<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:TRACe<x>:

HYSTeresis?

<x> of SBUS<x> = 1 or 2 <x> of TRACe<x> = 1 to 8 <NRf> = 0 to 4 (div)

Example :ANALYSIS:SBUS1:ANALYZE:TRACE1:

HYSTERESIS 1

:ANALYSIS:SBUS1:ANALYZE:TRACE1:

HYSTERESIS?

-> :ANALYSIS:SBUS1:ANALYZE:TRACE1:

HYSTERESIS 1.000E+00

#### :ANALysis:SBUS<x>[:ANALyze]:

#### TRACe<x>:LEVel

Function Sets the level of the threshold level of the source

channel of the serial bus signal analysis or queries

the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:TRACe<x>:

LEVel {<NRf>|<Voltage>|<current>}

:ANALysis:SBUS<x>[:ANALyze]:TRACe<x>:

LEVel?

<x> of SBUS<x> = 1 or 2

<x> of TRACe<x> = 1 to 8

<NRf>, <Voltage>, and <Current> = See the User's

Manual (IM701361-01E).

Example :ANALYSIS:SBUS1:ANALYZE:TRACE1:

LEVEL 1V

:ANALYSIS:SBUS1:ANALYZE:TRACE1:LEVEL?

-> :ANALYSIS:SBUS1:ANALYZE:TRACE1:

LEVEL 1.000E+00

## :ANALysis:SBUS<x>[:ANALyze]:TRENd?

Function Queries all settings related to the CAN bus signal analysis trend display.

Syntax :ANALysis:SBUS<x>[:ANALyze]:TRENd?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:TREND? ->

:ANALYSIS:SBUS1:ANALYZE:TREND:CURSOR: C1:POSITION 1.0000000E+00;:ANALYSIS:

SBUS1:ANALYZE:TREND:CURSOR:C2:

POSITION 5.0000000E+00;:ANALYSIS:SBUS1:

ANALYZE:TREND:CURSOR:DISPLAY 1;:
ANALYSIS:SBUS1:ANALYZE:TREND:

DISPLAY 1; SCALE: CENTER 1.0000000E+00; MODE AUTO; SENSITIVITY 1.0000000E+00

## :ANALysis:SBUS<x>[:ANALyze]:TRENd: CURSor?

Function Queries all settings related to cursor measurement in the CAN bus signal analysis trend display.

Syntax :ANALysis:SBUS<x>[:ANALyze]:TRENd:

CURSor?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:TREND:CURSOR?

-> :ANALYSIS:SBUS1:ANALYZE:TREND:
CURSOR:C1:POSITION 1.0000000E+00;:
ANALYSIS:SBUS1:ANALYZE:TREND:CURSOR:C2:
POSITION 5.0000000E+00;:ANALYSIS:SBUS1:

ANALYZE: TREND: CURSOR: DISPLAY 1

## :ANALysis:SBUS<x>[:ANALyze]:TRENd:

#### CURSor: C<x>?

Function Queries all settings related to each cursor

measurement of the CAN bus signal analysis trend.

Syntax :ANALysis:SBUS<x>[:ANALyze]:TRENd:

CURSor: C<x>?

<x> of SBUS<x> = 1 or 2

< x > of C < x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:TREND:CURSOR:

C1? -> :ANALYSIS:SBUS1:ANALYZE:TREND:

CURSOR:C1:POSITION 1.0000000E+00

## :ANALysis:SBUS<x>[:ANALyze]:TRENd:

## CURSor:C<x>:POSition

Function Sets each cursor position on the CAN bus signal

analysis trend or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:TRENd:

CURSor:C<x>:POSition {<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:TRENd:

CURSor:C<x>:POSition?

<x> of SBUS<x> = 1 or 2

<x> of C<x> = 1 or 2 <NRf> = -5 to 5(div)

Example :ANALYSIS:SBUS1:ANALYZE:TREND:CURSOR:

C1:POSITION 1

:ANALYSIS:SBUS1:ANALYZE:TREND:CURSOR:

C1:POSITION? -> :ANALYSIS:SBUS1:

ANALYZE:TREND:CURSOR:C1: POSITION 1.0000000E+00

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## :ANALysis:SBUS<x>[:ANALyze]:TRENd:

#### CURSor: C<x>: VALue?

Function Queries the measured value of each cursor on the

CAN bus signal analysis trend.

Syntax :ANALysis:SBUS<x>[:ANALyze]:TRENd:

> CURSor:C<x>:VALue? <x> of SBUS<x> = 1 or 2 < x > of C < x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:TREND:CURSOR:

C1:VALUE? -> :ANALYSIS:SBUS1:ANALYZE:

TREND:CURSOR:C1:VALUE 1.000E+00

## :ANALysis:SBUS<x>[:ANALyze]:TRENd:

#### CURSor: DC: VALue?

Function Queries the measured value between cursors on the

CAN bus signal analysis trend.

Syntax :ANALysis:SBUS<x>[:ANALyze]:TRENd:

CURSor: DC: VALue?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:TREND:CURSOR:

DC:VALUE? -> :ANALYSIS:SBUS1:ANALYZE:

TREND: CURSOR: DC: VALUE 1.000E+00

## :ANALysis:SBUS<x>[:ANALyze]:TRENd:

## CURSor:DISPlay

Function Turns ON/OFF each cursor on the CAN bus signal

analysis trend or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:TRENd:

CURSor: DISPlay { < Boolean > }

:ANALysis:SBUS<x>[:ANALyze]:TRENd:

CURSor:DISPlay?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:TREND:CURSOR:

DISPLAY ON

:ANALYSIS:SBUS1:ANALYZE:TREND:CURSOR: DISPLAY? -> :ANALYSIS:SBUS1:ANALYZE:

TREND: CURSOR: DISPLAY 1

## :ANALysis:SBUS<x>[:ANALyze]:TRENd:

## CURSor: DT: VALue?

Function Queries the  $\Delta T$  value of the cursor on the CAN bus

signal analysis trend.

:ANALysis:SBUS<x>[:ANALyze]:TRENd: Syntax

CURSor: DT: VALue?

< x > = 1 or 2

Example : ANALYSIS: SBUS1: ANALYZE: TREND: CURSOR:

DT:VALUE? -> :ANALYSIS:SBUS1:ANALYZE: TREND:CURSOR:DT:VALUE 1.000E+00

Description SBUS1 is linked to the Main vertical cursor.

## :ANALysis:SBUS<x>[:ANALyze]:TRENd:

#### CURSor: PERDt: VALue?

Queries the  $1/\Delta T$  value of the cursor on the CAN bus Function

signal analysis trend.

Syntax :ANALysis:SBUS<x>[:ANALyze]:TRENd:

CURSor: PERDt: VALue?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:TREND:CURSOR:

PERDT: VALUE? -> :ANALYSIS: SBUS1:

ANALYZE: TREND: CURSOR: PERDT:

VALUE 1.000E+00

Description SBUS1 is linked to the Main vertical cursor.

## :ANALysis:SBUS<x>[:ANALyze]:TRENd:

#### CURSor:T<x>:VALue?

Function Queries the time value of the cursor on the CAN bus

signal analysis trend.

:ANALysis:SBUS<x>[:ANALyze]:TRENd: Syntax

> CURSor: T<x>: VALue? <x> of SBUS<x> = 1 or 2

< x > of T < x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:TREND:CURSOR:

T1:VALUE? -> :ANALYSIS:SBUS1:ANALYZE:

TREND:CURSOR:T1:VALUE 1.000E+00

Description SBUS1 is linked to the Main vertical cursor.

## :ANALysis:SBUS<x>[:ANALyze]:TRENd: DISPlay

Function Turns ON/OFF the CAN bus signal analysis trend

display or queries the current setting.

:ANALysis:SBUS<x>[:ANALyze]:TRENd: Syntax

DISPlay {<Boolean>}

:ANALysis:SBUS<x>[:ANALyze]:TRENd:

DISPlay? < x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:TREND:

DISPLAY ON

:ANALYSIS:SBUS1:ANALYZE:TREND:DISPLAY?

-> :ANALYSIS:SBUS1:ANALYZE:TREND:

DISPLAY 1

## :ANALysis:SBUS<x>[:ANALyze]:TRENd: SCALe?

## Function

Syntax

Queries all settings related to the scaling of the CAN

bus signal analysis trend display.

SCALe? < x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:TREND:

SCALE? -> :ANALYSIS:SBUS1:ANALYZE: TREND:SCALE:CENTER 1.0000000E+00; MODE AUTO; SENSITIVITY 1.000000E+00

:ANALysis:SBUS<x>[:ANALyze]:TRENd:

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## :ANALysis:SBUS<x>[:ANALyze]:TRENd:

#### SCALe: CENTer

Function Sets the offset of the CAN bus signal analysis trend

display or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:TRENd:

SCALe:CENTer {<NRf>|<Voltage>|

<Current>}

:ANALysis:SBUS<x>[:ANALyze]:TRENd:

SCALe:CENTer? <x> = 1 or 2

<NRf>, <Voltage>, and <Current> = See the SB5000

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Example :ANALYSIS:SBUS1:ANALYZE:TREND:SCALE:

CENTER 1

:ANALYSIS:SBUS1:ANALYZE:TREND:SCALE: CENTER? -> :ANALYSIS:SBUS1:ANALYZE:

TREND:SCALE:CENTER 1.000E+00

## :ANALysis:SBUS<x>[:ANALyze]:TRENd:

## SCALe: MODE

Function Sets the scaling method of the CAN bus signal analysis trend display or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:TRENd:

SCALe: MODE {AUTO | MANual }

:ANALysis:SBUS<x>[:ANALyze]:TRENd:

SCALe:MODE?

Example :ANALYSIS:SBUS1:ANALYZE:TREND:SCALE:

MODE AUTO

:ANALYSIS:SBUS1:ANALYZE:TREND:SCALE:

MODE? -> :ANALYSIS:SBUS1:ANALYZE:TREND:

SCALE: MODE AUTO

#### :ANALysis:SBUS<x>[:ANALyze]:TRENd:

## SCALe: SENSitivity

Function Sets the vertical axis sensitivity of the CAN bus signal analysis trend display or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:TRENd:

SCALe:SENSitivity {<NRf>|<Voltage>|
<Current>}

:ANALysis:SBUS<x>[:ANALyze]:TRENd:

SCALe: SENSitivity?

< x > = 1 or 2

<NRf>, <Voltage>, and <Current> = See the SB5000

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Example :ANALYSIS:SBUS1:ANALYZE:TREND:SCALE:

SENSITIVITY 1

 $: \verb"ANALYSIS: SBUS1: \verb"ANALYZE: TREND: SCALE:"$ 

SENSITIVITY? -> :ANALYSIS:SBUS1:

ANALYZE:TREND:SCALE: SENSITIVITY 1.000E+00

## :ANALysis:SBUS<x>[:ANALyze]:UART?

Function Queries all settings related to the UART bus signal analysis.

Syntax :ANALysis:SBUS<x>[:ANALyze]:UART?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:UART?

-> :ANALYSIS:SBUS1:ANALYZE:UART: BITORDER LSBFIRST;BRATE 19200;F ORMAT BIT7PARITY;PMODE EVEN;P OLARITY NEGATIVE;SPOINT 18.8E+00;

TRACE 1

## :ANALysis:SBUS<x>[:ANALyze]:UART: BITorder

Function Sets the UART bus signal analysis bit order or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:UART:

BITorder {LSBFirst|MSBFirst}
:ANALysis:SBUS<x>[:ANALyze]:UART:

BITorder? <x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:UART:

BITORDER LSBFIRST

:ANALYSIS:SBUS1:ANALYZE:UART:BITORDER?

-> :ANALYSIS:SBUS1:ANALYZE:UART:

BITORDER LSBFIRST

## :ANALysis:SBUS<x>[:ANALyze]:UART:BRATe

Function Sets the UART bus signal analysis bit rate (data transfer rate) or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:UART:

BRATe {<NRf>|USER,<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:UART:BRATe?

< x > = 1 or 2

<NRf> = 1200, 2400, 4800, 9600, 19200, 38400,

57600, or 115200

<NRf> of USER = See the SB5000 Use's Manual

Example :ANALYSIS:SBUS1:ANALYZE:UART:

BRATE 19200

:ANALYSIS:SBUS1:ANALYZE:UART:BRATE?

-> :ANALYSIS:SBUS1:ANALYZE:UART:

BRATE 19200

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## :ANALysis:SBUS<x>[:ANALyze]:UART:

#### FORMat

Function Sets the UART bus signal analysis data format or

queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:UART:

FORMat {BIT7parity|BIT8Noparity|

BIT8Parity}

:ANALysis:SBUS<x>[:ANALyze]:UART:

FORMat? <x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:UART:

FORMAT BIT7PARITY

:ANALYSIS:SBUS1:ANALYZE:UART:FORMAT?
-> :ANALYSIS:SBUS1:ANALYZE:UART:

FORMAT BIT7PARITY

## :ANALysis:SBUS<x>[:ANALyze]:UART:PMODe

Function Sets the UART bus signal analysis parity mode or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:UART:

PMODe {EVEN | ODD}

:ANALysis:SBUS<x>[:ANALyze]:UART:PMODe?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:UART:PMODE EVEN

:ANALYSIS:SBUS1:ANALYZE:UART:PMODE? ->
:ANALYSIS:SBUS1:ANALYZE:UART:PMODE EVEN

# :ANALysis:SBUS<x>[:ANALyze]:UART: POLarity

Function Sets the UART bus signal analysis polarity or queries

the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:UART:

POLarity {NEGative | POSitive}

:ANALysis:SBUS<x>[:ANALyze]:UART:

POLarity? < x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:UART:

POLARITY NEGATIVE

:ANALYSIS:SBUS1:ANALYZE:UART:POLARITY?

-> :ANALYSIS:SBUS1:ANALYZE:UART:

POLARITY NEGATIVE

## :ANALysis:SBUS<x>[:ANALyze]:UART:

## SPOint

Function Sets the UART bus signal analysis sample point or

queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:UART:

SPOint {<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:UART:

SPOint?
<x> = 1 or 2

<NRf> = 18.8 to 90.6(%)

Example :ANALYSIS:SBUS1:ANALYZE:UART:

SPOINT 18.8

:ANALYSIS:SBUS1:ANALYZE:UART:SPOINT?

-> :ANALYSIS:SBUS1:ANALYZE:UART:

SPOINT 18.8E+00

## :ANALysis:SBUS<x>[:ANALyze]:UART:TRACe

Function Sets the UART bus signal analysis trace or queries

the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:UART:

TRACe {<NRf>}

:ANALysis:SBUS<x>[:ANALyze]:UART:TRACe?

<x> = 1 or 2<NRf> = 1 to 8

Example :ANALYSIS:SBUS1:ANALYZE:UART:TRACE 1

:ANALYSIS:SBUS1:ANALYZE:UART:TRACE? ->
:ANALYSIS:SBUS1:ANALYZE:UART:TRACE 1

## :ANALysis:SBUS<x>[:ANALyze]:WTYPe

Function Sets the serial bus signal analysis window type or

queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:

WTYPe {LIST|TRENd}

:ANALysis:SBUS<x>[:ANALyze]:WTYPe?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:WTYPE LIST

:ANALYSIS:SBUS1:ANALYZE:WTYPE? ->
:ANALYSIS:SBUS1:ANALYZE:WTYPE LIST

#### :ANALysis:SBUS<x>:ZLINkage

Function Sets the zoom link of the serial bus signal analysis or queries the current setting.

Syntax :ANALysis:SBUS<x>:ZLINkage {OFF | Z1 | Z2}

:ANALysis:SBUS<x>:ZLINkage?

< x > = 1 or 2

Example :ANALYSIS:SBUS1:ZLINKAGE OFF

:ANALYSIS:SBUS1:ZLINKAGE?

-> :ANALYSIS:SBUS1:ZLINKAGE OFF

#### :ANALysis:TYPE<x>

Function Sets the analysis function type or queries the current

Syntax :ANALysis:TYPE<x> {AHIStogram|FFT|

LSBUS | SBUS | WPARameter | XY }

:ANALysis:TYPE<x>? <x> = 1 or 2

Example :ANALYSIS:TYPE1 AHISTOGRAM

:ANALYSIS:TYPE1?

-> :ANALYSIS:TYPE1 AHISTOGRAM

# :ANALysis:VTDisplay

Function Turns ON/OFF the VT waveform display or queries

the current setting.

Syntax :ANALysis:VTDisplay {<Boolean>}

:ANALysis:VTDisplay?

Example :ANALYSIS:VTDISPLAY ON

:ANALYSIS:VTDISPLAY? -> :ANALYSIS:

VTDISPLAY 1

### :ANALysis:WAIT<x>?

Function Waits for the completion of the automated

measurement with a timeout option.

Syntax ANALysis:WAIT<x>? {<NRf>}

< x > = 1 or 2

<NRf> = 1 to 360000 (timeout value, in units of 10

ms)

Example ANALYSIS:WAIT1? 100 ->:ANALYSIS:WAIT1 1

Description If the execution of the automated measurement

completes within the timeout value, 0 is returned; if it is not complete or automated measurement is not being executed, 1 is returned. Even if the timeout value is set long, 0 is returned when the execution of

the automated measurement is complete.

# :ANALysis:WPARameter<x>?

Function Queries all settings related to the waveform

parameter measurement function.

Syntax :ANALysis:WPARameter<x>?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1? -> :ANALYSIS:

WPARAMETER1:FLEXRAY:BUS:TYPE BSS;:

ANALYSIS: WPARAMETER1: HISTOGRAM:

MEASURE: MODE OFF; CURSOR: C1:

POSITION -4.0000000E+00; STATE 1;:

ANALYSIS: WPARAMETER1: HISTOGRAM: MEASURE:

CURSOR:C2:POSITION 4.0000000E+00;

STATE 1;:ANALYSIS:WPARAMETER1:

HISTOGRAM:MEASURE:CURSOR:DC:STATE 1;:

ANALYSIS: WPARAMETER1: HISTOGRAM: MEASURE:

CURSOR:LINKAGE 0;:ANALYSIS:WPARAMETER1:

 $\verb|HISTOGRAM: MEASURE: PARAMETER: MEAN: \\$ 

TATE 0;:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE: PARAMETER: PEAK: STATE 0;:

ANALYSIS: WPARAMETER1: HISTOGRAM:

MEASURE:PARAMETER:SD3INTEG:STATE 0;:

ANALYSIS:WPARAMETER1:HISTOGRAM:MEASURE:

PARAMETER:SDEVIATION:STATE 0....

#### :ANALysis:WPARameter<x>:BIT<x>?

Function Queries all settings related to each logic bit of logic

waveform parameter measurement.

Syntax : ANALysis:WPARameter<x>:BIT<x>?

<x> of WPARameter<x> = 1 or 2

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.)

Example : ANALYSIS:WPARAMETER1:BIT1?

->: ANALYSIS:WPARAMETER1:BIT1:AREA1:

TYPE COUNT

#### :ANALysis:WPARameter<x>:BIT<x>:

#### AREA<x>?

Function Queries all settings related to each area of logic

waveform parameter measurement.

Syntax : ANALysis:WPARameter<x>:BIT<x>:

AREA<x>?

<x> of WPARameter<x> = 1 or 2

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.).

<x> of AREA<x> = 1 or 2

Example : ANALYSIS:WPARAMETER1:BIT1:AREA1?

->: ANALYSIS:WPARAMETER1:BIT1:AREA1:

TYPE COUNT

# :ANALysis:WPARameter<x>:BIT<x>:

#### AREA<x>:TYPE

Function Sets the logic waveform parameters for logic

waveform parameter measurement or queries the

current setting.

Syntax :ANALysis:WPARameter<x>:BIT<x>:AREA<x>:

TYPE {COUNt|DELay|DT|DUTYcycle|

FREQuency | NWIDth | PERFrequency | PERiod |

PWIDth}

:ANALysis:WPARameter<x>:BIT<x>:AREA<x>:

TYPE?

<x> of WPARameter<x> = 1 or 2

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.)

<x> of AREA<x> = 1 or 2

Example :ANALYSIS:WPARAMETER1:BIT1:AREA1:

TYPE COUNT

:ANALYSIS:WPARAMETER1:BIT1:AREA1:TYPE?

->: ANALYSIS:WPARAMETER1:BIT1:AREA1:

TYPE COUNT

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#### :ANALysis:WPARameter<x>:CALCulation

Function Sets the calculation items of the automated measurement of waveform parameters or queries the

current setting.

 ${\tt Syntax} \qquad : {\tt ANALysis:WPARameter< x>:CALCulation}$ 

{ < NRf > }

:ANALysis:WPARameter<x>:CALCulation?

<x> = 1 or 2<NRf> = 1 to 4

Example :ANALYSIS:WPARAMETER1:CALCULATION 1

:ANALYSIS:WPARAMETER1:CALCULATION?
-> :ANALYSIS:WPARAMETER1:CALCULATION 1

# :ANALysis:WPARameter<x>:FLEXray?

Function Queries all settings related to the FLEXRAY bus for waveform parameter measurement.

Syntax :ANALysis:WPARameter<x>:FLEXray?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:FLEXRAY? ->

:ANALYSIS:WPARAMETER1:FLEXRAY:BUS:

TYPE BSS

# :ANALysis:WPARameter<x>:FLEXray:BUS?

Function Queries all settings related to bus waveforms of the FLEXRAY bus for waveform parameter measurement.

Syntax :ANALysis:WPARameter<x>:FLEXray:BUS?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:FLEXRAY:BUS? ->

:ANALYSIS:WPARAMETER1:FLEXRAY:BUS:

TYPE BSS

# :ANALysis:WPARameter<x>:FLEXray:BUS:

#### TYPE

Function Sets the bus waveform parameters for waveform parameter measurement or queries the current

setting.

Syntax :ANALysis:WPARameter<x>:FLEXray:BUS:

TYPE {BSS|BSSFES|FBSS}

:ANALysis:WPARameter<x>:FLEXray:BUS:

TYPE?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:FLEXRAY:BUS:

TYPE BSS

:ANALYSIS:WPARAMETER1:FLEXRAY:BUS:TYPE?

-> :ANALYSIS:WPARAMETER1:FLEXRAY:BUS:

TYPE BSS

# :ANALysis:WPARameter<x>:FLEXray:

# RECeiver?

Function Queries all settings related to the receiver waveform of the FLEXRAY bus for waveform parameter

measurement.

Syntax :ANALysis:WPARameter<x>:FLEXray:

RECeiver?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:FLEXRAY:RECEIVER?

-> :ANALYSIS:WPARAMETER1:FLEXRAY:

RECEIVER: RXD: TYPE DBDRX01

# :ANALysis:WPARameter<x>:FLEXray:

#### RECeiver: RXD?

Function Queries all settings related to the receiver data waveforms of the FLEXRAY bus for waveform

parameter measurement.

Syntax :ANALysis:WPARameter<x>:FLEXray:

RECeiver:RXD?
<x> = 1 or 2

Example :ANALYSIS:WPARAMETER1:FLEXRAY:RECEIVER:

RXD? -> :ANALYSIS:WPARAMETER1:FLEXRAY:

RECEIVER: RXD: TYPE DBDRX01

# :ANALysis:WPARameter<x>:FLEXray:

# RECeiver: RXD: TYPE

Function Sets the receiver data waveform parameters for waveform parameter measurement or queries the current setting.

ourront sotting

Syntax :ANALysis:WPARameter<x>:FLEXray:

RECeiver:RXD:TYPE {DBDRX01|DBDRX10|

DRXASYM }

:ANALysis:WPARameter<x>:FLEXray:

RECeiver:RXD:TYPE?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:FLEXRAY:RECEIVER:

RXD: TYPE DBDRX01

:ANALYSIS:WPARAMETER1:FLEXRAY:RECEIVER:

RXD:TYPE? -> :ANALYSIS:WPARAMETER1:
FLEXRAY:RECEIVER:RXD:TYPE DBDRX01

# :ANALysis:WPARameter<x>:FLEXray:

# RECeiver: RXEN?

Function Queries all settings related to the receiver enable waveform of the FLEXRAY bus for waveform parameter measurement.

 $\verb|Syntax| : \verb|ANALysis:WPARameter<| x>: \verb|FLEX| ray: \\$ 

RECeiver: RXEN?

< x > = 1 or 2

 ${\tt Example} \quad : {\tt ANALYSIS:WPARAMETER1:FLEXRAY:RECEIVER:}$ 

RXEN? -> :ANALYSIS:WPARAMETER1:FLEXRAY:

RECEIVER: RXEN: TYPE DBDRXAI

# :ANALysis:WPARameter<x>:FLEXray:

# RECeiver: RXEN: TYPE

Function Sets the receiver enable waveform parameters for waveform parameter measurement or queries the

current setting.

Syntax :ANALysis:WPARameter<x>:FLEXray:

RECeiver:RXEN:TYPE {DBDRXAI|DBDRXIA}
:ANALysis:WPARameter<x>:FLEXray:

RECeiver: RXEN: TYPE?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:FLEXRAY:RECEIVER:

RXEN: TYPE DBDRXAI

:ANALYSIS:WPARAMETER1:FLEXRAY:RECEIVER:
RXEN:TYPE? -> :ANALYSIS:WPARAMETER1:
FLEXRAY:RECEIVER:RXEN:TYPE DBDRXAI

# :ANALysis:WPARameter<x>:FLEXray: TRANsmitter?

Function Queries all settings related to the transmitter

waveform of the FLEXRAY bus for waveform

parameter measurement.

Syntax :ANALysis:WPARameter<x>:FLEXray:

TRANsmitter?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:FLEXRAY:

TRANSMITTER? -> :ANALYSIS:WPARAMETER1: FLEXRAY:TRANSMITTER:TXD:TYPE DBDTX01

# :ANALysis:WPARameter<x>:FLEXray:

#### TRANsmitter: TXD?

Function Queries all settings related to the transmitter data waveforms of the FLEXRAY bus for waveform

parameter measurement.

Syntax :ANALysis:WPARameter<x>:FLEXray:

TRANsmitter:TXD?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:FLEXRAY:

TRANSMITTER:TXD? -> :ANALYSIS:

WPARAMETER1:FLEXRAY:TRANSMITTER:TXD:

TYPE DBDTX01

# :ANALysis:WPARameter<x>:FLEXray:

# TRANsmitter:TXD:TYPE

Function Sets the transmitter data waveform parameters for waveform parameter measurement or queries the

current setting.

Syntax :ANALysis:WPARameter<x>:FLEXray:

TRANsmitter:TXD:TYPE {DBDTX01|DBDTX10|

DBUSTX01|DBUSTX10|DTXASYM|UBDTX}
:ANALysis:WPARameter<x>:FLEXray:

TRANsmitter: TXD: TYPE?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:FLEXRAY:

TRANSMITTER: TXD: TYPE DBDTX01: ANALYSIS: WPARAMETER1: FLEXRAY:

TRANSMITTER:TXD:TYPE? -> :ANALYSIS:
WPARAMETER1:FLEXRAY:TRANSMITTER:TXD:

WPARAMETER1:FLEXRAY:TRANSMITTER:

TYPE DBDTX01

# :ANALysis:WPARameter<x>:FLEXray:

# TRANsmitter: TXEN?

Function Queries all settings related to the transmitter enable

waveform of the FLEXRAY bus for waveform

parameter measurement.

Syntax :ANALysis:WPARameter<x>:FLEXray:

TRANsmitter: TXEN?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:FLEXRAY:

TRANSMITTER:TXEN? -> :ANALYSIS:

 ${\tt WPARAMETER1:FLEXRAY:TRANSMITTER:TXEN:}$ 

TYPE DBDTXAI

# :ANALysis:WPARameter<x>:FLEXray:

# TRANsmitter:TXEN:TYPE

Function Sets the transmitter enable waveform parameters for waveform parameter measurement or queries the

current setting

Syntax :ANALysis:WPARameter<x>:FLEXray:

TRANsmitter:TXEN:TYPE {DBDTXAI|DBDTXIA|

DBUSTXAI | DBUSTXIA }

:ANALysis:WPARameter<x>:FLEXray:

TRANsmitter:TXEN:TYPE?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:FLEXRAY:

TRANSMITTER:TXEN:TYPE DBDTXAI:ANALYSIS:WPARAMETER1:FLEXRAY:

TRANSMITTER:TXEN:TYPE? -> :ANALYSIS: WPARAMETER1:FLEXRAY:TRANSMITTER:TXEN:

TYPE DBDTXAI

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#### :ANALysis:WPARameter<x>:HISTogram?

Queries all settings related to the histogram display of the waveform parameter measurement.

:ANALysis:WPARameter<x>:HISTogram? Syntax

< x > = 1 or 2

Example : ANALYSIS: WPARAMETER1: HISTOGRAM?

-> :ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE: MODE CURSOR; CURSOR: C1:

POSITION 1.000E+00; STATE 1;

:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE: CURSOR: C2:

POSITION 2.000E+00; STATE 1;

:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE:CURSOR:DC:STATE 1;

:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE: CURSOR: LINKAGE 1;

:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE:PARAMETER:MEAN:STATE 1;

:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE:PARAMETER:PEAK:STATE 1;

:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE:PARAMETER:SD3INTEG:STATE 1;

:ANALYSIS:WPARAMETER1:HISTOGRAM: MEASURE: PARAMETER: SDEVIATION: STATE 1;

:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE: PARAMETER: SDINTEG: STATE 1

# :ANALysis:WPARameter<x>:HISTogram:

#### MEASure?

Function Queries all settings related to the automated measurement of the histogram display of the waveform parameter measurement.

:ANALysis:WPARameter<x>:HISTogram: Syntax

MEASure?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE? -> :ANALYSIS:WPARAMETER1:

HISTOGRAM:

MEASURE: MODE CURSOR; CURSOR: C1:

POSITION 1.000E+00; STATE 1;

:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE: CURSOR: C2: POSITION 2.000E+00;

STATE 1;:ANALYSIS:WPARAMETER1:

HISTOGRAM:MEASURE:CURSOR:DC:STATE 1;

:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE: CURSOR: LINKAGE 1;

: ANALYSIS: WPARAMETER1: HISTOGRAM:

MEASURE:PARAMETER:MEAN:STATE 1;

:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE:PARAMETER:PEAK:STATE 1;

:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE:PARAMETER:SD3INTEG:STATE 1;

:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE: PARAMETER: SDEVIATION: STATE 1;

: ANALYSIS: WPARAMETER1: HISTOGRAM:

MEASURE: PARAMETER: SDINTEG: STATE 1

# :ANALysis:WPARameter<x>:HISTogram:

# MEASure: CURSor?

Function Queries all settings related to the cursor measurement on the histogram of the waveform parameter measurement.

:ANALysis:WPARameter<x>:HISTogram:

Syntax MEASure: CURSor?

< x > = 1.2

Example :ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE:CURSOR? -> :ANALYSIS:

WPARAMETER1: HISTOGRAM:

MEASURE: CURSOR: C1: POSITION 1.000E+00:

STATE 1;:ANALYSIS:WPARAMETER1:

HISTOGRAM: MEASURE: CURSOR: C2:

POSITION 2.000E+00; STATE 1;

:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE: CURSOR: DC: STATE 1;

:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE: CURSOR: LINKAGE 1

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# :ANALysis:WPARameter<x>:HISTogram:

#### MEASure: CURSor: ALL

Function Turns ON/OFF all histogram cursors of waveform

parameter measurement.

Syntax :ANALysis:WPARameter<x>HISTogram:

MEASure:CURSor:ALL {<Boolean>}

< x > = 1, 2

Example :ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE: CURSOR: ALL ON

# :ANALysis:WPARameter<x>:HISTogram:

#### MEASure: CURSor: C<x>?

Function Queries all settings related to the cursor

measurement on the histogram of the waveform

parameter measurement.

Syntax :ANALysis:WPARameter<x>:HISTogram:

MEASure:CURSor:C<x>?
<x> of WPARameter<x> = 1, 2

< x > of C < x > = 1, 2

Example :ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE: CURSOR: C1? -> : ANALYSIS:

WPARAMETER1: HISTOGRAM: MEASURE: CURSOR:

C1:POSITION 1.000E+00;STATE 1

# :ANALysis:WPARameter<x>:HISTogram:

#### MEASure:CURSor:C<x>:POSition

Function Sets the cursor position on the trend of the waveform

parameter measurement or queries the current

setting.

Syntax :ANALysis:WPARameter<x>:HISTogram:

MEASure:PARameter:C<x>:POSition {<NRf>}

:ANALysis:WPARameter<x>:HISTogram: MEASure:PARameter:C<x>:POSition?

<x> of WPARameter<x> = 1, 2

< x > of C < x > = 1, 2

<NRf> = -5 to 5 (div)

Example :ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE:CURSOR:C1:POSITION ON:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE: CURSOR: C1: POSITION?

-> :ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE: CURSOR: C1: POSITION 1.000E+00

#### :ANALysis:WPARameter<x>:HISTogram:

#### MEASure: CURSor: C<x>: STATe

Function Turns ON/OFF the cursor on the histogram of the

waveform parameter measurement or queries the

current setting.

Syntax :ANALysis:WPARameter<x>:HISTogram:

MEASure:PARameter:C<x>:

STATe {<Boolean>}

:ANALysis:WPARameter<x>:HISTogram:

MEASure:PARameter:C<x>:STATe?

<x> of WPARameter<x> = 1, 2

< x > of C < x > = 1, 2

Example :ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE:CURSOR:C1:STATE ON

:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE:CURSOR:C1:STATE? -> :ANALYSIS:
WPARAMETER1:HISTOGRAM:MEASURE:CURSOR:

C1:STATE 1

#### :ANALysis:WPARameter<x>:HISTogram:

# MEASure:CURSor:C<x>:VALue?

Function Queries the measured value of the cursor on the

histogram of the waveform parameter measurement.

 $\verb|Syntax| : \verb|ANALysis:WPARameter<| x>: \verb|HISTogram:| \\$ 

MEASure:CURSor:C<x>:VALue?

<x> of WPARameter<x> = 1, 2

< x > 0f C < x > = 1.2

Example :ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE:CURSOR:C1:VALUE? -> :ANALYSIS:
WPARAMETER1:HISTOGRAM:MEASURE:CURSOR:

C1:VALUE 1.000E+00

# :ANALysis:WPARameter<x>:HISTogram:

# MEASure: CURSor: DC?

Function Queries all settings related to the measurement

between cursors on the histogram of the waveform

parameter measurement.

Syntax :ANALysis:WPARameter<x>:HISTogram:

MEASure:CURSor:DC?

< x > = 1, 2

Example :ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE:CURSOR:DC? -> :ANALYSIS:

WPARAMETER1: HISTOGRAM: MEASURE: CURSOR:

DC:STATE 1

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# :ANALysis:WPARameter<x>:HISTogram:

# MEASure: CURSor: DC: STATe

Function Turns ON/OFF the measurement between cursors

on the histogram of the waveform parameter measurement or queries the current setting.

Syntax :ANALysis:WPARameter<x>:HISTogram:

MEASure:PARameter:DC:STATe {<Boolean>}
:ANALysis:WPARameter<x>:HISTogram:

MEASure:PARameter:DC:STATe?

< x > = 1, 2

Example :ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE:CURSOR:DC:STATE ON

:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE:CURSOR:DC:STATE? -> :ANALYSIS:
WPARAMETER1:HISTOGRAM:MEASURE:CURSOR:

DC:STATE 1

# :ANALysis:WPARameter<x>:HISTogram:

#### MEASure: CURSor: DC: VALue?

Function 
 Queries the measured value between cursors on the

histogram of the waveform parameter measurement.

Syntax :ANALysis:WPARameter<x>:HISTogram:

MEASure:CURSor:DC:VALue?

< x > = 1, 2

Example : ANALYSIS: WPARAMETER1: HISTOGRAM:

MEASURE:CURSOR:DC:VALUE? -> :ANALYSIS:
WPARAMETER1:HISTOGRAM:MEASURE:CURSOR:

WPARAMETER1:HISTOGRAM:MEASURE:CURSOR

DC:VALUE 1.000E+00

### :ANALysis:WPARameter<x>:HISTogram:

# MEASure: CURSor: LINKage

Function Turns ON/OFF the histogram cursor link of the

waveform parameter measurement or queries the

current setting.

Syntax :ANALysis:WPARameter<x>:HISTogram:

MEASure:CURSor:LINKage {<Boolean>}
:ANALysis:WPARameter<x>:HISTogram:

MEASure: CURSor: LINKage?

<x> = 1. 2

Example :ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE: CURSOR: LINKAGE ON

:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE:CURSOR:LINKAGE? -> :ANALYSIS:

WPARAMETER1: HISTOGRAM: MEASURE: CURSOR:

LINKAGE 1

# :ANALysis:WPARameter<x>:HISTogram:

#### MEASure: MODE

Function Sets the automated measurement mode of the

histogram display of the waveform parameter measurement or queries the current setting.

Syntax :ANALysis:WPARameter<x>:HISTogram:

MEASure:MODE {CURSor|OFF|PARameter}
:ANALysis:WPARameter<x>:HISTogram:

MEASure: MODE?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE: MODE CURSOR

:ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE:MODE? -> :ANALYSIS:WPARAMETER1:

HISTOGRAM: MEASURE: MODE CURSOR

# :ANALysis:WPARameter<x>:HISTogram:

#### MEASure: PARameter?

Function Queries all settings related to the automated measurement of histogram parameters of the

waveform parameter measurement.

Syntax :ANALysis:WPARameter<x>:HISTogram:

MEASure: PARameter?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE:PARAMETER? -> :ANALYSIS:
WPARAMETER:HISTOGRAM:MEASURE:
PARAMETER:MEAN:STATE 1;:ANALYSIS:
WPARAMETER:HISTOGRAM:MEASURE:
PARAMETER:PEAK:STATE 1;:ANALYSIS:
WPARAMETER:HISTOGRAM:MEASURE:

PARAMETER:SD3INTEG:STATE 1;:ANALYSIS:

WPARAMETER1: HISTOGRAM: MEASURE:

PARAMETER:SDEVIATION:STATE 1;:ANALYSIS:

WPARAMETER1:HISTOGRAM:MEASURE:
PARAMETER:SDINTEG:STATE 1

# :ANALysis:WPARameter<x>:HISTogram:

#### MEASure: PARameter: ALL

Function Turn ON/OFF all histogram parameters of the

waveform parameter measurement.

Syntax :ANALysis:WPARameter<x>HISTogram:

MEASure:PARameter:ALL {<Boolean>}

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:HISTOGRAM:

MEASURE: PARAMETER: ALL ON

# :ANALysis:WPARameter<x>:HISTogram:

#### MEASure: PARameter: < Parameter>?

Function Queries all settings related to the histogram

parameter of the waveform parameter measurement.

Syntax :ANALysis:WPARameter<x>:HISTogram:

MEASure:PARameter:<Parameter>?

< x > = 1 or 2

<Parameter> = {MEAN|PEAK|SD3integ|

SDEViation|SDINteg}

Example (The following is an example for the average value.)

:ANALYSIS:WPARAMETER1:HISTOGRAM:
MEASURE:PARAMETER:MEAN? -> :ANALYSIS:

WPARAMETER1: HISTOGRAM: MEASURE:

PARAMETER: MEAN: STATE 1

# :ANALysis:WPARameter<x>:HISTogram:

#### MEASure:PARameter:<Parameter>:STATe

Function Turns ON/OFF the histogram parameter of the waveform parameter measurement or queries the

current setting.

Syntax :ANALysis:WPARameter<x>:HISTogram:

MEASure: PARameter: < Parameter >: STATe

{<Boolean>}

 $: \verb|ANALysis:WPARameter<|x>: \verb|HISTogram:|$ 

MEASure:PARameter:<Parameter>:STATe?

< x > = 1 or 2

<Parameter> =  $\{MEAN|PEAK|SD3integ|$ 

SDEViation|SDINteg}

Example (The following is an example for the average value.)

:ANALYSIS:WPARAMETER1:HISTOGRAM:
MEASURE:PARAMETER:MEAN:STATE ON
:ANALYSIS:WPARAMETER1:HISTOGRAM:
MEASURE:PARAMETER:MEAN:STATE?

-> :ANALYSIS:WPARAMETER1:HISTOGRAM: MEASURE:PARAMETER:MEAN:STATE 1

# :ANALysis:WPARameter<x>:HISTogram:

# MEASure: PARameter: < Parameter >: VALue?

Function Queries the measured value of the histogram parameter of the waveform parameter measurement.

Syntax :ANALysis:WPARameter<x>:HISTogram:

MEASure:PARameter:<Parameter>:VALue?

< x > = 1 or 2

<Parameter> = {MEAN|PEAK|SD3integ|

SDEViation|SDINteg}

Example (The following is an example for the average value.)

:ANALYSIS:WPARAMETER1:HISTOGRAM: MEASURE:PARAMETER:MEAN:VALUE?

-> :ANALYSIS:WPARAMETER1:HISTOGRAM: MEASURE:PARAMETER:MEAN:VALUE 1.000E+00

### :ANALysis:WPARameter<x>:LIST?

Function Queries all settings related to the list display of the

waveform parameter measurement.

Syntax :ANALysis:WPARameter<x>:LIST?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:LIST?

-> :ANALYSIS:WPARAMETER1:LIST:
MODE STATISTIC;SCROLL HORIZONTAL

#### :ANALysis:WPARameter<x>:LIST:ITEM?

Function Queries list display items of the waveform parameter

measurement.

Syntax :ANALysis:WPARameter<x>:LIST:ITEM?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:LIST:ITEM?

-> :ANALYSIS:WPARAMETER1:LIST:

ITEM "LOW(C1)"

### :ANALysis:WPARameter<x>:LIST:MODE

Function Sets the list display mode of the waveform parameter

measurement or queries the current setting.

:ANALysis:WPARameter<x>:LIST:MODE?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:LIST:MODE

STATISTIC

:ANALYSIS:WPARAMETER1:LIST:MODE?

-> : ANALYSIS:WPARAMETER1:LIST:

MODE STATISTIC

# :ANALysis:WPARameter<x>:LIST:SCRoll

Function Sets the scroll direction of the list display of the waveform parameter measurement or queries the

current setting.

Syntax :ANALysis:WPARameter<x>:LIST:SCRoll

{HORizontal|VERTical}

:ANALysis:WPARameter<x>:LIST:SCRoll?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:LIST:

SCROLL HORIZONTAL

:ANALYSIS:WPARAMETER1:LIST:SCROLL?

-> :ANALYSIS:WPARAMETER1:LIST:

SCROLL HORIZONTAL

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#### :ANALysis:WPARameter<x>:LIST:VALue?

Function Queries the automated measured value of the list display number of the waveform parameter

measurement.

Syntax :ANALysis:WPARameter<x>:LIST:

VALue? {<NRf>|MAXimum}

< x > = 1 or 2

<NRf> = 1 to 100000

Example :ANALYSIS:WPARAMETER1:LIST:VALUE? 1

-> :ANALYSIS:WPARAMETER1:LIST:

VALUE 1,1.000E+00

Description • If the measurement is not possible, "NAN (Not A Number" is returned.

- If the value of the list display number is not present, "NAN (Not A Number)" is returned.
- If MAXimum is specified, the maximum list display number is selected.

# :ANALysis:WPARameter<x>:MODE

Function Sets the mode of the waveform parameter measurement or queries the current setting.

Syntax :ANALysis:WPARameter<x>:MODE

{HISTogram|LIST|TRENd}

:ANALysis:WPARameter<x>:MODE?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:MODE HISTOGRAM

:ANALYSIS:WPARAMETER1:MODE?

-> :ANALYSIS:WPARAMETER1:MODE HISTOGRAM

# :ANALysis:WPARameter<x>:TRACe<x>?

Function Queries all settings related to the trace of the

waveform parameter measurement.

Syntax :ANALysis:WPARameter<x>:TRACe<x>?

<x> of WPARameter<x> = 1 or 2 <x> of TRACe<x> = 1 to 8

Example :ANALYSIS:WPARAMETER1:TRACE1?

-> :ANALYSIS:WPARAMETER1:TRACE1:AREA1:

TYPE BURST

# :ANALysis:WPARameter<x>:TRACe<x>:

# AREA<x>?

Function Queries all settings related to the area of the

waveform parameter measurement.

Syntax :ANALysis:WPARameter<x>:TRACe<x>:

AREA<x>?

<x> of WPARameter<x> = 1 or 2 <x> of TRACe<x> = 1 to 8

<x> of AREA<x> = 1 or 2

Example :ANALYSIS:WPARAMETER1:TRACE1:AREA1?

-> :ANALYSIS:WPARAMETER1:TRACE1:AREA1:

TYPE BURST

# :ANALysis:WPARameter<x>:TRACe<x>:

#### AREA<x>:TYPE

Function Sets the waveform parameter of the waveform parameter measurement or queries the current

setting.

Syntax :ANALysis:WPARameter<x>:TRACe<x>:

AREA<x>:TYPE {<Parameter>}

:ANALysis:WPARameter<x>:TRACe<x>:

AREA<x>:TYPE?

<x> of WPARameter<x> = 1 or 2 <x> of TRACe<x> = 1 to 8

<x> of AREA<x> = 1 or 2

<Parameter> = {BURSt|CMEan|COUNt|CRMS|
CSDeviation|DELay|DT|DUTYcycle|FALL|

FREQuency|HIGH|HILow|LOW|MAXimum|MEAN|
MINimum|NOVershoot|NWIDth|PERFrequency|
PERiod|POVershoot|PTOPeak|PWIDth|RISE|
RMS|SDEViation|TYCInteg|TYINteg|V1|V2}

Example :ANALYSIS:WPARAMETER1:TRACE1:AREA1:

TYPE BURST

:ANALYSIS:WPARAMETER1:TRACE1:AREA1:
TYPE? -> :ANALYSIS:WPARAMETER1:TRACE1:

AREA1:TYPE BURST

# :ANALysis:WPARameter<x>:TRENd?

Function Queries all settings related to the trend display of the

 $waveform\ parameter\ measurement.$ 

Syntax :ANALysis:WPARameter<x>:TRENd?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:TREND? -> :

ANALYSIS: WPARAMETER1: TREND:

HRANGE MAIN; HSPAN 1; MEASURE: CURSOR: C1:
POSITION 1.000E+00; STATE 1;: ANALYSIS:
WPARAMETER1: TREND: MEASURE: CURSOR: C2:
POSITION 2.000E+00; STATE 1;: ANALYSIS:
WPARAMETER1: TREND: MEASURE: CURSOR: DC:
STATE 1;: ANALYSIS: WPARAMETER1: TREND:

MEASURE:MODE CURSOR;:ANALYSIS:

WPARAMETER1:TREND:VERTICAL 2.000E+00,

1.000E+00

# :ANALysis:WPARameter<x>:TRENd:

#### ASCale[:EXECute]

Function Executes the auto scaling of the trend display of the waveform parameter measurement.

Syntax :ANALysis:WPARameter<x>:TRENd:

ASCale[:EXECute]

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:TREND:ASCALE:

EXECUTE

# :ANALysis:WPARameter<x>:TRENd:HRANge

Function Sets the target window for trend display of measured waveform parameters or queries the current setting.

Syntax :ANALysis:WPARameter<x>:TRENd:

HRANge {MAIN | Z1 | Z2 }

:ANALysis:WPARameter<x>:TRENd:HRANge?

< x > = 1, 2

Example :ANALYSIS:WPARAMETER1:TREND:HRANGE MAIN

:ANALYSIS:WPARAMETER1:TREND:HRANGE? ->
:ANALYSIS:WPARAMETER1:TREND:HRANGE MAIN

# :ANALysis:WPARameter<x>:TRENd:HSPan

Function Sets the horizontal span of the trend display of the

waveform parameter measurement or queries the

current setting.

Syntax :ANALysis:WPARameter<x>:TRENd:HSPan

{ < NRf > }

:ANALysis:WPARameter<x>:TRENd:HSPan?

< x > = 1 or 2

<NRf> = 1 to 100000

Example :ANALYSIS:WPARAMETER1:TREND:HSPAN 1

:ANALYSIS:WPARAMETER1:TREND:HSPAN?

-> :ANALYSIS:WPARAMETER1:TREND:HSPAN 1

# :ANALysis:WPARameter<x>:TRENd:

#### MEASure?

Function Queries all settings related to the automated measurement of the trend display of the waveform

parameter measurement.

Syntax :ANALysis:WPARameter<x>:TRENd:MEASure?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:TREND:MEASURE?

-> :ANALYSIS:WPARAMETER1:TREND:MEASURE:

CURSOR:C1:POSITION 1.000E+00;STATE 1;
:ANALYSIS:WPARAMETER1:TREND:MEASURE:

CURSOR:C2:POSITION 2.000E+00;STATE 1;
:ANALYSIS:WPARAMETER1:TREND:MEASURE:

CURSOR:DC:STATE 1;:ANALYSIS:

WPARAMETER1:TREND:MEASURE:MODE CURSOR

#### :ANALysis:WPARameter<x>:TRENd:

#### MEASure: CURSor?

Function Queries all settings related to the cursor

measurement of the trend of the waveform parameter

measurement.

Syntax :ANALysis:WPARameter<x>:TRENd:MEASure:

CURSor?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:TREND:MEASURE:

CURSOR? -> :ANALYSIS:WPARAMETER1:TREND:
MEASURE:CURSOR:C1:POSITION 1.000E+00;

STATE 1;:ANALYSIS:WPARAMETER1:TREND:
MEASURE:CURSOR:C2:POSITION 2.000E+00;

STATE 1;:ANALYSIS:WPARAMETER1:TREND:

MEASURE:CURSOR:DC:STATE 1

#### :ANALysis:WPARameter<x>:TRENd:

#### MEASure: CURSor: ALL

Function Turns ON/OFF all cursors of the trend of the

waveform parameter measurement.

Syntax :ANALysis:WPARameter<x>:TRENd:MEASure:

CURSor:ALL {<Boolean>}

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:TREND:MEASURE:

CURSOR: ALL ON

# :ANALysis:WPARameter<x>:TRENd:

## MEASure: CURSor: C<x>?

Function Queries all settings related to the measured value of the cursor of the trend of the waveform parameter

measurement.

Syntax :ANALysis:WPARameter<x>:TRENd:MEASure:

CURSor:C<x>?

<x> of WPARameter<x> = 1 or 2

< x > of C < x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:TREND:MEASURE:

CURSOR:C1? -> :ANALYSIS:WPARAMETER1:

TREND:MEASURE:CURSOR:C1:
POSITION 1.000E+00;STATE 1

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# :ANALysis:WPARameter<x>:TRENd:

#### MEASure: CURSor: C<x>: POSition

Function Sets the cursor position of the trend of the waveform

parameter measurement or queries the current

setting.

Syntax :ANALysis:WPARameter<x>:TRENd:MEASure:

CURSor:C<x>:POSition {<NRf>}

:ANALysis:WPARameter<x>:TRENd:MEASure:

CURSor:C<x>:POSition?
<x> of WPARameter<x> = 1 or 2

<x> of C<x> = 1 or 2 <NRf> = -5 to 5 div

Example :ANALYSIS:WPARAMETER1:TREND:MEASURE:

CURSOR:C1:POSITION 1

:ANALYSIS:WPARAMETER1:TREND:MEASURE: CURSOR:C1:POSITION? -> :ANALYSIS:

WPARAMETER1:TREND:MEASURE:
CURSOR:C1:POSITION 1.000E+00
CURSOR:C1:STATE? -> :ANALYSIS:
WPARAMETER1:TREND:MEASURE:

CURSOR:C1:STATE 1

#### :ANALysis:WPARameter<x>:TRENd:

#### MEASure:CURSor:C<x>:STATe

Function Turns ON/OFF the cursor of the trend of the

waveform parameter measurement or queries the

current setting.

Syntax :ANALysis:WPARameter<x>:TRENd:MEASure:

 ${\tt CURSor:C< x>:STATe } \; \{ \texttt{<Boolean>} \}$ 

:ANALysis:WPARameter<x>:TRENd:MEASure:

CURSor:C<x>:STATe?
<x> of WPARameter<x> = 1 or 2

< x > of C < x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:TREND:MEASURE:

CURSOR:C1:STATE ON

:ANALYSIS:WPARAMETER1:TREND:MEASURE:

CURSOR:C1:STATE? -> :ANALYSIS:
WPARAMETER1:TREND:MEASURE:

CURSOR:C1:STATE 1

# :ANALysis:WPARameter<x>:TRENd:

### MEASure:CURSor:C<x>:VALue?

Function Queries the measured value of the cursor of the trend

of the waveform parameter measurement.

Syntax :ANALysis:WPARameter<x>:TRENd:MEASure:

CURSor:C<x>:VALue?

<x> of WPARameter<x> = 1 or 2

< x > of C < x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:TREND:MEASURE:

CURSOR:C1:VALUE? -> :ANALYSIS: WPARAMETER1:TREND:MEASURE: CURSOR:C1:VALUE 1.000E+00

# :ANALysis:WPARameter<x>:TRENd:MEASure:

#### CURSor: DC?

Function Queries all settings related to the measurement between cursors on the trend of the waveform

parameter measurement.

Syntax :ANALysis:WPARameter<x>:TRENd:MEASure:

CURSor:DC?

<x> of WPARameter<x> = 1, 2

 ${\tt Example : ANALYSIS:WPARAMETER1:TREND:MEASURE:}$ 

CURSOR:DC? -> :ANALYSIS:WPARAMETER1:

TREND: MEASURE: CURSOR: DC: STATE 1

# :ANALysis:WPARameter<x>:TRENd:MEASure: CURSor:DC:STATe

Function Turns ON/OFF the measurement between cursors on the trend of the waveform parameter measurement or

queries the current setting.

Syntax :ANALysis:WPARameter<x>:TRENd:MEASure:

CURSor:DC:STATE {<Boolean>}
:ANALysis:WPARameter<x>:TRENd:
MEASure:CURSor:DC:STATe?

Example :ANALYSIS:WPARAMETER1:TREND:MEASURE:

<x> of WPARameter<x> = 1, 2

CURSOR:DC:STATE ON

:ANALYSIS:WPARAMETER1:TREND:MEASURE:

CURSOR:DC:STATE? -> :ANALYSIS:

WPARAMETER1:TREND:MEASURE:CURSOR:DC:

STATE 1

# :ANALysis:WPARameter<x>:TRENd:MEASure:

# CURSor: DC: VALue?

Function Sets the measured value between cursors on the trend of the waveform parameter measurement or

queries the current setting.

Syntax :ANALysis:WPARameter<x>:TRENd:

MEASure:CURSor:DC:VALue?
<x> of WPARameter<x> = 1.2

Example :ANALYSIS:WPARAMETER1:TREND:MEASURE:

CURSOR:DC:VALUE? -> :ANALYSIS:

WPARAMETER1:TREND:MEASURE:CURSOR:DC:

VALUE 1.000E+00

# :ANALysis:WPARameter<x>:TRENd:MEASure:

#### CURSor:LINKage

Function Turns ON/OFF the trend cursor link of the waveform parameter measurement or queries the current

setting.

Syntax :ANALysis:WPARameter<x>:TRENd:MEASure:

CURSor:LINKage {<Boolean>}

:ANALysis:WPARameter<x>:TRENd:MEASure:

CURSor:LINKage?

< x > = 1 or 2

Example :ANALYSIS:WPARAMETER1:TREND:MEASURE:

CURSOR:LINKAGE ON

:ANALYSIS:WPARAMETER1:TREND:MEASURE:

CURSOR:LINKAGE? -> :ANALYSIS:
WPARAMETER1:TREND:MEASURE:CURSOR:

LINKAGE 1

#### :ANALysis:WPARameter<x>:TRENd:

#### MEASure: MODE

Function Sets the automated measurement mode of the trend

of the waveform parameter measurement or queries

the current setting.

Syntax :ANALysis:WPARameter<x>:TRENd:MEASure:

MODE {CURSor | OFF}

:ANALysis:WPARameter<x>:TRENd:MEASure:

MODE? <x> = 1 or 2

Example :ANALYSIS:WPARAMETER1:TREND:MEASURE:

MODE CURSOR

:ANALYSIS:WPARAMETER1:TREND:MEASURE:
MODE? -> :ANALYSIS:WPARAMETER1:TREND:

MEASURE: MODE CURSOR

# :ANALysis:WPARameter<x>:TRENd:

#### **VERTical**

Function Sets the vertical range of the trend of the waveform

parameter measurement or queries the current

setting.

 ${\tt Syntax} \qquad : {\tt ANALysis:WPARameter< x>:TRENd:VERTical}$ 

{ < NRf > , < NRf > }

:ANALysis:WPARameter<x>:TRENd:VERTical?

< x > = 1 or 2

<NRf> = -1.000E+31 to 1.000E+31 (div)

Example :ANALYSIS:WPARAMETER1:TREND:

VERTICAL 1,2

:ANALYSIS:WPARAMETER1:TREND:VERTICAL?

-> :ANALYSIS:WPARAMETER1:TREND: VERTICAL 2.000E+00,1.000E+00

#### :ANALysis:XY<x>?

Function Queries all settings related to the XY display function.

Syntax :ANALysis:XY<x>?

< x > = 1 or 2

Example :ANALYSIS:XY1? -> :ANALYSIS:XY1:

GATE:ALEVEL HIGH; HYSTERESIS1 1.000E+00;

HYSTERESIS2 1.000E+00;

HYSTERESIS3 1.000E+00;

HYSTERESIS4 1.000E+00;

HYSTERESIS5 1.000E+00;

HYSTERESIS6 1.000E+00;

HYSTERESIS7 1.000E+00;

HYSTERESIS8 1.000E+00; LEVEL1 1.000E+00;

LEVEL2 1.000E+00; LEVEL3 1.000E+00;

LEVEL4 1.000E+00; LEVEL5 1.000E+00;

LEVEL6 1.000E+00; LEVEL7 1.000E+00;

LEVEL8 1.000E+00; TRACE 1; :ANALYSIS:XY1:

MEASURE:CURSOR:X1:POSITION 1.000E+00;:

ANALYSIS:XY1:MEASURE:CURSOR:X2:

POSITION 2.000E+00;:ANALYSIS:XY1:

MEASURE:CURSOR:XLINkAGE 1;Y1:
POSITION 1.000E+00;:ANALYSIS:XY1:

MEASURE:CURSOR:Y2:POSITION 2.000E+00;:

ANALYSIS: XY1: MEASURE: CURSOR:

YLINkAGE 1;:ANALYSIS:XY1:MEASURE:

MODE CURSOR; XYINTEG: LOOP CLOSE;

POLARITY CCW;: ANALYSIS: XY1:

TRANGE 1.000E+00,0.000E+00; WINDOW MAIN;

XTRACE 1; YTRACE 1

# :ANALysis:XY<x>:GATE?

Function Queries all settings related to the gate function of the

XY display.

Syntax :ANALysis:XY<x>:GATE?

< x > = 1 or 2

Example :ANALYSIS:XY1:GATE? -> :ANALYSIS:XY1:

GATE:ALEVEL HIGH; HYSTERESIS1 1.000E+00;

HYSTERESIS2 1.000E+00;

HYSTERESIS3 1.000E+00;

HYSTERESIS4 1.000E+00;

HYSTERESIS5 1.000E+00;

HYSTERESIS6 1.000E+00;

HYSTERESIS7 1.000E+00;

HISTERESIS/ 1.000E+00;

HYSTERESIS8 1.000E+00; LEVEL1 1.000E+00;

LEVEL2 1.000E+00; LEVEL3 1.000E+00;

LEVEL4 1.000E+00; LEVEL5 1.000E+00;

LEVEL6 1.000E+00; LEVEL7 1.000E+00;

LEVEL8 1.000E+00;TRACE 1

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#### :ANALysis:XY<x>:GATE:ALEVel

Function Sets the active level of the gate of the XY display or

queries the current setting.

Syntax :ANALysis:XY<x>:GATE:ALEVel {HIGH|LOW}

:ANALysis:XY<x>:GATE:ALEVel?

< x > = 1 or 2

Example :ANALYSIS:XY1:GATE:ALEVEL HIGH

:ANALYSIS:XY1:GATE:ALEVEL?

-> :ANALYSIS:XY1:GATE:ALEVEL HIGH

### :ANALysis:XY<x>:GATE:HYSTeresis<x>

Function Sets the hysteresis of the gate of the XY display or

queries the current setting.

Syntax :ANALysis:XY<x>:GATE:HYSTeresis<x>

{ < NRf > }

:ANALysis:XY<x>:GATE:HYSTeresis<x>?

<x> of XY<x> = 1 or 2 <x> of HYSTeresis<x> = 1 to 8

 $\langle NRf \rangle = 0 \text{ to } 4 \text{ (div)}$ 

Example :ANALYSIS:XY1:GATE:HYSTERESIS1 1

:ANALYSIS:XY1:GATE:HYSTERESIS1?

-> :ANALYSIS:XY1:GATE: HYSTERESIS1 1.000E+00

#### :ANALysis:XY<x>:GATE:LEVel<x>

Function Sets the level of the gate of the XY display or queries

the current setting.

Syntax :ANALysis:XY<x>:GATE:LEVel<x> {<NRf>,<V

oltage>, <Current>}

:ANALysis:XY<x>:GATE:LEVel<x>?

<x> of XY<x> = 1 or 2 <x> of LEVel<x> = 1 to 8

<NRf>, <Voltage>, and <Current> = See the SB5000

User's Manual.

Example :ANALYSIS:XY1:GATE:LEVEL1 1

:ANALYSIS:XY1:GATE:LEVEL1?

-> :ANALYSIS:XY1:GATE:LEVEL1 1.000E+00

# :ANALysis:XY<x>:GATE:TRACe

Function Sets the gate trace of the XY display or queries the

current setting.

Syntax :ANALysis:XY<x>:GATE:TRACe {<NRf>|OFF}

:ANALysis:XY<x>:GATE:TRACe?

<x> = 1 or 2<NRf> = 1 to 8

Example :ANALYSIS:XY1:GATE:TRACE 1

:ANALYSIS:XY1:GATE:TRACE? -> :ANALYSIS:

XY1:GATE:TRACE 1

# :ANALysis:XY<x>:MEASure?

Function Queries all settings related to the automated

measurement of the XY display.

Syntax :ANALysis:XY<x>:MEASure?

< x > = 1 or 2

Example :ANALYSIS:XY1:MEASURE? -> :ANALYSIS:

XY1:MEASURE:CURSOR:X1:

POSITION 1.000E+00;:ANALYSIS:XY1:

MEASURE:CURSOR:X2:POSITION 2.000E+00;:

ANALYSIS:XY1:MEASURE:CURSOR:XLINkAGE 1;

Y1:POSITION 1.000E+00;:ANALYSIS:XY1:

MEASURE:CURSOR:Y2:POSITION 2.000E+00;:

ANALYSIS:XY1:MEASURE:CURSOR:

YLINKAGE 1;:ANALYSIS:XY1:MEASURE:
MODE CURSOR;XYINTEG:LOOP CLOSE;

POLARITY CCW

# :ANALysis:XY<x>:MEASure:CURSor?

Function Queries all settings related to the cursor

measurement of the XY display.

Syntax :ANALysis:XY<x>:MEASure:CURSor?

< x > = 1 or 2

Example :ANALYSIS:XY1:MEASURE:CURSOR?

-> :ANALYSIS:XY1:MEASURE:CURSOR:X1:

POSITION 1.000E+00;:ANALYSIS:XY1:

MEASURE:CURSOR:X2:POSITION 2.000E+00;:
ANALYSIS:XY1:MEASURE:CURSOR:XLINkAGE 1:

Y1:POSITION 1.000E+00;:ANALYSIS:XY1:

MEASURE:CURSOR:Y2:POSITION 2.000E+00;:

ANALYSIS:XY1:MEASURE:CURSOR:YLINkAGE 1

# :ANALysis:XY<x>:MEASure:CURSor: XLINkage

Function Turns ON/OFF the horizontal cursor link on the XY

display or queries the current setting.

Syntax :ANALysis:XY<x>:MEASure:CURSor:

XLINkage {<Boolean>}

:ANALysis:XY<x>:MEASure:CURSor:

XLINkage?  $\langle x \rangle = 1 \text{ or } 2$ 

Example :ANALYSIS:XY1:MEASURE:CURSOR:

XLINKAGE ON

:ANALYSIS:XY1:MEASURE:CURSOR:XLINkAGE?

-> :ANALYSIS:XY1:MEASURE:CURSOR:

XLINkAGE 1

# :ANALysis:XY<x>:MEASure:CURSor:X<x>?

Function Queries all settings related to the horizontal cursor of

the XY display.

Syntax :ANALysis:XY<x>:MEASure:CURSor:X<x>?

< x > of XY < x > = 1 or 2< x > of X < x > = 1 or 2

Example :ANALYSIS:XY1:MEASURE:CURSOR:X1?

-> :ANALYSIS:XY1:MEASURE:CURSOR:X1:

POSITION 1.000E+00

# :ANALysis:XY<x>:MEASure:CURSor:X<x>: POSition

Function Sets the horizontal cursor position of the XY display

or queries the current setting.

Syntax :ANALysis:XY<x>:MEASure:CURSor:X<x>:

POSition {<NRf>}

:ANALysis:XY<x>:MEASure:CURSor:X<x>:

POSition?

<x> of XY<x> = 1 or 2 <x> of X<x> = 1 or 2 <NRf> = -4 to 4 (div)

Example :ANALYSIS:XY1:MEASURE:CURSOR:X1:

POSITION 1

:ANALYSIS:XY1:MEASURE:CURSOR:X1:

POSITION?

-> :ANALYSIS:XY1:MEASURE:CURSOR:X1:

POSITION 1.000E+00

# :ANALysis:XY<x>:MEASure:CURSor:X<x>: VALue?

Function Queries the voltage value at the horizontal cursor of the XY display.

Syntax :ANALysis:XY<x>:MEASure:CURSor:X<x>:

VALue?

<x> of XY<x> = 1 or 2 <x> of X<x> = 1 or 2

Example :ANALYSIS:XY1:MEASURE:CURSOR:X1:VALUE?

-> :ANALYSIS:XY1:MEASURE:CURSOR:X1:

VALUE 1.000E+00

# :ANALysis:XY<x>:MEASure:CURSor: YLINkage

Function Turns ON/OFF the vertical cursor link on the XY

display or queries the current setting.

Syntax :ANALysis:XY<x>:MEASure:CURSor:

YLINkage {<Boolean>}

:ANALysis:XY<x>:MEASure:CURSor:

YLINkage? < x > = 1 or 2

Example :ANALYSIS:XY1:MEASURE:CURSOR:

YLINKAGE ON

:ANALYSIS:XY1:MEASURE:CURSOR:YLINkAGE?

-> :ANALYSIS:XY1:MEASURE:CURSOR:

YLINKAGE 1

#### :ANALysis:XY<x>:MEASure:CURSor:Y<x>?

Function Queries all settings related to the vertical cursor of

the XY display.

Syntax :ANALysis:XY<x>:MEASure:CURSor:Y<x>?

< x > of XY < x > = 1 or 2< x > of Y < x > = 1 or 2

Example :ANALYSIS:XY1:MEASURE:CURSOR:Y1?

-> :ANALYSIS:XY1:MEASURE:CURSOR:Y1:

POSITION 1.000E+00

# :ANALysis:XY<x>:MEASure:CURSor:Y<x>: POSition

Function Sets the vertical cursor position of the XY display or

queries the current setting.

Syntax :ANALysis:XY<x>:MEASure:CURSor:Y<x>:

POSition {<NRf>}

:ANALysis:XY<x>:MEASure:CURSor:Y<x>:

POSition?

<x> of XY<x> = 1 or 2 <x> of Y<x> = 1 or 2

 $\langle NRf \rangle = -4 \text{ to } 4 \text{ (div)}$ 

Example :ANALYSIS:XY1:MEASURE:CURSOR:Y1:

POSITION 1

:ANALYSIS:XY1:MEASURE:CURSOR:Y1:
POSITION? -> :ANALYSIS:XY1:MEASURE:

CURSOR: Y1: POSITION 1.000E+00

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# :ANALysis:XY<x>:MEASure:CURSor:Y<x>: VALue?

Function Queries the voltage value at the vertical cursor of the

XY display.

Syntax :ANALysis:XY<x>:MEASure:CURSor:Y<x>:

VALue?

<x> of XY<x> = 1 or 2 <x> of Y<x> = 1 or 2

Example :ANALYSIS:XY1:MEASURE:CURSOR:Y1:VALUE?

-> :ANALYSIS:XY1:MEASURE:CURSOR:Y1:

VALUE 1.000E+00

# :ANALysis:XY<x>:MEASure:MODE

Function Sets the automated measurement mode of the XY display or queries the current setting.

Syntax :ANALysis:XY<x>:MEASure:MODE {CURSor|

OFF | XYINteg }

:ANALysis:XY<x>:MEASure:MODE?

< x > = 1 or 2

Example :ANALYSIS:XY1:MEASURE:MODE CURSOR

:ANALYSIS:XY1:MEASURE:MODE?

-> :ANALYSIS:XY1:MEASURE:MODE CURSOR

#### :ANALysis:XY<x>:MEASure:XYINteg?

Function Queries all settings related to the integration of the XY display.

Syntax :ANALysis:XY<x>:MEASure:XYINteg?

< x > = 1 or 2

Example :ANALYSIS:XY1:MEASURE:XYINTEG?

-> :ANALYSIS:XY1:MEASURE:XYINTEG:

LOOP CLOSE; POLARITY CCW

# :ANALysis:XY<x>:MEASure:XYINteg:LOOP

Function Sets the integration mode of the XY display or queries the current setting.

Syntax :ANALysis:XY<x>:MEASure:XYINteg:LOOP

 $\{\,\texttt{CLOSe}\,|\,\texttt{OPEN}\,\}$ 

:ANALysis:XY<x>:MEASure:XYINteg:LOOP?

< x > = 1 or 2

Example :ANALYSIS:XY1:MEASURE:XYINTEG:

LOOP CLOSE

:ANALYSIS:XY1:MEASURE:XYINTEG:LOOP?
-> :ANALYSIS:XY1:MEASURE:XYINTEG:

LOOP CLOSE

# :ANALysis:XY<x>:MEASure:XYINteg:

# POLarity

Function Sets the integration polarity of the XY display or

queries the current setting.

Syntax :ANALysis:XY<x>:MEASure:XYINteg:

POLarity {CCW|CW}

:ANALysis:XY<x>:MEASure:XYINteg:

POLarity? <x> = 1 or 2

Example :ANALYSIS:XY1:MEASURE:XYINTEG:

POLARITY CCW

:ANALYSIS:XY1:MEASURE:XYINTEG:POLARITY?

-> :ANALYSIS:XY1:MEASURE:XYINTEG:

POLARITY CCW

#### :ANALysis:XY<x>:MEASure:XYINteg:

#### VALue?

Function Queries the integral value of the XY display.

Syntax :ANALysis:XY<x>:MEASure:XYINteg:VALue?

< x > = 1 or 2

Example :ANALYSIS:XY1:MEASURE:XYINTEG:VALUE?

-> :ANALYSIS:XY1:MEASURE:XYINTEG:

VALUE 1.000E+00

# :ANALysis:XY<x>:TRANge (Time Range)

Function Sets the measurement range of the XY display or queries the current setting.

Syntax :ANALysis:XY<x>:TRANge {<NRf>,<NRf>}

:ANALysis:XY<x>:TRANge?

< x > = 1 or 2< NRf > = -5 to 5 div

# :ANALysis:XY<x>:WINDow

Function Sets the measurement source window of the XY

display or queries the current setting.

 $\verb|Syntax| : \verb|ANALysis:XY<x>: \verb|WINDow| {MAIN | Z1 | Z2}| \\$ 

:ANALysis:XY<x>:WINDow?

< x > = 1 or 2

Example :ANALYSIS:XY1:WINDOW MAIN

:ANALYSIS:XY1:WINDOW? -> :ANALYSIS:XY1:

WINDOW MAIN

# :ANALysis:XY<x>:XTRace

Function Sets the X-axis trace of the XY display or queries the

current setting.

Syntax :ANALysis:XY<x>:YTRace {<NRf>}

:ANALysis:XY<x>:YTRace?

< x > = 1 or 2< NRf > = 1 to 8

Example :ANALYSIS:XY1:YTRACE 1

:ANALYSIS:XY1:YTRACE? -> :ANALYSIS:XY1:

YTRACE 1

# :ANALysis:XY<x>:YTRace

Function Sets the Y-axis trace of the XY display or queries the

current setting.

Syntax :ANALysis:XY<x>:YTRace {<NRf>}

:ANALysis:XY<x>:YTRace?

< x > = 1 or 2< NRf > = 1 to 8

Example :ANALYSIS:XY1:YTRACE 1

:ANALYSIS:XY1:YTRACE? -> :ANALYSIS:XY1:

YTRACE 1

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# 5.4 ASETup Group

# :ASETup:EXECute

Function Execute auto setup.

Syntax :ASETup:EXECute

Example :ASETUP:EXECUTE

# :ASETup:UNDO

Function Cancels auto setup that has been executed.

Syntax :ASETup:UNDO
Example :ASETUP:UNDO

# 5.5 CALibrate Group

# :CALibrate?

Function Queries all settings related to the calibration.

Syntax : CALibrate?

Example :CALIBRATE? -> :CALIBRATE:MODE AUTO

#### :CALibrate:EXECute

Function Executes calibration.

Syntax : CALibrate: EXECute

Example : CALIBRATE: EXECUTE

# :CALibrate:MODE

Function Turns ON/OFF the auto calibration or queries the

current setting.

Syntax :CALibrate:MODE {AUTO|OFF}

:CALibrate:MODE?

Example :CALIBRATE:MODE AUTO

:CALIBRATE:MODE? -> :CALIBRATE:

MODE AUTO

# 5.6 CHANnel Group

#### :CHANnel<x>?

Function Queries all settings related to the channel.

Syntax : CHANnel<x>?

< x > = 1 to 4

Example :CHANNEL1? -> :CHANNEL1:SELECT INPUT;

DISPLAY 1; BWIDTH FULL; COUPLING DC;
DESKEW 0.000E+00; INVERT 0; LABEL:
DEFINE "CH1"; MODE 1; : CHANNEL1:
OCANCEL 0; OFFSET 0.000E+00;
POSITION 0.000E+00; PROBE: MODE 1; :
CHANNEL1: SVALUE 0; VDIV 1.000E+00

#### :CHANnel<x>:ASCale[:EXECute]

Function Executes the auto scaling of the channel.

Syntax CHANnel<x>:ASCale[:EXECute]

< x > = 1 to 4

Example CHANNEL1:ASCALE:EXECUTE

#### :CHANnel<x>:BWIDth

Function Sets the input filter of the channel or queries the

current setting.

Syntax :CHANneL<x>:BWIDth {<Frequency>|FULL}

:CHANneL<x>:BWIDth?

< x > = 1 to 4

<Frequency> = See the SB5000 User's Manual

Example : CHANNEL1: BWIDTH FULL

:CHANNEL1:BWIDTH? -> :CHANNEL1:

BWIDTH FULL

#### :CHANnel<x>:COUPling

Function Sets the input coupling of the channel or queries the

current setting

Syntax : CHANneL<x>:COUPling {AC|DC|DC50|GND}

:CHANneL<x>:COUPling?

< x > = 1 to 4

Example : CHANNEL1: COUPLING GND

:CHANNEL1:COUPLING? -> :CHANNEL1:

COUPLING GND

### :CHANnel<x>:DESKew

Function Sets the skew correction of the channel or queries

the current setting.

Syntax :CHANneL<x>:DESKew {<Time>}

:CHANneL<x>:DESKew?

< x > = 1 to 4

<Time> = -80 ns to 80 ns (10 ps steps)

Example : CHANNEL1: DESKEW 1NS

:CHANNEL1:DESKEW? -> :CHANNEL1:

DESKEW 1.000E-09

# :CHANnel<x>:DISPlay

Function Turns ON/OFF the display of the channel or queries

the current setting.

Syntax :CHANneL<x>:DISPlay {<Boolean>}

:CHANneL<x>:DISPlay?

< x > = 1 to 4

Example : CHANNEL1: DISPLAY ON

:CHANNEL1:DISPLAY? -> :CHANNEL1:

DISPLAY 1

#### :CHANnel<x>:INVert

Function Turns ON/OFF the inverted display of the channel or

queries the current setting.

Syntax :CHANneL<x>:INVert {<Boolean>}

:CHANneL<x>:INVert?

< x > = 1 to 4

Example : CHANNEL1: INVERT ON

:CHANNEL1:INVERT -> :CHANNEL1:INVERT 1

#### :CHANnel<x>:LABel?

Function Queries all settings related to the waveform label of

the channel.

Syntax :CHANneL<x>:LABel?

< x > = 1 to 4

Example :CHANNEL1:LABEL? -> :CHANNEL1:LABEL:

DEFINE "CH1"; MODE 0

# :CHANnel<x>:LABel[:DEFine]

Function Sets the waveform label of channel or queries the

current setting.

Syntax :CHANneL<x>:LABel[:DEFine] {<String>}

:CHANneL<x>:LABel[:DEFine]?

< x > = 1 to 4

<String> = Up to 8 characters

Example :CHANNEL1:LABEL:DEFINE "CH1"

:CHANNEL1:LABEL:DEFINE? -> :CHANNEL1:

LABEL: DEFINE "CH1"

# :CHANnel<x>:LABel:MODE

Function Turns ON/OFF the waveform label display of the

channel or queries the current setting.

Syntax :CHANneL<x>:LABel:MODE {<Boolean>}

:CHANneL<x>:LABel:MODE?

< x > = 1 to 4

Example : CHANNEL1: LABEL: MODE ON

:CHANNEL1:LABEL:MODE? -> :CHANNEL1:

LABEL:MODE 1

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#### :CHANnel<x>:OCANcel

Function Turns ON/OFF the offset cancel of the channel or

queries the current setting.

Syntax :CHANneL<x>:OCANcel {<Boolean>}

:CHANneL<x>:OCANcel?

< x > = 1 to 4

Example : CHANNEL1: OCANCEL ON

:CHANNELL1:OCANCEL? -> :CHANNEL1:

OCANCEL 1

#### :CHANnel<x>:OFFSet

Function Sets the offset voltage of the channel or queries the

current setting.

Syntax : CHANneL<x>:OFFSet

{<Voltage>|<Current>}
:CHANneL<x>:OFFSet?

< x > = 1 to 4

<Voltage> and <Current> = See the SB5000 User's

Manual.

Example : CHANNEL1: OFFSET 1V

:CHANNEL1:OFFSET? -> :CHANNEL1:

OFFSET 1.000E+00

#### :CHANnel<x>:POSition

Function Sets the vertical position of the channel or queries the

current setting.

Syntax :CHANneL<x>:POSition {<NRf>}

:CHANneL<x>:POSition?

< x > = 1 to 4

< NRf > = -4 to 4 (div)

Example : CHANNEL1: POSITION 1

:CHANNEL1:POSITION? -> :CHANNEL1:

POSITION 1.000E+00

# :CHANnel<x>:PROBe?

Function Queries all settings related to the probe attenuation

of the channel.

Syntax : CHANneL<x>: PROBe?

< x > = 1 to 4

Example :CHANNEL1:PROBE? -> :CHANNEL1:PROBE:

MODE 1

# :CHANnel<x>:PROBe[:MODE]

Function Sets the probe attenuation of the channel or queries

the current setting.

Syntax : CHANneL<x>:PROBe[:MODE] {<NRf>|AUTO|

C1 | C10 | C100 }

:CHANneL<x>:PROBe[:MODE]?

< x > = 1 to 4

<NRf> = 1,2,5,10,20,50,100,200,500,1000

Example : CHANNEL1: PROBE: MODE 1

:CHANNEL1:PROBE:MODE? -> :CHANNEL1:

PROBE:MODE 1

#### :Channal<x>:PROBe:AUTO?

Function Queries the probe attenuation of the channel when

set to AUTO.

Syntax :Channal<x>:PROBe:AUTO?

< x > = 1 to 4

Example :CHANNEL1:PROBE:AUTO? -> :CHANNEL1:

PROBE: AUTO 1

#### :CHANnel<x>:SELect

Function Sets the waveform (input/computation) to be

assigned to the input channel or queries the current

setting.

Syntax :CHANnel<x>:SELect {INPut | MATH}

:CHANnel<x>:SELect?

< x > = 1 to 4

Example : CHANNEL1: SELECT INPUT

:CHANNEL1:SELECT? -> :CHANNEL1:SELECT

INPUT

#### :CHANnel<x>:SVALue (Scale VALUE)

Function Turns ON/OFF the scale display of the channel or

queries the current setting.

Syntax :CHANnel<x>:SVALue {<Boolean>}

:CHANnel<x>:SVALue?

< x > = 1 to 4

Example : CHANNEL1: SVALUE ON

:CHANNEL1:SVALUE? -> :CHANNEL1:SVALUE 1

# :CHANnel<x>:VDIV

Function Sets the vertical sensitivity (V/div) of the channel or

queries the current setting.

Syntax :CHANnel<x>:VDIV {<Voltage>|<Current>}

:CHANnel<x>:VDIV?

< x > = 1 to 4

<Voltage> and <Current> = See the SB5000 User's

Manual.

Example :CHANNEL1:VDIV 5V

:CHANNEL1:VDIV? -> :CHANNEL1:

VDIV 5.000E+00

# 5.7 CLEar Group

#### :CLEar:ACCumulate

Function Clears accumulated waveforms.

Syntax :CLEar:ACCumulate
Example :CLEAR:ACCUMULATE

#### :CLEar[:HISTory]

Function Clears history waveforms.

Syntax : CLEar [:HISTory]

Example : CLEAR:HISTORY

#### :CLEar:SNAP

Function Clears snapshot waveforms.

Syntax :CLEar:SNAP
Example :CLEAR:SNAP

# 5.8 COMMunicate Group

The commands in this group deal with communications. There are no front panel keys that correspond to the commands in this group.

#### :COMMunicate?

Function Queries all settings related to communications.

Syntax : COMMunicate?

Example :COMMUNICATE? -> :COMMUNICATE:

HEADER 1; OPSE 352; OVERLAP 352; VERBOSE 1

# :COMMunicate:HEADer

Function Sets whether to add a header to the response to a

query (example CHANNEL1:VOLTAGE:PROBE 10) or not add the header (example 10) or queries the

current setting.

Syntax :COMMunicate:HEADer {<Boolean>}

:COMMunicate:HEADer?

Example : COMMUNICATE: HEADER ON

:COMMUNICATE:HEADER? -> :COMMUNICATE:

HEADER 1

# :COMMunicate:LOCKout

Function Sets or clears local lockout.

Syntax :COMMunicate:LOCKout {<Boolean>}

:COMMunicate:LOCKout?

Example : COMMUNICATE: LOCKOUT ON

:COMMUNICATE:LOCKOUT? -> :COMMUNICATE:

LOCKOUT 1

Description This command is dedicated to the USB and Ethernet

interface (option).

# :COMMunicate:OPSE

# (Operation Pending Status Enable register)

Function Sets the overlap command that is used by the \*OPC,

\*OPC?, and \*WAI commands or queries the current

setting.

Syntax :COMMunicate:OPSE <Register>

:COMMunicate:OPSE?

<Register> = 0 to 65535, :COMMunicate:OVERlap

See the command diagram.

Example : COMMUNICATE: OPSE 65535

:COMMUNICATE:OPSE? -> :COMMUNICATE:

OPSE 2400

Description In the above example, all bits are set to 1 to make all

overlap commands applicable. However, bits fixed to 0 are not set to 1. Thus, the response to the query

indicates 1 for bits 5, 6, 8, and 11 only.

# :COMMunicate:OPSR?

# (Operation Pending Status Register)

Function Queries the value of the operation pending status

register.

Syntax : COMMunicate: OPSR?

Example :COMMUNICATE:OPSR? -> 0

Description For details on the operation pending status register,

see the figure for the :COMMunicate:OVERlap

command.

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#### :COMMunicate:OVERlap

Function Sets the commands to operate as overlap commands

or queries the current setting.

Syntax : COMMunicate: OVERlap < Register>

 $: {\tt COMMunicate:OVERlap?}$ 

<Register> = 0 to 65535

Example : COMMUNICATE: OVERLAP 65535

:COMMUNICATE:OVERLAP? -> :COMMUNICATE:

OVERLAP 2400

Description • In the above example, all bits are set to 1 to make all overlap commands applicable. However, bits fixed to 0 are not set to 1. Thus, the response to the query indicates 1 for bits 5, 6, 8, and 11 only.

- For the description of how to synchronize the program using :COMMunicate:OVERlap, see page 4-7
- In the above example, bits 5, 6, 8, and 11 are set to 1 to make all overlap commands applicable.

Operation pending status register/overlap enable register

When bit 5 (PRN) = 1:

Built-in printer operation not complete

When bit 6 (ACS) = 1:

Access to the medium not complete.

When bit 8 (HST) = 1:

History search execution not complete

When bit 11 (SCH) = 1:

Search execution not complete

#### :COMMunicate:REMote

Function Sets remote or local. ON is remote mode.

Syntax :COMMunicate:REMote {<Boolean>}

:COMMunicate:REMote?

Example : COMMUNICATE: REMOTE ON

:COMMUNICATE:REMOTE? -> :COMMUNICATE:

REMOTE 1

Description This command is dedicated to the USB and Ethernet

interface (option).

#### :COMMunicate:STATus?

ction Queries line-specific status.

Syntax : COMMunicate: STATus?

Example :COMMUNICATE:STATUS? -> :COMMUNICATE:

STATUS 0

Description The meaning of each status bit is as follows:

Bit GP-IB

0 Unrecoverable transmission error

1 Always 0 2 Always 0 3 or greater Always 0

For USB and Ethernet communications, 0 is always  $\,$ 

returned.

The status bit is set when the corresponding cause

occurs and cleared when it is read.

#### :COMMunicate:VERBose

Function Sets whether to return the response to a query using

full spelling (example CHANNEL1:VOLTAGE:PROBE 10) or using abbreviation (example CHAN:PROB 10)

or queries the current setting.

Syntax :COMMunicate:VERBose {<Boolean>}

:COMMunicate:VERBose?

Example : COMMUNICATE: VERBOSE ON

:COMMUNICATE:VERBOSE? -> :COMMUNICATE:

VERBOSE 1

# :COMMunicate:WAIT

Function Waits for one of the specified extended events to

occur

Syntax :COMMunicate:WAIT <Register>

<Register> = 0 to 65535 (extended event register,

see page 6-4.)

Example : COMMUNICATE: WAIT 65535

Description For the description of how to synchronize the program

using :COMMunicate:WAIT, see page 4-8.

### :COMMunicate:WAIT?

Function Creates the response that is returned when the

specified event occurs.

Syntax :COMMunicate:WAIT? <Register>

<Register> = 0 to 65535 (extended event register,

see page 6-4.)

Example :COMMUNICATE:WAIT? 65535 -> 1

# 5.9 CURSor Group

#### :CURSor? :CURSor:HORizontal:BASic? Queries all settings related to the cursor Function Queries all settings related to basic items of the Function horizontal cursors. measurement. Syntax :CURSor? :CURSor:HORizontal:BASic? Syntax Example :CURSOR? -> :CURSOR:DISPLAY 1; Example :CURSOR:HORIZONTAL:BASIC? -> :CURSOR: HORIZONTAL: BASIC: DV: STATE 1; : CURSOR: HORIZONTAL: BASIC: DV: STATE 1;: HORIZONTAL: BASIC: LINKAGE 1; V1: CURSOR: HORIZONTAL: BASIC: LINKAGE 1; V1: POSITION 1.000E+00; STATE 0; : CURSOR: POSITION 1.000E+00; STATE 0; : CURSOR: HORIZONTAL: BASIC: V2: POSITION 1.000E+00; HORIZONTAL: BASIC: V2: POSITION 1.000E+00; STATE 0 STATE 0;:CURSOR:HORIZONTAL:CALCULATION: DEFINE1 "V1"; DEFINE2 "V2"; DEFINE3 "V1"; DEFINE4 "V2"; STATE1 0; STATE2 0; :CURSor:HORizontal[:BASic]:ALL STATE3 0:STATE4 0::CURSOR:HORIZONTAL: Function Turns ON/OFF all basic items of the horizontal TRACE 1;:CURSOR:MARKER:CALCULATION: cursors. DEFINE1 "T2"; DEFINE2 "V2"; DEFINE3 "V3"; :CURSor:HORizontal[:BASic]:ALL Syntax DEFINE4 "V4"; STATE1 0; STATE2 0; {<Boolean>} STATE3 0; STATE4 0; :CURSOR: MARKER: CM1: Example :CURSOR:HORIZONTAL:BASIC:ALL ON DT2:STATE 1;:CURSOR:MARKER:CM1:DT3: STATE 1;:CURSOR:MARKER:CM1:DT4: :CURSor:HORizontal[:BASic]:DV? STATE 1;:CURSOR:MARKER:CM1:DV2: Function Queries all settings related to the $\Delta V$ measurement of STATE 1;:CURSOR:MARKER:CM1:DV3: the horizontal cursors. STATE 1;:CURSOR:MARKER:CM1:DV4: :CURSor:HORizontal[:BASic]:DV? Syntax STATE 1;:CURSOR:MARKER:CM1: Example :CURSOR:HORIZONTAL:BASIC:DV? POSITION 1.000E+00:T:STATE 1::CURSOR: -> :CURSOR:HORIZONTAL:BASIC:DV:STATE 1 MARKER: CM1: TRACE 1; V: STATE 1; : CURSOR: MARKER: CM2: DT1: STATE 1; : CURSOR: MARKER: :CURSor:HORizontal[:BASic]:DV:STATe CM2:DT3:STATE 1;:CURSOR:MARKER:CM2:DT4: Turns ON/OFF the ΔV measurement of the horizontal Function STATE 1;:CURSOR:MARKER:CM2:DV1: cursors or queries the current setting. STATE 1;:CURSOR:MARKER:CM2:DV3: Syntax :CURSor:HORizontal[:BASic]:DV:STATe STATE ..... {<Boolean>} :CURSor:HORizontal[:BASic]:DV:STATe? :CURSor:DISPlay Example : CURSOR: HORIZONTAL: BASIC: DV: STATE ON Function Turns ON/OFF the cursor or queries the current :CURSOR:HORIZONTAL:BASIC:DV:STATE? setting. -> :CURSOR:HORIZONTAL:BASIC:DV:STATE 1 :CURSor:DISPlay {<Boolean>} Syntax :CURSor:DISPlay? :CURSor:HORizontal[:BASic]:DV:VALue? Example : CURSOR: DISPLAY ON Function Queries the voltage value between the horizontal :CURSOR:DISPLAY? -> :CURSOR:DISPLAY 1 cursors. Syntax :CURSor:HORizontal[:BASic]:DV:VALue? :CURSor:HORizontal? Example :CURSOR:HORIZONTAL:BASIC:DV:VALUE? Function Queries all settings related to the horizontal cursors. -> : CURSOR: HORIZONTAL: BASIC: DV: Syntax :CURSor:HORizontal? VALUE 1.000E+00 Example :CURSOR:HORIZONTAL? -> :CURSOR: HORIZONTAL: BASIC: DV: STATE 1;: :CURSor:HORizontal[:BASic]:LINKage CURSOR: HORIZONTAL: BASIC: LINKAGE 1; V1: Function Turns ON/OFF the horizontal cursor link or queries POSITION 1.000E+00; STATE 0; : CURSOR: the current setting. HORIZONTAL: BASIC: V2: POSITION 1.000E+00; :CURSor:HORizontal[:BASic]: Syntax STATE 0;:CURSOR:HORIZONTAL: LINKage { < Boolean > } CALCULATION: DEFINE1 "V1"; DEFINE2 "V2"; :CURSor:HORizontal[:BASic]:LINKage? DEFINE3 "V1"; DEFINE4 "V2"; STATE1 0; Example : CURSOR: HORIZONTAL: BASIC: LINKAGE ON STATE2 0; STATE3 0; STATE4 0; : CURSOR: :CURSOR:HORIZONTAL:BASIC:LINKAGE? HORIZONTAL: TRACE 1 -> :CURSOR:HORIZONTAL:BASIC:LINKAGE 1

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#### :CURSor:HORizontal[:BASic]:V<x>?

Function Queries all settings related to the horizontal cursor.

Syntax :CURSor:HORizontal[:BASic]:V<x>?

< x > = 1 or 2

Example :CURSOR:HORIZONTAL:BASIC:V1?

-> :CURSOR:HORIZONTAL:BASIC:V1: POSITION 1.000E+00;STATE 1

#### :CURSor:HORizontal[:BASic]:V<x>:JUMP

Function Jumps the horizontal cursor to the center position of

the zoom waveform.

Syntax :CURSor:HORizontal[:BASic]:V<x>:

JUMP  $\{Z1 | Z2\}$  <x>=1 or 2

Example :CURSOR:HORIZONTAL:BASIC:V1:JUMP Z1

# :CURSor:HORizontal[:BASic]:V<x>: POSition

Function Sets the horizontal cursor position or queries the

current setting.

Syntax :CURSor:HORizontal[:BASic]:V<x>:

POSition {<NRf>}

:CURSor:HORizontal[:BASic]:V<x>:

POSition? <x> = 1 or 2

<NRf> = -4 to 4 (div)

Example : CURSOR: HORIZONTAL: BASIC: V1: POSITION 1

:CURSOR:HORIZONTAL:BASIC:V1:POSITION?

-> :CURSOR:HORIZONTAL:BASIC:V1:

POSITION 1.000E+00

# :CURSor:HORizontal[:BASic]:V<x>:

Function Turns ON/OFF the horizontal cursor or queries the current setting.

Syntax :CURSor:HORizontal[:BASic]:V<x>:STATe

{<Boolean>}

:CURSor:HORizontal[:BASic]:V<x>:STATe?

< x > = 1 or 2

Example :CURSOR:HORIZONTAL:BASIC:V1:STATE ON

:CURSOR:HORIZONTAL:BASIC:V1:STATE?
-> :CURSOR:HORIZONTAL:BASIC:V1:STATE 1

#### :CURSor:HORizontal[:BASic]:V<x>:

# VALue?

STATe

Function Queries the voltage value at the horizontal cursor.

Syntax :CURSor:HORizontal[:BASic]:V<x>:VALue?

< x > = 1 or 2

Example :CURSOR:HORIZONTAL:BASIC:V1:VALUE?

-> :CURSOR:HORIZONTAL:BASIC:V1:

VALUE 1.000E+00

#### :CURSor:HORizontal:CALCulation?

Function Queries all settings related to calculation items of the horizontal cursors.

DEFINE4 "V2"; STATE1 0; STATE2 0;

STATE3 0;STATE4 0

# :CURSor:HORizontal:CALCulation:ALL

Function Turns ON/OFF all calculation items of the horizontal

cursors.

Syntax :CURSor:HORizontal:CALCulation:

ALL {<Boolean>}

Example : CURSOR: HORIZONTAL: CALCULATION: ALL ON

# :CURSor:HORizontal:CALCulation:

#### DEFine<x>

Function Sets the equation of the calculation item of the horizontal cursor or queries the current setting.

Syntax :CURSor:HORizontal:CALCulation:

DEFine<x> {<String>}

:CURSor:HORizontal:CALCulation:

DEFine<x>?

<String> = Up to 128 characters

Example :CURSOR:HORIZONTAL:CALCULATION:

DEFINE1 "V1"

:CURSOR:HORIZONTAL:CALCULATION:DEFINE1?

-> : CURSOR: HORIZONTAL: CALCULATION:

DEFINE1 "V1"

#### :CURSor:HORizontal:CALCulation:

# STATe<x>

Function Turns ON/OFF the calculation item of the horizontal

cursor or queries the current setting.

Syntax :CURSor:HORizontal:CALCulation:

STATe<x> {<Boolean>}

:CURSor:HORizontal:CALCulation:

STATe < x > ? < x > = 1 to 4

Example :CURSOR:HORIZONTAL:CALCULATION:

STATE1 ON

: CURSOR: HORIZONTAL: CALCULATION: STATE1?

-> : CURSOR: HORIZONTAL: CALCULATION:

STATE1 1

#### :CURSor:HORizontal:CALCulation:

#### VALue<x>?

Function Queries the measured value of the calculation item of

the horizontal cursor.

Syntax :CURSor:HORizontal:CALCulation:

VALue < x > ? < x > = 1 to 4

Example : CURSOR: HORIZONTAL: CALCULATION: VALUE1?

-> : CURSOR: HORIZONTAL: CALCULATION:

VALUE1 0.000E+00

# :CURSor:HORizontal:TRACe

Function Sets the source trace of the horizontal cursor or

queries the current setting.

Syntax :CURSor:HORizontal:TRACe {<NRf>}

:CURSor:HORizontal:TRACe?

< NRf > = 1 to 8

Example :CURSOR:HORIZONTAL:TRACE 1

:CURSOR:HORIZONTAL:TRACE? -> :CURSOR:

HORIZONTAL: TRACE 1

#### :CURSor:MARKer?

Function Queries all settings related to the marker cursors.

Syntax : CURSor: MARKer?

Example :CURSOR:MARKER? -> :CURSOR:MARKER:

CALCULATION:DEFINE1 "T2";DEFINE2 "V2";

DEFINE3 "V3"; DEFINE4 "V4"; STATE1 0;

STATE2 0;STATE3 0;STATE4 0;:CURSOR:

MARKER: CM1: DT2: STATE 1;: CURSOR: MARKER:

CM1:DT3:STATE 1;:CURSOR:MARKER:CM1:DT4:

STATE 1;:CURSOR:MARKER:CM1:DV2:

STATE 1;:CURSOR:MARKER:CM1:DV3:

STATE 1;:CURSOR:MARKER:CM1:DV4:

STATE 1;:CURSOR:MARKER:CM1:

POSITION 1.000E+00;T:STATE 1;:CURSOR:

MARKER: CM1: TRACE 1; V: STATE 1; : CURSOR:

MARKER: CM2: DT1: STATE 1;: CURSOR: MARKER:

CM2:DT3:STATE 1;:CURSOR:MARKER:CM2:DT4:

STATE 1;:CURSOR:MARKER:CM2:DV1:

STATE 1;:CURSOR:MARKER:CM2:DV3:

STATE 1;:CURSOR:MARKER:CM2:DV4:

STATE 1;:CURSOR:MARKER:CM2:

POSITION 1.000E+00; T:STATE 1; :CURSOR:

MARKER:CM2:TRACE 1;V:STATE 1;:CURSOR:

MARKER: CM3: DT1: STATE 1; : CURSOR: MARKER:

CM3:DT2:STATE 1;:CURSOR:MARKER:CM3:DT4:

STATE 1;:CURSOR:MARKER:CM3:DV1:

STATE 1;:CURSOR:MARKER:CM3:DV2:

STATE .....

# :CURSor:MARKer:CALCulation?

Function Queries all settings related to calculation items of the

marker cursors.

Syntax :CURSor:MARKer:CALCulation?

Example :CURSOR:MARKER:CALCULATION? -> :CURSOR:

MARKER: CALCULATION: DEFINE1 "T2";

DEFINE2 "V2"; DEFINE3 "V3";

DEFINE4 "V4"; STATE1 0; STATE2 0;

STATE3 0;STATE4 0

#### :CURSor:MARKer:CALCulation:ALL

Function Turns ON/OFF all calculation items of the marker

cursors.

Syntax : CURSor: MARKer: CALCulation:

ALL {<Boolean>}

Example : CURSOR: MARKER: CALCULATION: ALL ON

#### :CURSor:MARKer:CALCulation:DEFine<x>

Function Sets the equation of the calculation item of the

marker cursors or queries the current setting.

:CURSor:MARKer:CALCulation:DEFine<x>?

< x > = 1 to 4

<String> = Up to 128 characters

Example :CURSOR:MARKER:CALCULATION:DEFINE1 "T1"

: CURSOR: MARKER: CALCULATION: DEFINE1?

-> : CURSOR: MARKER: CALCULATION:

DEFINE1 "T1"

#### :CURSor:MARKer:CALCulation:STATe<x>

Function Turns ON/OFF the calculation item of the marker

cursors or queries the current setting.

Syntax :CURSor:MARKer:CALCulation:STATe<x>

{<Boolean>}

:CURSor:MARKer:CALCulation:STATe<x>?

< x > = 1 to 4

Example : CURSOR: MARKER: CALCULATION: STATE1 ON

:CURSOR:MARKER:CALCULATION:STATE1?

-> :CURSOR:MARKER:CALCULATION:STATE1 1

# :CURSor:MARKer:CALCulation:VALue<x>?

Function Queries the measured value of the calculation item of

the marker cursors.

Syntax :CURSor:MARKer:CALCulation:VALue<x>?

< x > = 1 to 4

Example :CURSOR:MARKER:CALCULATION:VALUE1?

-> : CURSOR: MARKER: CALCULATION: VALUE1

0.000E+00

# :CURSor:MARKer:CM<x>?

Function Queries all settings related to the marker cursor.

Syntax : CURSor:MARKer:CM<x>?

< x > = 1 to 4

Example :CURSOR:MARKER:CM1? -> :CURSOR:MARKER:

CM1:DT2:STATE 1;:CURSOR:

MARKER: CM1: DT3: STATE 1;: CURSOR: MARKER:

CM1:DT4:STATE 1;:CURSOR:MARKER:CM1:DV2:

STATE 1;:CURSOR:MARKER:CM1:DV3: STATE 1;:CURSOR:MARKER:CM1:DV4:

STATE 1;:CURSOR:MARKER:CM1:

POSITION 1.000E+00; T:STATE 1; :CURSOR:

MARKER: CM1: TRACE 1; V: STATE 1

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#### :CURSor:MARKer:CM<x>:ALL

Function Turns ON/OFF all items of the marker cursor. Syntax :CURSor:MARKer:CM<x>ALL {<Boolean>}

< x > = 1 to 4

Example : CURSOR: MARKER: CM1: ALL ON

#### :CURSor:MARKer:CM<x>:DT<x>?

Function Queries all settings related to the ΔT measurement of

the cursor marker.

:CURSor:MARKer:CM<x>:DT<x>? Syntax

> < x > of CM < x > = 1 to 4< x > of DT < x > = 1 to 4

Example :CURSOR:MARKER:CM1:DT1? -> :CURSOR:

MARKER: CM1: DT1: STATE 1

#### :CURSor:MARKer:CM<x>:DT<x>:STATe

Function Turns ON/OFF the ΔT measurement of the maker

cursor or queries the current setting.

Syntax :CURSor:MARKer:CM<x>:DT<x>:STATe

{<Boolean>}

:CURSor:MARKer:CM<x>:DT<x>:STATe?

< x > of CM < x > = 1 to 4< x > of DT < x > = 1 to 4

Example : CURSOR: MARKER: CM1: DT2: STATE ON

:CURSOR:MARKER:CM1:DT2:STATE? -> :CURSOR:MARKER:CM1:DT2:STATE 1

#### :CURSor:MARKer:CM<x>:DT<x>:VALue?

Function Queries the  $\Delta T$  value of the marker cursor.

Syntax :CURSor:MARKer:CM<x>:DT<x>:VALue?

> <x> of CM<x> = 1 to 4 < x > of DT < x > = 1 to 4

Example :CURSOR:MARKER:CM1:DT2:VALUE?

-> :CURSOR:MARKER:CM1:DT2:

VALUE 0.000E+00

# :CURSor:MARKer:CM<x>:DV<x>?

Function Queries all settings related to the ΔV measurement of

the cursor marker.

Syntax :CURSor:MARKer:CM<x>:DV<x>?

> < x > of CM < x > = 1 to 4< x > of DV < x > = 1 to 4

Example :CURSOR:MARKER:CM1:DV2? -> :CURSOR:

MARKER: CM1: DV2: STATE 1

#### :CURSor:MARKer:CM<x>:DV<x>:STATe

Function Turns ON/OFF the  $\Delta V$  measurement of the maker

cursor or queries the current setting.

:CURSor:MARKer:CM<x>:DV<x>:STATe Syntax

{<Boolean>}

:CURSor:MARKer:CM<x>:DV<x>:STATe?

< x > of CM < x > = 1 to 4< x > of DV < x > = 1 to 4

Example : CURSOR: MARKER: CM1: DV2: STATE ON

:CURSOR:MARKER:CM1:DV2:STATE? -> :CURSOR:MARKER:CM1:DV2:STATE 1

#### :CURSor:MARKer:CM<x>:DV<x>:VALue?

Function Queries the  $\Delta V$  value of the marker cursor.

Syntax :CURSor:MARKer:CM<x>:DV<x>:VALue?

< x > of CM < x > = 1 to 4< x > of DV < x > = 1 to 4

Example : CURSOR: MARKER: CM1: DV2: VALUE?

-> :CURSOR:MARKER:CM1:DV2:VALUE 0

#### :CURSor:MARKer:CM<x>:JUMP

Function Jumps the marker cursor to the center position of the

zoom waveform.

:CURSor:MARKer:CM<x>:JUMP {Z1 | Z2} Syntax

< x > = 1 to 4

Example : CURSOR: MARKER: CM1: JUMP Z1

# :CURSor:MARKer:CM<x>:POSition

Function Sets the marker cursor position or queries the current

:CURSor:MARKer:CM<x>:POSition {<NRf>} Syntax

:CURSor:MARKer:CM<x>:POSition?

< x > = 1 to 4 $\langle NRf \rangle = -5$  to 5 div

Example : CURSOR: MARKER: CM1: POSITION 1

:CURSOR:MARKER:CM1:POSITION?

-> :CURSOR:MARKER:CM1:POSITION 1.000E+00

#### :CURSor:MARKer:CM<x>:T?

Function Queries all settings related to the time measurement

of the marker cursor.

Syntax :CURSor:MARKer:CM<x>:T?

< x > = 1 to 4

Example :CURSOR:MARKER:CM1:T? -> :CURSOR:

MARKER: CM1:T:STATE 1

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#### :CURSor:MARKer:CM<x>:T:STATe

Function Turns ON/OFF the time measurement of the maker

cursor or queries the current setting.

Syntax :CURSor:MARKer:CM<x>:T:STATe

{<Boolean>}

:CURSor:MARKer:CM<x>:T:STATe?

< x > = 1 to 4

Example :CURSOR:MARKER:CM1:T:STATE ON

:CURSOR:MARKER:CM1:T:STATE? -> :CURSOR:

MARKER: CM1: T: STATE 1

#### :CURSor:MARKer:CM<x>:T:VALue?

Function Queries the time value at the marker cursor position.

Syntax :CURSor:MARKer:CM<x>:T:VALue?

< x > = 1 to 4

Example :CURSOR:MARKER:CM1:T:VALUE? -> :CURSOR:

MARKER: CM1: T: VALUE 0.000E+00

# :CURSor:MARKer:CM<x>:TRACe

Function Sets the source trace of the marker cursor or queries

the current setting.

Syntax :CURSor:MARKer:CM<x>:TRACe {<NRf>|OFF}

:CURSor:MARKer:CM<x>:TRACe?

< x > = 1 to 4

<NRf> = 1 to 8

Example :CURSOR:MARKER:CM1:TRACE 1

:CURSOR:MARKER:CM1:TRACE? -> :CURSOR:

MARKER: CM1: TRACE 1

# :CURSor:MARKer:CM<x>:V?

Function Queries all settings related to the voltage

measurement of the marker cursor.

Syntax :CURSor:MARKer:CM<x>:V?

< x > = 1 to 4

Example :CURSOR:MARKER:CM1:V? -> :CURSOR:

MARKER: CM1: V: STATE 1

# :CURSor:MARKer:CM<x>:V:STATe

Function Turns ON/OFF the voltage measurement of the

maker cursor or queries the current setting.

Syntax :CURSor:MARKer:CM<x>:V:STATe

{<Boolean>}

:CURSor:MARKer:CM<x>:V:STATe?

< x > = 1 to 4

Example :CURSOR:MARKER:CM1:V:STATE ON

:CURSOR:MARKER:CM1:V:STATE? -> :CURSor:

MARKER: CM1: V: STATE 1

# :CURSor:MARKer:CM<x>:V:VALue?

Function Queries the voltage value at the marker cursor

position.

Syntax : CURSor:MARKer:CM<x>:V:VALue?

< x > = 1 to 4

Example :CURSOR:MARKER:CM1:V:VALUE? -> :CURSOR:

MARKER: CM1: V: VALUE 0.000E+00

#### :CURSor:MARKer:FORM

Function Sets the marker cursor form or queries the current

setting.

Syntax :CURSor:MARKer:FORM {LINE|MARK}

:CURSor:MARKer:FORM?

Example : CURSOR: MARKER: FORM LINE

:CURSOR:MARKER:FORM?

-> :CURSOR:MARKER:FORM LINE

#### :CURSor:SERial?

Function Queries all settings related to the serial cursors.

Syntax :CURSor:SERial?

Example :CURSOR:SERIAL? -> :CURSOR:SERIAL:

SCURSOR1: ACTIVE HIGH; BCOUNT 8;

BITRATE 10.00E+00; BITORDER MSBFIRST;

FORMAT BINARY; HYSTERESIS 1.000E+00;

LEVEL 0.000E+00; MODE 1;

POSITION -4.000E+00; TRACE 1; TRACK OFF;:

CURSOR: SERIAL: SCURSOR2: ACTIVE HIGH;

BCOUNT 8;BITRATE 1.000E+00;

BITORDER MSBFIRST; FORMAT BINARY;

HYSTERESIS 3.000E+00; LEVEL 0.000E+00;

MODE 0; POSITION -4.000E+00; TRACE 2;

TRACK OFF

# :CURSor:SERial:SCURsor<x>?

Function Queries all settings related to the serial cursor.

Syntax :CURSor:SERial:SCURsor<x>?

< x > = 1 or 2

Example :CURSOR:SERIAL:SCURSOR1? -> :CURSOR:

SERIAL:SCURSOR1:ACTIVE HIGH; BCOUNT 8;BITRATE 1.25E+06;

BITORDER MSBFIRST; FORMAT BINARY;

HYSTERESIS 300.00E-03; LEVEL 0.000E+00;

MODE 1; POSITION -4.00E+00; TRACE 1;

TRACK OFF

# :CURSor:SERial:SCURsor<x>:ACTive

Function Sets the active level of the serial cursor or queries the

current setting.

Syntax :CURSor:SERial:SCURsor<x>:ACTive {HIGH|

LOW }

:CURSor:SERial:SCURsor<x>:ACTive?

< x > = 1 or 2

Example :CURSOR:SERIAL:SCURSOR1:ACTIVE HIGH

:CURSOR:SERIAL:SCURSOR1:ACTIVE?

-> :CURSOR:SERIAL:SCURSOR1:ACTIVE HIGH

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#### :CURSor:SERial:SCURsor<x>:BCOunt

Function Sets the bit length of the serial cursor or queries the current setting.

Syntax :CURSor:SERial:SCURsor<x>:BCOunt

{ < NRf > }

:CURSor:SERial:SCURsor<x>:BCOunt?

< x > = 1 or 2

<NRf> = 1 to 128 (bits)

Example :CURSOR:SERIAL:SCURSOR1:BCOUNT 8

:CURSOR:SERIAL:SCURSOR1:BCOUNT?
-> :CURSOR:SERIAL:SCURSOR1:BCOUNT 8

#### :CURSor:SERial:SCURsor<x>:BITRate

Function Sets the bit rate of the serial cursor or queries the current setting.

Syntax :CURSor:SERial:SCURsor<x>:BITRate

{<NRf>}

:CURSor:SERial:SCURsor<x>:BITRate?

< x > = 1 or 2

<NRf> = 1 to 1 G (bps)

Example :CURSOR:SERIAL:SCURSOR1:BITRATE 10

:CURSOR:SERIAL:SCURSOR1:BITRATE?
-> :CURSOR:SERIAL:SCURSOR1:

BITRATE 10.00E+00

#### :CURSor:SERial:SCURsor<x>:BITorder

Function Sets the bit order of the serial cursor or queries the current setting.

Syntax :CURSor:SERial:SCURsor<x>:BITorder

{LSBFirst | MSBFirst}

:CURSor:SERial:SCURsor<x>:BITorder?

< x > = 1 or 2

Example :CURSOR:SERIAL:SCURSOR1:

BITORDER LSBFIRST

:CURSOR:SERIAL:SCURSOR1:BITORDER?

-> :CURSOR:SERIAL:SCURSOR1:

BITORDER LSBFIRST

#### :CURSor:SERial:SCURsor<x>:FORMat

Function Sets the display format of the serial cursor or queries the current setting.

Syntax :CURSor:SERial:SCURsor<x>:FORMat

{BINary|HEXa}

:CURSor:SERial:SCURsor<x>:FORMat?

< x > = 1 or 2

Example : CURSOR: SERIAL: SCURSOR1: FORMAT HEXA

:CURSOR:SERIAL:SCURSOR1:FORMAT?

-> :CURSOR:SERIAL:SCURSOR1:FORMAT HEXA

#### :CURSor:SERial:SCURsor<x>:HYSTeresis

Function Sets the hysteresis of the serial cursor or queries the current setting.

Syntax :CURSor:SERial:SCURsor<x>:

HYSTeresis {<NRf>}

:CURSor:SERial:SCURsor<x>:HYSTeresis?

< x > = 1 or 2

<NRf> = 0 to 4 (div)

Example :CURSOR:SERIAL:SCURSOR1:HYSTERESIS 1

:CURSOR:SERIAL:SCURSOR1:HYSTERESIS?

-> :CURSOR:SERIAL:SCURSOR1:

HYSTERESIS 1.000E+00

#### :CURSor:SERial:SCURsor<x>:JUMP

Function Moves the serial cursor to the specified direction.

Syntax :CURSor:SERial:SCURsor<x>:JUMP

 ${BACK | FRONt}$ <x> = 1 or 2

Example :CURSOR:SERIAL:SCURSOR1:JUMP BACK

#### :CURSor:SERial:SCURsor<x>:LEVel

Function Sets the threshold level of the serial cursor or queries the current setting.

Syntax :CURSor:SERial:SCURsor<x>:
 LEVel {<Voltage>|<Current>}
 :CURSor:SERial:SCURsor<x>:LEVel?

< x > = 1 or 2

<Voltage> and <Current> = See the SB5000 User's

Manual.

Example :CURSOR:SERIAL:SCURSOR1:LEVEL 0V
:CURSOR:SERIAL:SCURSOR1:LEVEL?
-> :CURSOR:SERIAL:SCURSOR1:

LEVEL 0.000E+00

# :CURSor:SERial:SCURsor<x>:MODE

Function Turns ON/OFF the serial cursor or queries the current setting.

Syntax :CURSor:SERial:SCURsor<x>:

MODE {<Boolean>}

:CURSor:SERial:SCURsor<x>:MODE?

< x > = 1 or 2

#### :CURSor:SERial:SCURsor<x>:POSition

Function Sets the serial cursor position or queries the current setting.

Syntax :CURSor:SERial:SCURsor<x>:

POSition {<NRf>}

:CURSor:SERial:SCURsor<x>:POSition?

<x> = 1 or 2<NRf> = -5 to 5 div

Example :CURSOR:SERIAL:SCURSOR1:POSITION 1

:CURSOR:SERIAL:SCURSOR1:POSITION?

-> :CURSOR:SERIAL:SCURSOR1:

POSITION 1.000E+00

#### :CURSor:SERial:SCURsor<x>:TRACE

Function Sets the trace of the serial cursor or queries the

current setting.

Syntax :CURSor:SERial:SCURsor<x>:TRACE {<NRf>|

A < y > |B < y > |C < y > |D < y >

:CURSor:SERial:SCURsor<x>:TRACE?

<x> = 1 or 2<NRf> = 1 to 8<y> = 0 to 7

Example :CURSOR:SERIAL:SCURSOR1:TRACE 1

:CURSOR:SERIAL:SCURSOR1:TRACE?

-> :CURSOR:SERIAL:SCURSOR1:TRACE 1

Description For the SB5310, only {<NRf>|A<y>} are valid.

#### :CURSor:SERial:SCURsor<x>:TRACK

Function Jumps the serial cursor onto the zoom waveform.

Syntax :CURSor:SERial:SCURsor<x>:TRACK {OFF|

Z1 | Z2 }

:CURSor:SERial:SCURsor<x>:TRACK?

< x > = 1 or 2

Example :CURSOR:SERIAL:SCURSOR1:TRACK OFF

:CURSOR:SERIAL:SCURSOR1:TRACK?

-> :CURSOR:SERIAL:SCURSOR1:TRACK OFF

#### :CURSor:SERial:SCURsor<x>:VALue?

Function Queries the measured value of the serial cursor.

Syntax :CURSor:SERial:SCURsor<x>:VALue?

< x > = 1 or 2

Example :CURSOR:SERIAL:SCURSOR1:VALUE?

-> :CURSOR:SERIAL:SCURSOR1:

VALUE "11000111"

#### :CURSor:TYPE

Function Sets the cursor type or queries the current setting.

Syntax :CURSor:TYPE {HORizontal|HAVertical|

MARKer|SERial|VERTical|VT}

:CURSor:TYPE?

Example : CURSOR: TYPE HORIZONTAL

:CURSOR:TYPE? -> :CURSOR:TYPE HORIZONTAL

# :CURSor:VERTical?

Function Queries all settings related to the vertical cursors.

Syntax : CURSor: VERTical?

Example :CURSOR:VERTICAL? -> :CURSOR:VERTICAL:

BASIC:IINKAGE 1:DEPOT:STATE 1:CURSOR

BASIC:LINKAGE 1;PERDT:STATE 1;:CURSOR:

VERTICAL:BASIC:T1:POSITION -4.000E+00;

STATE 1;:CURSOR:VERTICAL:BASIC:T2:

POSITION -4.000E+00;STATE 1;:CURSOR:

VERTICAL:CALCULATION:DEFINE1 "T1"; DEFINE2 "T2";DEFINE3 "T1";DEFINE4 "T2";

STATE1 0;STATE2 0;STATE3 0;STATE4 0

#### :CURSor:VERTical:BASic?

Function Queries all settings related to basic items of the vertical cursors.

Syntax : CURSor: VERTical: BASic?

Example :CURSOR:VERTICAL:BASIC? -> :CURSOR:

VERTICAL: BASIC: DT: STATE 1;:

CURSOR: VERTICAL: BASIC: LINKAGE 1; PERDT: STATE 1;: CURSOR: VERTICAL: BASIC: T1:

POSITION -4.000E+00; STATE 1;: CURSOR: VERTICAL: BASIC: T2: POSITION -4.000E+00;

STATE 1

#### :CURSor:VERTical[:BASic]:ALL

Function Turns ON/OFF all basic items of the vertical cursors.

Syntax :CURSor:VERTical[:BASic]:

ALL {<Boolean>}

Example :CURSOR:VERTICAL:BASIC:ALL ON

#### :CURSor:VERTical[:BASic]:DT?

Function Queries all settings related to the  $\Delta T$  measurement of the vertical cursors.

Syntax :CURSor:VERTical[:BASic]:DT?

Example :CURSOR:VERTICAL:BASIC:DT? -> :CURSOR:

VERTICAL:BASIC:DT:STATE 1

## :CURSor:VERTical[:BASic]:DT:STATe

Function  $\;\;$  Turns ON/OFF the  $\Delta T$  measurement of the vertical

cursors or queries the current setting.

Syntax :CURSor:VERTical[:BASic]:DT:

STATe {<Boolean>}

:CURSor:VERTical[:BASic]:DT:STATe?

Example :CURSOR:VERTICAL:BASIC:DT:STATE ON

:CURSOR:VERTICAL:BASIC:DT:STATE?

-> :CURSOR:VERTICAL:BASIC:DT:STATE 1

#### :CURSor:VERTical[:BASic]:DT:VALue?

Function Queries the  $\Delta T$  value of the vertical cursors.

Syntax :CURSor:VERTical[:BASic]:DT:VALue?

Example :CURSOR:VERTICAL:BASIC:DT:VALUE?

-> :CURSOR:VERTICAL:BASIC:DT:

VALUE 1.000E+00

# :CURSor:VERTical[:BASic]:LINKage

Function Turns ON/OFF the vertical cursor link or queries the current setting.

Syntax :CURSor:VERTical[:BASic]:

LINKage {<Boolean>}

:CURSor:VERTical[:BASic]:LINKage?

Example :CURSOR:VERTICAL:BASIC:LINKAGE ON :CURSOR:VERTICAL:BASIC:LINKAGE?

-> :CURSOR:VERTICAL:BASIC:LINKAGE 1

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### :CURSor:VERTical[:BASic]:PERDt?

Function Queries all settings related to the  $1/\Delta T$  measurement of the vertical cursors.

Syntax :CURSor:VERTical[:BASic]:PERDt?
Example :CURSOR:VERTICAL:BASIC:PERDT?

-> :CURSOR:VERTICAL:BASIC:PERDT:STATE 1

#### :CURSor:VERTical[:BASic]:PERDt:STATe

Function Turns ON/OFF the  $1/\Delta T$  measurement of the vertical cursors or queries the current setting.

Syntax :CURSor:VERTical[:BASic]:PERDt:STATe

{<Boolean>}

:CURSor:VERTical[:BASic]:PERDt:STATe?

Example :CURSOR:VERTICAL:BASIC:PERDT:STATE ON
:CURSOR:VERTICAL:BASIC:PERDT:STATE?

-> :CURSOR:VERTICAL:BASIC:PERDT:STATE 1

#### :CURSor:VERTical[:BASic]:PERDt:

#### VALue?

Function Queries the 1/ $\Delta$ T value of the vertical cursors.

Syntax CURSor:VERTical[:BASic]:PERDt:VALue?

Example CURSOR:VERTICAL:BASIC:PERDT:VALUE?

-> :CURSOR:VERTICAL:BASIC:PERDT:

VALUE 0.000E+00

## :CURSor:VERTical[:BASic]:T<x>?

Function Queries all settings related to the vertical cursor.

Syntax :CURSor:VERTical[:BASic]:T<x>?

< x > = 1 or 2

Example :CURSOR:VERTICAL:BASIC:T1? -> :CURSOR:

VERTICAL:BASIC:T1:

POSITION -4.000E+00; STATE 1

# :CURSor:VERTical[:BASic]:T<x>:JUMP

Function Jumps to the center position of the zoom waveform of

the vertical cursor.

 ${\tt Syntax} \quad : {\tt CURSor:VERTical[:BASic]:T<x>:JUMP} \ \big\{ {\tt Z1} \big| \\$ 

Z2}

< x > = 1 or 2

Example :CURSOR:VERTICAL:BASIC:T1:JUMP Z1

# :CURSor:VERTical[:BASic]:T<x>:

# **POSition**

Function Sets the vertical cursor position or queries the current

setting.

Syntax :CURSor:VERTical[:BASic]:T<x>:

POSition {<NRf>}

:CURSor:VERTical[:BASic]:T<x>:POSition?

< x > = 1 or 2

<NRf> = -5 to 5 (div)

Example :CURSOR:VERTICAL:BASIC:T1:POSITION 1

:CURSOR:VERTICAL:BASIC:T1:POSITION?

-> :CURSOR:VERTICAL:BASIC:T1:

POSITION 1.000E+00

#### :CURSor:VERTical[:BASic]:T<x>:STATe

Function Turns ON/OFF the vertical cursor or queries the current setting.

Syntax :CURSor:VERTical[:BASic]:T<x>:STATe

{<Boolean>}

:CURSor:VERTical[:BASic]:T<x>:STATe?

< x > = 1 or 2

#### :CURSor:VERTical[:BASic]:T<x>:VALue?

Function Queries the time value at the vertical cursor.

Syntax :CURSor:VERTical[:BASic]:T<x>:VALue?

 $\langle x \rangle = 1 \text{ or } 2$ 

 $\langle x \rangle = 1 \text{ or } 2$ 

Example :CURSOR:VERTICAL:BASIC:T1:VALUE?
 -> :CURSOR:VERTICAL:BASIC:T1:
 VALUE 0.000E+00

#### :CURSor:VERTical:CALCulation?

Function Queries all settings related to calculation items of the vertical cursors.

Syntax :CURSor:VERTical:CALCulation?
Example :CURSOR:VERTICAL:CALCULATION?
-> :CURSOR:VERTICAL:CALCULATION:

DEFINE1 "T1"; DEFINE2 "T2"; DEFINE3 "T1";

DEFINE4 "T2"; STATE1 0; STATE2 0;

STATE3 0;STATE4 0

# :CURSor:VERTical:CALCulation:ALL

Function Turns ON/OFF all calculation items of the vertical

cursors.

Syntax :CURSor:VERTical:CALCulation:ALL

{<Boolean>}

Example :CURSOR:VERTICAL:CALCULATION:ALL ON

# :CURSor:VERTical:CALCulation:

# DEFine<x>

Function Sets the equation of the calculation item of the

vertical cursor or queries the current setting.

Syntax :CURSor:VERTical:CALCulation:

DEFine<x> {<String>}

:CURSor:VERTical:CALCulation:DEFine<x>?

< x > = 1 to 4

<String> = Up to 128 characters

Example :CURSOR:VERTICAL:CALCULATION:

DEFINE1 "T1"

:CURSOR:VERTICAL:CALCULATION:DEFINE1?

-> : CURSOR: VERTICAL: CALCULATION:

DEFINE1 "T1"

# :CURSor:VERTical:CALCulation: STATe<x>

Function Turns ON/OFF the calculation item of the vertical cursor or queries the current setting.

Syntax :CURSor:VERTical:CALCulation:

STATe<x> {<Boolean>}

:CURSor:VERTical:CALCulation:STATe<x>?

< x > = 1 to 4

Example : CURSOR: VERTICAL: CALCULATION: STATE1 ON

 $: {\tt CURSOR: VERTICAL: CALCULATION: STATE1?}$ 

-> : CURSOR: VERTICAL: CALCULATION:

STATE1 1

# :CURSor:VERTical:CALCulation:

#### VALue<x>?

Function Queries the measured value of the calculation item of the vertical cursor.

Syntax :CURSor:VERTical:CALCulation:VALue<x>?

< x > = 1 to 4

Example :CURSOR:VERTICAL:CALCULATION:VALUE1?

-> : CURSOR: VERTICAL: CALCULATION:

VALUE1 0.000E+00

#### :CURSor:VT?

Function Queries all settings related to the VT cursor.

Syntax : CURSor: VT?

Example :CURSOR:VT? -> :CURSOR:VT:BASIC:GROUP1:

BITORDER MSBFIRST; FORMAT HEXA;

STATE1::CURSOR:VT:BASIC:GROUP2:

BITORDER MSBFIRST; FORMAT HEXA;

STATE1;:CURSOR:VT:BASIC:GROUP3:

BITORDER MSBFIRST; FORMAT HEXA;

STATE1;:CURSOR:VT:BASIC:GROUP4:

BITORDER MSBFIRST; FORMAT HEXA;

STATE1;:CURSOR:VT:BASIC:GROUP5:

BITORDER MSBFIRST; FORMAT HEXA;

STATE 1;:CURSOR:VT:BASIC:

POSITION 0.000E+00;T:STATE 1;

:CURSOR:VT:BASIC:V1:STATE 1;

:CURSOR:VT:BASIC:V2:STATE 1;

:CURSOR:VT:BASIC:V3:STATE1;

:CURSOR:VT:BASIC:V4:STATE 1;

:CURSOR:VT:BASIC:V5:STATE 1;:

CURSOR: VT: BASIC: V6: STATE 1;

:CURSOR:VT:BASIC:V7:STATE 1;

:CURSOR:VT:BASIC:V8:STATE 1;

:CURSOR:VT:CALCULATION:

DEFINE1 "T1"; DEFINE2 "V(C1)";

DEFINE3 "V(C2)"; DEFINE4 "V(C3)";

STATE1 0;STATE2 0;STATE3 0;STATE4 0

#### :CURSor:VT:BASic?

Function Queries all settings related to basic items of the VT cursor.

Syntax : CURSor: VT: BASic?

Example :CURSOR:VT:BASIC? -> :CURSOR:VT:BASIC:

GROUP1:BITORDER MSBFIRST;FORMAT HEXA;

STATE1;:CURSOR:VT:BASIC:GROUP2:

BITORDER MSBFIRST; FORMAT HEXA; STATE1;

:CURSOR:VT:BASIC:GROUP3:

BITORDER MSBFIRST: FORMAT HEXA: STATE1:

:CURSOR:VT:BASIC:GROUP4:

BITORDER MSBFIRST; FORMAT HEXA; STATE1;

:CURSOR:VT:BASIC:GROUP5:

BITORDER MSBFIRST; FORMAT HEXA; STATE 1;

:CURSOR:VT:BASIC:POSITION 0.000E+00;T:

STATE 1;:CURSOR:VT:BASIC:V1:STATE 1;:

CURSOR:VT:BASIC:V2:STATE 1;:CURSOR:VT:

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BASIC:V3:STATE 1;:CURSOR:VT:BASIC:V4:

STATE 1;:CURSOR:VT:BASIC:V5:STATE 1;:

CURSOR:VT:BASIC:V6:STATE 1;:CURSOR:VT:
BASIC:V7:STATE 1;:CURSOR:VT:BASIC:V8:

STATE 1

#### :CURSor:VT[:BASic]:ALL

Function Turns ON/OFF all basic items of the VT cursor.

Syntax :CURSor:VT[:BASic]:ALL {<Boolean>}

Example : CURSOR: VT: BASIC: ALL ON

# :CURSor:VT[:BASic]:GROup<x>?

Function Queries all settings related to the logic group of the

VT cursor.

Syntax :CURSor:VT[:BASic]:GROup<x>?

< x > = 1 to 5

Example :CURSOR:VT:BASIC:GROUP1? -> :CURSOR:VT:

BASIC:GROUP1:BITORDER MSBFIRST;

FORMAT HEXA; STATE 1

# :CURSor:VT[:BASic]:GROup<x>:BITorder

Function Sets the measurement bit order of the logic group of the VT cursor or queries the current setting.

Syntax :CURSor:VT[:BASic]:GROup<x>:

BITorder {LSBFirst|MSBFirst}

:CURSor:VT[:BASic]:GROup<x>:BITorder?

< x > = 1 to 5

Example :CURSOR:VT:BASIC:GROUP1:

BITORDER LSBFIRST

:CURSOR:VT:BASIC:GROUP1:BITORDER?

-> :CURSOR:VT:BASIC:GROUP1:

BITORDER LSBFIRST

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#### :CURSor:VT[:BASic]:GROup<x>:FORMat

Function Sets the display format of the measured value of the logic group of the VT cursor or queries the current setting.

Syntax :CURSor:VT[:BASic]:GROup<x>:

FORMat {BINary | HEXa}

:CURSor:VT[:BASic]:GROup<x>:FORMat?

< x > = 1 to 5

Example : CURSOR: VT: BASIC: GROUP1: FORMAT HEXA

:CURSOR:VT:BASIC:GROUP1:FORMAT?

-> :CURSOR:VT:BASIC:GROUP1:FORMAT HEXA

#### :CURSor:VT[:BASic]:GROup<x>:STATe

Function Turns ON/OFF the measured value of the logic group of the VT cursor or queries the current setting.

Syntax :CURSor:VT[:BASic]:GROup<x>:

STATe {<Boolean>}

:CURSor:VT[:BASic]:GROup<x>:STATe?

< x > = 1 to 5

Example :CURSOR:VT:BASIC:GROUP1:STATE ON

:CURSOR:VT:BASIC:GROUP1:STATE?
-> :CURSOR:VT:BASIC:GROUP1:STATE 1

#### :CURSor:VT[:BASic]:GROup<x>:VALue?

Function Queries the measured value of the logic group of the VT cursor.

Syntax :CURSor:VT[:BASic]:GROup<x>:VALue?

< x > = 1 to 5

Example :CURSOR:VT:BASIC:GROUP1:VALUE?

-> :CURSOR:VT:BASIC:GROUP1:

VALUE 4294967295

# :CURSor:VT[:BASic]:POSition

Function Sets the VT cursor position or queries the current setting.

Syntax :CURSor:VT[:BASic]:POSition {<NRf>}

:CURSor:VT[:BASic]:POSition?

< NRf > = -5 to 5 (div)

Example :CURSOR:VT:BASIC:POSITION 1

:CURSOR:VT:BASIC:POSITION? -> :CURSOR:

VT:BASIC:POSITION 1.000E+00

# :CURSor:VT[:BASic]:T?

Function Queries all settings related to the time value of the VT

cursor.

Syntax :CURSor:VT[:BASic]:T?

Example :CURSOR:VT:BASIC:T? -> :CURSOR:VT:

BASIC:T:STATE 1

#### :CURSor:VT[:BASic]:T:STATe

Function Turns ON/OFF the time value of the VT cursor or queries the current setting.

Syntax :CURSor:VT[:BASic]:T:STATe {<Boolean>}

:CURSor:VT[:BASic]:T:STATe?

Example :CURSOR:VT:BASIC:T:STATE ON

:CURSOR:VT:BASIC:T:STATE? -> :CURSOR:

VT:BASIC:T:STATE 1

#### :CURSor:VT[:BASic]:T:VALue?

Function Queries the time value at the VT cursor.

Syntax :CURSor:VT[:BASic]:T:VALue?

Example :CURSOR:VT:BASIC:T:VALUE? -> :CURSOR:

VT:BASIC:T:VALUE 0.000E+00

#### :CURSor:VT[:BASic]:V<x>?

Function Queries all settings related to the voltage value of the

VT cursor.

Syntax :CURSor:VT[:BASic]:V<x>?

< x > = 1 to 8

Example :CURSOR:VT:BASIC:V1? -> :CURSOR:VT:

BASIC:V1:STATE 1

#### :CURSor:VT[:BASic]:V<x>:STATe

Function Turns ON/OFF the voltage value of the VT cursor or queries the current setting.

Syntax :CURSor:VT[:BASic]:V<x>:

STATe {<Boolean>}

:CURSor:VT[:BASic]:V<x>:STATe?

< x > = 1 to 8

Example :CURSOR:VT:BASIC:V1:STATE ON

:CURSOR:VT:BASIC:V1:STATE? -> :CURSOR:

VT:BASIC:V1:STATE 1

# :CURSor:VT[:BASic]:V<x>:VALue?

Function Queries the voltage value at the VT cursor.

Syntax :CURSor:VT[:BASic]:V<x>:VALue?

< x > = 1 to 8

Example :CURSOR:VT:BASIC:V1:VALUE? -> :CURSOR:

VT:BASIC:V1:VALUE 0.000E+00

# :CURSor:VT:CALCulation?

Function Queries all settings related to calculation items of the VT cursor.

Syntax : CURSor: VT: CALCulation?

Example :CURSOR:VT:CALCULATION? -> :CURSOR:VT:

CALCULATION: DEFINE1 "T1";

DEFINE2 "V(C1)";DEFINE3 "V(C2)";

DEFINE4 "V(C3)";STATE1 0;STATE2 0;

STATE3 0;STATE4 0

#### :CURSor:VT:CALCulation:ALL

Function Turns ON/OFF all calculation items of the VT cursor.

Syntax :CURSor:VT:CALCulation:ALL {<Boolean>}

Example :CURSOR:VT:CALCULATION:ALL ON

# :CURSor:VT:CALCulation:DEFine<x>

Function Sets the equation of the calculation item of the VT

cursor or queries the current setting.

Syntax :CURSor:VT:CALCulation:

DEFine<x> {<String>}

:CURSor:VT:CALCulation:DEFine<x>?

< x > = 1 to 4

<String> = Up to 128 characters

Example :CURSOR:VT:CALCULATION:DEFINE1 "T1"

:CURSOR:VT:CALCULATION:DEFINE1?

-> :CURSOR:VT:CALCULATION:DEFINE1 "T1"

#### :CURSor:VT:CALCulation:STATe<x>

Function Turns ON/OFF the calculation item of the VT cursor

or queries the current setting.

Syntax :CURSor:VT:CALCulation:

STATe<x> {<Boolean>}

:CURSor:VT:CALCulation:STATe<x>?

< x > = 1 to 4

Example :CURSOR:VT:CALCULATION:STATE1 ON

:CURSOR:VT:CALCULATION:STATE1?
-> :CURSOR:VT:CALCULATION:STATE1 0

# :CURSor:VT:CALCulation:VALue<x>?

Function Queries the measured value of the calculation item of

the VT cursor.

Syntax :CURSor:VT:CALCulation:VALue<x>?

< x > = 1 to 4

Example :CURSOR:VT:CALCULATION:VALUE1?

-> : CURSOR: VT: CALCULATION:

VALUE1 0.000E+00

# :CURSor:VT:JUMP

Function Jumps the VT cursor to the center position of the

zoom waveform.

 ${\tt Syntax} \quad : {\tt CURSor:VT:JUMP} \ \{ {\tt Z1} \, | \, {\tt Z2} \}$ 

Example :CURSOR:VT:JUMP Z1

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# 5.10 DISPlay Group

# :DISPlay?

Function Queries all settings related to the display.

Syntax :DISPlay?

Example :DISPLAY? -> :DISPLAY:ACCUMULATE:

GRADE INTENSITY; MODE 0; PERSISTENCE:

COUNT INFINITY; MODE COUNT;

TIME 1.000E+00;:DISPLAY:BLIGHT:

AUTOOFF 0; BRIGHTNESS 1; LCD 1; TIMEOUT 1;

:DISPLAY:COLOR:CHANNEL1 BLUE; CHANNEL2 BGREEN;CHANNEL3 CYAN; CHANNEL4 DBLUE;LOGIC YELLOW;

LSTATE GREEN; MATH1 GRAY; MATH2 GREEN;

MATH3 LBLUE; MATH4 LGREEN;

REFERENCE1 MAGENTA; REFERENCE2 MGREEN; REFERENCE3 ORANGE; REFERENCE4 PINK;

:DISPLAY:FORMAT SINGLE;GRATICULE GRID;

INTENSITY:WAVEFORM 10;CURSOR 10;

GRID 10; MARKER 10; ZBOX 10;

:DISPLAY:INTERPOLATE SINE;MAPPING:
MODE AUTO;TRACE1 1;TRACE2 1;TRACE3 1;
TRACE4 1;TRACE5 1;TRACE6 1;TRACE7 1;

TRACE8 1

#### :DISPlay:ACCumulate?

Function Queries all settings related to the accumulated display of waveforms.

Syntax :DISPlay:ACCumulate?

Example :DISPLAY:ACCUMULATE? -> :DISPLAY:

ACCUMULATE: GRADE INTENSITY;

MODE 0; PERSISTENCE: COUNT INFINITY;

MODE COUNT; TIME 1.000E+00

# :DISPlay:ACCumulate:GRADe

Function Sets the accumulate mode or queries the current setting

Syntax :DISPlay:ACCumulate:GRADe {COLor|

INTensity}

:DISPlay:ACCumulate:GRADe?

Example :DISPLAY:ACCUMULATE:GRADE INTENSITY

:DISPLAY:ACCUMULATE:GRADE? -> :DISPLAY:

ACCUMULATE: GRADE INTENSITY

# :DISPlay:ACCumulate:MODE

Function Turns ON/OFF the accumulate mode or queries the

current setting.

Syntax :DISPlay:ACCumulate:MODE {<Boolean>}

:DISPlay:ACCumulate:MODE?

Example :DISPLAY:ACCUMULATE:MODE ON

:DISPLAY:ACCUMULATE:MODE? -> :DISPLAY:

ACCUMULATE: MODE 1

# :DISPlay:ACCumulate:PERSistence?

Function Queries all settings related to persistence.

COUNT INFINITY: MODE COUNT:

TIME 1.000E+00

# :DISPlay:ACCumulate:PERSistence:

# COUNt

Function Sets the persistence count or queries the current

setting.

Syntax :DISPlay:ACCumulate:PERSistence:COUNt

{<NRf>|INFinity}

:DISPlay:ACCumulate:PERSistence:COUNt?

<NRf> = 1 to (the maximum number of history pages

at the current record length)

Example :DISPLAY:ACCUMULATE:PERSISTENCE:

COUNT INFINITY

:DISPLAY:ACCUMULATE:PERSISTENCE:COUNT?

-> :DISPLAY:ACCUMULATE:PERSISTENCE:

COUNT INFINITY

# :DISPlay:ACCumulate:PERSistence:MODE

Function Sets the persistence mode or queries the current setting.

Syntax :DISPlay:ACCumulate:PERSistence:MODE

{COUNt|TIME}

:DISPlay:ACCumulate:PERSistence:MODE?

Example :DISPLAY:ACCUMULATE:PERSISTENCE:

MODE COUNT

:DISPLAY:ACCUMULATE:PERSISTENCE:MODE?

-> :DISPLAY:ACCUMULATE:PERSISTENCE:

MODE COUNT

# :DISPlay:ACCumulate:PERSistence:TIME

Function Sets the persistence time or queries the current setting.

Syntax :DISPlay:ACCumulate:PERSistence:TIME

{<Time>|INFinity}

(200 ms steps), 10 s to 100 s (2 s steps)

Example :DISPLAY:ACCUMULATE:PERSISTENCE:TIME 1S

:DISPLAY:ACCUMULATE:PERSISTENCE:TIME?
-> :DISPLAY:ACCUMULATE:PERSISTENCE:

TIME 1.000E+00

# :DISPlay:BLIGht?

Function Queries all settings related to the backlight.

Syntax :DISPlay:BLIGht?

Example :DISPLAY:BLIGHT? -> :DISPLAY:BLIGHT:

AUTOOFF 0; BRIGHTNESS 1; LCD 1; TIMEOUT 1

#### :DISPlay:BLIGht:AUTooff

Function Sets the function that automatically turns the backlight off or queries the current setting.

Syntax :DISPlay:BLIGht:AUTooff {<Boolean>}

:DISPlay:BLIGht:AUTooff?

Example :DISPLAY:BLIGHT:AUTOOFF ON

:DISPLAY:BLIGHT:AUTOOFF? -> :DISPLAY:

BLIGHT:AUTOOFF 1

# :DISPlay:BLIGht:BRIGhtness

Function Sets the brightness of the backlight or queries the

current setting.

Syntax :DISPlay:BLIGht:BRIGhtness {<NRf>}

:DISPlay:BLIGht:BRIGhtness?

<NRf> = 1 to 8

Example :DISPLAY:BLIGHT:BRIGHTNESS 1

:DISPLAY:BLIGHT:BRIGHTNESS?

-> :DISPLAY:BLIGHT:BRIGHTNESS 1

# :DISPlay:BLIGht:LCD

Function Turns ON/OFF the backlight or queries the current

setting.

Syntax :DISPlay:BLIGht:LCD {<Boolean>}

:DISPlay:BLIGht:LCD?

Example :DISPLAY:BLIGHT:LCD ON

:DISPLAY:BLIGHT:LCD? -> :DISPLAY:

BLIGHT:LCD 1

# :DISPlay:BLIGht:TIMeout

Function Sets the timeout of the backlight or queries the

current setting.

Syntax :DISPlay:BLIGht:TIMeout {<NRf>}

:DISPlay:BLIGht:TIMeout?

<NRf> = 1 to 60 (minutes)

Example :DISPLAY:BLIGHT:TIMEOUT 60

:DISPLAY:BLIGHT:TIMEOUT? -> :DISPLAY:

BLIGHT:TIMEOUT 60

# :DISPlay:COLor?

Function Queries all settings related to the waveform display

color.

Syntax :DISPlay:COLor?

Example :DISPLAY:COLOR? -> :DISPLAY:COLOR:

CHANNEL1 BLUE; CHANNEL2 BGREEN; CHANNEL3 CYAN; CHANNEL4 DBLUE;

LOGIC YELLOW; LSTATE GREEN; MATH1 GRAY; MATH2 GREEN; MATH3 LBLUE; MATH4 LGREEN; REFERENCE1 MAGENTA; REFERENCE2 MGREEN; REFERENCE3 ORANGE; REFERENCE4 PINK

# :DISPlay:COLor:{CHANnel<x>|LOGic|

# LSTate | MATH<x> | REFerence<x> }

Function Sets the color of the waveform or queries the current

setting.

Syntax :DISPlay:COLor:{CHANnel<x>|LOGic|

LSTate | MATH<x> | REFerence<x> } { BLUE | BGReen | CYAN | DBLue | GRAY | GREen | LBLue | LGReen | MAGenta | MGReen | ORANge | PINK |

PURPle | RED | SPINk | YELLow }

:DISPlay:COLor:{CHANnel<x>|LOGic| LSTate|MATH<x>|REFerence<x>}?

<x> of CHANnel<x> = 1 to 4

<x> of MATH<x> = 1 to 4 <x> of RFFerence<x> = 1 to 4

Example :DISPLAY:COLOR:CHANNEL1 BLUE

:DISPLAY:COLOR:CHANNEL1? -> :DISPLAY:

COLOR: CHANNEL1 BLUE

# :DISPlay:FORMat

Function Sets the display format or queries the current setting.

Syntax :DISPlay:FORMat {DUAL | QUAD | SINGle |

TRIad}

:DISPlay:FORMat?

Example :DISPLAY:FORMAT SINGLE

:DISPLAY:FORMAT? -> :DISPLAY:

FORMAT SINGLE

# :DISPlay:GRATicule

Function Sets the graticule (grid) or queries the current

setting.

Syntax :DISPlay:GRATicule {CROSshair|FRAMe|

GRID | LINE }

:DISPlay:GRATicule?

Example :DISPLAY:GRATICULE CROSSHAIR

:DISPLAY:GRATICULE? -> :DISPLAY:

GRATICULE CROSSHAIR

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# :DISPlay:INTENsity?

Function Queries all settings related to the intensity of the displayed items.

Syntax :DISPlay:INTENsity?

:DISPlay:INTENsity? ->

Example :DISPLAY:INTENSITY? -> :DISPLAY:

INTENSITY:WAVEFORM 10;CURSOR 10;

GRID 10; MARKER 10

### :DISPlay:INTENsity[:WAVeform]

Function Sets the intensity of the waveform or queries the

current setting.

Syntax :DISPlay:INTENsity[:WAVeform] {<NRf>}

:DISPlay:INTENsity[:WAVeform]?

<NRf> = 1 to 20

Example :DISPLAY:INTENSITY:WAVEFORM 10

:DISPLAY:INTENSITY:WAVEFORM?

-> :DISPLAY:INTENSITY:WAVEFORM 10

# :DISPlay:INTENsity:{CURSor|GRID| MARKer|ZBOX}

Function Sets the intensity of the display item or queries the

current setting.

Syntax :DISPlay:INTENsity:{CURSor|GRID|

MARKer|ZBOX} {<NRf>}

:DISPlay:INTENsity:{CURSor|GRID|

MARKer | ZBOX? < NRf > = 0 to 31

Example :DISPLAY:INTENSITY:CURSOR 10

:DISPLAY:INTENSITY:CURSOR?
-> :DISPLAY:INTENSITY:CURSOR 10

# :DISPlay:INTERpolate

Function Sets the display interpolation format or queries the current setting.

Syntax :DISPlay:INTERpolate {LINE|OFF|PULSe|

 $\mathtt{SINE}\}$ 

:DISPlay:INTERpolate?

Example :DISPLAY:INTERPOLATE SINE

:DISPLAY:INTERPOLATE? -> :DISPLAY:

INTERPOLATE SINE

# :DISPlay:MAPPing?

Function Queries all settings related to the waveform mapping

to the split screen.

Syntax :DISPlay:MAPPing?

Example :DISPLAY:MAPPING? -> :DISPLAY:MAPPING:

MODE AUTO; TRACE1 1; TRACE2 1; TRACE3 1; TRACE4 1; TRACE5 1; TRACE6 1; TRACE7 1;

TRACE8 1

# :DISPlay:MAPPing[:MODE]

Function Sets the waveform mapping mode for the split screen

or queries the current setting.

Syntax :DISPlay:MAPPing[:MODE] {AUTO|MANual}

:DISPlay:MAPPing[:MODE]?

Example :DISPLAY:MAPPING:MODE AUTO

:DISPLAY:MAPPING:MODE? -> :DISPLAY:

MAPPING: MODE AUTO

### :DISPlay:MAPPing:TRACe<x>

Function Sets the mapping of the waveform to the split screen

or queries the current setting.

Syntax :DISPlay:MAPPing:TRACe<x> {<NRf>}

:DISPlay:MAPPing:TRACe<x>?

< x > = 1 to 8< NRf > = 1 to 4

Example :DISPLAY:MAPPING:TRACE1 3

:DISPLAY:MAPPING:TRACE1? -> :DISPLAY:

MAPPING:TRACE1 3

#### :DISPlay:TRANslucent

Function Turns ON/OFF the translucent mode or queries the

current setting.

Syntax :DISPlay:TRANslucent {<Booleanf>}

:DISPlay:TRANslucent?

Example :DISPLAY:TRANSLUCENT ON

:DISPLAY:TRANSLUCENT? -> :DISPLAY:

TRANSLUCENT 1

# 5.11 EYEDiagram Group

#### :EYEDiagram?

Function Queries all settings related to the eye diagram. Syntax :EYEDiagram? Example :EYEDIAGRAM? -> :EYEDIAGRAM:DISPLAY 1; FLEXRAY: CONTINUOUS: COUNT INFINITY;: EYEDIAGRAM: FLEXRAY: CYCLE: COUNT 1; TRANGE 0.0000000E+00,-5.0000000E+00;: EYEDIAGRAM: FLEXRAY: FITEM: EHEIGHT: STATE 1;:EYEDIAGRAM:FLEXRAY:FITEM: EWIDTH: STATE 1; : EYEDIAGRAM: FLEXRAY: FITEM:FALL:STATE 1;:EYEDIAGRAM:FLEXRAY: FITEM:JITTER:STATE 1;:EYEDIAGRAM: FLEXRAY: FITEM: PCROSSING: STATE 1;: EYEDIAGRAM: FLEXRAY: FITEM: PDUTYCYCLE: STATE 1:: EYEDIAGRAM: FLEXRAY: FITEM: PSPCOUNT:STATE 0;:EYEDIAGRAM:FLEXRAY: FITEM: PWCOUNT: STATE 0; : EYEDIAGRAM: FLEXRAY: FITEM: QFACTOR: STATE 1;: EYEDIAGRAM: FLEXRAY: FITEM: RISE: STATE 1;: EYEDIAGRAM:FLEXRAY:FITEM:SDBASE: STATE 1;:EYEDIAGRAM:FLEXRAY:FITEM: SDTOP:STATE 1;:EYEDIAGRAM:FLEXRAY: FITEM: SPCOUNT: STATE 0; : EYEDIAGRAM: FLEXRAY: FITEM: T1CROSSING: STATE 1;: EYEDIAGRAM: FLEXRAY: FITEM: T2CROSSING: STATE 1;:EYEDIAGRAM:FLEXRAY:FITEM: TLEVELS: MODE PERCENT; PERCENT 90,10; UNIT 1.0000000E+00,0.0000000E+00;: EYEDIAGRAM: FLEXRAY: FITEM: VBASE: STATE 1;:EYEDIAGRAM:FLEXRAY:FITEM: VCROSSING:STATE 1;:EYEDIAGRAM:FLEXRAY: FITEM: VDARK 1.0000000E+00; VTOP: STATE 1:: EYEDIAGRAM: FLEXRAY: FITEM:WCOUNT:STATE 0;:EYEDIAGRAM: FLEXRAYSETUP: BRATE 5000000; DMODE 1; FTRACE 1; RX10: LRIGHT 800.00000E-09, 770.00000E-09;RPOINT -3.00000E+00; ULOWER 400.0E-03,-400.0E-03; WIDTH 0.0000000E+00;:EYEDIAGRAM: FLEXRAY:SETUP:RX2 5: LRIGHT 272.00000E-09,0.0000000E+00....

# :EYEDiagram:DISPlay

Function

current setting.
Syntax :EYEDiagram:DISPlay {<Boolean>}
 :EYEDiagram:DISPlay?
Example :EYEDIAGRAM:DISPLAY ON
 :EYEDIAGRAM:DISPLAY? -> :EYEDIAGRAM:

Turns ON/OFF the eye diagram display or queries the

# :EYEDiagram:FLEXray?

DISPLAY 1

Queries all settings related to the FLEXRAY eye Function diagram. Syntax :EYEDiagram:FLEXray? :EYEDIAGRAM:FLEXRAY? -> :EYEDIAGRAM: Example FLEXRAY: CONTINUOUS: COUNT INFINITY;: EYEDIAGRAM: FLEXRAY: CYCLE: COUNT 1; T RANGE 0.0000000E+00,-5.0000000E+00;: EYEDIAGRAM: FLEXRAY: FITEM: EHEIGHT: STATE 1;:EYEDIAGRAM:FLEXRAY:FITEM: EWIDTH:STATE 1;:EYEDIAGRAM:FLEXRAY: FITEM:FALL:STATE 1;:EYEDIAGRAM:FLEXRAY: FITEM: JITTER: STATE 1; : EYEDIAGRAM: FLEXRAY: FITEM: PCROSSING: STATE 1:: EYEDIAGRAM: FLEXRAY: FITEM: PDUTYCYCLE: STATE 1;: EYEDIAGRAM: FLEXRAY: FITEM: PSPCOUNT:STATE 0;:EYEDIAGRAM:FLEXRAY: FITEM:PWCOUNT:STATE 0;:EYEDIAGRAM: FLEXRAY:FITEM:QFACTOR:STATE 1;: EYEDIAGRAM:FLEXRAY:FITEM:RISE:STATE 1;: EYEDIAGRAM: FLEXRAY: FITEM: SDBASE: STATE 1;: EYEDIAGRAM: FLEXRAY: FITEM: SDTOP:STATE 1;:EYEDIAGRAM:FLEXRAY: FITEM:SPCOUNT:STATE 0;:EYEDIAGRAM: FLEXRAY: FITEM: T1CROSSING: STATE 1:: EYEDIAGRAM: FLEXRAY: FITEM: T2CROSSING:

# :EYEDiagram:FLEXray:CONTinuous?

Function Queries all settings related to the FLEXRAY eye diagram CONTinuous Statistics.

STATE 1;:EYEDIAGRAM:FLEXRAY:FITEM:

TLEVELS: MODE PERCENT; PERCENT 90,10....

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# :EYEDiagram:FLEXray:CONTinuous:ADJust

Function Executes automatic adjustment of FLEXRAY eye diagram CONTinuous Statistics.

Syntax :EYEDiagram:FLEXray:CONTinuous:ADJust Example :EYEDIAGRAM:FLEXRAY:CONTINUOUS:ADJUST

#### :EYEDiagram:FLEXray:CONTinuous:COUNt

Function Sets the count for FLEXRAY eye diagram

CONTinuous Statistics or queries the current setting.

Syntax : EYEDiagram: FLEXray: CONTinuous:

COUNt {<NRf>|INFinity}

: EYEDiagram: FLEXray: CONTinuous: COUNt? <NRf> = 1 to (max. no. of history pages at the current record length)

Example : EYEDIAGRAM: FLEXRAY: CONTINUOUS: COUNT

INFINITY

:EYEDIAGRAM:FLEXRAY:CONTINUOUS:COUNT?
-> :EYEDIAGRAM:FLEXRAY:CONTINUOUS:
COUNT INFINITY

#### :EYEDiagram:FLEXray:CYCLe?

Function Queries all settings related to FLEXRAY eye diagram Cycle Statistics.

# :EYEDiagram:FLEXray:CYCLe:COUNt

Function Sets the count for FLEXRAY eye diagram Cycle Statistics or queries the current setting.

Syntax :EYEDiagram:FLEXray:CYCLe:COUNt {<NRf>}

:EYEDiagram:FLEXray:CYCLe:COUNt?

<NRf> = 1 to 5000

#### :EYEDiagram:FLEXray:CYCLe:EXECute

Function Executes FLEXRAY eye diagram Cycle Statistics.

Syntax : EYEDiagram: FLEXray: CYCLe: EXECUTE

Example : EYEDIAGRAM: FLEXRAY: CYCLE: EXECUTE

# :EYEDiagram:FLEXray:CYCLe:TRANge

Function Sets the measurement range for FLEXRAY eye diagram Cycle Statistics or queries the current

setting.

Syntax : EYEDiagram: FLEXray: CYCLe: TRANge

{ <NRf > , <NRf > }

:EYEDiagram:FLEXray:CYCLe:TRANge?

<NRf> = -5 to 5 (div)

Example : EYEDIAGRAM: FLEXRAY: CYCLE: TRANGE -5,0

:EYEDIAGRAM:FLEXRAY:CYCLE:TRANGE?
-> :EYEDIAGRAM:FLEXRAY:CYCLE:
TRANGE 0.0000000E+00,-5.0000000E+00

#### :EYEDiagram:FLEXray:FITem?

Function Queries all settings related to FLEXRAY eye diagram parameters.

Syntax :EYEDiagram:FLEXray:FITem?
Example :EYEDIAGRAM:FLEXRAY:FITEM? ->

:EYEDIAGRAM:FLEXRAY:FITEM:EHEIGHT:
STATE 1;:EYEDIAGRAM:FLEXRAY:FITEM:
EWIDTH:STATE 1;:EYEDIAGRAM:FLEXRAY:

FITEM: FALL: STATE 1; : EYEDIAGRAM: FLEXRAY:

FITEM:JITTER:STATE 1;:EYEDIAGRAM:
FLEXRAY:FITEM:PCROSSING:STATE 1;:
EYEDIAGRAM:FLEXRAY:FITEM:PDUTYCYCLE:
STATE 1;:EYEDIAGRAM:FLEXRAY:FITEM:
PSPCOUNT:STATE 0;:EYEDIAGRAM:FLEXRAY:
FITEM:PWCOUNT:STATE 0;:EYEDIAGRAM:
FLEXRAY:FITEM:QFACTOR:STATE 1;:

EYEDIAGRAM:FLEXRAY:FITEM:RISE:STATE 1;:
EYEDIAGRAM:FLEXRAY:FITEM:SDBASE:
STATE 1;:EYEDIAGRAM:FLEXRAY:FITEM:

SDTOP:STATE 1;:EYEDIAGRAM:FLEXRAY: FITEM:SPCOUNT:STATE 0;:EYEDIAGRAM: FLEXRAY:FITEM:T1CROSSING:STATE 1;:

EYEDIAGRAM: FLEXRAY: FITEM: T2CROSSING:

STATE 1....

# :EYEDiagram:FLEXray:FITem:ALL

Function Turns ON/OFF all FLEXRAY eye diagram parameters.

Syntax :EYEDiagram:FLEXray:FITem:

ALL {<Boolean>}

Example :EYEDIAGRAM:FLEXRAY:FITEM:ALL ON

# :EYEDiagram:FLEXray:FITem:<Parameter>?

Function Queries all settings related to FLEXRAY eye diagram waveform parameters.

Syntax :EYEDiagram:FLEXray:FITem:<Parameter>?
<Parameter>={EHEight|EWIDth|FALL|JITTer|
PCROssing|PDUTycycle|PSPCount|PWCount|
QFACtor|RISE|SDBase|SDTop|SPCount|
T1CRossing|T2CRossing|VBASe|VCRossing|VTOP|
WCOunt}

Example (The following is an example with EHEight.)
:EYEDIAGRAM:FLEXRAY:FITEM:EHEIGHT? →
:EYEDIAGRAM:FLEXRAY:FITEM:EHEIGHT:

Description • For the correspondence between communication commands and the parameters used, see appendix 4.

See the main unit user's manual for details about parameters.

# :EYEDiagram:FLEXray:FITem:<Parameter>: STATe

Function Turns ON/OFF FLEXRAY eye diagram waveform

parameters or queries the current setting.

Syntax :EYEDiagram:FLEXray:FITem:<Parameter>:

STATe {<Boolean>}

:EYEDiagram:FLEXray:FITem:<Parameter>:

STATe?

<Parameter>={EHEight|EWIDth|FALL|JITTer|
PCROssing|PDUTycycle|PSPCount|PWCount|
QFACtor|RISE|SDBase|SDTop|SPCount|

T1CRossing|T2CRossing|VBASe|VCRossing|VTOP|

WCOunt}

Example (The following is an example with EHEight.)

:EYEDIAGRAM:FLEXRAY:FITEM:EHEIGHT:

STATE ON

:EYEDIAGRAM:FLEXRAY:FITEM:EHEIGHT:
STATE? → :EYEDIAGRAM:FLEXRAY:FITEM:

EHEIGHT:STATE 1

# :EYEDiagram:FLEXray:FITem:<Parameter>: VALue?

Function Queries FLEXRAY eye diagram waveform parameter

values.

Syntax :EYEDiagram:FLEXray:FITem:<Parameter>:

VALue?

<Parameter>={EHEight|EWIDth|FALL|JITTer|
PCROssing|PDUTycycle|PSPCount|PWCount|
QFACtor|RISE|SDBase|SDTop|SPCount|

 ${\sf T1CRossing|T2CRossing|VBASe|VCRossing|VTOP|}$ 

WCOunt}

Example (The following is an example with EHEight.)

:EYEDIAGRAM:FLEXRAY:FITEM:EHEIGHT: VALUE? → :EYEDIAGRAM:FLEXRAY:FITEM:

EHEIGHT: VALUE 1.000E+00

### :EYEDiagram:FLEXray:FITem:TLEVels?

Function Queries all settings related to the FLEXRAY eye

diagram threshold level.

Syntax :EYEDiagram:FLEXray:FITem:TLEVels?
Example :EYEDIAGRAM:FLEXRAY:FITEM:TLEVELS? ->
:EYEDIAGRAM:FLEXRAY:FITEM:TLEVELS:

MODE PERCENT; PERCENT 90,10; UNIT 1.0000000E+00,0.0000000E+00

### :EYEDiagram:FLEXray:FITem:TLEVels:MODE

Function Sets the unit of the FLEXRAY eye diagram threshold level or queries the current setting.

Syntax :EYEDiagram:FLEXray:FITem:TLEVels:

MODE {PERCent|UNIT}

:EYEDiagram:FLEXray:FITem:TLEVels:MODE?

Example :EYEDIAGRAM:FLEXRAY:FITEM:TLEVELS:

MODE PERCENT

:EYEDIAGRAM:FLEXRAY:FITEM:TLEVELS:MODE?
-> :EYEDIAGRAM:FLEXRAY:FITEM:TLEVELS:

MODE PERCENT

### :EYEDiagram:FLEXray:FITem:TLEVels: PERCent

Function Sets the FLEXRAY eye diagram threshold level to a percentage (%) or queries the current setting.

Syntax : EYEDiagram: FLEXray: FITem: TLEVels:

PERCent {<NRf>,<NRf>}

:EYEDiagram:FLEXray:FITem:TLEVels:

PERCent?

<NRf>=0 to 100(%)

Example :EYEDIAGRAM:FLEXRAY:FITEM:TLEVELS:

PERCENT 90,10

:EYEDIAGRAM:FLEXRAY:FITEM:TLEVELS:
PERCENT? -> :EYEDIAGRAM:FLEXRAY:FITEM:

TLEVELS: PERCENT 90,10

### :EYEDiagram:FLEXray:FITem:TLEVels:UNIT

Function Sets the FLEXRAY eye diagram threshold level in UNIT or queries the current setting.

Syntax :EYEDiagram:FLEXray:FITem:TLEVels:

UNIT {<NRf>,<NRf>|<Voltage>,<Voltage>|

<Current>|<Current>}

:EYEDiagram:FLEXray:FITem:TLEVels:UNIT? <NRf>, <Voltage>, and <Current> = See the SB5000

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Example :EYEDIAGRAM:FLEXRAY:FITEM:TLEVELS:

UNIT 1,0

:EYEDIAGRAM:FLEXRAY:FITEM:TLEVELS:UNIT?
-> :EYEDIAGRAM:FLEXRAY:FITEM:TLEVELS:
UNIT 1.0000000E+00,0.0000000E+00

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### :EYEDiagram:FLEXray[:SETup]?

Function Queries all settings related to FLEXRAY eye diagram setup.

Syntax :EYEDiagram:FLEXray[:SETup]?

Example :EYEDIAGRAM:FLEXRAY:SETUP?

-> :EYEDIAGRAM:FLEXRAY:SETUP:

BRATE 5000000;DMODE 1;FTRACE 1;RX10:
LRIGHT 800.00000E-09,770.00000E-09;
RPOINT -3.00000E+00;ULOWER 400.0E-03,
-400.0E-03;WIDTH 0.0000000E+00;:
EYEDIAGRAM:FLEXRAY:SETUP:RX2 5:

LRIGHT 272.00000E-09,

0.0000000E+00; RPOINT -3.00000E+00; ULOWER 400.0E-03, -400.0E-03;

WIDTH 258.00000E-09;:EYEDIAGRAM:

FLEXRAY:SETUP:RX5: LRIGHT 144.00000E-09.

0.0000000E+00; RPOINT -3.00000E+00; ULOWER 400.0E-03,-400.0E-03;

WIDTH 130.00000E-09;:EYEDIAGRAM:

FLEXRAY:SETUP:SELECT RECEIVER;TRACE1:

HYSTERESIS 1.00000E+00;

LEVEL 0.0000000E+00;:EYEDIAGRAM:

FLEXRAY:SETUP:TRACE2:
HYSTERESIS 600.000E-03;
LEVEL 0.0000000E+00;:EYEDIAGRAM:
FLEXRAY:SETUP:TRACE3:

HYSTERESIS 600.000E-03.....

### :EYEDiagram:FLEXray[:SETup]:BRATe

Function Sets the FLEXRAY eye diagram bit rate (data transfer rate) or queries the current setting.

Syntax :EYEDiagram:FLEXray[:SETup]:

 $\texttt{BRATe } \{ < \texttt{NRf} > \}$ 

:EYEDiagram:FLEXray[:SETup]:BRATe? <NRf> = 2500000, 5000000, or 10000000

Example :EYEDIAGRAM:FLEXRAY:SETUP:BRATE 5000000
:EYEDIAGRAM:FLEXRAY:SETUP:BRATE? ->
:EYEDIAGRAM:FLEXRAY:SETUP:BRATE 5000000

### :EYEDiagram:FLEXray[:SETup]:DMODe

Function Turns ON/OFF the diagram of the FLEXRAY eye diagram or queries the current setting.

Syntax :EYEDiagram:FLEXray[:SETup]:DMODe

{<Boolean>}

:EYEDiagram:FLEXray[:SETup]:DMODe?

Example :EYEDIAGRAM:FLEXRAY:SETUP:DMODE ON

:EYEDIAGRAM:FLEXRAY:SETUP:DMODE? ->

:EYEDIAGRAM:FLEXRAY:SETUP:DMODE: -:EYEDIAGRAM:FLEXRAY:SETUP:DMODE 1

### :EYEDiagram:FLEXray[:SETup]:FTRace

Function Sets the FLEXRAY eye diagram trace or queries the current setting.

Syntax :EYEDiagram:FLEXray[:SETup]:

FTRace {<NRf>}

:EYEDiagram:FLEXray[:SETup]:FTRace?

<NRf> = 1 to 8

Example :EYEDIAGRAM:FLEXRAY:SETUP:FTRACE 1
:EYEDIAGRAM:FLEXRAY:SETUP:FTRACE? ->
:EYEDIAGRAM:FLEXRAY:SETUP:FTRACE 1

### :EYEDiagram:FLEXray[:SETup]:

### <Parameter>?

Function Queries all settings related to the diagram of the FLEXRAY eye diagram.

<Parameter>={RX10|RX2\_5|RX5|TX10|TX2\_5|TX5}

Example (The following is an example with RX10.)

:EYEDIAGRAM:FLEXRAY:SETUP:RX10: :EYEDIAGRAM:FLEXRAY:SETUP:RX10: LRIGHT 800.00000E-09,770.00000E-09; RPOINT -3.00000E+00;ULOWER 400.0E-03, -400.0E-03;WIDTH 0.0000000E+00

### SETup]:<Parameter>:LRIGht

:EYEDiagram:FLEXray[:

Function Turns ON/OFF the diagram of the FLEXRAY eye diagram or queries the current setting.Syntax

EYEDiagram:FLEXray[:SETup]:

<Parameter>:LRIGht {<Time>,<Time>}
:EYEDiagram:FLEXray[:SETup]:

<Parameter>:LRIGht?

 $<\!\!Parameter\!\!>=\!\!\{RX10|RX2\_5|RX5|TX10|TX2\_5|TX5\}$ 

<Time> = See the SB5000 User's Manual

 ${\tt Example} \quad \hbox{(The following is an example with RX10.)}$ 

:EYEDIAGRAM:FLEXRAY:SETUP:RX10:

LRIGHT 1US, 2US

:EYEDIAGRAM:FLEXRAY:SETUP:RX10:LRIGHT?
-> :EYEDIAGRAM:FLEXRAY:SETUP:RX10:
LRIGHT 2.000E-06,1.000E-06

### :EYEDiagram:FLEXray[:

### SETup]:<Parameter>:RESet

Function Resets the diagram of the FLEXRAY eye diagram.

Syntax : EYEDiagram: FLEXray[:SETup]:

<Parameter>:RESet

<Parameter>={RX10|RX2\_5|RX5|TX10|TX2\_5|

TX5}

Example (The following is an example with RX10.)

:EYEDIAGRAM:FLEXRAY:SETUP:RX10:RESET

#### :EYEDiagram:FLEXray[:SETup]: :EYEDiagram:FLEXray[:SETup]:SELect Function Sets the FLEXRAY eye diagram or queries the <Parameter>:RPOint current setting. Function Sets the reference point of the diagram of the :EYEDiagram:FLEXray[:SETup]: Syntax FLEXRAY eye diagram or queries the current setting. SELect {RECeiver | TRANsmitter} Syntax :EYEDiagram:FLEXray[:SETup]: :EYEDiagram:FLEXray[:SETup]:SELect? <Parameter>:RPOint {<NRf>} Example :EYEDIAGRAM:FLEXRAY:SETUP: :EYEDiagram:FLEXray[:SETup]: ELECT RECEIVER <Parameter>:RPOint? :EYEDIAGRAM:FLEXRAY:SETUP:SELECT? <Parameter>={RX10|RX2\_5|RX5|TX10|TX2\_5|TX5} -> · EVEDTAGRAM·FLEXRAY·SETTIP· <NRf> = -5 to 5(div) SELECT RECEIVER Example (The following is an example with RX10.) :EYEDIAGRAM:FLEXRAY:SETUP:RX10:RPOINT 1 :EYEDiagram:FLEXray[:SETup]:TRACe<x>? : EYEDIAGRAM: FLEXRAY: SETUP: RX10: RPOINT? Queries all settings related to the FLEXRAY eye -> :EYEDIAGRAM:FLEXRAY:SETUP:RX10: Function RPOINT 1.00000E+00 diagram trace. :EYEDiagram:FLEXray[:SETup]:TRACe<x>? Syntax < x > = 1 to 8:EYEDiagram:FLEXray[:SETup]: Example :EYEDIAGRAM:FLEXRAY:SETUP:TRACE1? <Parameter>:ULOWer -> :EYEDIAGRAM:FLEXRAY:SETUP: Function Sets the upper and lower limits of the diagram of the TRACE1: HYSTERESIS 1.00000E+00; FLEXRAY eye diagram or queries the current setting. LEVEL 0.000000E+00 Syntax :EYEDiagram:FLEXray[:SETup]: <Parameter>:ULOWer {<NRf>,<NRf>| :EYEDiagram:FLEXray[:SETup]:TRACe<x>: <Voltage>, <Voltage> | <Current> | HYSTeresis <Current>} :EYEDiagram:FLEXray[:SETup]: Function Sets the hysteresis of each trace of the FLEXRAY <Parameter>:ULOWer? eye diagram or queries the current setting. <Parameter>={RX10|RX2\_5|RX5|TX10|TX2\_5|TX5} Syntax :EYEDiagram:FLEXray[:SETup]:TRACe<x>: <NRf>, <Voltage>, <Current> = See the SB5000 HYSTeresis {<NRf>} User's Manual :EYEDiagram:FLEXray[:SETup]:TRACe<x>: Example (The following is an example with RX10.) HYSTeresis? :EYEDIAGRAM:FLEXRAY:SETUP:RX10: < x > = 1 to 8ULOWER 1,2 <NRf> = 0 to 4 (div, in 0.1 div steps) : EYEDIAGRAM: FLEXRAY: SETUP: RX10: ULOWER? Example :EYEDIAGRAM:FLEXRAY:SETUP:TRACE1: -> :EYEDIAGRAM:FLEXRAY:SETUP:RX10: HYSTERESIS 1 ULOWER 2.000E+00,1.000E+00 : EYEDIAGRAM: FLEXRAY: SETUP: TRACE1: HYSTERESIS? -> :EYEDIAGRAM:FLEXRAY: SETUP:TRACE1:HYSTERESIS 1.00000E+00 :EYEDiagram:FLEXray[:SETup]: <Parameter>:WIDTh Function Sets the width of the diagram of the FLEXRAY eye diagram or queries the current setting. :EYEDiagram:FLEXray[: Syntax SETup]:<Parameter>:WIDTh {<Time>} :EYEDiagram:FLEXray[:SETup]: <Parameter>:WIDTh? <Parameter>={RX10|RX2\_5|RX5|TX10|TX2\_5|TX5} <Time> = See the SB5000 User's Manual Example (The following is an example with RX10.) :EYEDIAGRAM:FLEXRAY:SETUP:RX10: WIDTH 1HS :EYEDIAGRAM:FLEXRAY:SETUP:RX10:WIDTH? -> : EYEDIAGRAM: FLEXRAY: SETUP: RX10: WIDTH 1.000E-06

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### :EYEDiagram:FLEXray[:SETup]:TRACe<x>: LEVel

Function Sets the level of each trace of the FLEXRAY eye diagram or queries the current setting.

Syntax :EYEDiagram:FLEXray[:SETup]:TRACe<x>:

LEVel {<NRf>|<Voltage>|<Current>}
:EYEDiagram:FLEXray[:SETup]:TRACe<x>:

LEVel? <x> = 1 to 8

<NRf>, <Voltage>, <Current> = See the SB5000

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Example :EYEDIAGRAM:FLEXRAY:SETUP:TRACE1:

LEVEL 0

:EYEDIAGRAM:FLEXRAY:SETUP:TRACE1:LEVEL?
-> :EYEDIAGRAM:FLEXRAY:SETUP:TRACE1:

LEVEL 0.000000E+00

### :EYEDiagram:FLEXray[:SETup]:VTDisplay

Function Turns ON/OFF the FLEXRAY eye diagram VT waveform display or queries the current setting.

Syntax :EYEDiagram:FLEXray[:SETup]:

VTDisplay {<Boolean>}

:EYEDiagram:FLEXray[:SETup]:VTDisplay?

Example :EYEDIAGRAM:FLEXRAY:SETUP:VTDISPLAY ON

:EYEDIAGRAM:FLEXRAY:SETUP:VTDISPLAY? ->
:EYEDIAGRAM:FLEXRAY:SETUP:VTDISPLAY 1

### :EYEDiagram:FLEXray:TMODe

Function Sets the FLEXRAY eye diagram test mode or queries the current setting.

Syntax : EYEDiagram: FLEXray: TMODe {CONTinuous|

CYCLe }

:EYEDiagram:FLEXray:TMODe?

Example : EYEDIAGRAM: FLEXRAY: TMODE CONTINUOUS

:EYEDIAGRAM:FLEXRAY:TMODE? ->

:EYEDIAGRAM:FLEXRAY:TMODE CONTINUOUS

### :EYEDiagram:MODE

Function Sets the eye diagram mode or queries the current

Syntax : EYEDiagram: MODE {FLEXray | TELecomtest}

:EYEDiagram:MODE?

Example : EYEDIAGRAM: MODE FLEXRAY

:EYEDIAGRAM:MODE? -> :EYEDIAGRAM:

MODE FLEXRAY

### :EYEDiagram:TELecomtest?

Function Queries all settings related to the telecom test.

Syntax :EYEDiagram:TELecomtest?

Example :EYEDIAGRAM:TELECOMTEST? ->

:EYEDIAGRAM:TELECOMTEST:CATEGORY MASK; DISPLAY 1;EYEPATTERN:DBERATE:STATE 1;: EYEDIAGRAM:TELECOMTEST:EYEPATTERN:

EHEIGHT:STATE 1;:EYEDIAGRAM:
TELECOMTEST:EYEPATTERN:EWIDTH:
STATE 1;:EYEDIAGRAM:TELECOMTEST:
EYEPATTERN:FALL:STATE 1;:EYEDIAGRAM:

TELECOMTEST: EYEPATTERN: JITTER:
STATE 1;: EYEDIAGRAM: TELECOMTEST:
EYEPATTERN: PCROSSING: STATE 1;:
EYEDIAGRAM: TELECOMTEST: EYEPATTERN:
PDUTYCYCLE: STATE 1;: EYEDIAGRAM:
TELECOMTEST: EYEPATTERN: QFACTOR:

STATE 1;:EYEDIAGRAM:TELECOMTEST:
EYEPATTERN:RISE:STATE 1;:EYEDIAGRAM:

TELECOMTEST: EYEPATTERN: SDBASE:
STATE 1;: EYEDIAGRAM: TELECOMTEST:

EYEPATTERN:SDTOP:STATE 1;:EYEDIAGRAM:

TELECOMTEST: EYEPATTERN: T1CROSSING:
STATE 1;:EYEDIAGRAM:TELECOMTEST:
EYEPATTERN:T2CROSSING:STATE 1;:
EYEDIAGRAM:TELECOMTEST:EYEPATTERN:
TLEVELS:MODE PERCENT;PERCENT 90,10;

UNIT 1.0000000E+00,0.0000000E+00....

### :EYEDiagram:TELecomtest:CATegory

Function Sets the telecom test type or queries the current setting.

Syntax :EYEDiagram:TELecomtest:

CATegory {EYEPattern|MASK}

:EYEDiagram:TELecomtest:CATegory?

Example :EYEDIAGRAM:TELECOMTEST:

CATEGORY EYEPATTERN

:EYEDIAGRAM:TELECOMTEST:CATEGORY?

-> :EYEDIAGRAM:TELECOMTEST:

CATEGORY EYEPATTERN

### :EYEDiagram:TELecomtest:DISPlay

Function Turns ON/OFF the telecom test display or queries the current setting.

Syntax : EYEDiagram: TELecomtest:

DISPlay {<Boolean>}

:EYEDiagram:TELecomtest:DISPlay?
Example :EYEDIAGRAM:TELECOMTEST:DISPLAY ON

:EYEDIAGRAM:TELECOMTEST:DISPLAY? ->

:EYEDIAGRAM:TELECOMTEST:DISPLAY 1

### :EYEDiagram:TELecomtest:EYEPattern?

Function Queries all settings related to the eye pattern. Syntax :EYEDiagram:TELecomtest:EYEPattern? Example : EYEDIAGRAM: TELECOMTEST: EYEPATTERN?  $\rightarrow$ : EYEDIAGRAM: TELECOMTEST: EYEPATTERN: DBERATE: STATE 1; : EYEDIAGRAM: TELECOMTEST: EYEPATTERN: EHEIGHT: STATE 1;: EYEDIAGRAM: TELECOMTEST: EYEPATTERN: EWIDTH: STATE 1; : EYEDIAGRAM: TELECOMTEST: EYEPATTERN: FALL: STATE 1:: EYEDIAGRAM: TELECOMTEST: EYEPATTERN: JITTER:STATE 1;:EYEDIAGRAM:TELECOMTEST: EYEPATTERN: PCROSSING: STATE 1;: EYEDIAGRAM: TELECOMTEST: EYEPATTERN: PDUTYCYCLE:STATE 1;:EYEDIAGRAM: TELECOMTEST: EYEPATTERN: QFACTOR: STATE 1;:EYEDIAGRAM:TELECOMTEST: EYEPATTERN: RISE: STATE 1; : EYEDIAGRAM: TELECOMTEST: EYEPATTERN: SDBASE: S TATE 1;:EYEDIAGRAM:TELECOMTEST: EYEPATTERN:SDTOP:STATE 1;:EYEDIAGRAM:

### :EYEDiagram:TELecomtest:EYEPattern:ALL

TELECOMTEST: EYEPATTERN: T1CROSSING:

Function Turns ON/OFF all eye pattern parameters.

:EYEDiagram:TELecomtest:EYEPattern: Syntax

ALL {<Boolean>}

STATE 1....

Example :EYEDIAGRAM:TELECOMTEST:EYEPATTERN:

### :EYEDiagram:TELecomtest:EYEPattern:

### <Parameter>?

Function Queries all settings related to eye pattern waveform parameters.

Syntax :EYEDiagram:TELecomtest:

EYEPattern:<Parameter>?

<Parameter>={DBERate|EHEight|EWIDth|FALL| JITTer|PCROssing|PDUTycycle|QFACtor|RISE| SDBase|SDTop|T1CRossing|T2CRossing|VBASe| VCRossing|VTOP}

Example (The following is an example regarding DBERate.)

: EYEDIAGRAM: TELECOMTEST: EYEPATTERN: DBERATE? → :EYEDIAGRAM:TELECOMTEST:

EYEPATTERN: DBERATE: STATE 1

Description • For the correspondence between communication commands and the parameters used, see appendix

> See the main unit user's manual for details about parameters.

### :EYEDiagram:TELecomtest:EYEPattern:

### <Parameter>:STATe

Turns ON/OFF eye pattern waveform parameters or Function

queries the current setting.

Syntax :EYEDiagram:TELecomtest:EYEPattern:

<Parameter>:STATe {<Boolean>}

:EYEDiagram:TELecomtest:EYEPattern:

<Parameter>:STATe?

<Parameter>={DBERate|EHEight|EWIDth|FALL| JITTer|PCROssing|PDUTycycle|QFACtor|RISE| SDBase|SDTop|T1CRossing|T2CRossing|VBASe|

VCRossing|VTOP}

Example (The following is an example regarding DBERate.)

:EYEDIAGRAM:TELECOMTEST:EYEPATTERN:

DBERATE:STATE ON

: EYEDIAGRAM: TELECOMTEST: EYEPATTERN:

DBERATE:STATE? → :EYEDIAGRAM:

TELECOMTEST: EYEPATTERN: DBERATE: STATE 1

### :EYEDiagram:TELecomtest:EYEPattern:

### <Parameter>:VALue?

Function Queries eye pattern waveform parameter values.

:EYEDiagram:TELecomtest:EYEPattern: Syntax

<Parameter>:VALue?

<Parameter>={DBERate|EHEight|EWIDth|FALL| JITTer|PCROssing|PDUTycycle|QFACtor|RISE| SDBase|SDTop|T1CRossing|T2CRossing|VBASe|

VCRossing|VTOP}

(The following is an example regarding DBERate.) Example

:EYEDIAGRAM:TELECOMTEST:EYEPATTERN: DBERATE: VALUE? → : EYEDIAGRAM:

TELECOMTEST: EYEPATTERN: DBERATE:

VALUE 1.000E+00

## :EYEDiagram:TELecomtest:EYEPattern:

### TLEVels?

Function Queries all settings related to eye pattern threshold

:EYEDiagram:TELecomtest:EYEPattern: Syntax

TLEVels?

Example : EYEDIAGRAM: TELECOMTEST: EYEPATTERN:

TLEVELS?  $\rightarrow$  :EYEDIAGRAM:TELECOMTEST: EYEPATTERN: TLEVELS: MODE PERCENT; PERCENT 90,10; UNIT 1.0000000E+00,

0.000000E+00

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### :EYEDiagram:TELecomtest:EYEPattern: TLEVels:MODE

Function Sets the unit of the eye pattern threshold level or queries the current setting.

Syntax : EYEDiagram: TELecomtest: EYEPattern:

TLEVels:MODE {PERCent|UNIT}

:EYEDiagram:TELecomtest:EYEPattern:

TLEVels:MODE?

Example : EYEDIAGRAM: TELECOMTEST: EYEPATTERN:

TLEVELS: MODE PERCENT

: EYEDIAGRAM: TELECOMTEST: EYEPATTERN:

TLEVELS:MODE? → :EYEDIAGRAM: TELECOMTEST:EYEPATTERN:TLEVELS:

MODE PERCENT

### :EYEDiagram:TELecomtest:EYEPattern: TLEVels:PERCent

Function Sets the eye pattern threshold level to a percentage

(%) or queries the current setting.

Syntax : EYEDiagram:TELecomtest:EYEPattern:

TLEVels:PERCent {<NRf>, <NRf>}

:EYEDiagram:TELecomtest:EYEPattern:

TLEVels: PERCent? <NRf>=0 to 100(%)

Example : EYEDIAGRAM: TELECOMTEST: EYEPATTERN:

TLEVELS: PERCENT 90,10

PERCENT 90,10

### :EYEDiagram:TELecomtest:EYEPattern: TLEVels:UNIT

Function Sets the eye pattern threshold level in UNIT or queries the current setting.

Syntax :EYEDiagram:TELecomtest:EYEPattern: TLEVels:UNIT {<NRf>,<NRf>|<Voltage>,

<Voltage>|<Current>, <Current>}
:EYEDiagram:TELecomtest:EYEPattern:

TLEVels:UNIT?

<NRf>,<Voltage>, and <Current> = See the SB5000 User's Manual

Example : EYEDIAGRAM: TELECOMTEST: EYEPATTERN:

TLEVELS:UNIT 1,0

0.000000E+00

# :EYEDiagram:TELecomtest:EYEPattern: VDARk

Function Sets the dark level (zero light level) of the eye pattern

or queries the current setting.

Syntax :EYEDiagram:TELecomtest:EYEPattern:

VDARk {<NRf>|<Voltage>|<Current>}
:EYEDiagram:TELecomtest:EYEPattern:

JDARk?

<NRf>, <Voltage>, <Current> = See the SB5000

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Example :EYEDIAGRAM:TELECOMTEST:EYEPATTERN:

VDARK 1.000E+00

:EYEDIAGRAM:TELECOMTEST:EYEPATTERN:
VDARK? → :EYEDIAGRAM:TELECOMTEST:
EYEPATTERN:VDARK 1.0000000E+00

### :EYEDiagram:TELecomtest:MASK?

Function Queries all settings related to the mask test.

Syntax :EYEDiagram:TELecomtest:MASK?

Example :EYEDIAGRAM:TELECOMTEST:MASK? ->

: EYEDIAGRAM: TELECOMTEST: MASK: ELEMENT1:

PSPCOUNT:STATE 1;:EYEDIAGRAM:

TELECOMTEST: MASK: ELEMENT1: PWCOUNT:

STATE 1;:EYEDIAGRAM:TELECOMTEST:MASK: ELEMENT1:SPCOUNT:STATE 1;:EYEDIAGRAM:

TELECOMTEST: MASK: ELEMENT1: WCOUNT:

STATE 1;:EYEDIAGRAM:TELECOMTEST:MASK:

ELEMENT2:PSPCOUNT:STATE 0;:EYEDIAGRAM:

TELECOMTEST: MASK: ELEMENT2: PWCOUNT: STATE 0;: EYEDIAGRAM: TELECOMTEST: MASK:

ELEMENT2:SPCOUNT:STATE 0;:EYEDIAGRAM:

TELECOMTEST: MASK: ELEMENT2: WCOUNT:

STATE 0;:EYEDIAGRAM:TELECOMTEST:MASK:

ELEMENT3: PSPCOUNT: STATE 0; : EYEDIAGRAM:

TELECOMTEST: MASK: ELEMENT3: PWCOUNT:

STATE 0;:EYEDIAGRAM:TELECOMTEST:MASK: ELEMENT3:SPCOUNT:STATE 0.....

### :EYEDiagram:TELecomtest:MASK:

### ELEMent<x>?

Function Queries all settings related to each element used in the mask test.

Syntax :EYEDiagram:TELecomtest:MASK:

> ELEMent<x>? < x > = 1 to 4

Example : EYEDIAGRAM: TELECOMTEST: MASK: ELEMENT1?

-> : EYEDIAGRAM: TELECOMTEST: MASK: ELEMENT1:PSPCOUNT:STATE 1;:EYEDIAGRAM: TELECOMTEST: MASK: ELEMENT1: PWCOUNT: STATE 1;:EYEDIAGRAM:TELECOMTEST:MASK: ELEMENT1:SPCOUNT:STATE 1;:EYEDIAGRAM: TELECOMTEST: MASK: ELEMENT1: WCOUNT: STATE 1

### :EYEDiagram:TELecomtest:MASK:

### ELEMent<x>:ALL

Function Turns ON/OFF all items of each element all at once.

:EYEDiagram:TELecomtest:MASK: Syntax

ELEMent<x>:ALL {<Boolean>}

< x > = 1 to 4

Example :EYEDIAGRAM:TELECOMTEST:MASK:ELEMENT1:

ALL ON

### :EYEDiagram:TELecomtest:MASK:

### ELEMent<x>:<Parameter>?

Function Queries settings related to waveform parameters of

each element.

:EYEDiagram:TELecomtest:MASK: Syntax

ELEMent<x>:<Parameter>?

< x > = 1 to 4

<Parameter>={PSPCount|PWCount|SPCount|

WCOunt}

Example (The following is an example with PSPCount.))

: EYEDIAGRAM: TELECOMTEST: MASK: ELEMENT1: PSPCOUNT? -> :EYEDIAGRAM:TELECOMTEST:

MASK: ELEMENT1: PSPCOUNT: STATE 1

Description • For the correspondence between communication commands and the parameters used, see appendix

· See the main unit user's manual for details about parameters.

### :EYEDiagram:TELecomtest:MASK:

### ELEMent<x>:<Parameter>:STATe

Turns ON/OFF waveform parameters of each Function

element or queries the current setting.

Syntax :EYEDiagram:TELecomtest:MASK:

ELEMent<x>:<Parameter>:

STATe {<Boolean>}

:EYEDiagram:TELecomtest:MASK: ELEMent<x>:<Parameter>:STATe?

< x > = 1 to 4

Example (The following is an example with PSPCount.)

:EYEDIAGRAM:TELECOMTEST:MASK:ELEMENT1:

PSPCOUNT: STATE ON

: EYEDIAGRAM: TELECOMTEST: MASK: ELEMENT1:

PSPCOUNT:STATE? -> :EYEDIAGRAM: TELECOMTEST: MASK: ELEMENT1: PSPCOUNT:

STATE 1

### :EYEDiagram:TELecomtest:MASK:

### ELEMent<x>:<Parameter>:VALue?

Function Queries waveform parameters of each element.

Syntax :EYEDiagram:TELecomtest:MASK: ELEMent<x>:<Parameter>:VALue?

< x > = 1 to 4

Example (The following is an example with PSPCount.)

:EYEDIAGRAM:TELECOMTEST:MASK:ELEMENT1:

PSPCOUNT: VALUE? -> : EYEDIAGRAM: TELECOMTEST: MASK: ELEMENT1: PSPCOUNT:

VALUE 1.000E+00

### :EYEDiagram:TELecomtest:MMODe

Function Turns ON/OFF mask display or queries the current

setting.

:EYEDiagram:TELecomtest: Syntax

MMODe {<Boolean>}

:EYEDiagram:TELecomtest:MMODe?

Example : EYEDIAGRAM: TELECOMTEST: MMODE ON

:EYEDIAGRAM:TELECOMTEST:MMODE? →

:EYEDIAGRAM:TELECOMTEST:MMODE 1

### :EYEDiagram:TELecomtest:TRACe

Function Sets the telecom test trace or queries the current

Syntax :EYEDiagram:TELecomtest:TRACe {<NRf>}

:EYEDiagram:TELecomtest:TRACe?

<NRf> = 1 to 8

Example :EYEDIAGRAM:TELECOMTEST:TRACE 1

:EYEDIAGRAM:TELECOMTEST:TRACE? ->

:EYEDIAGRAM:TELECOMTEST:TRACE 1

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# :EYEDiagram:TELecomtest:TRANge (Time Range)

Function Sets the telecom test measuring range or queries the

current setting.

Syntax : EYEDiagram: TELecomtest:

TRANge {<NRf>, <NRf>}

:EYEDiagram:TELecomtest:TRANge?

<NRf> = -5 to 5(div)

Example :EYEDIAGRAM:TELECOMTEST:TRANGE -5,0

:EYEDIAGRAM:TELECOMTEST:TRANGE?
-> :EYEDIAGRAM:TELECOMTEST:
TRANGE 0.000E+00,-5.000E+00

### :EYEDiagram:TELecomtest:WINDow

Function Sets the window of the telecom test or queries the

current setting.

Syntax : EYEDiagram: TELecomtest:

WINDow {MAIN | Z1 | Z2 }

:EYEDiagram:TELecomtest:WINDow?

Example : EYEDIAGRAM: TELECOMTEST: WINDOW MAIN

:EYEDIAGRAM:TELECOMTEST:WINDOW? -> :EYEDIAGRAM:TELECOMTEST:WINDOW MAIN

## 5.12 FILE Group

## :FILE?

Function Queries all settings related to the specified storage medium or internal memory.

Syntax :FILE?

Example :FILE? ->: FILE:DIRECTORY:CDIRECTORY "\FlashMem\HOME";:FILE:INTERNAL:STORE: BINARY:TRACE 1;:FILE:INTERNAL:STORE: DMEMORY:TRACE 1;:FILE:INTERNAL:STORE: SETUP: COMMENT1 "WAVE1"; COMMENT2 ""; COMMENT3 ""; COMMENT4 ""; COMMENT5 ""; COMMENT6 ""; COMMENT7 ""; COMMENT8 ""; COMMENT9 ""; COMMENT10 ""; COMMENT11 ""; COMMENT12 ""; LOCK1 1; LOCK2 0; LOCK3 0; LOCK4 0;LOCK5 0;LOCK6 0;LOCK7 0; LOCK8 0;LOCK9 0;LOCK10 0;LOCK11 0; LOCK12 0;:FILE:LOAD:BINARY: REFERENCE 1;:FILE:LOAD:ZPOLYGON: ZONE 1;:FILE:LOAD:ZWAVE:ZONE1;:FILE: SAVE:AHISTOGRAM:ANALYSIS 1;:FILE:SAVE: ANAMING DATE; ASCII: COMPRESSION DECIMATION; HISTORY ONE;

LENGTH 2500; RANGE MAIN; TRACE 1;: FILE: SAVE: BINARY: COMPRESSION DECIMATION; HISTORY ONE; LENGTH 2500; TRACE 1; :FILE:SAVE: COMMENT "THIS IS TEST"; DMEMORY: TRACE 1;:FILE:SAVE:FFT:ANALYSIS 1;: FILE: SAVE: FLOAT: COMPRESSION DECIMATION; HISTORY ONE; LENGTH 2500; TRACE 1; :FILE: SAVE:

NAME "SB5000"; SBUS: ANALYSIS 1;: FILE: SAVE: ZWAVE: ZONE 1

### :FILE:DIRectory?

Function Queries all settings related to the specified storage medium.

Syntax :FILE:DIRectory?

Example :FILE:DIRECTORY? -> :FILE:DIRECTORY:

CDIRECTORY "\Flash Mem\HOME"

## :FILE[:DIRectory]:CDIRectory

### (Change Directory)

Function Sets the current directory or queries the current

Syntax :FILE[:DIRectory]:CDIRectory {<String>}

:FILE[:DIRectory]:CDIRectory? <String> = Up to 259 characters

Example :FILE:DIRECTORY:CDIRECTORY "\Flash Mem\

DIR1\DIR2"

(Absolute path designation)

:FILE:DIRECTORY:CDIRECTORY "DIR2"

(Relative path designation)

:FILE:DIRECTORY:CDIRECTORY "\"

(Root directory designation)

:FILE:DIRECTORY:CDIRECTORY? -> :FILE:

DIRECTORY:

CDIRECTORY "\Flash Mem\DIR1\DIR2"

Description • Data files cannot be saved to the root directory. Specify a save destination drive for the save

directory.

The following five drives are selectable.

 Internal hard disk: "HD"

"Flash Mem" Internal memory: Network drive: "Network"

PC card: "Storage Card<x>"

• USB storage device: "USB Storage<x>"

<x> = 1 to 4 (however, only a total of four "Storage

Card" and "USB Storage" designations are

supported (including partitions))

- · Sets the specified directory the current directory for saving and loading.
- · Absolute and relative path designations are possible.
- · To specify an absolute path, enter a backslash at the front of the path.
- · Relative path to higher level directories is not allowed.

### :FILE[:DIRectory]:FREE?

Function Queries the free disk space in bytes on the specified storage medium.

Syntax :FILE[:DIRectory]:FREE? Example :FILE:DIRECTORY:FREE?-> :FILE: DIRECTORY: FREE 65536

Description • Returns the size of the current directory.

• If the current directory is the root directory, "0" is returned.

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### :FILE[:DIRectory]:MDIRectory

### (Make Directory)

Function Creates a directory under the specified directory.

This is an overlap command.

Syntax :FILE[:DIRectory]:MDIRectory {<String>}

<String> = Up to 259 characters

Example :FILE:DIRECTORY:

MDIRECTORY "\Flash Mem\DIR1\DIR2"

(Absolute path designation)

:FILE:DIRECTORY:MDIRECTORY "DIR2"

(Relative path designation)

Description For details on the <String> parameter, see the description in FILE[:DIRectory]:CDIRectory.

### :FILE:INTernal?

Function Queries all settings related to the internal memory.

Syntax :FILE:INTernal?

Example :FILE:INTERNAL? -> :FILE:INTERNAL:

STORE:BINARY:TRACE 1;

:FILE:INTERNAL:STORE:DMEMORY:TRACE 1;

:FILE:INTERNAL:STORE:SETUP:

COMMENT1 "WAVE1"; COMMENT2 "";

COMMENT3 ""; COMMENT4 ""; COMMENT5 "";

COMMENT6 ""; COMMENT7 ""; COMMENT8 "";

COMMENT9 ""; COMMENT10 ""; COMMENT11 "";

COMMENT12 "";LOCK1 1;LOCK2 0;LOCK3 0; LOCK4 0;LOCK5 0;LOCK6 0;LOCK7 0;

LOCK8 0;LOCK9 0;LOCK10 0;LOCK11 0;

LOCK12 0

### :FILE:INTernal:RECall:

### DMEMory[:EXECute]

Function Executes the loading of the accumulated data from

the internal memory. This is an overlap command.

Syntax :FILE:INTernal:RECall:DMEMory

[:EXECute] {<NRf>} <NRf> = 1 to 4

Example :FILE:INTERNAL:RECALL:DMEMORY:EXECUTE 1

### :FILE:INTernal:RECall:SETup[:EXECute]

Function Executes the loading of the setup data from the internal memory. This is an overlap command.

Syntax :FILE:INTernal:RECall:

SETup[:EXECute] {<NRf>}

<NRf> = 1 to 12

Example :FILE:INTERNAL:RECALL:SETUP:EXECUTE 1

### :FILE:INTernal:STORe?

Function Queries all settings related to the saving to the

internal memory.

Syntax :FILE:INTernal:STORe?

Example :FILE:INTERNAL:STORE? -> :FILE:

INTERNAL:STORE:BINARY:TRACE 1;

:FILE:INTERNAL:STORE:DMEMORY:TRACE 1;

:FILE:INTERNAL:STORE:SETUP:
COMMENT1 "WAVE1";COMMENT2 "";

COMMENT: "WAVE1"; COMMENT: 2"";

COMMENT3 ""; COMMENT4 ""; COMMENT5 "";

COMMENT6 ""; COMMENT7 ""; COMMENT8 "";

COMMENT9 ""; COMMENT10 ""; COMMENT11 "";

COMMENT12 "";LOCK1 1;LOCK2 0;LOCK3 0;

LOCK4 0;LOCK5 0;LOCK6 0;LOCK7 0; LOCK8 0;LOCK9 0;LOCK10 0;LOCK11 0;

LOCK12 0

### :FILE:INTernal:STORe:BINary?

Function Queries all settings related to the saving of the binary

data to the internal memory.

Syntax :FILE:INTernal:STORe:BINary?

Example :FILE:INTERNAL:STORE:BINARY? -> :FILE:

INTERNAL:STORE:BINARY:TRACE 1

### :FILE:INTernal:STORe:BINary[:EXECute]

Function Executes the saving of the binary data to the internal

memory. This is an overlap command.

Syntax :FILE:INTernal:STORe:BINary

[:EXECute]  $\{ < NRf > \}$ 

< NRf > = 1 to 4

Example :FILE:INTERNAL:STORE:BINARY:EXECUTE 1

### :FILE:INTernal:STORe:BINary:TRACe

Function Sets the trace to be saved in binary data to the

internal memory or queries the current setting.

Syntax :FILE:INTernal:STORe:BINary:

 ${\tt TRACe} \ \{{\tt <NRf>}\}$ 

:FILE:INTernal:STORe:BINary:TRACe?

<NRf> = 1 to 8

Example :FILE:INTERNAL:STORE:BINARY:TRACE 1

:FILE:INTERNAL:STORE:BINARY:TRACE?

-> :FILE:INTERNAL:STORE:BINARY:TRACE 1

### :FILE:INTernal:STORe:DMEMory?

Function Queries all settings related to the saving of the accumulated data to the internal memory.

Syntax :FILE:INTernal:STORe:DMEMory?

Example :FILE:INTERNAL:STORE:DMEMORY? -> :FILE:

INTERNAL:STORE:DMEMORY:TRACE 1

#### :FILE:INTernal:STORe:DMEMory[:EXECute] :FILE:INTernal:STORe:SETup[:EXECute] Function Executes the saving of the accumulated data to the Executes the saving of the setup data to the internal internal memory. This is an overlap command. memory. This is an overlap command. Syntax :FILE:INTernal:STORe: :FILE:INTernal:STORe:SETup Syntax DMEMory[:EXECute] {<NRf>} [:EXECute] {<NRf>} <NRf> = 1 to 4< NRf > = 1 to 12Example :FILE:INTERNAL:STORE:DMEMORY:EXECUTE 1 Example :FILE:INTERNAL:STORE:SETUP:EXECUTE 1 :FILE:INTernal:STORe:DMEMory:TRACe :FILE:INTernal:STORe:SETup:LOCK<x> Function Sets the trace to be saved in accumulated data to the Function Turns ON/OFF the read-only attribute of the setup internal memory or queries the current setting. data in the internal memory or queries the current Syntax :FILE:INTernal:STORe:DMEMory: setting. TRACe { < NRf > | ALL | XY1 | XY2 } :FILE:INTernal:STORe:SETup: Syntax :FILE:INTernal:STORe:DMEMory:TRACe? LOCK<x> {<Boolean>} <NRf> = 1 to 8 :FILE:INTernal:STORe:SETup:LOCK<x>? Example :FILE:INTERNAL:STORE:DMEMORY:TRACE 1 < x > = 1 to 12Example :FILE:INTERNAL:STORE:SETUP:LOCK1 ON :FILE:INTERNAL:STORE:DMEMORY:TRACE? -> :FILE:INTERNAL:STORE:DMEMORY:TRACE 1 :FILE:INTERNAL:STORE:SETUP:LOCK1? -> :FILE:INTERNAL:STORE:SETUP:LOCK1 1 :FILE:INTernal:STORe:SETup? :FILE:INTernal:UNLoad: Function Queries all settings related to the saving of the setup data to the internal memory. DMEMory[:EXECute] :FILE:INTernal:STORe:SETup? Syntax Function Clears the loaded accumulated data. Example :FILE:INTERNAL:STORE:SETUP? -> :FILE: Syntax :FILE:INTernal:UNLoad:DMEMory[:EXECute] INTERNAL:STORE:SETUP:COMMENT1 "WAVE1"; Example :FILE:INTERNAL:UNLOAD:DMEMORY:EXECUTE COMMENT2 ""; COMMENT3 ""; COMMENT4 ""; COMMENT5 ""; COMMENT6 ""; COMMENT7 ""; :FILE:LOAD? COMMENT8 ""; COMMENT9 ""; COMMENT10 ""; Function Queries all settings related to the loading of files on COMMENT11 ""; COMMENT12 ""; LOCK1 1; the specified storage medium. LOCK2 0; LOCK3 0; LOCK4 0; LOCK5 0; Syntax :FILE:LOAD? LOCK6 0; LOCK7 0; LOCK8 0; LOCK9 0; Example :FILE:LOAD? -> :FILE:LOAD:BINARY: LOCK10 0;LOCK11 0;LOCK12 0 REFERENCE 1;:FILE:LOAD:ZPOLYGON:ZONE 1; :FILE:LOAD:ZWAVE:ZONE 1 :FILE:INTernal:STORe:SETup:COMMent<x> Function Sets the comment to the setup data to be saved to :FILE:LOAD:{BINary|ZPOLYGON|ZWAVe}? the internal memory or queries the current setting. Function Queries all settings related to the loading of specific Syntax :FILE:INTernal:STORe:SETup: COMMent<x> {<String>} $: \verb+FILE:LOAD: \verb+{BINary | ZPOLYGON | ZWAVe}+?$ Syntax :FILE:INTernal:STORe:SETup:COMMent<x>? Example (The following is an example for binary data.) < x > = 1 to 12:FILE:LOAD:BINARY? -> :FILE:LOAD: <String> = Up to 16 characters BINARY: REFERENCE 1 Example :FILE:INTERNAL:STORE:SETUP: COMMENT1 "WAVE1" :FILE:INTERNAL:STORE:SETUP:COMMENT1? -> : FILE: INTERNAL: STORE: SETUP: COMMENT1 "WAVE1" :FILE:INTernal:STORe:SETup:DATE<x>? Function Queries the date/time when the setup data was saved to the internal memory. Syntax :FILE:INTernal:STORe:SETup:DATE<x>? < x > = 1 to 12Example :FILE:INTERNAL:STORE:SETUP:DATE1? -> :FILE:INTERNAL:STORE:SETUP: DATE1 "2007/01/12 14:58:02"

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## $\verb:FILE:LOAD: \verb{\{BINary \mid \texttt{DMEMory} \mid \texttt{MASK} \mid \texttt{SETup} \mid }$

### SYMBol | ZPOLygon | ZWAVe } : ABORt

Function Aborts the loading of specific data.

Syntax :FILE:LOAD:{BINary|DMEMory|MASK|SETup|

SYMBol | ZPOLygon | ZWAVe } : ABORt

Example (The following is an example for binary data.)

:FILE:LOAD:BINARY:ABORT

## $: \mathtt{FILE:LOAD:} \big\{ \mathtt{BINary} \, \big| \, \mathtt{DMEMory} \, \big| \, \mathtt{MASK} \, \big| \, \mathtt{SETup} \, \big|$

### SYMBol | ZPOLygon | ZWAVe ] [: EXECute]

Function Executes the loading of specific data. This is an

overlap command.

Syntax :FILE:LOAD:{BINary|DMEMory|MASK|SETup|

SYMBol|ZPOLygon|ZWAVe}[:EXECute]

{<String>}

<String> = Up to 259 characters

Example (The following is an example for binary data.)

:FILE:LOAD:BINARY:

EXECUTE "\Flash Mem\DIR\DATA"

(Absolute path designation)

:FILE:LOAD:BINARY:EXECUTE "DATA"

(Relative path designation)

Description For details on the <String> parameter, see the

description in FILE[:DIRectory]:CDIRectory.

### :FILE:LOAD:BINary:REFerence

Function Sets the load destination of the binary data or queries

the current setting.

ACQMemory}

:FILE:LOAD:BINary:REFerence?

<NRf> = 1 to 4

Example :FILE:LOAD:BINARY:REFERENCE 1

:FILE:LOAD:BINARY:REFERENCE? -> :FILE:

LOAD:BINARY:REFERENCE 1

### :FILE:LOAD:{ZPOLygon|ZWAVe}:ZONE

Function Sets the load destination of the zone data of specific data or queries the current setting.

Syntax :FILE:LOAD:{ZPOLygon|ZWAVe}:

ZONE {<NRf>}

:FILE:LOAD:{ZPOLygon|ZWAVe}:ZONE?

< NRf > = 1 to 4

Example (The following is an example for ZONE WAVE data.)

:FILE:LOAD:ZWAVE:ZONE 1

:FILE:LOAD:ZWAVE:ZONE? -> :FILE:LOAD:

ZWAVE:ZONE 1

### :FILE:SAVE?

Function Queries all settings related to the saving of data.

Syntax :FILE:SAVE?

Example :FILE:SAVE? ->: FILE:SAVE:AHISTOGRAM:

ANALYSIS 1;:FILE:SAVE:ANAMING DATE;

ASCII: COMPRESSION DECIMATION;

HISTORY ONE; LENGTH 2500; RANGE MAIN;

TRACE 1;:FILE:SAVE:BINARY:

COMPRESSION DECIMATION; HISTORY ONE; LENGTH 2500; TRACE 1; :FILE: SAVE: COMMENT "THIS IS TEST"; DMEMORY:

TRACE 1;:FILE:SAVE:FFT:ANALYSIS 1;:

FILE:SAVE:FLOAT:

COMPRESSION DECIMATION; HISTORY ONE;

LENGTH 2500; TRACE 1; :FILE: SAVE:

NAME "SB5000";SBUS:ANALYSIS 1;:FILE:

SAVE: ZWAVE: ZONE 1

# :FILE:SAVE:{AHIStogram|ASCii|BINary| DMEMory|FFT|FLOat|SBUS|ZWAVe}?

Function Queries all settings related to the saving of specific

data.

Syntax :FILE:SAVE:{AHIStogram|ASCii|BINary|

DMEMory|FFT|FLOat|SBUS|ZWAVe}?

Example (The following is an example for binary data.)

:FILE:SAVE:BINARY? -> :FILE:SAVE: BINARY:COMPRESSION DECIMATION; HISTORY ONE;LENGTH 2500;TRACE 1

# :FILE:SAVE:{AHIStogram|ASCii|BINary| DMEMory|FFT|FLOat|SETup|SBUS|

### WPARameter | ZWAVe } : ABORt

Function Aborts the save operation of specific data.

Syntax :FILE:SAVE:{AHIStogram|ASCii|BINary|

DMEMory|FFT|FLOat|SETup|SBUS|
WPARameter|ZWAVe}:ABORt

Example (The following is an example for binary data.)

:FILE:SAVE:BINARY:ABORT

#### 5.12 FILE Group :FILE:SAVE:{AHIStogram|ASCii|BINary| :FILE:SAVE:{ASCii|BINary|FLOat}: DMEMory | FFT | FLOat | SETup | SBUS | COMPression Sets the compression method for saving specific data WPARameter | ZWAVe } [:EXECute] Function or queries the current setting. Function Executes the saving of specific data by specifying a Syntax :FILE:SAVE:{ASCii|BINary|FLOat}: file name. This is an overlap command. COMPression {DECimation|OFF|PTOPeak :FILE:SAVE:{AHIStogram|ASCii|BINary| Syntax ISTATe } DMEMory | FFT | FLOat | SETup | SBUS | :FILE:SAVE:{ASCii|BINary|FLOat}: WPARameter | ZWAVe ] [:EXECute] { < String > } COMPression? <String> = Up to 259 characters Example (The following is an example for binary data.) Example (The following is an example for binary data.) :FILE:SAVE:BINARY: :FILE:SAVE:BINARY:EXECUTE COMPRESSION DECIMATION :FILE:SAVE:BINARY: :FILE:SAVE:BINARY:COMPRESSION? EXECUTE "\Flash Mem\DIR\DATA" -> :FILE:SAVE:BINARY: (Absolute path designation) COMPRESSION DECIMATION :FILE:SAVE:BINARY:EXECUTE "DATA" Description (DECimation) is invalid if :FILE:SAVE: (Relative path designation) {ASCii|BINary}:TRACe LOGic. Description. If the path is not specified, the data is saved to the {STATe} is invalid for other than :FILE:SAVE: file name specified by :FILE:SAVE:NAME. ASCii:TRACe LOGic. • If the path is specified, the auto naming function is disabled. :FILE:SAVE:{ASCii|BINary|FLOat}: • For details on the <String> parameter, see the description in FILE[:DIRectory]:CDIRectory. HISTory Function Sets whether to save the entire data or the selected :FILE:SAVE:{AHIStogram|FFT|SBUS}: data of specific data or queries the current setting. Syntax :FILE:SAVE:{ASCii|BINary|FLOat}: ANALysis HISTORY {ALL | ONE } Function Sets the trace of specific data to be saved or queries :FILE:SAVE:{ASCii|BINary|FLOat}: the current setting. HISTory? Syntax FILE:SAVE:{AHIStogram|FFT|SBUS}: Example (The following is an example for binary data.) ANALysis {<NRf>} :FILE:SAVE:BINARY:HISTORY ALL FILE:SAVE:{AHIStogram|FFT|SBUS}: :FILE:SAVE:BINARY:HISTORY? -> :FILE: ANALysis? SAVE: BINARY: HISTORY ALL <NRf> = 1 to 2 Example (The following is an example for FFT data.) :FILE:SAVE:FFT:ANALYSIS 1

### :FILE:SAVE:ANAMing

FFT: ANALYSIS 1

Function Sets the type of auto naming of file names of the saved data or queries the current setting.

Syntax :FILE:SAVE:ANAMING {DATE | NUMBering | OFF} }
:FILE:SAVE:ANAMING DATE |
:FILE:SAVE:ANAMING DATE |
:FILE:SAVE:ANAMING? -> :FILE:SAVE:ANAMING DATE |

:FILE:SAVE:FFT:ANALYSIS? -> :FILE:SAVE:

# :FILE:SAVE:{ASCii|BINary|FLOat}:LENGth Function Sets the size of waveform data to save for each type

of data or queries the current setting.

Syntax :FILE:SAVE:{ASCii|BINary|FLOat}:
 LENGth {<NRf>}
 :FILE:SAVE:{ASCii|BINary|FLOat}:LENGth?
 <NRf> = See the main unit User's Manual.

Example (The following is an example with binary data.)
 :FILE:SAVE:BINARY:LENGTH 2500
 :FILE:SAVE:BINARY:LENGTH? -> :FILE:
 SAVE:BINARY:LENGTH 2500

### :FILE:SAVE:ASCii:RANGe

```
Function Sets the ASCII data saving range or queries the current setting.

Syntax :FILE:SAVE:ASCII:RANGe {MAIN|Z1|Z2} :FILE:SAVE:ASCII:RANGE MAIN :FILE:SAVE:ASCII:RANGE MAIN :FILE:SAVE:ASCII:RANGE MAIN :FILE:SAVE:ASCII:RANGE MAIN
```

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### :FILE:SAVE:{ASCii|BINary|FLOat}:TRACe

Function Sets the trace of specific data to be saved or queries the current setting.

Syntax :FILE:SAVE:{ASCii|BINary|FLOat}:

TRACe {<NRf>|ALL|LOGic}

:FILE:SAVE:{ASCii|BINary|FLOat}:TRACe?

< NRf > = 1 to 8

Example (The following is an example for binary data.)

:FILE:SAVE:BINARY:TRACE 1

:FILE:SAVE:BINARY:TRACE? -> :FILE:SAVE:

BINARY: TRACE 1

Description The source waveform {LOGic} is invalid if :FILE:

SAVE:{FLOat}:TRACe.

### :FILE:SAVE:COMMent

Function Sets the comment of data to be saved or queries the

current setting.

Syntax :FILE:SAVE:COMMent {<String>}

:FILE:SAVE:COMMent?

<String> = Up to 160 characters

Example :FILE:SAVE:COMMENT "THIS IS TEST"

:FILE:SAVE:COMMENT? -> :FILE:SAVE:

COMMENT "THIS IS TEST"

### :FILE:SAVE:DMEMory:TRACe

Function Sets the trace to be saved as accumulated data or

queries the current setting.

Syntax :FILE:SAVE:DMEMory:TRACe {<NRf>|ALL|

XY1 | XY2 }

:FILE:SAVE:DMEMory:TRACe?

< NRf > = 1 to 8

Example :FILE:SAVE:DMEMORY:TRACE 1

:FILE:SAVE:DMEMORY:TRACE? -> :FILE:

SAVE:DMEMORY:TRACE 1

### :FILE:SAVE:NAME

Function Sets the name of the data file to be saved or queries

the current setting.

Syntax :FILE:SAVE:NAME {<Filename>}

:FILE:SAVE:NAME?

Example :FILE:SAVE:NAME "SB5000"

:FILE:SAVE:NAME? -> :FILE:SAVE:

NAME "SB5000"

### :FILE:SAVE:ZWAVe:ZONE

Function Sets the zone of the zone data to be saved or queries

the current setting.

 $\verb|Syntax| : \verb|FILE:SAVE:ZWAVe:ZONE| \{ < \verb|NRf> \} \\$ 

:FILE:SAVE:ZWAVe:ZONE?

< NRf > = 1 to 4

Example :FILE:SAVE:ZWAVE:ZONE 1

:FILE:SAVE:ZWAVE:ZONE? -> :FILE:SAVE:

ZWAVE:ZONE 1

## 5.13 GONogo Group

### :GONogo? Queries all settings related to GO/NO-GO Function determination. Syntax : GONogo? Example :GONOGO? -> :GONOGO:ACTION:BUZZER 0; HCOPY 0;MAIL:INTERVAL OFF;MODE 0;: GONOGO: ACTION: SAVE 0; :GONOGO: CONDITION1 DONTCARE; CONDITION2 DONTCARE; CONDITION3 DONTCARE: CONDITION4 DONTCARE: EYEDIAGRAM: SELECT1: FLEXRAY: EHEIGHT 2.0000000E+00,1.0000000E+00;: GONOGO: EYEDIAGRAM: SELECT2: FLEXRAY: EHEIGHT 0.0000000E+00.0.0000000E+00:: GONOGO: EYEDIAGRAM: SELECT3: FLEXRAY: EHEIGHT 0.0000000E+00,0.0000000E+00;: GONOGO: EYEDIAGRAM: SELECT4: FLEXRAY: EHEIGHT 0.0000000E+00,0.0000000E+00;: GONOGO:LOGIC AND; MODE EYEDIAGRAM; SCONDITION: NGCOUNT 1; STOPCOUNT 1;: GONOGO: ZPARAMETER: SELECT1: MODE PARAMETER; PARAMETER: CATEGORY MEASURE; FFT1: PEAK: FREQUENCY1 2.0000000E+00, 1.0000000E+00;:GONOGO:ZPARAMETER: SELECT1: PARAMETER: MEASURE: FLEXRAY: BUS: TYPE:BSS 2.0000000E+00,1.0000000E+00;: GONOGO: ZPARAMETER: SELECT1: PARAMETER: MEASURE:STATISTIC MAXIMUM:XY1: XYINTEG 2.0000000E+00,1.0000000E+00;: GONOGO: ZPARAMETER: SELECT1: RECTANGLE: HORIZONTAL -2.5000000E+00. -3.0000000E+00; VERTICAL 500.00000E-03, -500.00000E-03;:GONOGO:ZPARAMETER: SELECT1: TRACE 1; WAVE: TRANGE 5.0000000E+00,-5.0000000E+00;: GONOGO: ZPARAMETER: SELECT1: WINDOW MAIN;: GONOGO: ZPARAMETER: SELECT2: MODE RECTANGLE: PARAMETER: CATEGORY MEASURE; FFT1: PEAK: FREQUENCY1 0.000000E+00, 0.000000E+00;:GONOGO:ZPARAMETER:

SELECT2:PARAMETER:MEASURE:FLEXRAY:BUS:
TYPE:BSS 0.00000000E+00,0.00000000E+00...

```
:GONogo:ABORt
```

Function Aborts the GO/NO-GO determination.

Syntax :GONogo:ABORt
Example :GONOGO:ABORT

### :GONogo:ACTion?

Function Queries all settings related to the action taken when the determination result is NO-GO and the criteria

values.

Syntax :GONogo:ACTion?

Example :GONOGO:ACTION? -> :GONOGO:ACTION:

BUZZER 0; HCOPY 0; MAIL: INTERVAL OFF;

MODE 0;:GONOGO:ACTION:SAVE 0

### :GONogo:ACTion:BUZZer

Function Sets whether to sound a buzzer when the determination result is NO-GO or queries the current

Syntax :GONogo:ACTion:BUZZer {<Boolean>}

:GONogo:ACTion:BUZZer?

Example :GONOGO:ACTION:BUZZER ON

:GONOGO:ACTION:BUZZER? -> :GONOGO:

ACTION:BUZZER 1

### :GONogo:ACTion:HCOPy

Function Sets whether to print the screen image on the printer when the determination result is NO-GO or queries the current setting.

Syntax :GONogo:ACTion:HCOPy {<Boolean>}

:GONogo:ACTion:HCOPy?

Example :GONOGO:ACTION:HCOPY ON

:GONOGO:ACTION:HCOPY? -> :GONOGO:

ACTION: HCOPY 1

### :GONogo:ACTion:MAIL?

Function Queries all settings related to the mail transmission when the determination is NO-GO.

CONTRACTOR ACCES TO AND THE

Syntax :GONogo:ACTion:MAIL?

Example :GONOGO:ACTION:MAIL? -> :GONOGO:

ACTION: MAIL: INTERVAL 10; MODE 1

### :GONogo:ACTion:MAIL:INTerval

Sets the interval at which to send mail when the determination is NO-GO or queries the current

setting.

Syntax :GONogo:ACTion:MAIL:INTerval

{OFF | <NRf>}

:GONogo:ACTion:MAIL:INTerval?

<NRf> = 1 to 1440 (min)

Example :GONOGO:ACTION:MAIL:INTERVAL 10

:GONOGO:ACTION:MAIL:INTERVAL?

-> :GONOGO:ACTION:MAIL:INTERVAL 10

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### :GONogo:ACTion:MAIL:MODE

Sets whether to send mail when the determination is NO-GO or queries the current setting.

:GONogo:ACTion:MAIL:MODE {<Boolean>}

Syntax

:GONogo:ACTion:MAIL:MODE?

Example :GONOGO:ACTION:MAIL:MODE ON

:GONOGO:ACTION:MAIL:MODE? -> :GONOGO:

ACTION: MAIL: MODE 1

### :GONogo:ACTion:SAVE

Function Sets whether to save the waveform data to the

storage medium when the determination result is NO-

GO or queries the current setting.

Syntax :GONogo:ACTion:SAVE {<Boolean>}

:GONogo:ACTion:SAVE?

Example :GONOGO:ACTION:SAVE ON

:GONOGO:ACTION:SAVE? -> :GONOGO:ACTION:

SAVE 1

### :GONogo:CONDition<x>

Function Sets the GO/NO-GO determination criteria or queries

the current setting.

:GONogo:CONDition<x> {DONTcare | IN | OUT} Syntax

:GONogo:CONDition<x>?

< x > = 1 to 4

Example : GONOGO: CONDITION1 DONTCARE

:GONOGO:CONDITION1? -> :GONOGO:

CONDITION1 DONTCARE

### :GONogo:COUNt?

Function Queries the actual number of GO/NO-GO

determinations.

Syntax :GONogo:COUNt?

Example :GONOGO:COUNT? -> :GONOGO:COUNT 1

### :GONogo:EXECute

Function Executes the GO/NO-GO determination. This is an

overlap command.

Syntax :GONogo:EXECute Example : GONOGO: EXECUTE

### :GONogo:EYEDiagram?

Function Queries all settings related to eye diagram judgment.

Syntax :GONogo:EYEDiagram?

Example :GONOGO:EYEDIAGRAM? -> :GONOGO:

EYEDIAGRAM: SELECT1: FLEXRAY:

EHEIGHT 2.0000000E+00,1.0000000E+00;: GONOGO: EYEDIAGRAM: SELECT2: FLEXRAY:

EHEIGHT 0.0000000E+00,0.0000000E+00;: GONOGO: EYEDIAGRAM: SELECT3: FLEXRAY: EHEIGHT 0.0000000E+00,0.0000000E+00;:

GONOGO: EYEDIAGRAM: SELECT4: FLEXRAY: EHEIGHT 0.0000000E+00,0.0000000E+00

### :GONogo:EYEDiagram:SELect<x>?

Function Queries all settings related to each condition of eye

diagram judgment.

:GONogo:EYEDiagram:SELect<x>? Syntax

< x > = 1 to 4

Example :GONOGO:EYEDIAGRAM:SELECT1? ->

:GONOGO:EYEDIAGRAM:SELECT1:FLEXRAY: EHEIGHT 2.0000000E+00,1.0000000E+00

### :GONogo:EYEDiagram:SELect<x>:FLEXray?

Function Queries all settings related to FLEXRAY eye diagram

judgment.

:GONogo:EYEDiagram:SELect<x>:FLEXray? Syntax

< x > = 1 to 4

Example :GONOGO:EYEDIAGRAM:SELECT1:FLEXRAY? ->

:GONOGO:EYEDIAGRAM:SELECT1:FLEXRAY: EHEIGHT 2.0000000E+00,1.0000000E+00

### :GONogo:EYEDiagram:SELect<x>:

### FLEXray: < Parameter>

Function Sets the upper and lower limits of the waveform parameters of the FLEXRAY eye diagram judgment

or queries the current setting.

:GONogo:EYEDiagram:SELect<x>:FLEXray: Syntax

<Parameter> {<NRf>,<NRf>}

:GONogo:EYEDiagram:SELect<x>:FLEXray:

<Parameter>?

< x > = 1 to 4

<Parameter>={EHEight|EWIDth|FALL|JITTer| PCROssing|PDUTycycle|PSPCount|PWCount|

QFACtor|RISE|SDBase|SDTop|SPCount|

T1CRossing|T2CRossing|VBASe|VCRossing|VTOP|

WCOunt}

<NRf>, <Voltage>, <Current>, <time> = See the

SB5000 User's Manual

Example (The following is an example with EHEight.)

:GONOGO:EYEDIAGRAM:SELECT1:FLEXRAY:

EHEIGHT 1.2

:GONOGO:EYEDIAGRAM:SELECT1:FLEXRAY:

EHEIGHT? -> :GONOGO:EYEDIAGRAM:SELECT1:

FLEXRAY: EHEIGHT 2.000000E+00,

1.000000E+00

Description • For the correspondence between communication commands and the parameters used, see appendix

> · See the main unit user's manual for details about parameters.

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### :GONogo:EYEDiagram:SELect<x>:

### TELecomtest?

Function Queries all settings related to telecom test judgment.

Syntax :GONogo:EYEDiagram:SELect<x>:

TELecomtest?

Example :GONOGO:EYEDIAGRAM:SELECT1:TELECOMTEST?

-> :GONOGO:EYEDIAGRAM:SELECT1:

TELECOMTEST: EYEPATTERN:

DBERATE 2.0000000E+00,1.0000000E+00

### :GONogo:EYEDiagram:SELect<x>:

### TELecomtest: EYEPattern?

Function Queries all settings related to eye pattern judgment of

each condition.

Syntax :GONogo:EYEDiagram:SELect<x>:

TELecomtest: EYEPattern?

< x > = 1 to 4

Example :GONOGO:EYEDIAGRAM:SELECT1:TELECOMTEST:

EYEPATTERN? -> :GONOGO:EYEDIAGRAM:
SELECT1:TELECOMTEST:EYEPATTERN:
DBERATE 2.00000000E+00,1.0000000E+00

### :GONogo:EYEDiagram:SELect<x>:

### TELecomtest: EYEPattern: < Parameter>

Function Sets the upper and lower limits of the waveform parameters of eye pattern judgment or queries the

current setting.

Syntax :GONogo:EYEDiagram:SELect<x>:

TELecomtest:EYEPattern:

<Parameter> {<NRf>,<NRf>|<Voltage>,

<Voltage> | <Current>, <Current> | <time>,

<time>}

:GONogo:EYEDiagram:SELect<x>:

TELecomtest:EYEPattern:<Parameter>?

<x> of SELect<x> = 1 to 4

<Parameter>={DBERate|EHEight|EWIDth|FALL|
JITTer|PCROssing|PDUTycycle|QFACtor|RISE|
SDBase|SDTop|T1CRossing|T2CRossing|VBASe|

VCRossing|VTOP}

<NRf>, <Voltage>, <Current>, <time> = See the SB5000 User's Manual

Example (The following is an example regarding DBERate.)

 $: {\tt GONOGO:EYEDIAGRAM:SELECT1:TELECOMTEST:}$ 

EYEPATTERN: DBERATE 1,2

:GONOGO:EYEDIAGRAM:SELECT1:TELECOMTEST:

EYEPATTERN:DBERATE? -> :GONOGO:
EYEDIAGRAM:SELECT1:TELECOMTEST:
EYEPATTERN:DBERATE 2.0000000E+00,

1.000000E+00

Description • For the correspondence between communication commands and the parameters used, see appendix

4.

See the main unit user's manual for details about parameters.

### :GONogo:EYEDiagram:SELect<x>:

### TELecomtest: MASK?

Function Queries all settings related to mask judgment of each

condition.

Syntax :GONogo:EYEDiagram:SELect<x>:

TELecomtest: MASK?

< x > = 1 to 4

Example :GONOGO:EYEDIAGRAM:SELECT1:TELECOMTEST:

MASK? -> :GONOGO:EYEDIAGRAM:SELECT1:

TELECOMTEST: MASK: ELEMENT1:

PSPCOUNT 2.0000000E+00,1.0000000E+00

### :GONogo:EYEDiagram:SELect<x>:

### TELecomtest: MASK: ELEMent<x>?

Function Queries all settings related to each element used in

the mask judgment.

Syntax :GONogo:EYEDiagram:SELect<x>:

TELecomtest:MASK:ELEMent<x>?

<x> of SELect<x> = 1 to 4
<x> of FI FMent<x> = 1 to 4

Example :GONOGO:EYEDIAGRAM:SELECT1:TELECOMTEST:

MASK:ELEMENT1? -> :GONOGO:EYEDIAGRAM:
SELECT1:TELECOMTEST:MASK:ELEMENT1:
PSPCOUNT 2.00000000E+00,1.0000000E+00

### :GONogo:EYEDiagram:

### SELect<x>:TELecomtest:MASK:

### ELEMent<x>:<Parameter>

Function Sets the upper and lower limits of the error rate per

number of sample data of each element.

Syntax :GONogo:EYEDiagram:SELect<x>:
 TELecomtest:MASK:ELEMent<x>:

<Parameter> {<NRf>,<NRf>}

:GONogo:EYEDiagram:SELect<x>:

TELecomtest:MASK:ELEMent<x>:

<Parameter>?

<x> of SELect<x> = 1 to 4

<x> of ELEMent<x> = 1 to 4

WCOunt}

<NRf> = See the SB5000 User's Manual

Example (The following is an example with PSPCount.)

:GONOGO:EYEDIAGRAM:SELECT1:TELECOMTEST:

MASK: ELEMENT1: PSPCOUNT 1,2

:GONOGO:EYEDIAGRAM:SELECT1:TELECOMTEST:

MASK:ELEMENT1:PSPCOUNT? -> :GONOGO:

EYEDIAGRAM: SELECT1: TELECOMTEST: MASK:

ELEMENT1: PSPCOUNT 2.0000000E+00,1.00000

00E+00

Description • For the correspondence between communication commands and the parameters used, see appendix

4

• See the main unit user's manual for details about parameters.

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### :GONogo:LOGic

Function Sets the GO/NO-GO determination logic or queries

the current setting.

Syntax :GONogo:LOGic {AND|OR}

:GONogo:LOGic?

Example :GONOGO:LOGIC AND

:GONOGO:LOGIC? -> :GONOGO:LOGIC AND

### :GONogo:MODE

Function Sets the GO/NO-GO determination type or queries

the current setting.

Syntax GONogo: MODE {EYEDiagram | OFF | ZPARameter |

ZPARameter}
:GONogo:MODE?

Example GONOGO: MODE EYEDIAGRAM

:GONOGO:MODE? -> :GONOGO:MODE EYEDIAGRAM

### : GONogo: NGCount?

Function Queries the actual number of NO-GOs of the GO/NO-

GO determination.

Syntax : GONogo: NGCount?

Example :GONOGO:NGCOUNT? -> :GONOGO:NGCOUNT 1

### :GONogo:SCONdition?

### (Stop Condition)

Function Queries all settings related to the determination

termination condition.

Syntax :GONogo:SCONdition?

Example :GONOGO:SCONDITION? -> :GONOGO:

SCONDITION: NGCOUNT 1;

STOPCOUNT 1

### :GONogo[:SCONdition]:NGCount

Function Sets the number of NO-GOs that terminates the GO/

NO-GO determination or queries the current setting.

 $\verb|Syntax| : \verb|GONogo|[:SCONdition]| : \verb|NGCount| {<|NRf>|}$ 

INFinite}

:GONogo[:SCONdition]:NGCount?

<NRf> = 1 to 1000

Example :GONOGO:SCONDITION:NGCOUNT 1

:GONOGO:SCONDITION:NGCOUNT? -> :GONOGO:

SCONDITION:NGCOUNT 1

### :GONogo[:SCONdition]:STOPcount

Function Sets the acquisition count that terminates the GO/

NO-GO determination or queries the current setting.

Syntax :GONogo[:SCONdition]:STOPcount {<NRf>|

INFinite}

:GONogo[:SCONdition]:STOPcount?

<NRf> = 1 to 1000000

Example :GONOGO:SCONDITION:STOPCOUNT 1

:GONOGO:SCONDITION:STOPCOUNT?

-> :GONOGO:SCONDITION:STOPCOUNT 1

### :GONogo:ZPARameter?

Function Queries all settings related to zone/parameter

determination.

Syntax :GONogo:ZPARameter?

Example :GONOGO:ZPARAMETER? -> :GONOGO:

ZPARAMETER: SELECT1: MODE PARAMETER;

PARAMETER: CATEGORY MEASURE; FFT1:

PEAK: FREQUENCY1 2.000000E+00,

1.0000000E+00;:GONOGO:ZPARAMETER:

SELECT1: PARAMETER: MEASURE: FLEXRAY: BUS:

TYPE:BSS 2.0000000E+00,1.0000000E+00;:

GONOGO: ZPARAMETER: SELECT1: PARAMETER:

MEASURE:STATISTIC MAXIMUM:XY1:

XYINTEG 2.0000000E+00,1.0000000E+00;:

GONOGO: ZPARAMETER: SELECT1: RECTANGLE:

HORIZONTAL -2.5000000E+00,

-3.0000000E+00; VERTICAL 500.00000E-03,

-500.00000E-03;:GONOGO:ZPARAMETER:

SELECT1:TRACE 1; WAVE:

TRANGE 5.0000000E+00,-5.0000000E+00;:

GONOGO:ZPARAMETER:SELECT1:WINDOW MAIN;:

GONOGO:ZPARAMETER:SELECT2:
MODE RECTANGLE;PARAMETER:
CATEGORY MEASURE:FFT1:PEAK:

FREQUENCY1 0.0000000E+00,

0.000000E+00;:GONOGO:ZPARAMETER:

SELECT2: PARAMETER: MEASURE: FLEXRAY: BUS:

TYPE:BSS 0.0000000E+00,0.0000000E+00;:
GONOGO:ZPARAMETER:SELECT2:PARAMETER:

MEASURE:STATISTIC MAXIMUM....

### :GONogo:ZPARameter:SELect<x>?

Function Queries all settings related to the condition of the zone/parameter determination.

Syntax :GONogo:ZPARameter:SELect<x>?

< x > = 1 to 4

Example :GONOGO:ZPARAMETER:SELECT1? -> :GONOGO:

ZPARAMETER:SELECT1:MODE PARAMETER;
PARAMETER:CATEGORY MEASURE;FFT1:PEAK:

FREQUENCY1 2.000000E+00,

1.0000000E+00;:GONOGO:ZPARAMETER:

SELECT1: PARAMETER: MEASURE: FLEXRAY: BUS:

TYPE:BSS 2.0000000E+00,1.0000000E+00;:

GONOGO: ZPARAMETER: SELECT1: PARAMETER:

MEASURE:STATISTIC MAXIMUM:XY1:

XYINTEG 2.0000000E+00,1.0000000E+00;:

GONOGO: ZPARAMETER: SELECT1: RECTANGLE:

HORIZONTAL -2.5000000E+00,

-3.0000000E+00; VERTICAL 500.00000E-03,

-500.00000E-03;:GONOGO:ZPARAMETER:

SELECT1:TRACE 1; WAVE:

TRANGE 5.0000000E+00,-5.0000000E+00;:

GONOGO: ZPARAMETER: SELECT1: WINDOW MAIN

Function Sets the mode of the condition or queries the current setting.

Syntax :GONogo:ZPARameter:SELect<x>:

MODE {PARameter|POLYgon|RECTangle|WAVE}
:GONogo:ZPARameter:SELect<x>:MODE?

< x > = 1 to 4

Example :GONOGO:ZPARAMETER:SELECT1:MODE WAVE

:GONOGO:ZPARAMETER:SELECT1:MODE?

-> :GONOGO:ZPARAMETER:SELECT1:MODE WAVE

### :GONogo:ZPARameter:SELect<x>:

### PARameter?

Function Queries all settings related to the condition parameter.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter?

< x > = 1 to 4

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER?

-> :GONOGO:ZPARAMETER:SELECT1:

PARAMETER: CATEGORY MEASURE; FFT1: PEAK:

FREQUENCY1 2.000000E+00,

1.0000000E+00;:GONOGO:ZPARAMETER:

SELECT1: PARAMETER: MEASURE: FLEXRAY: BUS:

TYPE:BSS 2.0000000E+00,1.0000000E+00;:

GONOGO: ZPARAMETER: SELECT1: PARAMETER:

MEASURE:STATISTIC MAXIMUM:XY1:

XYINTEG 2.0000000E+00,1.0000000E+00

### :GONogo:ZPARameter:SELect<x>:

### PARameter: CATegory

Function Sets the parameter category or queries the current

setting.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

CATegory {FFT | MEASure | XY}

:GONogo:ZPARameter:SELect<x>:PARameter:

CATegory?

< x > = 1 to 4

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

CATEGORY FFT

:GONOGO:ZPARAMETER:SELECT1:PARAMETER: CATEGORY? -> :GONOGO:ZPARAMETER:

SELECT1: PARAMETER: CATEGORY FFT

Description This command is valid when :MEASURE:MODE CYCLE.

### :GONogo:ZPARameter:SELect<x>:

### PARameter:FFT<x>?

Function Queries all settings related to the FFT determination.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

FFT<x>?

<x> of SELect<x> = 1 to 4

<x> of FFT<x> = 1 or 2

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

FFT1? -> :GONOGO:ZPARAMETER:SELECT1:

PARAMETER: FFT1: PEAK:

FREQUENCY1 0.000E+00,0.000E+00

### :GONogo:ZPARameter:SELect<x>:

### PARameter:FFT<x>:CALCulation<x>

Function Sets the upper and lower limits of the calculation item of the FFT determination or queries the current

setting.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

FFT<x>:CALCulation<x> {<NRf>, <NRf>}

:GONogo:ZPARameter:SELect<x>:PARameter:

FFT<x>:CALCulation<x>?

<x> of SELect<x> = 1 to 4

<x> of FFT<x> = 1 or 2

<x> of CALCulation<x> = 1 to 4

 $\langle NRf \rangle = -4 \text{ to } 4 \text{ (div)}$ 

Example GONOGO: ZPARAMETER: SELECT1: PARAMETER:

FFT1:CALCULATION1 0,1

 $: {\tt GONOGO:ZPARAMETER:SELECT1:PARAMETER:}$ 

FFT1:CALCULATION1? -> :GONOGO:

ZPARAMETER: SELECT1: PARAMETER:

FFT1:CALCULATION1 1.000E+00,0.000E+00

### :GONogo:ZPARameter:SELect<x>:

### PARameter:FFT<x>:PEAK?

Function Queries all settings related to the peak value of the

FFT determination.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

FFT<x>:PEAK?

<x> of SELect<x> = 1 to 4

<x> of FFT<x> = 1 or 2

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

FFT1:PEAK? -> :GONOGO:ZPARAMETER:

SELECT1:PARAMETER:FFT1:PEAK:
FREQUENCY1 1.000E+00,0.000E+00

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### PARameter:FFT<x>:PEAK:DFREquency

Function Sets the upper and lower limits between the peak frequencies of the FFT determination or queries the

current setting.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

FFT<x>:PEAK:DFREquency {<Frequency>,

<Frequency>}

:GONogo:ZPARameter:SELect<x>:PARameter:

FFT<x>: PEAK: DFREquency?
<x> of SELect<x> = 1 to 4
<x> of FFT<x> = 1 or 2

<Frequency> = See the SB5000 User's Manual

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

FFT1:PEAK:DFREQUENCY 0,1

:GONOGO:ZPARAMETER:SELECT1:PARAMETER: FFT1:PEAK:DFREQUENCY? -> :GONOGO: ZPARAMETER:SELECT1:PARAMETER:FFT1:PEAK:

DFREQUENCY 1.000E+00,0.000E+00

### :GONogo:ZPARameter:SELect<x>:

### PARameter:FFT<x>:PEAK:DV

Function Sets the upper and lower limits between the peak

voltages of the FFT determination or queries the  $\,$ 

current setting.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

FFT<x>:PEAK:DV {<NRf>, <NRf>}

:GONogo:ZPARameter:SELect<x>:PARameter:

FFT<x>: PEAK: DV? <x> of SELect<x> = 1 to 4 <x> of FFT<x> = 1 or 2 <NRf> = -4 to 4 (div)

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

FFT1:PEAK:DV 0,1

:GONOGO:ZPARAMETER:SELECT1:PARAMETER: FFT1:PEAK:DV? -> :GONOGO:ZPARAMETER: SELECT1:PARAMETER:FFT1:PEAK:

DV 1.000E+00,0.000E+00

### :GONogo:ZPARameter:SELect<x>:

### PARameter:FFT<x>:PEAK:FREQuency<x>

Function Sets the upper and lower limits of the peak frequency of the FFT determination or queries the current

setting.

 $\verb|Syntax| : \verb|GONogo:ZPARameter:SELect<|x>:PARameter:$ 

FFT<x>:PEAK:FREQuency<x> {<Frequency>,

<Frequency>}

:GONogo:ZPARameter:SELect<x>:PARameter:

FFT<x>: PEAK: FREQuency<x>?
<x> of SELect<x> = 1 to 4
<x> of FFT<x> = 1 or 2

<x> of FREQuency<x> = 1 or 2

<Frequency> = See the SB5000 User's Manual

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

FFT1:PEAK:FREQUENCY1 0,1

:GONOGO:ZPARAMETER:SELECT1:PARAMETER: FFT1:PEAK:FREQUENCY1? -> :GONOGO: ZPARAMETER:SELECT1:PARAMETER:FFT1: PEAK:FREQUENCY1 1.000E+00,0.000E+00

### :GONogo:ZPARameter:SELect<x>:

### PARameter:FFT<x>:PEAK:V<x>

Function Sets the upper and lower limits of the peak voltage of the FFT determination or queries the current setting.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

FFT<x>: PEAK: V<x> {<NRf>, <NRf>}

:GONogo:ZPARameter:SELect<x>:PARameter:

FFT<x>: PEAK: V<x>?
<x> of SELect<x> = 1 to 4
<x> of FFT<x> = 1 or 2
<x> of V<x> = 1 or 2
<NRf> = -4 to 4 (div)

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

FFT1:PEAK:V1 1,2

:GONOGO:ZPARAMETER:SELECT1:PARAMETER: FFT1:PEAK:V1? -> :GONOGO:ZPARAMETER:

SELECT1: PARAMETER: FFT1: PEAK: V1 2.000E+00,1.000E+00

### :GONogo:ZPARameter:SELect<x>:

### PARameter: MEASure?

Function Queries all settings related to the determination using automated measurement of waveform parameters (measure determination).

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

MEASure? < x > = 1 to 4

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

MEASURE? -> :GONOGO:ZPARAMETER:SELECT1:
PARAMETER:MEASURE:FLEXRAY:BUS:TYPE:
BSS 2.00000000E+00,1.0000000E+00;:
GONOGO:ZPARAMETER:SELECT1:PARAMETER:

MEASURE: STATISTIC MAXIMUM

#### 5.13 GONogo Group :GONogo:ZPARameter:SELect<x>: :GONogo:ZPARameter:SELect<x>: PARameter: MEASure: BIT<x>? PARameter:MEASure:BIT<x>:AREA<x>:TYPE: Function Queries all settings related to each logic bit of <parameter> measure determination. Sets the upper and lower limits of the logic waveform Function Syntax :GONogo:ZPARameter:SELect<x>: of measure determination or queries the current PARameter: MEASure: BIT<x>? setting. <x> of SELect<x> = 1 to 4 Syntax :GONogo:ZPARameter:SELect<x>: <x> of BIT<x> = 1 to 32 (with the SB5310 only <x> = PARameter: MEASure: BIT<x>: AREA<x>: 1 to 8 is valid.) TYPE:<parameter> {<NRf>,<NRf>| Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER: <time>, <time> | <frequency>, <frequency>} MEASURE: BIT1? :GONogo:ZPARameter:SELect<x>: -> :GONOGO:ZPARAMETER:SELECT1: PARameter:MEASure:BIT<x>:AREA<x>:TYPE: PARAMETER: MEASURE: BIT1: AREA1: TYPE: <parameter> COUNT 2.000E+00,1.000E+00 <x> of SELect<x> = 1 to 4 <x> of BIT<x> = 1 to 32 (with the SB5310 only <x> = :GONogo:ZPARameter:SELect<x>: 1 to 8 is valid.) <x> of AREA<x> = 1 or 2 PARameter: MEASure: BIT<x>: AREA<x>? <parameter>={COUNt|DELay|DT|DUTYcycle| Function Queries all settings related to each area of measure FREQuency|NWIDth|PERFrequency|PERiod| determination. PWIDth) :GONogo:ZPARameter:SELect<x>: Syntax <NRf>, <time>, <frequency> = see main unit user's PARameter: MEASure: BIT<x>: AREA<x>? <x> of SFI ect<x> = 1 to 4 (The following is an example of the count with trace 1 Example <x> of BIT<x> = 1 to 32 (with the SB5310 only <x> = area 1.) 1 to 8 is valid.) :GONOGO:ZPARAMETER:SELECT1: <x> of AREA<x> = 1 or 2 PARAMETER: MEASURE: BIT1: AREA1: TYPE: Example :GONOGO:ZPARAMETER:SELECT1: COUNT 1.2 PARAMETER: MEASURE: BIT1: AREA1? : GONOGO: ZPARAMETER: SELECT1: PARAMETER: -> :GONOGO:ZPARAMETER:SELECT1: MEASURE:BIT1:AREA1:TYPE:COUNT? PARAMETER: MEASURE: BIT1: AREA1: TYPE: -> :GONOGO:ZPARAMETER:SELECT1: COUNT 2.000E+00,1.000E+00 PARAMETER: MEASURE: BIT1: AREA1: TYPE: COUNT 2.000E+00,1.000E+00 :GONogo:ZPARameter:SELect<x>: Description This command applies to cycle statistical processing PARameter:MEASure:BIT<x>:AREA<x>:TYPE? when :MEASURE:MODE CYCLE. Function Queries all settings related to logic waveform parameters of measure determination. :GONogo:ZPARameter:SELect<x>: Syntax :GONogo:ZPARameter:SELect<x>: PARameter: MEASure: CALCulation<x> PARameter: MEASure: BIT<x>: AREA<x>: TYPE? Function Sets the upper and lower limits of the calculation item < x > of BIT< x > = 1 to 4 of the measure determination or queries the current <x> of BIT<x> = 1 to 32 (with the SB5310 only <x> = setting. 1 to 8 is valid.) Svntax :GONogo:ZPARameter:SELect<x>:PARameter: <x> of ARFA<x> = 1 or 2 MEASure:CALCulation<x> {<NRf>, <NRf>} Example :GONOGO:ZPARAMETER:SELECT1: :GONogo:ZPARameter:SELect<x>:PARameter: PARAMETER: MEASURE: BIT1: AREA1: TYPE? MEASure: CALCulation<x>? -> :GONOGO:ZPARAMETER:SELECT1: <x> of SFI ect<x> = 1 to 4 PARAMETER: MEASURE: BIT1: AREA1: TYPE: <x> of CALCulation<x> = 1 to 4 COUNT 2.000E+00,1.000E+00 <NRf> = -4 to 4 (div)

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:GONOGO:ZPARAMETER:SELECT1:PARAMETER:
MEASURE:CALCULATION1? -> :GONOGO:
ZPARAMETER:SELECT1:PARAMETER:MEASURE:
CALCULATION1 2.000E+00,1.000E+00

### PARameter: MEASure: FLEXray?

Function Queries all settings related to FLEXRAY of the measure determination.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

MEASure:FLEXray?

< x > = 1 to 4

Example : GONOGO: ZPARAMETER: SELECT1: PARAMETER:

MEASURE:FLEXRAY? -> :GONOGO:ZPARAMETER:
SELECT1:PARAMETER:MEASURE:FLEXRAY:BUS:
TYPE:BSS 2.0000000E+00,1.0000000E+00

### :GONogo:ZPARameter:SELect<x>:

### PARameter: MEASure: FLEXray: BUS?

Function Queries all settings related to the FLEXRAY bus of the measure determination.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

MEASure:FLEXray:BUS?

< x > = 1 to 4

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

MEASURE:FLEXRAY:BUS? -> :GONOGO:
ZPARAMETER:SELECT1:PARAMETER:MEASURE:
FLEXRAY:BUS:TYPE:BSS 2.00000000E+00,

1.000000E+00

### :GONogo:ZPARameter:SELect<x>:

### PARameter: MEASure: FLEXray: BUS: TYPE?

Function Queries all settings related to the FLEXRAY bus waveform parameters of the measure determination.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

MEASure:FLEXray:BUS:TYPE?

< x > = 1 to 4

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

MEASURE:FLEXRAY:BUS:TYPE? -> :GONOGO:
ZPARAMETER:SELECT1:PARAMETER:MEASURE:
FLEXRAY:BUS:TYPE:BSS 2.00000000E+00,

1.000000E+00

### :GONogo:ZPARameter:SELect<x>:

### PARameter: MEASure: FLEXray: BUS:

### TYPE:<Parameter>

Function Sets the upper and lower limits of the FLEXRAY bus waveform parameters of the measure determination

or queries the current setting.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

MEASure:FLEXray:BUS:TYPE:

<Parameter> {<NRf>,<NRf>|<Voltage>,
<Voltage>|<Current>,<Current>|<time>,
<time>|<Frequency>,<Frequency>}

:GONogo:ZPARameter:SELect<x>:PARameter: MEASure:FLEXray:BUS:TYPE:<Parameter>?

<x> of SELect<x> = 1 to 4

<Parameter> = {BSS|BSSFES|FBSS}

<NRf>, <Voltage>, <Current>, <time>, <Frequency>

= See the SB5000 User's Manual

Example (The following is an example with BSS.)

:GONOGO:ZPARAMETER:SELECT1:PARAMETER:
MEASURE:FLEXRAY:BUS:TYPE:BSS 1,2
:GONOGO:ZPARAMETER:SELECT1:PARAMETER:
MEASURE:FLEXRAY:BUS:TYPE:BSS? ->
:GONOGO:ZPARAMETER:SELECT1:PARAMETER:
MEASURE:FLEXRAY:BUS:TYPE:

BSS 2.0000000E+00,1.0000000E+00

Description For MEASURE:FLEXRAY:TYPE BUS, it is targeted for cycle statistics.

### :GONogo:ZPARameter:SELect<x>:

### PARameter:MEASure:FLEXray:RECeiver?

Function Queries all settings related to the FLEXRAY receiver of the measure determination.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

MEASure:FLEXray:RECeiver?

< x > = 1 to 4

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

MEASURE:FLEXRAY:RECEIVER? -> :GONOGO:
ZPARAMETER:SELECT1:PARAMETER:MEASURE:

FLEXRAY: RECEIVER: RXD: TYPE:

DBDRX01 2.0000000E+00,1.0000000E+00

### :GONogo:ZPARameter:SELect<x>:

## PARameter:MEASure:FLEXray:RECeiver:

### RXD?

Function Queries all settings related to the FLEXRAY receiver data of the measure determination.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

MEASure:FLEXray:RECeiver:RXD?

< x > = 1 to 4

 ${\tt Example} \quad : {\tt GONOGO:ZPARAMETER:SELECT1:PARAMETER:}$ 

MEASURE:FLEXRAY:RECEIVER:RXD? ->
:GONOGO:ZPARAMETER:SELECT1:PARAMETER:
MEASURE:FLEXRAY:RECEIVER:RXD:TYPE:
DBDRX01 2.00000000E+00,1.0000000E+00

### :GONogo:ZPARameter:SELect<x>: PARameter: MEASure: FLEXray: RECeiver: RXD: TYPE? Function Queries all settings related to the FLEXRAY receiver waveform data parameters of the measure determination. Syntax :GONogo:ZPARameter:SELect<x>:PARameter: MEASure:FLEXray:RECeiver:RXD:TYPE? < x > = 1 to 4Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER: MEASURE: FLEXRAY: RECEIVER: RXD: TYPE? -> :GONOGO:ZPARAMETER:SELECT1:PARAMETER: MEASURE: FLEXRAY: RECEIVER: RXD: TYPE: DBDRX01 2.0000000E+00,1.0000000E+00 :GONogo:ZPARameter:SELect<x>: PARameter: MEASure: FLEXray: RECeiver: RXD:TYPE:<Parameter> Function Sets the upper and lower limits of the FLEXRAY receiver waveform data parameters of the measure determination or queries the current setting. Syntax :GONogo:ZPARameter:SELect<x>:PARameter: MEASure:FLEXray:RECeiver:RXD:TYPE: <Parameter> {<NRf>,<NRf>|<Voltage>, <Voltage> | <Current>, <Current> | <time>, <time>|<Frequency>,<Frequency>} :GONogo:ZPARameter:SELect<x>:PARameter: MEASure:FLEXray:RECeiver:RXD:TYPE: <Parameter>? <x> of SELect<x> = 1 to 4 <Parameter> = {DBDRX01|DBDRX10|DRXASYM} <NRf>, <Voltage>, <Current>, <time>, <frequency> = See the SB5000 User's Manual Example (The following is an example with DBDRX01.) :GONOGO:ZPARAMETER:SELECT1:PARAMETER: MEASURE: FLEXRAY: RECEIVER: RXD: TYPE: DBDRX01 1,2 : GONOGO: ZPARAMETER: SELECT1: PARAMETER: MEASURE: FLEXRAY: RECEIVER: RXD: TYPE: DBDRX01? -> :GONOGO:ZPARAMETER:SELECT1:

PARAMETER: MEASURE: FLEXRAY: RECEIVER: RXD:

TYPE:DBDRX01 2.000000E+00,

1.000000E+00

```
:GONogo:ZPARameter:SELect<x>:
PARameter: MEASure: FLEXray: RECeiver:
RXEN?
Function
         Queries all settings related to the FLEXRAY receiver
         enable data of the measure determination.
Syntax
         :GONogo:ZPARameter:SELect<x>:PARameter:
         MEASure: FLEXray: RECeiver: RXEN?
         < x > = 1 to 4
Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:
         MEASURE: FLEXRAY: RECEIVER: RXEN? ->
         :GONOGO:ZPARAMETER:SELECT1:PARAMETER:
         MEASURE: FLEXRAY: RECEIVER: RXEN: TYPE:
         DBDRXAI 2.0000000E+00,1.0000000E+00
:GONogo:ZPARameter:SELect<x>:
PARameter: MEASure: FLEXray: RECeiver:
RXEN: TYPE?
Function
         Queries all settings related to the FLEXRAY receiver
         waveform enable data parameters of the measure
         determination
Syntax
         :GONogo:ZPARameter:SELect<x>:PARameter:
         MEASure:FLEXray:RECeiver:RXEN:TYPE?
         < x > = 1 to 4
Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:
         MEASURE: FLEXRAY: RECEIVER: RXEN: TYPE? ->
         :GONOGO:ZPARAMETER:SELECT1:PARAMETER:
         MEASURE: FLEXRAY: RECEIVER: RXEN: TYPE:
         DBDRXAI 2.0000000E+00,1.0000000E+00
```

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### 

syntax :GONogo:ZPARameter:SELect<x>:PARameter

MEASure:FLEXray:RECeiver:RXEN:

TYPE:<Parameter> {<NRf>,<NRf>|

<Voltage>,<Voltage>|<Current>,

<Current>|<time>,<time>|<Frequency>,

<Frequency>}

:GONogo:ZPARameter:SELect<x>:PARameter: MEASure:FLEXray:RECeiver:RXEN:TYPE:

<Parameter>?

<x> of SELect<x> = 1 to 4

<Parameter> = {DBDRXAI|DBDRXIA}

<NRf>, <Voltage>, <Current>, <time>, <Frequency>

= See the SB5000 User's Manual

Example (The following is an example with DBDRXAI.)

:GONOGO:ZPARAMETER:SELECT1:PARAMETER:
MEASURE:FLEXRAY:RECEIVER:RXEN:TYPE:
DBDRXAI 1,2

:GONOGO:ZPARAMETER:SELECT1:PARAMETER:
MEASURE:FLEXRAY:RECEIVER:RXEN:TYPE:
DBDRXAI? -> :GONOGO:ZPARAMETER:SELECT1:
PARAMETER:MEASURE:FLEXRAY:RECEIVER:
RXEN:TYPE:DBDRXAI 2.0000000E+00,
1.0000000E+00

### :GONogo:ZPARameter:SELect<x>:

### PARameter: MEASure: FLEXray: TRANsmitter?

Function Queries all settings related to the FLEXRAY transmitter of the measure determination.

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

MEASURE:FLEXRAY:TRANSMITTER? ->
:GONOGO:ZPARAMETER:SELECT1:PARAMETER:
MEASURE:FLEXRAY:TRANSMITTER:TXD:TYPE:
DBDTX01 2.00000000E+00,1.0000000E+00

### :GONogo:ZPARameter:SELect<x>:

# PARameter: MEASure: FLEXray: TRANsmitter: TXD?

Function Queries all settings related to the FLEXRAY transmitter data of the measure determination

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

MEASure:FLEXray:TRANsmitter:TXD?
<x> = 1 to 4

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

MEASURE: FLEXRAY: TRANSMITTER: TXD? ->
:GONOGO: ZPARAMETER: SELECT1: PARAMETER:
MEASURE: FLEXRAY: TRANSMITTER: TXD: TYPE:
DBDTX01 2.0000000E+00,1.0000000E+00

:GONogo:ZPARameter:SELect<x>:

# PARameter: MEASure: FLEXray: TRANsmitter: TXD: TYPE?

Function Queries all settings related to the FLEXRAY transmitter waveform data parameters of the measure determination.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:
 MEASure:FLEXray:TRANsmitter:TXD:TYPE?
 <x> = 1 to 4

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:
 MEASURE:FLEXRAY:TRANSMITTER:TXD:
 TYPE? -> :GONOGO:ZPARAMETER:SELECT1:
 PARAMETER:MEASURE:FLEXRAY:TRANSMITTER:
 TXD:TYPE:DBDTX01 2.0000000E+00,
 1.0000000E+00

### :GONogo:ZPARameter:SELect<x>:

### PARameter:MEASure:FLEXray:TRANsmitter:

### TXD: TYPE: < Parameter >

Function Sets the upper and lower limits of the FLEXRAY transmitter waveform data parameters of the measure determination or queries the current setting.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:
 MEASure:FLEXray:TRANsmitter:TXD:TYPE:
 <Parameter> {<NRf>,<NRf>|<Voltage>,
 <Voltage>|<Current>,<Current>|<time>,
 <time>|<Frequency>,<Frequency>}
 :GONogo:ZPARameter:SELect<x>:PARameter:
 MEASure:FLEXray:TRANsmitter:TXD:TYPE:
 <Parameter>?

<x> of SELect<x> = 1 to 4
<Parameter> = {DBDTX01|DBDTX10|DBUSTX01|
DBUSTX10|DTXASYM|UBDTX}
<NRf>, <Voltage>, <Current>, <time>, <Frequency>
= See the SB5000 User's Manual

Example (The following is an example with DBDTX01.)

:GONOGO:ZPARAMETER:SELECT1:PARAMETER:

MEASURE:FLEXRAY:TRANSMITTER:TXD:TYPE:
DBDTX01 1,2
:GONOGO:ZPARAMETER:SELECT1:PARAMETER:
MEASURE:FLEXRAY:TRANSMITTER:TXD:TYPE:
DBDTX01? -> :GONOGO:ZPARAMETER:SELECT1:
PARAMETER:MEASURE:FLEXRAY:TRANSMITTER:
TXD:TYPE:DBDTX01 2.0000000E+00,

1.000000E+00

# PARameter: MEASure: FLEXray: TRANsmitter: TXEN?

Function Queries all settings related to the FLEXRAY transmitter enable data of the measure determination.

< x > = 1 to 4

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

MEASURE:FLEXRAY:TRANSMITTER:TXEN? ->
:GONOGO:ZPARAMETER:SELECT1:PARAMETER:
MEASURE:FLEXRAY:TRANSMITTER:TXEN:TYPE:
DBDTXAI 2.0000000E+00,1.0000000E+00

### :GONogo:ZPARameter:SELect<x>:

# PARameter: MEASure: FLEXray: TRANsmitter: TXEN: TYPE?

Function Queries all settings related to the FLEXRAY transmitter waveform enable data parameters of the

< x > = 1 to 4

measure determination.

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

MEASURE:FLEXRAY:TRANSMITTER:TXEN:
TYPE? -> :GONOGO:ZPARAMETER:SELECT1:
PARAMETER:MEASURE:FLEXRAY:TRANSMITTER:

TXEN:TYPE:DBDTXAI 2.000000E+00,

1.000000E+00

### :GONogo:ZPARameter:SELect<x>:

# PARameter: MEASure: FLEXray: TRANsmitter: TXEN: TYPE: < Parameter >

Function Sets the upper and lower limits of the FLEXRAY transmitter waveform enable data parameters of the measure determination or queries the current setting.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

MEASure:FLEXray:TRANsmitter:TXEN:TYPE:
<Parameter> {<NRf>,<NRf>|<Voltage>,

<Voltage>|<Current>,<Current>|<time>,

<time>|<Frequency>,<Frequency>}

:GONogo:ZPARameter:SELect<x>:PARameter: MEASure:FLEXray:TRANsmitter:TXEN:TYPE:

<Parameter>?

<x> of SELect<x> = 1 to 4

<Parameter> = {DBDTXAI|DBDTXIA|DBUSTXAI|
DBUSTXIA}

<NRf>, <Voltage>, <Current>, <time>, <Frequency> = See the SB5000 User's Manual

Example (The following is an example with DBDTXAI.)

:GONOGO:ZPARAMETER:SELECT1:PARAMETER: MEASURE:FLEXRAY:TRANSMITTER:TXEN:TYPE:

DBDTXAI 1,2

:GONOGO:ZPARAMETER:SELECT1:PARAMETER:
MEASURE:FLEXRAY:TRANSMITTER:TXEN:TYPE:
DBDTXAI? -> :GONOGO:ZPARAMETER:SELECT1:
PARAMETER:MEASURE:FLEXRAY:TRANSMITTER:
TXEN:TYPE:DBDTXAI 2.0000000E+00,1.00000

00E+00

### :GONogo:ZPARameter:SELect<x>:

### PARameter: MEASure: STATistics

Function Sets the statistical value of the measure determination or queries the current setting.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

MEASure:STATistics {MAXimum|MEAN|

MINimum|SIGMa}

:GONogo:ZPARameter:SELect<x>:PARameter:

MEASure:STATistics?

< x > = 1 to 4

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

MEASURE:STATISTICS MAXIMUM

 $: {\tt GONOGO:ZPARAMETER:SELECT1:PARAMETER:}$ 

MEASURE:STATISTICS? -> :GONOGO:
ZPARAMETER:SELECT1:PARAMETER:

MEASURE: STATISTICS MAXIMUM

Description This command is valid when :MEASURE:MODE CYCLE.

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### PARameter: MEASure: TRACe<x>?

Function Queries all settings related to the trace of the

measure determination.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

MEASure: TRACe<x>? <x> of SELect<x> = 1 to 4 <x> of TRACe<x> = 1 to 8

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

MEASURE:TRACE1? -> :GONOGO:ZPARAMETER:
SELECT1:PARAMETER:MEASURE:TRACE1:AREA1:

TYPE:MAXIMUM 2.000E+00,1.000E+00

### :GONogo:ZPARameter:SELect<x>:

### PARameter: MEASure: TRACe<x>: AREA<x>?

Function Queries all settings related to the area of the measure

determination.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

MEASure:TRACe<x>:AREA<x>?
<x> of SELect<x> = 1 to 4
<x> of TRACe<x> = 1 to 8
<x> of AREA<x> = 1 or 2

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

MEASURE:TRACE1:AREA1? -> :GONOGO: ZPARAMETER:SELECT1:PARAMETER: MEASURE:TRACE1:AREA1:TYPE: MAXIMUM 2.000E+00,1.000E+00

### :GONogo:ZPARameter:SELect<x>:

### PARameter: MEASure: TRACe<x>: AREA<x>:

### TYPE?

Function Queries all settings related to the waveform

parameters of the measure determination.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

MEASure:TRACe<x>:AREA<x>:TYPE?

<x> of SELect<x> = 1 to 4 <x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

MEASURE:TRACE1:AREA1:TYPE? -> :GONOGO:

ZPARAMETER:SELECT1:PARAMETER:
MEASURE:TRACE1:AREA1:TYPE:
MAXIMUM 2.000E+00,1.000E+00

### :GONogo:ZPARameter:SELect<x>:

### PARameter: MEASure: TRACe<x>: AREA<x>:

### TYPE:<Parameter>

Function Sets the upper and lower limits of the waveform

parameter of the measure determination or queries

the current setting.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

MEASure:TRACe<x>:AREA<x>:TYPE:
<Parameter> {<NRf>,<NRf>|

<Voltage>,<Voltage>|

<Current>, <Current> | <Time>, <Time> |

<Frequency>, <Frequency>}

:GONogo:ZPARameter:SELect<x>:PARameter:

MEASure:TRACe<x>:AREA<x>:TYPE:

<Parameter>?

<x> of SELect<x> = 1 to 4 <x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2

<Parameter> = {BURSt|CMEan|COUNt|CRMS| CSDeviation|DELay|DT|DUTYcycle|FALL|

FREQuency|HIGH|HILow|LOW|MAXimum|MEAN|
MINimum|NOVershoot|NWIDth|PERFrequency|
PERiod|POVershoot|PTOPeak|PWIDth|RISE|
RMS|SDEViation|TYCInteg|TYINteg|V1|V2}
<NRf>, <Voltage>, <Current>, <Time>, and
<Frequency> = See the SB5000 User's Manual.

Example (The following is an example for the maximum value

of trace 1 and area 1.)

:GONOGO:ZPARAMETER:SELECT1:PARAMETER:
MEASURE:TRACE1:AREA1:TYPE:MAXIMUM 1,2
:GONOGO:ZPARAMETER:SELECT1:PARAMETER:
MEASURE:TRACE1:AREA1:TYPE:MAXIMUM?
-> :GONOGO:ZPARAMETER:SELECT1:
PARAMETER:MEASURE:TRACE1:AREA1:TYPE:
MAXIMUM 2.000E+00,1.000E+00

Description This command applies to cycle statistical processing when :MEASURE:MODE CYCLE.

### :GONogo:ZPARameter:SELect<x>:

### PARameter:XY<x>?

Function Queries all settings related to the XY determination.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

XY < x > ?

<x> of SELect<x> = 1 to 4 <x> of XY<x> = 1 or 2

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

XY1? -> :GONOGO:ZPARAMETER:SELECT1:

PARAMETER:XY1:

XYINTEG 2.000E+00,1.000E+00

### PARameter:XY<x>:XYINteg

Function Sets the upper and lower limits integral value of the

XY determination or queries the current setting.

Syntax :GONogo:ZPARameter:SELect<x>:PARameter:

XY<x>:XYINteg {<NRf>,<NRf>}

:GONogo:ZPARameter:SELect<x>:PARameter:

XY<x>: XYINteg?
<x> of SELect<x> = 1 to 4
<x> of XY<x> = 1 or 2

Example :GONOGO:ZPARAMETER:SELECT1:PARAMETER:

XY1:XYINTEG 1,2

 $\langle NRf \rangle = -4 \text{ to } 4 \text{ (div)}$ 

:GONOGO:ZPARAMETER:SELECT1:PARAMETER: XY1:XYINTEG? -> :GONOGO:ZPARAMETER:

SELECT1: PARAMETER: XY1:
XYINTEG 2.000E+00,1.000E+00

### :GONogo:ZPARameter:SELect<x>:

### RECTangle?

Function Queries all settings related to the rectangle

determination.

Syntax :GONogo:ZPARameter:SELect<x>:RECTangle?

< x > = 1 to 4

Example :GONOGO:ZPARAMETER:SELECT1:RECTANGLE?

-> :GONOGO:ZPARAMETER:SELECT1: RECTANGLE:HORIZONTAL 1.000E+00,

0.000E+00; VERTICAL 1.000E+00, 0.000E+00

### :GONogo:ZPARameter:SELect<x>:

### RECTangle: HORizontal

Function Sets the horizontal position of the rectangle used in the rectangle determination or queries the current

setting.

Syntax :GONogo:ZPARameter:SELect<x>:RECTangle:

HORizontal {<NRf>, <NRf>}

:GONogo:ZPARameter:SELect<x>:RECTangle:

HORizontal?

< x > = 1 to 4

<NRf> = -5 to 5 div

Example :GONOGO:ZPARAMETER:SELECT1:RECTANGLE:

HORIZONTAL 0,1

 $: {\tt GONOGO:ZPARAMETER:SELECT1:RECTANGLE:}$ 

HORIZONTAL? -> :GONOGO:ZPARAMETER:

SELECT1: RECTANGLE:

HORIZONTAL 1.000E+00,0.000E+00

### :GONogo:ZPARameter:SELect<x>:

### RECTangle: VERTical

Function Sets the vertical position of the rectangle used in the

rectangle determination or queries the current setting.

Syntax :GONogo:ZPARameter:SELect<x>:RECTangle:

VERTical {<NRf>,<NRf>}

:GONogo:ZPARameter:SELect<x>:RECTangle:

VERTical?

< x > = 1 to 4

<NRf> = -4 to 4 (div)

Example :GONOGO:ZPARAMETER:SELECT1:RECTANGLE:

VERTICAL 0,1

:GONOGO:ZPARAMETER:SELECT1:RECTANGLE:

VERTICAL? -> :GONOGO:ZPARAMETER:

SELECT1: RECTANGLE:

VERTICAL 1.000E+00,0.000E+00

### :GONogo:ZPARameter:SELect<x>:TRACe

Function Sets the source trace of the zone/parameter determination or queries the current setting.

Syntax :GONogo:ZPARameter:SELect<x>:TRACe

{ < NRf > }

:GONogo:ZPARameter:SELect<x>:TRACe?

< x > = 1 to 4< NRf > = 1 to 8

<111(1) = 1 10 0

Example :GONOGO:ZPARAMETER:SELECT1:TRACE 1

:GONOGO:ZPARAMETER:SELECT1:TRACE?
-> :GONOGO:ZPARAMETER:SELECT1:TRACE 1

### :GONogo:ZPARameter:SELect<x>:WAVE?

Function Queries all settings related to the wave determination.

Syntax :GONogo:ZPARameter:SELect<x>:WAVE?

< x > = 1 to 4

Example :GONOGO:ZPARAMETER:SELECT1:WAVE?

-> :GONOGO:ZPARAMETER:SELECT1:WAVE:

TRANGE 2.000E+00,1.000E+00

### :GONogo:ZPARameter:SELect<x>:WAVE:

### EDIT<x>:EXIT

Function Exits the edit menu of the wave determination zone.

Syntax :GONogo:ZPARameter:SELect<x>:WAVE:

 $\texttt{EDIT} < \texttt{x} > : \texttt{EXIT} \ \big\{ < \texttt{NRf} > \big| \ \texttt{QUIT} \big\}$ 

<x> of SELect<x> = 1 to 4

<x> of EDIT<x> = 1 to13 (1 to 8 are traces and 9 to

13 are internal memories)

<NRf> = 1 to 4 (internal memories)

Example :GONOGO:ZPARAMETER:SELECT1:WAVE:EDIT1:

EXIT 1

Description • An error occurs if this command is issued when the zone is not being edited.

 Saves the zone waveform to the internal memory specified by <NRf>.

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### EDIT<x>: PART

Function Editing the portion of the zone of the wave

determination.

Syntax :GONogo:ZPARameter:SELect<x>:WAVE:

EDIT<x>:PART {<NRf>,<NRf>,<NRf>}

<x> of SELect<x> = 1 to 4

<x> of EDIT<x> = 1 to13 (1 to 8 are traces. 9 to 12 are internal memories. 13 is the zone waveform that

is currently displayed)

<NRf> = -5 to 5 (div: partial editing time axis cursor

1 and 2)

-8 to 8 (div: up and down) (in the order partial editing time axis cursor 1, 2,  $\uparrow$ , and  $\downarrow$ )

Example :GONOGO:ZPARAMETER:SELECT1:WAVE:EDIT1:

PART 1,2,3,4

Description The amount of movement upward or downward is a relative value with respect to the zone waveform that is currently displayed.

### :GONogo:ZPARameter:SELect<x>:WAVE:

### EDIT<x>:WHOLe

Function Sets the editing of the entire zone of the waveform

zone.

Syntax :GONogo:ZPARameter:SELect<x>:WAVE:

EDIT<x>:WHOLe {<NRf>,<NRf>,<NRf>}

<x> of SELect<x> = 1 to 4

<x> of EDIT<x> = 1 to13 (1 to 8 are traces. 9 to 12 are internal memories. 13 is the zone waveform that

is currently displayed)

<NRf> = 0 to 5 (div: left and right)

0 to 8 (div: up and down)

(In the order  $\leftarrow$ ,  $\rightarrow$ ,  $\uparrow$ , and  $\downarrow$ )

Example :GONOGO:ZPARAMETER:SELECT1:WAVE:EDIT1:

WHOLE 1,2,3,4

Description The amount of movement is a relative value with respect to the reference waveform.

## :GONogo:ZPARameter:SELect<x>:WAVE:

### TRANge

Function Sets the determination range of the zone

determination or queries the current setting.

 $\verb|Syntax| : \verb|GONogo:ZPARameter:SELect<|x>: \verb|WAVE:|$ 

TRANge {<NRf>, <NRf>}

:GONogo:ZPARameter:SELect<x>:WAVE:

TRANge? < x > = 1 to 4

< x > = 1 to 4

<NRf> = -5 to 5 (div)

Example :GONOGO:ZPARAMETER:SELECT1:WAVE:

TRANGE 1,2

:GONOGO:ZPARAMETER:SELECT1:WAVE:TRANGE?

-> :GONOGO:ZPARAMETER:SELECT1:WAVE:

TRANGE 2.000E+00,1.000E+00

### :GONogo:ZPARameter:SELect<x>:WINDow

Function Sets the source window of the zone determination or

queries the current setting.

Syntax :GONogo:ZPARameter:SELect<x>:WINDow

{MAIN|XY1|XY2|Z1|Z2}

:GONogo:ZPARameter:SELect<x>:WINDow?

< x > = 1 to 4

Example :GONOGO:ZPARAMETER:SELECT1:WINDOW MAIN

:GONOGO:ZPARAMETER:SELECT1:WINDOW?
-> :GONOGO:ZPARAMETER:SELECT1:

WINDOW MAIN

## 5.14 HCOPy Group

### :HCOPy? (Hard COPY)

Function Queries all settings related to the output of screen data.

Syntax : HCOPy?

Example :HCOPY? -> :HCOPY:DIRECTION EXTPRINTER;

EXTPRINTER:TONE 1; TYPE EINKJET;:HCOPY:
FILE:FORMAT BMP; SAVE:ANAMING DATE;
CDIRECTORY "\Flash Mem\DIR1\DIR2";
NAME "SAMPLE";:HCOPY:FILE:TONE COLOR;:
HCOPY:NETPRINT:TONE 1; TYPE HINKJET;:

HCOPY:PRINTER:HRMODE 1

### :HCOPy:ABORt

Function Aborts data output and paper feeding.

Syntax :HCOPy:ABORt Example :HCOPY:ABORT

Description This command is valid for :HCOPy:DIRection

EXTPrinter|PRINter.

### :HCOPy:DIRection

Function Sets the data output destination or queries the current

setting.

Syntax :HCOPy:DIRection {EXTPrinter|FILE|

NETPrint | PRINter }
:HCOPy:DIRection?

Example : HCOPY: DIRECTION EXTPRINTER

:HCOPY:DIRECTION? -> :HCOPY:DIRECTION

EXTPRINTER

### :HCOPy:EXECute

Function Executes the data output. This is an overlap

command.

Syntax :HCOPy:EXECute {<String>}

<String> = Up to 259 characters

Example :HCOPY:EXECUTE

:HCOPY:EXECUTE "\Flash Mem\DIR\DATA"

(Absolute path designation)
:HCOPY:EXECUTE "DATA"
(Relative path designation)

Description• If the path is not specified, the data is saved to the file name specified by :HCOPy:FILE:SAVE:NAME.

- If the path is specified, the auto naming function is disabled.
- For details on the <String> parameter, see the description in :HCOPy:FILE:SAVE:CDIRectory.

### :HCOPy:EXTPrinter?

Function Queries all settings related to the external printer

output.

Syntax :HCOPy:EXTPrinter?

Example :HCOPY:EXTPRINTER? -> :HCOPY:EXTPRINTER:

TONE 1; TYPE EINKJET

### :HCOPy:EXTPrinter:TONE

Function Sets the half tone of the external printer output or

queries the current setting.

Syntax :HCOPy:EXTPrinter:TONE {<Boolean>}

:HCOPy:EXTPrinter:TONE?

Example :HCOPY:EXTPRINTER:TONE ON

:HCOPY:EXTPRINTER:TONE? -> :HCOPY:

EXTPRINTER: TONE 1

### :HCOPy:EXTPrinter:TYPE

Function Sets the type of output commands to send to the

external printer or queries the current setting.

Syntax :HCOPy:EXTPrinter:TYPE {EINKjet|

HINKjet}

:HCOPy:EXTPrinter:TYPE?

Example :HCOPY:EXTPRINTER:TYPE EINKJET

:HCOPY:EXTPRINTER:TYPE? -> :HCOPY:

EXTPRINTER: TYPE EINKJET

### :HCOPy:FILE?

Function Queries all settings related to file output.

Syntax : HCOPy: FILE?

Example :HCOPY:FILE? -> :HCOPY:FILE:FORMAT BMP;

SAVE: ANAMING DATE;

CDIRECTORY "\Flash Mem\DIR1\DIR2";
NAME "SAMPLE";:HCOPY:FILE:TONE COLOR

### :HCOPy:FILE:FORMat

Function Sets the file output image format or queries the

current setting.

Syntax :HCOPy:FILE:FORMat {BMP|JPEG|PNG}

:HCOPy:FILE:FORMat?

Example :HCOPY:FILE:FORMAT BMP

:HCOPY:FILE:FORMAT? -> :HCOPY:FILE:

FORMAT BMP

### :HCOPy:FILE:SAVE?

Function Queries all settings related to the saving of file output.

Syntax :HCOPy:FILE:SAVE?

Example :HCOPY:FILE:SAVE? -> :HCOPY:FILE:SAVE:

ANAMING DATE;

CDIRECTORY "\Flash Mem\DIR1\DIR2";

NAME "SAMPLE"

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### :HCOPy:FILE:SAVE:ANAMing

Function Sets the type of auto naming of save destination file

names or queries the current setting.

Syntax :HCOPy:FILE:SAVE:ANAMing {DATE|

NUMBering | OFF }

:HCOPy:FILE:SAVE:ANAMing?

Example : HCOPY: FILE: SAVE: ANAMING DATE

:HCOPY:FILE:SAVE:ANAMING? -> :HCOPY:

FILE:SAVE:ANAMING DATE

### :HCOPy:FILE:SAVE:CDIRectory

### (Change Directory)

Function Sets the save destination directory name or queries

the current setting.

Syntax :HCOPy:FILE:SAVE:CDIRectory {<String>}

:HCOPy:FILE:SAVE:CDIRectory? <String> = Up to 259 characters

Example :HCOPY:FILE:SAVE:CDIRECTORY "\Flash

Mem\DIR1\DIR2"

(Absolute path designation)

:HCOPY:FILE:SAVE:CDIRECTORY "DIR2"

(Relative path designation)

:HCOPY:FILE:SAVE:CDIRECTORY "\"

(Root directory designation)

:HCOPY:FILE:SAVE:CDIRECTORY? -> :HCOPY:

FILE:SAVE:

CDIRECTORY "\Flash Mem\DIR1\DIR2"

Description • Data files cannot be saved to the root directory.

Specify a save destination drive for the current directory.

The following five drives are selectable.

• Internal hard disk: "HD"

Internal memory: "Flash Mem"Network drive: "Network"

• PC card: "Storage Card<x>"

USB storage device: "USB Storage<x>"
 <x> = 1 to 4 (however, only a total of four "Storage

Card" and "USB Storage" designations are supported (including partitions))

- Sets the specified directory the current directory for saving and loading.
- Absolute and relative path designations are possible.
- To specify an absolute path, enter a backslash at the front of the path.
- Relative path to higher level directories is not allowed.

### :HCOPy:FILE:SAVE:NAME

Function Sets the save destination file name or queries the

current setting.

Syntax :HCOPy:FILE:SAVE:NAME <Filename>

: HCOPy: FILE: SAVE: NAME?

Example :HCOPY:FILE:SAVE:NAME "SAMPLE"

:HCOPY:FILE:SAVE:NAME? -> :HCOPY:FILE:

SAVE:NAME "SAMPLE"

### :HCOPy:NETPrint?

Function Queries all settings related to network printer output

or queries the current setting.

Syntax :HCOPy:NETPrint?

Example :HCOPY:NETPRINT? -> :HCOPY:NETPRINT:

TONE 1; TYPE HINKJET

### :HCOPy:NETPrint:TONE

Function Sets the half tone for the network printer or queries

the current setting.

Syntax :HCOPy:NETPrint:TONE {<Boolean>}

:HCOPy:NETPrint:TONE?

Example :HCOPY:NETPRINT:TONE ON

:HCOPY:NETPRINT:TONE? -> :HCOPY:

NETPRINT: TONE 1

 $\label{lem:convergence} \textbf{Description Cannot be turned \{ON\} when :} \textbf{HCOPy:} \textbf{NETPrint:}$ 

TYPE HLASer is used.

### :HCOPy:NETPrint:TYPE

Function Sets the output command type for the network printer or queries the current setting.

Syntax :HCOPy:NETPrint:TYPE {HINKjet|HLASer}

:HCOPy:NETPrint:TYPE?

Example :HCOPY:NETPRINT:TYPE HINKJET

:HCOPY:NETPRINT:TYPE? -> :HCOPY:

NETPRINT: TYPE HINKJET

### :HCOPy:PRINter?

Function Queries all settings related to the built-in printer

output.

Syntax :HCOPy:PRINter?

Example :HCOPY:PRINTER? -> :HCOPY:PRINTER:

HRMODE 1

### :HCOPy:PRINter:HRMode

Function Turns ON/OFF the high resolution mode of the built-

in printer output or queries the current setting.

Syntax :HCOPy:PRINter:HRMode {<Boolean>}

:HCOPy:PRINter:HRMode?

Example : HCOPY: PRINTER: HRMODE ON

:HCOPY:PRINTER:HRMODE? -> :HCOPY:

PRINTER:HRMODE 1

## 5.15 HISTory Group

### :HISTory?

Function Queries all settings related to the history function. Syntax :HISTory? Example :HISTORY? -> :HISTORY:CURRENT: DISPLAY 0,-21; DMODE ONE; MODE RECORD; RECORD 0;REPLAY:SPEED PER10;:HISTORY: CURRENTSEARCH:LOGIC AND; SELECT1: CONDITION DONTCARE; MODE PARAMETER; PARAMETER: CATEGORY MEASURE; FFT1: PEAK: FREQUENCY1 1.0000000E+00, 0.0000000E+00;:HISTORY:CURRENT:SEARCH: SELECT1: PARAMETER: MEASURE: FLEXRAY: BUS: TYPE:BSS 1.0000000E+00.0.0000000E+00:: HISTORY: CURRENT: SEARCH: SELECT1: PARAMETER:XY1:XYINTEG 1.0000000E+00, 0.0000000E+00::HISTORY:CURRENT:SEARCH: SELECT1: RECTANGLE: HORIZONTAL -2.5000000E+00, -3.0000000E+00; VERTICAL 500.00000E-03, -500.00000E-03;:HISTORY:CURRENT: SEARCH:SELECT1:TRACE 1; WAVE: TRANGE 5.0000000E+00,-5.0000000E+00;: HISTORY: CURRENT: SEARCH: SELECT1: WINDOW MAIN: : HISTORY: CURRENT: SEARCH: SELECT2: CONDITION DONTCARE; MODE RECTANGLE; PARAMETER: CATEGORY MEASURE; FFT1: PEAK: FREQUENCY1 0.0000000E+00, 0.0000000E+00;:HISTORY:CURRENT:SEARCH: SELECT2: PARAMETER: MEASURE: FLEXRAY: BUS:TYPE:BSS 0.000000E+00, 0.0000000E+00;:HISTORY:CURRENT:SEARCH: SELECT2: PARAMETER: XY1: XYINTEG 0.0000000E+00,0.0000000E+00;: HISTORY: CURRENT: SEARCH: SELECT2: RECTANGLE: HORIZONTAL -500.0000E-03, -1.0000000E+00; VERTICAL 500.00000E-03, -500.00000E-03;:HISTORY:CURRENT: SEARCH:SELECT2:TRACE 1; WAVE: TRANGE 5.0000000E+00,-5.0000000E+00;: HISTORY: CURRENT: SEARCH: SELECT2: WINDOW MAIN; : HISTORY: CURRENT: SEARCH: SELECT3: CONDITION DONTCARE....

### :HISTory:CURRent?

Queries all settings related to the history function of Function the current waveform (CH1 to 4, M1 to 8). Syntax :HISTory:CURRent? Example :HISTORY:CURRENT? -> :HISTORY:CURRENT: DISPLAY 0, -21; DMODE ONE; MODE RECORD; RECORD 0; REPLAY: SPEED PER10; : HISTORY: CURRENTSEARCH:LOGIC AND; SELECT1: CONDITION DONTCARE; MODE PARAMETER; PARAMETER: CATEGORY MEASURE; FFT1: PEAK: FREQUENCY1 1.000000E+00, 0.000000E+00;:HISTORY:CURRENT:SEARCH: SELECT1: PARAMETER: MEASURE: FLEXRAY: BUS:TYPE:BSS 1.0000000E+00, 0.0000000E+00;:HISTORY:CURRENT:SEARCH: SELECT1: PARAMETER: XY1: XYINTEG 1.0000000E+00,0.0000000E+00;: HISTORY: CURRENT: SEARCH: SELECT1: RECTANGLE: HORIZONTAL -2.5000000E+00, -3.0000000E+00; VERTICAL 500.00000E-03, -500.00000E-03;:HISTORY:CURRENT: SEARCH: SELECT1: TRACE 1; WAVE: TRANGE 5.0000000E+00,-5.0000000E+00;: HISTORY: CURRENT: SEARCH: SELECT1: WINDOW MAIN; : HISTORY: CURRENT: SEARCH: SELECT2: CONDITION DONTCARE; MODE RECTANGLE: PARAMETER: CATEGORY MEASURE; FFT1: PEAK: FREQUENCY1 0.0000000E+00, 0.0000000E+00....

### :HISTory[:CURRent]:DISPlay

Function Sets the start number and end number of the display record of the history waveform or queries the current setting.

Syntax :HISTory[:CURRent]:DISPlay
{<NRf>, <NRf>}
:HISTory[:CURRent]:DISPlay?

<NRf> = See the SB5000 User's Manual.
Example :HISTORY:CURRENT:DISPLAY 0,-10

:HISTORY:CURRENT:DISPLAY? -> :HISTORY:

CURRENT:DISPLAY 0,-10

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### :HISTory[:CURRent]:DMODe (Display Mode)

Function Sets the display mode of the history waveform or

queries the current setting.

Syntax :HISTory[:CURRent]:DMODe {ACOLor|

> AHTone | AINTensity | ONE } :HISTory[:CURRent]:DMODe?

Example : HISTORY: CURRENT: DMODE ONE

:HISTORY:CURRENT:DMODE? -> :HISTORY:

CURRENT: DMODE ONE

### :HISTory[:CURRent]:MODE

Function Sets the highlight display mode of the history waveform or queries the current setting.

:HISTory[:CURRent]:MODE {AVERage| Syntax

RECord }

:HISTory[:CURRent]:MODE?

Example : HISTORY: CURRENT: MODE RECORD

:HISTORY:CURRENT:MODE? -> :HISTORY:

CURRENT: MODE RECORD

### :HISTory[:CURRent]:RECord

Sets the target record of the history waveform or Function

queries the current setting.

Syntax :HISTory[:CURRent]:RECord

{ < NRf > | MINimum }

:HISTory[:CURRent]:RECord? <NRf> = See the SB5000 User's Manual.

Example : HISTORY: CURRENT: RECORD 0

:HISTORY:CURRENT:RECORD? -> :HISTORY:

CURRENT: RECORD 0

Description Specifying MINimum sets the record to the minimum

record number.

### :HISTory[:CURRent]:RECord? MINimum

Function Queries the minimum record number of the history

Syntax :HISTory[:CURRent]:RECord? MINimum Example : HISTORY: CURRENT: RECORD? MINIMUM -> :HISTORY:CURRENT:RECORD -1

Description Specifying MINimum sets the record to the minimum record number.

### :HISTory[:CURRent]:REPLay?

Function Queries all settings related to the replay function of the history function.

Syntax :HISTory[:CURRent]:REPLay?

Example :HISTORY:CURRENT:REPLAY? -> :HISTORY:

CURRENT: REPLAY: SPEED 1

### :HISTory[:CURRent]:REPLay:JUMP

Function Jumps the history waveform to the specified record

number.

Syntax :HISTory[:CURRent]:REPLay:JUMP

{MAXimum | MINimum }

Example :HISTORY:CURRENT:REPLAY:JUMP MAXIMUM

### :HISTory[:CURRent]:REPLay:SPEed

Sets the replay speed of the history waveform or Function

queries the current setting.

:HISTory[:CURRent]:REPLay:SPEed {<NRf>| Syntax

PER3 | PER10 | PER30 | PER60 }

:HISTory[:CURRent]:REPLay:SPEed?

< NRf > = 1, 3, 10

Example : HISTORY: CURRENT: REPLAY: SPEED 1

:HISTORY:CURRENT:REPLAY:SPEED?

-> :HISTORY:CURRENT:REPLAY:SPEED 1

### :HISTory[:CURRent]:REPLay:STARt

Function Starts the replay of the history waveform in the

specified direction.

:HISTory[:CURRent]:REPLay: Syntax

STARt {MAXimum|MINimum}

Example :HISTORY:CURRENT:REPLAY:START MAXIMUM

### :HISTory[:CURRent]:REPLay:STOP

Function Stops the replay of the history waveform. Syntax :HISTory[:CURRent]:REPLay:STOP Example : HISTORY: CURRENT: REPLAY: STOP

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### :HISTory[:CURRent]:SEARch?

Function Queries all settings related to the history search function.

Syntax :HISTory[:CURRent]:SEARch?

Example :HISTORY:CURRENT:SEARCH? -> :HISTORY:

CURRENT:SEARCH:LOGIC AND;SELECT1:
CONDITION DONTCARE;MODE PARAMETER;

PARAMETER: CATEGORY MEASURE; FFT1: PEAK:

FREQUENCY1 1.000000E+00,

0.0000000E+00;:HISTORY:CURRENT:SEARCH:

SELECT1: PARAMETER: MEASURE: FLEXRAY:

BUS:TYPE:BSS 1.000000E+00,

0.0000000E+00;:HISTORY:CURRENT:SEARCH:

SELECT1:PARAMETER:XY1:

XYINTEG 1.0000000E+00,0.0000000E+00;:

HISTORY: CURRENT: SEARCH: SELECT1:

RECTANGLE: HORIZONTAL -2.5000000E+00,

-3.0000000E+00; VERTICAL 500.00000E-03,

-500.00000E-03;:HISTORY:CURRENT:

SEARCH: SELECT1: TRACE 1; WAVE:

TRANGE 5.0000000E+00,-5.0000000E+00;:

HISTORY: CURRENT: SEARCH: SELECT1:

WINDOW MAIN; :HISTORY:CURRENT:SEARCH: SELECT2:CONDITION DONTCARE.....

### :HISTory[:CURRent][:SEARch]:ABORt

Function Aborts the history search.

Syntax :HISTory[:CURRENT][:SEARCh]:ABORT
Example :HISTORY:CURRENT:SEARCH:ABORT

### :HISTory[:CURRent][:SEARch]:EXECute

Function Executes the history search. This is an overlap

command.

Syntax :HISTory[:CURRent][:SEARch]:EXECute

Example : HISTORY: CURRENT: SEARCH: EXECUTE

### :HISTory[:CURRent][:SEARch]:LOGic

Function Sets the history search logic or queries the current

setting.

Syntax :HISTory[:CURRent][:SEARch]:LOGic {AND|

OR }

:HISTory[:CURRent][:SEARch]:LOGic?

Example :HISTORY:CURRENT:SEARCH:LOGIC AND

:HISTORY:CURRENT:SEARCH:LOGIC?

### :HISTory[:CURRent][:SEARch]:RESet

Function Resets the search conditions of the history search.

Syntax :HISTory[:CURRent][:SEARch]:RESet
Example :HISTORY:CURRENT:SEARCH:RESET

### :HISTory[:CURRent][:SEARch]:

### SELect<x>?

Function Queries all settings related to the history search condition.

condition.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>?

< x > = 1 to 4

Example :HISTORY:CURRENT:SEARCH:SELECT1? ->

:HISTORY:CURRENT:SEARCH:SELECT1:

CONDITION DONTCARE; MODE PARAMETER;

PARAMETER: CATEGORY MEASURE; FFT1: PEAK:

FREQUENCY1 1.0000000E+00,

0.0000000E+00;:HISTORY:CURRENT:SEARCH:

SELECT1: PARAMETER: MEASURE: FLEXRAY:

BUS:TYPE:BSS 1.0000000E+00,

0.0000000E+00;:HISTORY:CURRENT:SEARCH:

SELECT1: PARAMETER: XY1:

XYINTEG 1.0000000E+00,0.0000000E+00;:

HISTORY:CURRENT:SEARCH:SELECT1:

RECTANGLE: HORIZONTAL -2.5000000E+00,

-3.0000000E+00; VERTICAL 500.00000E-03,

-500.00000E-03;:HISTORY:CURRENT:

SEARCH:SELECT1:TRACE 1; WAVE:

TRANGE 5.0000000E+00,-5.0000000E+00;:

 $\verb|HISTORY:CURRENT:SEARCH:SELECT1:|\\$ 

WINDOW MAIN

### :HISTory[:CURRent][:SEARch]:

### SELect<x>:CONDition

Function Sets determination criteria of the history search

condition or queries the current setting.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:

CONDition {DONTcare|IN|OUT}

:HISTory[:CURRent][:SEARch]:SELect<x>:

 ${\tt CONDition?}$ 

< x > = 1 to 4

Example :HISTORY:CURRENT:SEARCH:SELECT1:

CONDITION IN

:HISTORY:CURRENT:SEARCH:SELECT1:

CONDITION? -> :HISTORY:CURRENT:SEARCH:

SELECT1: CONDITION IN

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### :HISTory[:CURRent][:SEARch]:

### SELect<x>:MODE

Function Sets the mode of the history search condition or queries the current setting.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:

MODE {PARameter|POLYgon|RECTangle|WAVE}

:HISTory[:CURRent][:SEARch]:SELect<x>:

MODE?

< x > = 1 to 4

Example :HISTORY:CURRENT:SEARCH:SELECT1:

MODE WAVE

:HISTORY:CURRENT:SEARCH:SELECT1:MODE?

-> :HISTORY:CURRENT:SEARCH:SELECT1:

MODE WAVE

### :HISTory[:CURRent][:SEARch]:

### SELect<x>:PARameter?

Function Queries all settings related to the parameter of the

history search condition.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:

PARameter?

< x > = 1 to 4

Example :HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER? -> :HISTORY:CURRENT:SEARCH: SELECT1:PARAMETER:CATEGORY MEASURE;

FFT1:PEAK:FREQUENCY1 1.0000000E+00,

0.0000000E+00;:HISTORY:CURRENT:SEARCH:

SELECT1: PARAMETER: MEASURE: FLEXRAY:

BUS:TYPE:BSS 1.0000000E+00,

0.0000000E+00;:HISTORY:CURRENT:SEARCH:

SELECT1: PARAMETER: XY1:

XYINTEG 1.0000000E+00,0.0000000E+00

### :HISTory[:CURRent][:SEARch]:

### SELect<x>: PARameter: CATegory

Function Sets the parameter category or queries the current

setting.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:

PARameter:CATegory {FFT|MEASure|XY}
:HISTory[:CURRent][:SEARch]:SELect<x>:

.iiibioly[.cokkeiie][.blakeii].blaceexx

PARameter: CATegory?

< x > = 1 to 4

Example :HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER: CATEGORY MEASURE

:HISTORY:CURRENT:SEARCH:SELECT1:
PARAMETER:CATEGORY? -> :HISTORY:
CURRENT:SEARCH:SELECT1:PARAMETER:

CATEGORY MEASURE

### :HISTory[:CURRent][:SEARch]:S

### ELect<x>:PARameter:FFT<x>?

Function Queries all settings related to the FFT search.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:

PARameter: FFT<x>? <x> of SELect<x> = 1 to 4 <x> of FFT<x> = 1 or 2

Example :HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER: FFT1? -> : HISTORY: CURRENT:

SEARCH:SELECT1:PARAMETER:FFT1: CALCULATION1 2.000E+00,1.000E+00

### :HISTory[:CURRent][:SEARch]:

### SELect<x>: PARameter: FFT<x>:

### CALCulation<x>

Function Sets the upper and lower limits of the calculation item of the FFT search or queries the current setting.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:

PARameter:FFT<x>:

CALCulation<x> {<NRf>,<NRf>}

:HISTory[:CURRent][:SEARch]:SELect<x>:

PARameter:FFT<x>:CALCulation<x>?

<x> of SELect<x> = 1 to 4 <x> of FFT<x> = 1 or 2

<x> of CALCulation<x> = 1 to 4

<NRf> = See the SB5000 User's Manual.

Example :HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER: FFT1: CALCULATION1 1,2
:HISTORY: CURRENT: SEARCH: SELECT1:

PARAMETER: FFT1: CALCULATION1?

-> :HISTORY:CURRENT:SEARCH:SELECT1:
PARAMETER:FFT1:CALCULATION1 2.000E+00,

1.000E+00

### :HISTory[:CURRent][:SEARch]:

### SELect<x>: PARameter: FFT<x>: PEAK?

Function Queries all settings related to the peak value of the

FFT search.

 $\verb|Syntax| : \verb|HISTory|[:CURRent]|[:SEARch]:SELect<x>:$ 

PARameter:FFT<x>:PEAK? <x> of SELect<x> = 1 to 4 <x> of FFT<x> = 1 or 2

Example :HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER:FFT1:PEAK? -> :HISTORY: CURRENT:SEARCH:SELECT1:PARAMETER:FFT1:

PEAK:DV 2.000E+00,1.000E+00

```
:HISTory[:CURRent][:SEARch]:
                                                       :HISTory[:CURRent][:SEARch]:
SELect<x>:PARameter:FFT<x>:PEAK:
                                                       SELect<x>:PARameter:FFT<x>:PEAK:
DFREquency
                                                       FREquency<x>
Function
         Sets the upper and lower limits between the peak
                                                       Function
                                                                Sets the upper and lower limits of the peak frequency
         frequencies of the FFT search or queries the current
                                                                of the FFT search or queries the current setting.
         setting.
                                                                :HISTory[:CURRent][:SEARch]:SELect<x>:
                                                       Syntax
Syntax
         :HISTory[:CURRent][:SEARch]:SELect<x>:
                                                                PARameter:FFT<x>:PEAK:FREquency<x>
         PARameter:FFT<x>:PEAK:DFREquency {<Freq
                                                                 {<Frequency>,<Frequency>}
         uency>,<Frequency>}
                                                                 :HISTory[:CURRent][:SEARch]:SELect<x>:
         :HISTory[:CURRent][:SEARch]:SELect<x>:
                                                                PARameter:FFT<x>:PEAK:FREquency<x>?
         PARameter:FFT<x>:PEAK:DFREquency?
                                                                <x> of SELect<x> = 1 to 4
         <x> of SELect<x> = 1 to 4
                                                                <x> of FFT<x> = 1 or 2
         <x> of FFT<x> = 1 or 2
                                                                <x> of FREQuency<x> = 1 or 2
         <Frequency> = See the SB5000 User's Manual
                                                                <Frequency> = See the SB5000 User's Manual
Example :HISTORY:CURRENT:SEARCH:SELECT1:
                                                                : HISTORY: CURRENT: SEARCH: SELECT1:
                                                       Example
         PARAMETER: FFT1: PEAK: DFREOUENCY 1.10
                                                                PARAMETER: FFT1: PEAK: FREQUENCY1 1.2
         :HISTORY:CURRENT:SEARCH:SELECT1:
                                                                 :HISTORY:CURRENT:SEARCH:SELECT1:
                                                                PARAMETER: FFT1: PEAK: FREQUENCY1?
         PARAMETER: FFT1: PEAK: DFREQUENCY?
         -> : HISTORY: CURRENT: SEARCH: SELECT1:
                                                                 -> : HISTORY: CURRENT: SEARCH: SELECT1:
         PARAMETER: FFT1: PEAK:
                                                                PARAMETER: FFT1: PEAK:
         DFREQUENCY 10.00E+00,1.000E+00
                                                                FREQUENCY1 2.000E+00,1.000E+00
:HISTory[:CURRent][:SEARch]:
                                                       :HISTory[:CURRent][:SEARch]:
SELect<x>:PARameter:FFT<x>:PEAK:DV
                                                       SELect<x>:PARameter:FFT<x>:PEAK:V<x>
         Sets the upper and lower limits between the peak
                                                                Sets the upper and lower limits of the peak voltage of
         voltages of the FFT search or queries the current
                                                                the FFT search or queries the current setting.
         setting.
                                                       Syntax
                                                                :HISTory[:CURRent][:SEARch]:SELect<x>:
Syntax
         :HISTory[:CURRent][:SEARch]:SELect<x>:
                                                                PARameter:FFT<x>:PEAK:V<x>
         PARameter:FFT<x>:PEAK:DV {<NRf>,<NRf>}
                                                                 { < NRf > , < NRf > }
         :HISTory[:CURRent][:SEARch]:SELect<x>:
                                                                 :HISTory[:CURRent][:SEARch]:SELect<x>:
         PARameter:FFT<x>:PEAK:DV?
                                                                PARameter:FFT<x>:PEAK:V<x>?
         <x> of SELect<x> = 1 to 4
                                                                <x> of SELect<x> = 1 to 4
         <x> of FFT<x> = 1 or 2
                                                                 <x> of FFT<x> = 1 or 2
         <NRf> = -4 to 4 (div)
                                                                < x > of V < x > = 1 or 2
Example :HISTORY:CURRENT:SEARCH:SELECT1:
                                                                <NRf> = -4 to 4 (div)
         PARAMETER:FFT1:PEAK:DV 1,2
                                                                :HISTORY:CURRENT:SEARCH:SELECT1:
                                                       Example
         :HISTORY:CURRENT:SEARCH:SELECT1:
                                                                PARAMETER:FFT1:PEAK:V1 1,2
         PARAMETER: FFT1: PEAK: DV? -> : HISTORY:
                                                                 : HISTORY: CURRENT: SEARCH: SELECT1:
         CURRENT: SEARCH: SELECT1: PARAMETER: FFT1:
                                                                PARAMETER: FFT1: PEAK: V1? -> : HISTORY:
         PEAK: DV 2.000E+00.1.000E+00
                                                                CURRENT: SEARCH: SELECT1: PARAMETER: FFT1:
                                                                PEAK:V1 2.000E+00,1.000E+00
```

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# :HISTory[:CURRent][:SEARch]:SELect<x>: PARameter:MEASure?

Function Queries all settings related to the search using automated measurement of waveform parameters

(measure search).

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:

PARameter: MEASure?

< x > = 1 to 4

Example :HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER: MEASURE? -> : HISTORY: CURRENT:

SEARCH:SELECT1:PARAMETER:MEASURE: FLEXRAY:BUS:TYPE:BSS 1.0000000E+00,

0.000000E+00

# :HISTory[:CURRent][:SEARch]:SELect<x>: PARameter:MEASure:BIT<x>?

Function Queries all settings related to each logic bit of measure search.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:

PARameter:MEASure:BIT<x>?

<x> of SELect<x> = 1 to 4

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.)

Example :HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER: MEASURE: BIT1?

-> :HISTORY:CURRENT:SEARCH:SELECT1: PARAMETER:MEASURE:BIT1:AREA1:TYPE:

COUNT 1.000E+00,0.000E+00

# :HISTory[:CURRent][:SEARch]:SELect<x>: PARameter:MEASure:BIT<x>:AREA<x>?

Function Queries all settings related to each area of measure

search.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:

PARameter:MEASure:BIT<x>:AREA<x>?

<x> of SELect<x> = 1 to 4

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.)

<x> of AREA<x> = 1 or 2

Example :HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER: MEASURE: BIT1: AREA1?

-> : HISTORY: CURRENT: SEARCH: SELECT1: PARAMETER: MEASURE: BIT1: AREA1: TYPE:

COUNT 1.000E+00,0.000E+00

### :HISTory[:CURRent][:SEARch]:SELect<x>: PARameter:MEASure:BIT<x>:AREA<x>:TYPE?

Function Queries all settings related to logic waveform parameters of measure search.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:

<x> of SELect<x> = 1 to 4

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

PARameter: MEASure: BIT<x>: AREA<x>: TYPE?

1 to 8 is valid.)

<x> of AREA<x> = 1 or 2

Example :HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER: MEASURE: BIT1: AREA1: TYPE?
-> : HISTORY: CURRENT: SEARCH: SELECT1:
PARAMETER: MEASURE: BIT1: AREA1: TYPE:

COUNT 1.000E+00,0.000E+00

# :HISTory[:CURRent][:SEARch]:SELect<x>: PARameter:MEASure:BIT<x>:AREA<x>:

### TYPE:<parameter>

Function Sets the upper and lower limits of the logic waveform of measure search or queries the current setting.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:
 PARameter:MEASure:BIT<x>:AREA<x>:

TYPE:rmander: SIT (no interior) |
TYPE:TYPE:rmander: SIT (no interior) |
TYPE:

(<time>,<time>)|

(<frequency>,<frequency>) }

:HISTory[:CURRent][:SEARch]:SELect<x>:

PARameter:MEASure:BIT<x>:AREA<x>:

TYPE:<parameter>?

<x> of SELect<x> = 1 to 4

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.)

<x> of AREA<x> = 1 or 2

<parameter>={COUNt|DELay|DT|DUTYcycle|

FREQuency | NWIDth | PERF requency | PERiod|

PWIDth)

<NRf>, <time>, <frequency> = see main unit user's

manual.

Example (The following is an example of the count with trace 1 area 1.)

: HISTORY: CURRENT: SEARCH: SELECT1:

PARAMETER:MEASURE:BIT1:AREA1:TYPE:

COUNT 0,1

: HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER:MEASURE:BIT1:AREA1:TYPE:

COUNT?

-> :HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER: MEASURE: BIT1: AREA1: TYPE:

COUNT 1.000E+00,0.000E+00

#### :HISTory[:CURRent][:SEARch]: :HISTory[:CURRent][:SEARch]:SELect<x>: SELect<x>:PARameter:MEASure: PARameter: MEASure: FLEXray: BUS: TYPE? Queries all settings related to the waveform Function CALCulation<x> parameters of the FLEXRAY bus of the measure Function Sets the upper and lower limits of the calculation item search. of the measure search or queries the current setting. :HISTory[:CURRent][:SEARch]:SELect<x>: Syntax :HISTory[:CURRent][:SEARch]:SELect<x>: Syntax PARameter: MEASure: FLEXray: BUS: TYPE? PARameter: MEASure: CALCulation<x> {<NRf>,<NRf>} Example :HISTORY:CURRENT:SEARCH:SELECT1: :HISTory[:CURRent][:SEARch]:SELect<x>: PARAMETER: MEASURE: FLEXRAY: BUS: TYPE? PARameter: MEASure: CALCulation<x>? -> : HISTORY: CURRENT: SEARCH: SELECT1: <x> of SELect<x> = 1 to 4 PARAMETER: MEASURE: FLEXRAY: BUS: TYPE: BSS <x> of CALCulation<x> = 1 to 4 1.0000000E+00,0.0000000E+00 $\langle NRf \rangle = -4 \text{ to } 4 \text{ (div)}$ Example :HISTORY:CURRENT:SEARCH:SELECT1: :HISTory[:CURRent][:SEARch]:SELect<x>: PARAMETER: MEASURE: CALCULATION1 1.2 : HISTORY: CURRENT: SEARCH: SELECT1: PARameter: MEASure: FLEXray: BUS: PARAMETER: MEASURE: CALCULATION1? TYPE:<Parameter> -> : HISTORY: CURRENT: SEARCH: SELECT1: Function Sets the upper and lower limits waveform parameters PARAMETER: MEASURE: of the FLEXRAY bus of the measure search or CALCULATION1 2.000E+00,1.000E+00 queries the current setting. Syntax :HISTory[:CURRent][:SEARch]:SELect<x>: :HISTory[:CURRent][:SEARch]:SELect<x>: PARameter: MEASure: FLEXray: BUS: PARameter: MEASure: FLEXray? TYPE:<Parameter> {<NRf>,<NRf>|<Voltage> Function Queries all settings related to the FLEXRAY of the ,<Voltage> | <Current>, <Current> | <Time>, < Time>|<Frequency>,<Frequency>}} measure search. Syntax :HISTory[:CURRent][:SEARch]:SELect<x>: :HISTory[:CURRent][:SEARch]: PARameter: MEASure: FLEXray? SELect<x>:PARameter:MEASure:FLEXray: < x > = 1 to 4BUS: TYPE: < Parameter >? Example :HISTORY:CURRENT:SEARCH:SELECT1: <x> of SFI ect<x> = 1 to 44 PARAMETER: MEASURE: FLEXRAY? -> : HISTORY: <Parameter> = {BSS|BSSFES|FBSS} CURRENT: SEARCH: SELECT1: PARAMETER: <NRf>, <Voltage>, <Current>, <Time>, <Frequency> MEASURE: FLEXRAY: BUS: TYPE: BSS 1.0000000E = See the SB5000 User's Manual +00,0.000000E+00 Example (The following is an example regarding BSS) :HISTORY:CURRENT:SEARCH:SELECT1: PARAMETER: MEASURE: FLEXRAY: BUS: TYPE: BSS :HISTory[:CURRent][:SEARch]:SELect<x>: PARameter: MEASure: FLEXray: BUS? :HISTORY:CURRENT:SEARCH:SELECT1: Function Queries all settings related to the FLEXRAY bus of PARAMETER: MEASURE: FLEXRAY: BUS: TYPE: the measure search. BSS? -> :HISTORY:CURRENT:SEARCH:SELECT1: Syntax :HISTory[:CURRent][:SEARch]:SELect<x>: PARAMETER: MEASURE: FLEXRAY: BUS: TYPE: BSS PARameter: MEASure: FLEXray: BUS? 1.0000000E+00.0.0000000E+00 < x > = 1 to 4Example :HISTORY:CURRENT:SEARCH:SELECT1: :HISTory[:CURRent][:SEARch]:SELect<x>: PARAMETER: MEASURE: FLEXRAY: BUS? -> : PARameter: MEASure: FLEXray: RECeiver? HISTORY: CURRENT: SEARCH: SELECT1: PARAMETER: MEASURE: FLEXRAY: BUS: TYPE: BSS Function Queries all settings related to the FLEXRAY receiver 1.0000000E+00,0.0000000E+00 of the measure search. :HISTory[:CURRent][:SEARch]:SELect<x>: Syntax PARameter:MEASure:FLEXray:RECeiver? < x > = 1 to 4Example :HISTORY:CURRENT:SEARCH:SELECT1: PARAMETER: MEASURE: FLEXRAY: RECEIVER? -> : HISTORY: CURRENT: SEARCH: SELECT1: PARAMETER: MEASURE: FLEXRAY: RECEIVER: RXD: TYPE:DBDRX01 1.0000000E+00,0.0000000E+0

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# :HISTory[:CURRent][:SEARch]:SELect<x>: PARameter:MEASure:FLEXray:RECeiver: RXD?

Function Queries all settings related to the FLEXRAY receiver data of the measure search.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:
 PARameter:MEASure:FLEXray:RECeiver:RXD?
 <x> = 1 to 4

Example :HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER:MEASURE:FLEXRAY:RECEIVER:RXD?

-> :HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER:MEASURE:FLEXRAY:RECEIVER:RXD:

TYPE:DBDRX01 1.0000000E+00,0.0000000E+0

# :HISTory[:CURRent][:SEARch]:SELect<x>: PARameter:MEASure:FLEXray:RECeiver: RXD:TYPE?

Function Queries all settings related to the FLEXRAY receiver waveform data parameters of the measure search.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:
 PARameter:MEASure:FLEXray:RECeiver:RXD:
 TYPE?

< x > = 1 to 4

Example :HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER:MEASURE:FLEXRAY:RECEIVER:

RXD:TYPE? -> :HISTORY:CURRENT:SEARCH:

SELECT1:PARAMETER:MEASURE:FLEXRAY:

RECEIVER:RXD:TYPE:DBDRX01 1.0000000E+00

,0.0000000E+00

:HISTory[:CURRent][:SEARch]:SELect<x>:
PARameter:MEASure:FLEXray:RECeiver:
RXD:TYPE:<Parameter>

Function Sets the upper and lower limits of the FLEXRAY receiver waveform data parameters of the measure search or queries the current setting.

:HISTory[:CURRent][:SEARch]:SELect<x>:
PARameter:MEASure:FLEXray:RECeiver:RXD:
TYPE:<Parameter> {<NRf>,<NRf>|<Voltage>
,<Voltage>|<Current>,<Current>|<Time>,<
Time>|<Frequency>,<Frequency>}
:HISTory[:CURRent][:SEARch]:SELect<x>:
PARameter:MEASure:FLEXray:RECeiver:RXD:
TYPE:<Parameter>?

TYPE:<Parameter>?
<x> of SELect<x> = 1 to 4
<Parameter> = {DBDRX01|DBDRX10|DRXASYM}

<NRf>, <Voltage>, <Current>, <Time>, <Frequency> = See the SB5000 User's Manual

Example (The following is an example regarding DBDTX01.)

:HISTORY:CURRENT:SEARCH:SELECT1:
PARAMETER:MEASURE:FLEXRAY:RECEIVER:RXD:

TYPE:DBDRX01 0,1
:HISTORY:CURRENT:SEARCH:SELECT1:
PARAMETER:MEASURE:FLEXRAY:RECEIVER:
RXD:TYPE:DBDRX01? -> :HISTORY:CURRENT:
SEARCH:SELECT1:PARAMETER:MEASURE:
FLEXRAY:RECEIVER:RXD:TYPE:DBDRX01 1.000

0000E+00,0.0000000E+00

### :HISTory[:CURRent][:SEARch]:

# SELect<x>:PARameter:MEASure:FLEXray:

RECeiver: RXEN?

Syntax

Function Queries all settings related to the FLEXRAY receiver enable data of the measure search.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:
 PARameter:MEASure:FLEXray:RECeiver:
 RXEN?

< x > = 1 to 4

RXEN? -> :HISTORY:CURRENT:SEARCH:
SELECT1:PARAMETER:MEASURE:FLEXRAY:

RECEIVER: RXEN: TYPE:

DBDRXAI 1.0000000E+00,0.0000000E+00

```
:HISTory[:CURRent][:SEARch]:
                                                      :HISTory[:CURRent][:SEARch]:
SELect<x>:PARameter:MEASure:FLEXray:
                                                      SELect<x>:PARameter:MEASure:FLEXray:
RECeiver: RXEN: TYPE?
                                                      TRANsmitter?
        Queries all settings related to the FLEXRAY receiver
                                                               Queries all settings related to the FLEXRAY
Function
                                                      Function
         waveform enable data parameters of the measure
                                                               transmitter of the measure search.
         search.
                                                      Syntax
                                                               :HISTory[:CURRent][:SEARch]:SELect<x>:
Syntax
         :HISTory[:CURRent][:SEARch]:SELect<x>:
                                                               PARameter: MEASure: FLEXray: TRANsmitter?
         PARameter: MEASure: FLEXray: RECeiver:
                                                               < x > = 1 to 4
                                                      Example :HISTORY:CURRENT:SEARCH:SELECT1:
         RXEN: TYPE?
         < x > = 1 to 4
                                                               PARAMETER: MEASURE: FLEXRAY: TRANSMITTER?
Example :HISTORY:CURRENT:SEARCH:SELECT1:
                                                               -> : HISTORY: CURRENT: SEARCH: SELECT1:
         PARAMETER: MEASURE: FLEXRAY: RECEIVER:
                                                               PARAMETER: MEASURE: FLEXRAY: TRANSMITTER:
         RXEN:TYPE? -> :HISTORY:CURRENT:SEARCH:
                                                               TXD:TYPE:DBDTX01 1.000000E+00,
         SELECT1: PARAMETER: MEASURE: FLEXRAY:
                                                               0.000000E+00
         RECEIVER: RXEN: TYPE:
         DBDRXAI 1.0000000E+00,0.0000000E+00
                                                      :HISTory[:CURRent][:SEARch]:
                                                      SELect<x>: PARameter: MEASure: FLEXray:
:HISTory[:CURRent][:SEARch]:
                                                      TRANsmitter: TXD?
SELect<x>:PARameter:MEASure:FLEXray:
                                                      Function
                                                               Queries all settings related to the FLEXRAY
RECeiver: RXEN: TYPE: < Parameter>
                                                               transmitter data of the measure search.
Function Sets the upper and lower limits of the FLEXRAY
                                                               :HISTory[:CURRent][:SEARch]:SELect<x>:
                                                      Syntax
         receiver waveform enable data parameters of the
                                                               PARameter: MEASure: FLEXray: TRANsmitter:
                                                               TXD?
         measure search or queries the current setting.
Syntax
        :HISTory[:CURRent][:SEARch]:SELect<x>:
                                                               < x > = 1 to 4
         PARameter: MEASure: FLEXray: RECeiver:
                                                      Example :HISTORY:CURRENT:SEARCH:SELECT1:
         RXEN:TYPE:<Parameter> {<NRf>,<NRf>|
                                                               PARAMETER: MEASURE: FLEXRAY: TRANSMITTER:
         <Voltage>, <Voltage> | <Current>,
                                                               TXD? -> :HISTORY:CURRENT:SEARCH:SELECT1:
         <Current> | <Time> , <Time> | <Frequency> ,
                                                               PARAMETER: MEASURE: FLEXRAY: TRANSMITTER:
         <Frequency>}
                                                               TXD:TYPE:DBDTX01 1.0000000E+00,
                                                               0.000000E+00
         :HISTory[:CURRent][:SEARch]:SELect<x>:
         PARameter:MEASure:FLEXray:RECeiver:
         RXEN:TYPE:<Parameter>?
                                                      :HISTory[:CURRent][:SEARch]:
         <x> of SELect<x> = 1 to 4
                                                      SELect<x>: PARameter: MEASure: FLEXray:
         <Parameter> = {DBDRXAI|DBDRXIA}
                                                      TRANsmitter: TXD: TYPE?
         <NRf>, <Voltage>, <Current>, <Time>, <Frequency>
                                                               Queries all settings related to the FLEXRAY
         = See the SB5000 User's Manual
                                                               transmitter waveform data parameters of the measure
Example (The following is an example regarding DBDRXAI.)
                                                               search.
         :HISTORY:CURRENT:SEARCH:SELECT1:
                                                      Syntax
                                                               :HISTory[:CURRent][:SEARch]:SELect<x>:
         PARAMETER: MEASURE: FLEXRAY: RECEIVER:
                                                               PARameter: MEASure: FLEXray: TRANsmitter:
         RXEN: TYPE: DBDRXAI 0,1
                                                               TXD: TYPE?
         : HISTORY: CURRENT: SEARCH: SELECT1:
                                                               < x > = 1 to 4
         PARAMETER: MEASURE: FLEXRAY: RECEIVER:
                                                      Example :HISTORY:CURRENT:SEARCH:SELECT1:
         RXEN:TYPE:DBDRXAI? -> :HISTORY:CURRENT:
                                                               PARAMETER: MEASURE: FLEXRAY: TRANSMITTER:
         SEARCH: SELECT1: PARAMETER: MEASURE:
                                                               TXD:TYPE? -> :HISTORY:CURRENT:SEARCH:
         FLEXRAY: RECEIVER: RXEN: TYPE:
                                                               SELECT1: PARAMETER: MEASURE: FLEXRAY:
         DBDRXAI 1.0000000E+00,0.0000000E+00
                                                               TRANSMITTER: TXD: TYPE:
                                                               DBDTX01 1.0000000E+00,0.0000000E+00
```

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# :HISTory[:CURRent][:SEARch]: SELect<x>:PARameter:MEASure:FLEXray: TRANsmitter:TXD:TYPE:<Parameter> Sets the upper and lower limits of the FLEXRAY

transmitter waveform data parameters of the measure search or queries the current setting.

:HISTory[:CURRent][:SEARch]:SELect<x>: Syntax PARameter: MEASure: FLEXray: TRANsmitter:

TXD:TYPE:<Parameter> {<NRf>,<NRf>| <Voltage>, <Voltage> | <Current>,

<Current> | <Time> , <Time> | <Frequency> ,

<Frequency>}

:HISTory[:CURRent][:SEARch]:SELect<x>: PARameter: MEASure: FLEXray: TRANsmitter:

TXD:TYPE:<Parameter>? <x> of SELect<x> = 1 to 4

<Parameter> = {DBDTX01|DBDTX10|DBUSTX01| DBUSTX10|DTXASYM|UBDTX}

<NRf>, <Voltage>, <Current>, <Time>, <Frequency> = See the SB5000 User's Manual

Example (The following is an example regarding DBDTX01.) :HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER: MEASURE: FLEXRAY: TRANSMITTER:

TXD:TYPE:DBDTX01 0.1

: HISTORY: CURRENT: SEARCH: SELECT1:

PARAMETER: MEASURE: FLEXRAY: TRANSMITTER: TXD:TYPE:DBDTX01? -> :HISTORY:CURRENT:

SEARCH: SELECT1: PARAMETER: MEASURE: FLEXRAY: TRANSMITTER: TXD: TYPE: DBDTX01

1.0000000E+00,0.0000000E+00

# :HISTory[:CURRent][:SEARch]:SELect<x>: PARameter: MEASure: FLEXray: TRANsmitter: TXEN?

Function Queries all settings related to the FLEXRAY transmitter enable data of the measure search.

:HISTory[:CURRent][:SEARch]:SELect<x>: Syntax PARameter: MEASure: FLEXray: TRANsmitter:

< x > = 1 to 4

TXEN?

Example :HISTORY:CURRENT:SEARCH:SELECT1: PARAMETER: MEASURE: FLEXRAY: TRANSMITTER: TXEN? -> :HISTORY:CURRENT:SEARCH:

SELECT1: PARAMETER: MEASURE: FLEXRAY:

TRANSMITTER: TXEN: TYPE:

DBDTXAI 1.0000000E+00,0.0000000E+00

:HISTory[:CURRent][:SEARch]:

SELect<x>:PARameter:MEASure:FLEXray:

TRANsmitter: TXEN: TYPE?

Function Queries all settings related to the FLEXRAY transmitter waveform enable data parameters of the

measure search.

:HISTory[:CURRent][:SEARch]:SELect<x>: Syntax

PARameter: MEASure: FLEXray: TRANsmitter:

TXEN: TYPE? < x > = 1 to 4

Example : HISTORY: CURRENT: SEARCH: SELECT1:

> PARAMETER: MEASURE: FLEXRAY: TRANSMITTER: TXEN:TYPE? -> :HISTORY:CURRENT:SEARCH:

SELECT1: PARAMETER: MEASURE: FLEXRAY:

TRANSMITTER: TXEN: TYPE:

DBDTXAI 1.0000000E+00,0.0000000E+00

# :HISTory[:CURRent][:SEARch]: SELect<x>:PARameter:MEASure:FLEXray: TRANsmitter: TXEN: TYPE: < Parameter>

Function Sets the upper and lower limits of the FLEXRAY transmitter waveform enable data parameters of the measure search or queries the current setting.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>: PARameter: MEASure: FLEXray: TRANsmitter:

TXEN:TYPE:<Parameter> {<NRf>,<NRf>|

<Voltage>, <Voltage> | <Current>,

<Current> | <Time> , <Time> | <Frequency> ,

<Frequency>}

:HISTory[:CURRent][:SEARch]:SELect<x>: PARameter: MEASure: FLEXray: TRANsmitter:

TXEN:TYPE:<Parameter>?

<x> of SELect<x> = 1 to 4

<Parameter> = {DBDTXAI|DBDTXIA|DBUSTXAI|DB

<NRf>, <Voltage>, <Current>, <Time>, <Frequency>

= See the SB5000 User's Manual

Example (The following is an example regarding DBDRXAI

:HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER: MEASURE: FLEXRAY: TRANSMITTER:

TXEN:TYPE:DBDTXAI 0.1

:HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER: MEASURE: FLEXRAY: TRANSMITTER:

TXEN:TYPE:DBDTXAI? -> :HISTORY:CURRENT:

SEARCH: SELECT1: PARAMETER: MEASURE:

FLEXRAY: TRANSMITTER: TXEN: TYPE:

DBDTXAI 1.0000000E+00.0.0000000E+00

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```
:HISTory[:CURRent][:SEARch]:
                                                       :HISTory[:CURRent][:SEARch]:
SELect<x>:PARameter:MEASure:
                                                       SELect<x>:PARameter:MEASure:
                                                       TRACe<x>:AREA<x>:TYPE?
TRACe<x>?
Function
         Queries all settings related to the trace of the
                                                                Queries all settings related to the waveform
         measure search.
                                                                parameters of the measure search.
                                                                :HISTory[:CURRent][:SEARch]:SELect<x>:
Syntax
         :HISTory[:CURRent][:SEARch]:SELect<x>:
                                                       Syntax
         PARameter: MEASure: TRACe<x>?
                                                                PARameter: MEASure: TRACe<x>: AREA<x>:
         <x> of SELect<x> = 1 to 4
         <x> of TRACe<x> = 1 to 8
                                                                <x> of SELect<x> = 1 to 4
                                                                <x> of TRACe<x> = 1 to 8
Example :HISTORY:CURRENT:SEARCH:SELECT1:
         PARAMETER: MEASURE: TRACE1? -> : HISTORY:
                                                                 <x> of AREA<x> = 1 or 2
         CURRENT: SEARCH: SELECT1: PARAMETER:
                                                       Example :HISTORY:CURRENT:SEARCH:SELECT1:
         MEASURE: TRACE1: AREA1: TYPE:
                                                                PARAMETER: MEASURE: TRACE1: AREA1: TYPE?
         BURST 2.000E+00,1.000E+00
                                                                 -> : HISTORY: CURRENT: SEARCH: SELECT1:
                                                                PARAMETER: MEASURE: TRACE1: AREA1: TYPE:
                                                                BURST 2.000E+00,1.000E+00
:HISTory[:CURRent][:SEARch]:
SELect<x>:PARameter:MEASure:
                                                       :HISTory[:CURRent][:SEARch]:
TRACe<x>: AREA<x>?
                                                       SELect<x>: PARameter: MEASure:
Function   Queries all settings related to the area of the measure
                                                       TRACe<x>:AREA<x>:TYPE:<Parameter>
         :HISTory[:CURRent][:SEARch]:SELect<x>:
                                                                Sets the upper and lower limits of the waveform
Syntax
         PARameter: MEASure: TRACe<x>: AREA<x>?
                                                                parameter of the measure search or queries the
         <x> of SELect<x> = 1 to 4
                                                                current setting.
         <x> of TRACe<x> = 1 to 8
                                                       Syntax
                                                                :HISTory[:CURRent][:SEARch]:SELect<x>:
         <x> of AREA<x> = 1 or 2
                                                                PARameter:MEASure:TRACe<x>:AREA<x>:
Example :HISTORY:CURRENT:SEARCH:SELECT1:
                                                                TYPE:<Parameter> { (<NRf>, <NRf>) |
         PARAMETER: MEASURE: TRACE1: AREA1?
                                                                 (<Voltage>, <Voltage>) |
         -> : HISTORY: CURRENT: SEARCH: SELECT1:
                                                                 (<Current>, <Current>) | (<Time>, <Time>) |
         PARAMETER: MEASURE: TRACE1: AREA1: TYPE:
                                                                 (<Frequency>, <Frequency>) }
         BURST 2.000E+00,1.000E+00SELect<x>:
                                                                 :HISTory[:CURRent][:SEARch]:SELect<x>:
         PARameter:MEASure:TRACe<x>:AREA<x>:
                                                                PARameter:MEASure:TRACe<x>:AREA<x>:
         TYPE?
                                                                TYPE:<Parameter>?
                                                                <x> of SELect<x> = 1 to 4
                                                                <x> of TRACe<x> = 1 to 8
                                                                <x> of AREA<x> = 1 or 2
                                                                <Parameter> = {BURSt|CMEan|COUNt|CRMS|
                                                                CSDeviation|DELay|DT|DUTYcycle|FALL|
                                                                FREQuency|HIGH|HILow|LOW|MAXimum|MEAN|
                                                                MINimum|NOVershoot|NWIDth|PERFrequency|
                                                                PERiod|POVershoot|PTOPeak|PWIDth|RISE|
                                                                RMS|SDEViation|TYCInteg|TYINteg|V1|V2}
                                                                <NRf>, <Voltage>, <Current>, <Time>, and
                                                                <Frequency> = See the SB5000 User's Manual.
                                                       Example
                                                                (The following is an example for the maximum value
                                                                of trace 1 and area 1.)
                                                                 :HISTORY:CURRENT:SEARCH:SELECT1:
                                                                PARAMETER: MEASURE: TRACE1: AREA1: TYPE:
                                                                MAXIMUM 0.1
                                                                 : HISTORY: CURRENT: SEARCH: SELECT1:
                                                                PARAMETER: MEASURE: TRACE1: AREA1: TYPE:
                                                                MAXIMUM? -> :HISTORY:CURRENT:SEARCH:
                                                                SELECT1: PARAMETER: MEASURE: TRACE1: AREA1:
```

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TYPE:MAXIMUM 1.000E+00,0.000E+00

# :HISTory[:CURRent][:SEARch]:

#### SELect<x>: PARameter: XY<x>?

Function Queries all settings related to the XY search.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:

PARameter: XY<x>? <x> of SELect<x> = 1 to 4 <x> of XY<x> = 1 or 2

Example :HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER:XY1? -> :HISTORY:CURRENT:

SEARCH:SELECT1:PARAMETER:XY1: XYINTEG 2.000E+00,1.000E+00

#### :HISTory[:CURRent][:SEARch]:

#### SELect<x>: PARameter: XY<x>: XYINteg

Function Sets the upper and lower limits integral value of the

XY search or queries the current setting.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:

PARameter:XY<x>:XYINteg {<NRf>,<NRf>}
:HISTory[:CURRent] [:SEARch]:SELect<x>:

PARameter:XY<x>:XYINteg?

<x> of SELect<x> = 1 to 4

<x> of XY<x> = 1 or 2 <NRf> = -4 to 4 (div)

Example :HISTORY:CURRENT:SEARCH:SELECT1:

PARAMETER:XY1:XYINTEG 1,2

:HISTORY:CURRENT:SEARCH:SELECT1:
PARAMETER:XY1:XYINTEG? -> :HISTORY:

 ${\tt CURRENT:SEARCH:SELECT1:}$ 

PARAMETER:XY1:

XYINTEG 2.000E+00,1.000E+00

#### :HISTory[:CURRent][:SEARch]:

#### SELect<x>:RECTangle?

Function Queries all settings related to the rectangle search.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:

RECTangle?

< x > = 1 to 4

Example :HISTORY:CURRENT:SEARCH:SELECT1:

RECTANGLE? -> :HISTORY:CURRENT:SEARCH:
SELECT1:RECTANGLE:HORIZONTAL 2.000E+00,

1.000E+00; VERTICAL 2.000E+00, 1.000E+00

#### :HISTory[:CURRent][:SEARch]:

#### SELect<x>:RECTangle:HORizontal

Function Sets the horizontal position of the rectangle used in

the rectangle search or queries the current setting.

:HISTory[:CURRent][:SEARch]:SELect<x>:

RECTangle: HORizontal?

< x > = 1 to 4

<NRf> = -5 to 5 (div)

Example :HISTORY:CURRENT:SEARCH:SELECT1:

RECTANGLE: HORIZONTAL 1,2

:HISTORY:CURRENT:SEARCH:SELECT1:
RECTANGLE:HORIZONTAL? -> :HISTORY:

CURRENT: SEARCH: SELECT1:

RECTANGLE: HORIZONTAL 2.000E+00,

1.000E+00

#### :HISTory[:CURRent][:SEARch]:

#### SELect<x>:RECTangle:VERTical

Function Sets the vertical position of the rectangle used in the rectangle search or queries the current setting.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:

RECTangle:VERTical {<NRf>,<NRf>}

:HISTory[:CURRent][:SEARch]:SELect<x>:

RECTangle: VERTical?

< x > = 1 to 4

<NRf> = -4 to 4 (div)

Example :HISTORY:CURRENT:SEARCH:SELECT1:

RECTANGLE: VERTICAL 1,2

:HISTORY:CURRENT:SEARCH:SELECT1:
RECTANGLE:VERTICAL? -> :HISTORY:
CURRENT:SEARCH:SELECT1:RECTANGLE:

VERTICAL 2.000E+00,1.000E+00

#### :HISTory[:CURRent][:SEARch]:

#### SELect<x>:TRACe

Function Sets the source trace of the history search or queries

the current setting.

Syntax :HISTory[:CURRent][:SEARch]:SELect<x>:

TRACe {<NRf>}

:HISTory[:CURRent][:SEARch]:SELect<x>:

TRACe?

< x > = 1 to 4

<NRf> = 1 to 8

Example :HISTORY:CURRENT:SEARCH:SELECT1:TRACE 1

:HISTORY:CURRENT:SEARCH:SELECT1:TRACE?

-> :HISTORY:CURRENT:SEARCH:SELECT1:

TRACE 1

Description This command is invalid when Window is XY.

#### :HISTory[:CURRent][:SEARch]: :HISTory[:CURRent][:SEARch]: SELect<x>:WAVE? SELect<x>:WAVE:EDIT<x>:WHOLe Sets the editing of the entire zone of the wave search. Function Queries all settings related to the search in the Function waveform zone (wave search). :HISTory[:CURRent][:SEARch]:SELect<x>: Syntax Syntax :HISTory[:CURRent][:SEARch]:SELect<x>: WAVE:EDIT<x>: WHOLe { <NRf>, <NRf>, <NRf>, <NRf>} WAVE? < x > = 1 to 4<x> of SELect<x> = 1 to 4 <x> of EDIT<x> = 1 to 13 (1 to 8 are traces. 9 to 12 Example :HISTORY:CURRENT:SEARCH:SELECT1:WAVE? are internal memories. 13 is the zone waveform that -> : HISTORY: CURRENT: SEARCH: SELECT1: is currently displayed) WAVE:TRANGE 2.000E+00,1.000E+00 <NRf> =0 to 5 (div: left and right) 0 to 8 (div: up and down) :HISTory[:CURRent][:SEARch]: (In the order $\leftarrow$ , $\rightarrow$ , $\uparrow$ , and $\downarrow$ ) SELect<x>:WAVE:EDIT<x>:EXIT Example :HISTORY:CURRENT:SEARCH:SELECT1:WAVE: Function Exits the zone edit menu of the wave search. EDIT1:WHOLE 1,2,3,4 Syntax :HISTory[:CURRent][:SEARch]:SELect<x>: Description The amount of movement is a relative value with WAVE:EDIT<x>:EXIT {<NRf>|QUIT} respect to the reference waveform. <x> of SELect<x> = 1 to 4 < x > of EDIT < x > = 1 to 13:HISTory[:CURRent][:SEARch]: <NRf> = 1 to 4 (internal memories) SELect<x>:WAVE:TRANge Example :HISTORY:CURRENT:SEARCH:SELECT1:WAVE: EDIT1:EXIT 1 Function Sets the range over which to perform the wave Description. An error occurs if this command is issued when the search or queries the current setting. zone is not being edited. :HISTory[:CURRent][:SEARch]:SELect<x>: Syntax · Saves the zone waveform to the internal memory WAVE:TRANge {<NRf>, <NRf>} specified by <NRf>. :HISTory[:CURRent][:SEARch]:SELect<x>: WAVE: TRANge? < x > = 1 to 4:HISTory[:CURRent][:SEARch]: <NRf> = -5 to 5 (div)SELect<x>:WAVE:EDIT<x>:PART Example :HISTORY:CURRENT:SEARCH:SELECT1:WAVE: Function Sets the editing of the portion of the zone of the wave TRANGE 1,2 search. : HISTORY: CURRENT: SEARCH: SELECT1: WAVE: Syntax :HISTory[:CURRent][:SEARch]:SELect<x>: TRANGE? -> :HISTORY:CURRENT:SEARCH: WAVE:EDIT<x>:PART {<NRf>,<NRf>,<NRf>,<N SELECT1: WAVE: TRANGE 2.000E+00,1.000E+00 <x> of SFI ect<x> = 1 to 4 :HISTory[:CURRent][:SEARch]: <x> of EDIT<x> = 1 to 13 (1 to 8 are traces. 9 to 12 SELect<x>:WINDow are internal memories. 13 is the zone waveform that is currently displayed) Function Sets the source window of the history search or <NRf> =-5 to 5 (div: partial editing time axis cursor 1 queries the current setting. :HISTory[:CURRent][:SEARch]:SELect<x>: Syntax -8 to 8 (div: up and down) (in the order WINDow {MAIN|XY1|XY2|Z1|Z2} partial editing time axis cursor 1, 2, ↑, and ↓) :HISTory[:CURRent][:SEARch]:SELect<x>: Example :HISTORY:CURRENT:SEARCH:SELECT1:WAVE: WINDow? EDIT1: PART 1,2,3,4 < x > = 1 to 4Description The amount of movement upward or downward is a Example :HISTORY:CURRENT:SEARCH:SELECT1: relative value with respect to the zone waveform that WINDOW MAIN is currently displayed. :HISTORY:CURRENT:SEARCH:SELECT1:WINDOW? -> : HISTORY: CURRENT: SEARCH: SELECT1: WINDOW MAIN

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Description XY1 and XY2 are valid only for a rectangular polygon.

#### :HISTory[:CURRent]:TIME?

Function Queries the time of the source record number of the history waveform.

 $\verb|Syntax| : \verb|HISTory|[:CURRent]:TIME?| $$ \{ < NRf > |$ 

MINimum}

Example :HISTORY:CURRENT:TIME? -1 -> :HISTORY:

CURRENT:TIME "-1 10:20:30.10"

Description Specifying MINimum sets the record to the minimum record number.

#### :HISTory:REFerence<x>?

Function Queries all settings related to the history function of the reference.

Syntax :HISTory:REFerence<x>?

< x > = 1 to 4

Example :HISTORY:REFERENCE1? -> HISTORY:

REFERENCE1: DMODE ACOLOR:

MODE AVERAGE; RECORD 1; REPLAY: SPEED 1

# :HISTory:REFerence<x>:DMODe

### (Display Mode)

Function Sets the display mode of the history waveform of the reference or queries the current setting.

Syntax :HISTory:REFerence<x>:DMODe {ACOLor|

AHTone | AINTensity | ONE } :HISTory: REFerence < x > : DMODe?

< x > = 1 to 4

Example :HISTORY:REFERENCE1:DMODE ACOLOR

:HISTORY:REFERENCE1:DMODE? -> :HISTORY:

REFERENCE1: DMODE ACOLOR

#### :HISTory:REFerence<x>:MODE

Function Sets the highlight display mode of the history waveform of the reference or queries the current setting.

Syntax :HISTory:REFerence<x>:MODE {AVERage|

RECord }

:HISTory:REFerence<x>:MODE?

< x > = 1 to 4

Example :HISTORY:REFERENCE1:MODE AVERAGE

:HISTORY:REFERENCE1:MODE? -> :HISTORY:

REFERENCE1:MODE AVERAGE

### :HISTory:REFerence<x>:RECord

Function Sets the source record of the history waveform of the reference or queries the current setting.

Syntax :HISTory:REFerence<x>:RECord {<NRf>|

MINimum }

:HISTory:REFerence<x>:RECord?

< x > = 1 to 4

<NRf> = See the SB5000 User's Manual.

Example :HISTORY:REFERENCE1:RECORD 1

:HISTORY:REFERENCE1:RECORD?
-> :HISTORY:REFERENCE1:RECORD 1

#### :HISTory:REFerence<x>:RECord? MINimum

Function Queries the minimum record number of the history waveform of the reference.

Syntax :HISTory:REFerence<x>:RECord? {MINimum}

< x > = 1 to 4

Example :HISTORY:REFERENCE1:RECORD? MINIMUM

-> :HISTORY:REFERENCE1:RECORD -1

Description Specifying MINimum sets the record to the minimum record number.

#### :HISTory:REFerence<x>:REPLay?

Function Queries all settings related to the replay function of the history function of the reference.

Syntax :HISTory:REFerence<x>:REPLay?

< x > = 1 to 4

Example :HISTORY:REFERENCE1:REPLAY?

-> :HISTORY:REFERENCE1:REPLAY:SPEED 1

#### :HISTory:REFerence<x>:REPLay:JUMP

Function Jumps to the specified record number of the history waveform of the reference.

Syntax :HISTory:REFerence<x>:REPLay:

JUMP {MAXimum|MINimum}

< x > = 1 to 4

Example :HISTORY:REFERENCE1:REPLAY:JUMP MAXIMUM

#### :HISTory:REFerence<x>:REPLay:SPEed

Function Sets the replay speed of the history waveform of the reference or queries the current setting.

Syntax :HISTory:REFerence<x>:REPLay:SPEed
{<NRf>|PER3|PER10|PER30|PER60}

:HISTory:REFerence<x>:REPLay:SPEed?

<x> = 1 to 4<NRf> = 1.3.10

Example :HISTORY:REFERENCE1:REPLAY:SPEED 1

:HISTORY:REFERENCE1:REPLAY:SPEED?

-> :HISTORY:REFERENCE1:REPLAY:SPEED 1

### :HISTory:REFerence<x>:REPLay:STARt

Function Starts the replay of the history waveform of the reference.

Syntax :HISTory:REFerence<x>:REPLay:STARt

{MAXimum|MINimum}

< x > = 1 to 4

Example :HISTORY:REFERENCE1:REPLAY:START

MAXIMUM

#### :HISTory:REFerence<x>:REPLay:STOP

Function Stops the replay of the history waveform of the

Syntax :HISTory:REFerence<x>:REPLay:STOP

< x > = 1 to 4

Example :HISTORY:REFERENCE1:REPLAY:STOP

### :HISTory:REFerence<x>:TIME?

Function Queries the time of the source record number of the

reference waveform.

 $\verb|Syntax| : \verb|HISTory:REFerence<x>:TIME?| \\ \{<\verb|NRf>|$ 

MINimum < x > = 1 to 4

Example :HISTORY:REFERENCE1:TIME? -1

-> :HISTORY:REFERENCE1: TIME "-1 10:20:30.10"

Description Specifying MINimum sets the record to the minimum record number.

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# 5.16 IMAGe Group

#### :IMAGe?

Function Queries all settings related to the output of screen

image data.

Syntax : IMAGe?

Example : IMAGE? -> : IMAGE: FORMAT BMP; TONE COLOR

#### :IMAGe:FORMat

Function Sets the output format of the screen image data or

queries the current setting.

 $\verb|Syntax| : \verb|IMAGe:FORMat| $\{ \texttt{BMP} \,|\, \texttt{JPEG} \,|\, \texttt{PNG} \} \\$ 

:IMAGe:FORMat?

Example : IMAGE: FORMAT BMP

:IMAGE:FORMAT? -> :IMAGE:FORMAT BMP

#### : IMAGe: SEND?

Function Queries the screen image data.

Syntax : IMAGe: SEND?

Example :IMAGE:SEND? -> #6 (number of bytes, 6 digits) (data

byte sequence) (block data)

Description For details on <Block data>, see page 4-6.

#### :IMAGe:TONE

Function Sets the tone of the screen image data or queries the

current setting.

Syntax :IMAGe:TONE {COLor|GRAY|OFF|REVerse}

:IMAGe:TONE?

Example :IMAGE:TONE COLOR

:IMAGE:TONE? -> :IMAGE:TONE COLOR

Description If ":IMAGe:FORMat JPEG" is specified, OFF cannot be selected.

# 5.17 INITialize Group

#### :INITialize:EXECute

Function Execute the initialization.

Syntax :INITialize:EXECute

Example :INITIALIZE:EXECUTE

#### :INITialize:UNDO

Function Cancels the initialization that was executed.

Syntax :INITialize:UNDO
Example :INITIALIZE:UNDO

# 5.18 LOGic Group

#### :LOGic?

```
:LOGic:AWINdow[:DISPlay]
Function
        Queries all settings related to the logic.
                                                      Function Turns ON/OFF the analog waveform display or
Syntax
         :LOGic?
                                                                queries the current setting.
Example :LOGIC? -> :LOGIC:AWINDOW:DISPLAY 1;
                                                      Syntax
                                                                :LOGic:AWINdow[:DISPlay] {<Boolean>}
         RATIO 50;:LOGIC:DESKEW 0.00000E+00;
                                                                :LOGic:AWINdow[:DISPlay]?
         GROUP1:BUNDLE:FORMAT HEXA;MODE 0;:
                                                      Example :LOGIC:AWINDOW:DISPLAY ON
         LOGIC: GROUP1: DISPLAY 0;
                                                                :LOGIC:AWINDOW:DISPLAY?
         MAPPING "A7A6A5A4A3A2A1A0"; ORDER 1;
                                                                -> :LOGIC:AWINDOW:DISPLAY 1
         STATE 0;:LOGIC:GROUP2:BUNDLE:
         FORMAT HEXA; MODE 0;:LOGIC:GROUP2:
         DISPLAY 0; MAPPING "B7B6B5B4B3B2B1B0";
                                                      :LOGic:AWINdow:RATio
         ORDER 2; STATE 0; :LOGIC: GROUP3: BUNDLE:
                                                      Function
                                                               Sets the analog waveform display ratio or queries the
         FORMAT HEXA; MODE 0;:LOGIC:GROUP3:
                                                               current setting.
         DISPLAY 0; MAPPING "C7C6C5C4C3C2C1C0";
                                                      Syntax
                                                               :LOGic:AWINdow:RATio {<NRf>}
         ORDER 3; STATE 0;:LOGIC:GROUP4:BUNDLE:
                                                               :LOGic:AWINdow:RATio?
         FORMAT HEXA; MODE 0;:LOGIC:GROUP4:
                                                               <NRf>=25(%),50(%),75(%)
         DISPLAY 0; MAPPING "D7D6D5D4D3D2D1D0";
                                                      Example :LOGIC:AWINDOW:RATIO 25
         ORDER 4; STATE 0; :LOGIC: GROUP5: BUNDLE:
                                                                :LOGIC:AWINDOW:RATIO?
         FORMAT HEXA; MODE 0;:LOGIC:GROUP5:
                                                                -> :LOGIC:AWINDOW:RATIO 25
         DISPLAY 0; MAPPING ""; ORDER 5; STATE 0;:
         LOGIC:LABEL:BNAME:A0 "A0";A1 "A1";
                                                      :LOGic:DESKew
         A2 "A2"; A3 "A3"; A4 "A4"; A5 "A5";
                                                               Sets the skew correction of the logic signal or queries
                                                      Function
         A6 "A6"; A7 "A7"; B0 "B0"; B1 "B1";
                                                               the current setting.
         B2 "B2";B3 "B3";B4 "B4";B5 "B5";
                                                      Syntax :LOGic:DESKew {<Time>}
         B6 "B6";B7 "B7";C0 "C0";C1 "C1";
                                                                :LOGic:DESKew?
         C2 "C2"; C3 "C3"; C4 "C4"; C5 "C5";
                                                               <Time> = -80 ns to 80 ns (10 ps steps)
         C6 "C6"; C7 "C7"; D0 "D0"; D1 "D1";
                                                      Example :LOGIC:DESKEW 1NS
         D2 "D2";D3 "D3";D4 "D4";D5 "D5";
                                                                :LOGIC:DESKEW?
         D6 "D6";D7 "D7";:LOGIC:LABEL:LNAME:
                                                                -> :LOGIC:DESKEW 1.000E-09
         GROUP1 "Group1";GROUP2 "Group2";
         GROUP3 "Group3";GROUP4 "Group4";
                                                      :LOGic:GROup<x>?
         GROUP5 "Group5";:LOGIC:LABEL:MODE 1;:
                                                      Function Queries all settings related to the logic group.
         LOGIC: MODE 0; POSITION 0; SCLOCK:
                                                      Syntax
                                                               :LOGic:GROup<x>?
         POLARITY RISE; SOURCE A0; : LOGIC:
                                                               < x > = 1 to 5
         SIZE MIDIUM: THRESHOLD: PODA: TYPE CMOS5:
                                                      Example :LOGIC:GROUP1? -> :LOGIC:GROUP1:BUNDLE:
         USERLEVEL 0.000E+00;:LOGIC:THRESHOLD:
                                                               FORMAT HEXA; MODE 0;:LOGIC:GROUP1:
         PODB: TYPE CMOS5; USERLEVEL 0.000E+00;:
                                                               DISPLAY 0; MAPPING "A7A6A5A4A3A2A1A0";
         LOGIC: THRESHOLD: PODC: TYPE CMOS5;
                                                               ORDER 1; STATE 0
         USERLEVEL 0.000E+00;:LOGIC:THRESHOLD:
         PODD: TYPE CMOS5; USERLEVEL 0.000E+00;:
                                                      :LOGic:GROup<x>:BUNDle?
         LOGIC: WINDOW: ANALOG 1; RATIO A1 L1
                                                               Queries all settings related to the bundle of the logic
                                                      Function
```

#### :LOGic:AWINdow?

Function Queries all settings related to analog waveform display.

Syntax :LOGic:AWINdow?
Example :LOGIC:AWINDOW?

-> :LOGIC:AWINDOW:DISPLAY 1;RATIO 50

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#### :LOGic:GROup<x>:BUNDle:FORMat

Function Sets the display format (bus display) of the bundled

value of the logic group or queries the current setting.

Syntax :LOGic:GROup<x>:BUNDle:

FORMat {BINary|HEXa|SYMBol}
:LOGic:GROup<x>:BUNDle:FORMat?

< x > = 1 to 5

Example :LOGIC:GROUP1:BUNDLE:FORMAT HEXA

:LOGIC:GROUP1:BUNDLE:FORMAT? -> :LOGIC:

GROUP1:BUNDLE:FORMAT HEXA

#### :LOGic:GROup<x>:BUNDle:MODE

Function Sets the bundle mode of the logic group or queries

the current setting.

Syntax :LOGic:GROup<x>:BUNDle:MODE {<Boolean>}

:LOGic:GROup<x>:BUNDle:MODE?

< x > = 1 to 5

Example :LOGIC:GROUP1:BUNDLE:MODE ON

:LOGIC:GROUP1:BUNDLE:MODE? -> :LOGIC:

GROUP1:BUNDLE:MODE 1

#### :LOGic:GROup<x>:BUNDle:SYMBol

Function Sets the symbol item of the bundle value of each

logic group.

Syntax :LOGic:GROup<x>:BUNDle:

SYMBol {<String>, <Boolean>}

< x > = 1 to 5

<String> = Up to 16 characters

Example :LOGIC:GROUP1:BUNDLE:SYMBOL "TEST",ON

# :LOGic:GROup<x>:DISPlay

Function Turns ON/OFF the display of the logic group or

queries the current setting.

 $\verb|Syntax| : \verb|LOGic:GROup<x>:DISPlay| \{ < \verb|Boolean>| \}$ 

:LOGic:GROup<x>:DISPlay?

< x > = 1 to 5

Example :LOGIC:GROUP1:DISPLAY ON

:LOGIC:GROUP1:DISPLAY? -> :LOGIC:

GROUP1:DISPLAY 1

#### :LOGic:GROup<x>:MAPPing

Function Sets the bit mapping of the logic group or queries the

current setting.

Syntax :LOGic:GROup<x>:MAPPing {<String>}

:LOGic:GROup<x>:MAPPing?

< x > = 1 to 5

<String> = Up to 64 characters by combining "A0" to "A7," "B0" to "B7," "C0" to "C7," and "D0" to "D7." (For the SB5310, <string> is a combination of "A0-A7"

of up to 16 characters)

Example :LOGIC:GROUP1:MAPPING "A7A6A5A4B3B2B1B0

C7C6C5C4D3D2D1D0"

:LOGIC:GROUP1:MAPPING? -> :LOGIC:

GROUP1:MAPPING "A7A6A5A4B3B2B1B0C7C6C5C

4D3D2D1D0"

#### :LOGic:GROup<x>:ORDer

Function Sets the displayed order of the logic group or queries

the current setting.

Syntax :LOGic:GROup<x>:ORDer {<NRf>}

:LOGic:GROup<x>:ORDer?

< x > = 1 to 5

< NRf > = 1 to 5

Example :LOGIC:GROUP1:ORDER 1

:LOGIC:GROUP1:ORDER? -> :LOGIC:GROUP1:

ORDER 1

#### :LOGic:GROup<x>:STATe

Function Turns ON/OFF the state display of the logic group or

queries the current setting.

Syntax :LOGic:GROup<x>:STATe {<Boolean>}

:LOGic:GROup<x>:STATe?

< x > = 1 to 5

Example :LOGIC:GROUP1:STATE ON

:LOGIC:GROUP1:STATE? -> :LOGIC:GROUP1:

STATE 1

#### :LOGic:LABel?

Function Queries all settings related to the label of the logic

signal.

Syntax :LOGic:LABel?

Example :LOGIC:LABEL: -> :LOGIC:LABEL:BNAME:

A0 "A0";A1 "A1";A2 "A2";A3 "A3";A4

"A4";A5 "A5";A6 "A6";A7 "A7";B0 "B0";

B1 "B1";B2 "B2";B3 "B3";B4 "B4";

B5 "B5";B6 "B6";B7 "B7";C0 "C0";

C1 "C1";C2 "C2";C3 "C3";C4 "C4";

C5 "C5";C6 "C6";C7 "C7";D0 "D0";

D1 "D1";D2 "D2";D3 "D3";D4 "D4";D5

"D5";D6 "D6";D7 "D7";

:LOGIC:LABEL:LNAME:GROUP1 "Group1";

GROUP2 "Group2";GROUP3 "Group3";

GROUP4 "Group4";GROUP5 "Group5";

:LOGIC:LABEL:MODE 1

#### :LOGic:LABel:BNAMe?

Function Queries all settings related to the bit name of the

logic signal.

Syntax :LOGic:LABel:BNAMe?

Example :LOGIC:LABEL:BNAME? -> :LOGIC:LABEL:

BNAME:A0 "A0";A1 "A1";A2 "A2";A3 "A3";

A4 "A4";A5 "A5";A6 "A6";A7 "A7";

B0 "B0";B1 "B1";B2 "B2";B3 "B3";

B4 "B4";B5 "B5";B6 "B6";B7 "B7";

C0 "C0";C1 "C1";C2 "C2";C3 "C3";

C4 "C4";C5 "C5";C6 "C6";C7 "C7"; D0 "D0";D1 "D1";D2 "D2";D3 "D3";

D4 "D4";D5 "D5";D6 "D6";D7 "D7"

# :LOGic:LABel:BNAMe: $\{A<x>|B<x>|C<x>|$ D<x> $\}$

Function Sets the bit name of the logic signal or queries the

current setting.

Syntax :LOGic:LABel:BNAMe:{A<x>|B<x>|C<x>|

D<x>} {<String>}

:LOGic:LABel:BNAMe: $\{A < x > | B < x > | C < x > |$ 

D<x>? <x> = 0 to 7

<String> = Up to 8 characters

Example :LOGIC:LABEL:BNAME:A0 "NO 1"

:LOGIC:LABEL:BNAME:A0? -> :LOGIC:LABEL:

BNAME:A0 "NO 1"

Description For the SB5310, only {A<x>} are valid.

#### :LOGic:LABel:LNAMe?

Function Queries all settings related to the group name of the

logic signal.

Syntax :LOGic:LABel:LNAMe?

Example :LOGIC:LABEL:LNAME? -> :LOGIC:LABEL:

LNAME:GROUP1 "Group1";GROUP2 "Group2";

GROUP3 "Group3";GROUP4 "Group4";

GROUP5 "Group5"

#### :LOGic:LABel:LNAMe:GROup<x>

Function Sets the group name of the logic signal or queries the current setting.

Syntax :LOGic:LABel:LNAMe:GROup<x> {<String>}

:LOGic:LABel:LNAMe:GROup<x>?

< x > = 1 to 5

<String> = Up to 8 characters

Example :LOGIC:LABEL:LNAME:GROUP1 "NO 1"

:LOGIC:LABEL:LNAME:GROUP1? -> :LOGIC:

LABEL:LNAME:GROUP1 "NO\_1"

#### :LOGic:LABel:MODE

Function Turns ON/OFF the logic signal label or queries the

current setting.

Syntax :LOGic:LABel:MODE {<Boolean>}

:LOGic:LABel:MODE?

Example :LOGIC:LABEL:MODE ON

:LOGIC:LABEL:MODE? -> :LOGIC:LABEL:

MODE 1

#### :LOGic:MODE

Function Turns ON/OFF the logic signal or queries the current

setting.

Syntax :LOGic:MODE {<Boolean>}

:LOGic:MODE?

Example :LOGIC:MODE ON

:LOGIC:MODE? -> :LOGIC:MODE 1

#### :LOGic:POSition

Function Sets the vertical position of the logic signal or queries

the current setting.

Syntax :LOGic:POSition {<NRf>}

:LOGic:POSition?

<NRf> = -25 to 31

Example :LOGIC:POSITION 0

:LOGIC:POSITION? -> :LOGIC:POSITION 0

#### :LOGic:SCLock?

Function Queries all settings related to the state clock of the

logic signal.

Syntax :LOGic:SCLock?

Example :LOGIC:SCLOCK? -> :LOGIC:SCLOCK:

POLARITY RISE; SOURCE A0

#### :LOGic:SCLock:POLarity

Function Sets the state clock polarity of the logic signal or

queries the current setting.

Syntax :LOGic:SCLock:POLarity {BOTH|FALL|RISE}

:LOGic:SCLock:POLarity?

Example :LOGIC:SCLOCK:POLARITY BOTH

:LOGIC:SCLOCK:POLARITY? -> :LOGIC:

SCLOCK: POLARITY BOTH

#### :LOGic:SCLock:SOURce

Function Sets the state clock source of the logic signal or

queries the current setting.

Syntax :LOGic:SCLock:SOURce {A<x>|B<x>|

C<x>|D<x>

:LOGic:SCLock:SOURce?

< x > = 0 to 7

Example :LOGIC:SCLOCK:SOURCE A0

:LOGIC:SCLOCK:SOURCE? -> :LOGIC:SCLOCK:

SOURCE A0

Description For the SB510, only {A<x>} are valid.

#### :LOGic:SIZE

Function Sets the display size of the logic signal or queries the

current setting.

Syntax :LOGic:SIZE {LARGe|MIDium|SMAL1|

XLARge | XSMall }

:LOGic:SIZE?

Example :LOGIC:SIZE LARGE

:LOGIC:SIZE? -> :LOGIC:SIZE LARGE

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#### :LOGic:THReshold?

Function Queries all settings related to the threshold level of the logic signal.

USERLEVEL 0.000E+00;

:LOGIC:THRESHOLD:PODC:TYPE CMOS5;

:LOGIC:THRESHOLD:PODB:TYPE CMOS5;

USERLEVEL 0.000E+00;

:LOGIC:THRESHOLD:PODD:TYPE CMOS5;

USERLEVEL 0.000E+00

# :LOGic:THReshold:{PODA|PODB|PODC| PODD}?

Function Queries all settings related to the threshold level of

the specified pod (port).

 $\verb|Syntax| : \verb|LOGic:THReshold:{PODA|PODB|PODC|PODD}|?$ 

Example :LOGIC:THRESHOLD:PODA? -> :LOGIC:

THRESHOLD: PODA: TYPE CMOS5;

USERLEVEL 0.000E+00

Description For the SB5310, only {PODA} is valid.

# :LOGic:THReshold:{PODA|PODB|PODC| PODD}:TYPE

Function Sets the type of threshold level of the specified pod

(port) or queries the current setting.

Syntax :LOGic:THReshold:{PODA|PODB|PODC|PODD}:

TYPE {CMOS1|CMOS2|CMOS3|CMOS5|ECL|USER}
:LOGic:THReshold:{PODA|PODB|PODC|PODD}:

TYPE?

Example :LOGIC:THRESHOLD:PODA:TYPE CMOS1

:LOGIC:THRESHOLD:PODA:TYPE? -> :LOGIC:

THRESHOLD: PODA: TYPE CMOS1

Description For the SB5310, only {PODA} is valid.

# :LOGic:THReshold:{PODA|PODB|PODC| PODD}:USERlevel

Function Sets the threshold level of the specified pod (port) or queries the current setting.

Syntax :LOGic:THReshold:{PODA|PODB|PODC|PODD}

:USERlevel {<Voltage>}

:LOGic:THReshold:{PODA|PODB|PODC|PODD}

:USERlevel?

<Voltage> = -10 to 10 V (in 0.1 V steps)

Example :LOGIC:THRESHOLD:PODA:USERLEVEL 1V

:LOGIC:THRESHOLD:PODA:USERLEVEL?

-> :LOGIC:THRESHOLD:PODA:

USERLEVEL 1.0E+00

Description For the SB5310, only {PODA} is valid.

# 5.19 MATH Group

#### :MATH<x>? Function Queries all settings related to the computation. Syntax :MATH<x>? Syntax < x > = 1 to 8Example :MATH1? -> :MATH1:SELECT MATH;DA: BFORMAT SBINARY; RESCALING: AVALUE 1.000000E+00; BVALUE 0.0000000E+00;:MATH1:DISPLAY 1; ECOUNT: HYSTERESIS 100.0E-03: POLARITY RISE;:MATH1:FILTER:DELAY: TIME 0.00000000000E+00;:MATH1:FILTER: IIR:FORDER 2;HIPASS:COFF 10.000000E+06;: Syntax MATH1: FILTER: IIR: LOWPASS: COFF 10.000000E+06;:MATH1:FILTER:MAVG: WEIGHT 2;:MATH1:FILTER:RESCALING: AVALUE 1.0000000E+00: BVALUE 0.0000000E+00;:MATH1:FILTER: TYPE THROUGH;:MATH1:I2T:UNIT: DEFINE "EU";: MATH1: INTEGRAL: PSCALING: Syntax AVALUE 1.0000000E+00; BVALUE 0.0000000E+00;:MATH1:INTEGRAL: RESCALING: AVALUE 1.0000000E+00; BVALUE 0.0000000E+00;:MATH1:INVERT 0; IPOINT:POSITION -5.000E+00;:MATH1: LABEL: DEFINE "Math1"; MODE 0; : MATH1: MINUS: PSCALING1: AVALUE 1.000000E+00; BVALUE 0.0000000E+00;:MATH1:MINUS: PSCALING2:AVALUE 1.0000000E+00; BVALUE 0.0000000E+00;:MATH1:MINUS: Syntax RESCALING: AVALUE 1.0000000E+00; BVALUE 0.0000000E+00::MATH1:MULTIPLE: PSCALING1:AVALUE 1.000000E+00; BVALUE 0.0000000E+00;:MATH1:MULTIPLE: PSCALING2:AVALUE 1.0000000E+00; BVALUE 0.0000000E+00;:MATH1:MULTIPLE: RESCALING: AVALUE 1.0000000E+00; Syntax BVALUE 0.0000000E+00;:MATH1: OPERATION DA, GROUP1; PLUS: PSCALING1: AVALUE 1.0000000E+00; BVALUE 0.0000000E+00;:MATH1:PLUS: PSCALING2:AVALUE 1.0000000E+00; BVALUE 0.0000000E+00;:MATH1:PLUS: RESCALING: AVALUE 1.0000000E+00; Syntax BVALUE 0.0000000E+00::MATH1: POSITION 0.000E+00;SBIT: Example :MATH1:DA:RESCALING? -> :MATH1:DA: BRATE 500000.... RESCALING: AVALUE 1.000E+00; BVALUE

```
:MATH<x>:DA?
Function Queries all settings related to the D/A conversion.
         :MATH<x>:DA?
         < x > = 1 to 4
Example :MATH1:DA?
         -> :MATH1:DA:BFORMAT SBINARY; RESCALING:
         AVALUE 1.000000E+00;
         BVALUE 0.000000E+00
:MATH<x>:DA:ARANging
Function Executes the auto range of the D/A conversion.
        :MATH<x>:DA:ARANging
         < x > = 1 to 4
Example : MATH1: DA: ARANGING
MATH<x>:DA:BFORmat
Function Sets the binary format of DA conversion or queries
         the current setting.
         :MATH<x>:DA:
         BFORmat{SBINary|TCOMplement}
         :MATH<x>:DA:BFORmat?
         < x > = 1 to 4
Example :MATH1:DA:BFORMAT SBINARY
         :MATH1:DA:BFORMAT? -> :MATH1:DA:
         BFORMAT SBINARY
:MATH<x>:DA:HISTory:ABORt
Function Aborts the history computation of the D/A conversion.
         :MATH<x>:DA:HISTory:ABORt
         < x > = 1 to 4
Example :MATH1:DA:HISTORY:ABORT
:MATH<x>:DA:HISTory:EXECute
Function Executes the auto range of the D/A conversion.
        :MATH<x>:DA:HISTory:EXECute
         < x > = 1 to 4
Example :MATH1:DA:HISTORY:EXECUTE
:MATH<x>:DA:RESCaling?
Function Queries all settings related to the rescaling of the D/A
         conversion.
         :MATH<x>:DA:RESCaling?
         < x > = 1 to 4
```

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1.000E+00

#### :MATH<x>:DA:RESCaling:AVALue

Function Sets rescaling coefficient A of the D/A conversion or

queries the current setting.

Syntax :MATH<x>:DA:RESCaling:AVALue {<NRf>}

:MATH<x>:DA:RESCaling:AVALue?

< x > = 1 to 4

<NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:DA:RESCALING:AVALUE 1

:MATH1:DA:RESCALING:AVALUE? -> :MATH1:

DA:RESCALING:AVALUE 1.000E+00

#### :MATH<x>:DA:RESCaling:BVALue

Function Sets rescaling offset B of the D/A conversion or

queries the current setting.

Syntax :MATH<x>:DA:RESCaling:BVALue {<NRf>}

:MATH<x>:DA:RESCaling:BVALue?

< x > = 1 to 4

<NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:DA:RESCALING:BVALUE 1

:MATH1:DA:RESCALING:BVALUE? -> :MATH1:

DA:RESCALING:BVALUE 1.000E+00

#### :MATH<x>:DISPlay

Function Turns ON/OFF the computed waveform or queries

the current setting.

Syntax :MATH<x>:DISPlay {<Boolean>}

:MATH<x>:DISPlay?

< x > = 1 to 8

Example :MATH1:DISPLAY ON

:MATH1:DISPLAY? -> :MATH1:DISPLAY 1

#### :MATH<x>:ECOunt?

Function Queries all settings related to the edge count

computation.

Syntax :MATH<x>:ECOunt?

< x > = 1 to 8

Example :MATH1:ECOUNT? -> :MATH1:ECOUNT:

HYSTERESIS 1.000E+00; POLARITY RISE

### :MATH<x>:ECOunt:HYSTeresis

Function Sets the hysteresis of the edge detection level of

the edge count computation or queries the current

setting.

Syntax :MATH<x>:ECOunt:HYSTeresis {<NRf>}

:MATH<x>:ECOunt:HYSTeresis?

< x > = 1 to 8

<NRf> = 0 to 4 (div)

Example :MATH1:ECOUNT:HYSTERESIS 1

:MATH1:ECOUNT:HYSTERESIS? -> :MATH1:

ECOUNT: HYSTERESIS 1.000E+00

#### :MATH<x>:ECOunt:POLarity

Function Sets the edge detection polarity of the edge count

computation or queries the current setting.

Syntax :MATH<x>:ECOunt:POLarity {FALL|RISE}

:MATH<x>:ECOunt:POLarity?

< x > = 1 to 8

Example :MATH1:ECOUNT:POLARITY RISE

:MATH1:ECOUNT:POLARITY? -> :MATH1:

ECOUNT: POLARITY RISE

#### :MATH<x>:FILTer?

Function Queries all settings related to the filter.

Syntax :MATH<x>:FILTer?

< x > = 1 to 8

| Example :MATH1:FILTER? -> :MATH1:FILTER:DELAY:

TIME 0.000E+00;:MATH1:FILTER:IIR:
FORDER 2;HIPASS:COFF 10.00E+06;:MATH1:
FILTER:IIR:LOWPASS:COFF 10.00E+06;:
MATH1:FILTER:MAVG:WEIGHT 2;:MATH1:
FILTER:RESCALING:AVALUE 1.000E+00;
BVALUE 0.000E+00;:MATH1:FILTER:

TYPE THROUGH

#### :MATH<x>:FILTer:DELay?

Function Queries all settings related to the delay computation.

Syntax :MATH<x>:FILTer:DELay?

< x > = 1 to 8

Example :MATH1:FILTER:DELAY? -> :MATH1:FILTER:

DELAY:TIME 0.000E+00

#### :MATH<x>:FILTer:DELay:TIME

Function Sets the delay value of the delay computation or

queries the current setting.

Syntax :MATH<x>:FILTer:DELay:TIME {<Time>}

:MATH<x>:FILTer:DELay:TIME?

< x > = 1 to 8

<Time> = See the SB5000 User's Manual.

Example :MATH1:FILTER:DELAY:TIME 1S

:MATH1:FILTER:DELAY:TIME? -> :MATH1:

FILTER:DELAY:TIME 1.000E+00

#### :MATH<x>:FILTer:IIR?

Function Queries all settings related to the IIR filter

computation.

Syntax :MATH<x>:FILTer:IIR?

< x > = 1 to 8

Example :MATH1:FILTER:IIR? -> :MATH1:FILTER:

IIR:FORDER 2;HIPASS:COFF 10.00E+06;:

MATH1:FILTER:IIR:LOWPASS:COFF 10.00E+00

# :MATH<x>:FILTer:IIR:FORDer

#### (Filter Order)

Function Sets the filter order of the IIR filter computation or queries the current setting.

Syntax :MATH<x>:FILTer:IIR:FORDer {<NRf>}

:MATH<x>:FILTer:IIR:FORDer?

< x > = 1 to 8< NRf > = 1 or 2

Example :MATH1:FILTER:IIR:FORDER 2

:MATH1:FILTER:IIR:FORDER? -> :MATH1:

FILTER: IIR: FORDER 2

#### :MATH<x>:FILTer:IIR:HIPass?

Function Queries all settings related to the IIR high pass filter computation

Syntax :MATH<x>:FILTer:IIR:HIPass?

< x > = 1 to 8

Example :MATH1:FILTER:IIR:HIPASS? -> :MATH1:

FILTER: IIR: HIPASS: COFF 10.00E+06

#### :MATH<x>:FILTer:IIR:HIPass:COFF

Function Sets the cutoff frequency of the IIR high pass filter computation or queries the current setting.

Syntax :MATH<x>:FILTer:IIR:HIPass:

COFF {<Frequency>}

:MATH<x>:FILTer:IIR:HIPass:COFF?

< x > = 1 to 8

<Frequency> = 0.01 to 1 G (Hz)

Example :MATH1:FILTER:IIR:HIPASS:COFF 10MHZ

:MATH1:FILTER:IIR:HIPASS:COFF?
-> :MATH1:FILTER:IIR:HIPASS:

COFF 10.00E+06

#### :MATH<x>:FILTer:IIR:LOWPass?

Function Queries all settings related to the IIR low pass filter computation.

Syntax :MATH<x>:FILTer:IIR:LOWPass?

< x > = 1 to 8

Example :MATH1:FILTER:IIR:LOWPASS? -> :MATH1:

FILTER:IIR:LOWPASS:COFF 10.00E+06

#### :MATH<x>:FILTer:IIR:LOWPass:COFF

Function Sets the cutoff frequency of the IIR low pass filter computation or queries the current setting.

 $\verb|Syntax| : \verb|MATH<| x> : \verb|FILTer:IIR:LOWPass:C| \\$ 

OFF {<Frequency>}

:MATH<x>:FILTer:IIR:LOWPass:COFF?

< x > = 1 to 8

<Frequency> = 0.01 to 1 G (Hz)

Example :MATH1:FILTER:IIR:LOWPASS:COFF 10HZ

:MATH1:FILTER:IIR:LOWPASS:COFF?
-> :MATH1:FILTER:IIR:LOWPASS:

COFF 10.00E+00

#### :MATH<x>:FILTer:MAVG?

Function Queries all settings related to the moving average computation.

Syntax : MATH<x>:FILTer:MAVG?

< x > = 1 to 8

Example :MATH1:FILTER:MAVG? -> :MATH1:FILTER:

MAVG:WEIGHT 2

#### :MATH<x>:FILTer:MAVG:WEIGht

Function Sets the weight of the moving average computation or queries the current setting.

Syntax :MATH<x>:FILTer:MAVG:WEIGht {<NRf>}

:MATH<x>:FILTer:MAVG:WEIGht?

< x > = 1 to 8

<NRf> = 2 to 128 (2n steps)

Example :MATH1:FILTER:MAVG:WEIGHT 2

:MATH1:FILTER:MAVG:WEIGHT? -> :MATH1:

FILTER: MAVG: WEIGHT 2

#### :MATH<x>:FILTer:RESCaling?

Function Queries all settings related to the rescaling of the

Syntax :MATH<x>:FILTer:RESCaling?

< x > = 1 to 8

Example :MATH1:FILTER:RESCALING? -> :MATH1:

FILTER:RESCALING:AVALUE 1.000E+00;

BVALUE 0.000E+00

#### :MATH<x>:FILTer:RESCaling:AVALue

Function Sets rescaling coefficient A of the filter or queries the current setting.

Syntax :MATH<x>:FILTer:RESCaling:

AVALue {<NRf>}

:MATH<x>:FILTer:RESCaling:AVALue?

< x > = 1 to 8

<NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:FILTER:RESCALING:AVALUE 1
:MATH1:FILTER:RESCALING:AVALUE?

-> :MATH1:FILTER:RESCALING:

AVALUE 1.000E+00

#### :MATH<x>:FILTer:RESCaling:BVALue

Function Sets rescaling offset B of the filter or queries the current setting.

Syntax :MATH<x>:FILTer:RESCaling:

BVALue {<NRf>}

:MATH<x>:FILTer:RESCaling:BVALue?

< x > = 1 to 8

<NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:FILTER:RESCALING:BVALUE 0

:MATH1:FILTER:RESCALING:BVALUE?

-> :MATH1:FILTER:RESCALING:

BVALUE 0.000E+00

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#### :MATH<x>:FILTer:TYPE

Function Sets the filter type or queries the current setting. Syntax  $:MATH<x>:FILTer:TYPE \{DELay | IHPass |$ 

ILPass | MAVG | THRough }
:MATH<x>:FILTer:TYPE?

< x > = 1 to 8

Example :MATH1:FILTER:TYPE DELAY

:MATH1:FILTER:TYPE? -> :MATH1:FILTER:

TYPE DELAY

#### :MATH<x>:INTegral?

Function Queries all settings related to the integral

computation.

Syntax :MATH<x>:INTegral?

< x > = 1 to 8

Example :MATH1:INTEGRAL? -> :MATH1:INTEGRAL:

PSCALING: AVALUE 1.000E+00;

BVALUE 0.000E+00;:MATH1:INTEGRAL:

RESCALING:AVALUE 1.000E+00;

BVALUE 0.000E+00

#### :MATH<x>:INTegral:PSCaling?

Function Queries all settings related to the pre-scaling of the

integral computation.

Syntax :MATH<x>:INTegral:PSCaling?

< x > = 1 to 8

Example :MATH1:INTEGRAL:PSCALING? -> :MATH1:

INTEGRAL:PSCALING:AVALUE 1.000E+00;

BVALUE 0.000E+00

#### :MATH<x>:INTegral:PSCaling:AVALue

Function Sets pre-scaling coefficient A of the integral

computation or queries the current setting.

Syntax :MATH<x>:INTegral:PSCaling:

AVALue { < NRf > }

:MATH<x>:INTegral:PSCaling:AVALue?

< x > = 1 to 8

<NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:INTEGRAL:PSCALING:AVALUE 1

:MATH1:INTEGRAL:PSCALING:AVALUE?
-> :MATH1:INTEGRAL:PSCALING:

AVALUE 1.000E+00

#### :MATH<x>:INTegral:PSCaling:BVALue

Function Sets pre-scaling offset B of the integral computation

or queries the current setting.

Syntax :MATH<x>:INTegral:PSCaling:

 ${\tt BVALue} \ \big\{ {\tt <NRf>} \big\}$ 

:MATH<x>:INTegral:PSCaling:BVALue?

< x > = 1 to 8

 $\langle NRf \rangle = -1.0000E + 31 \text{ to } 1.0000E + 31$ 

Example :MATH1:INTEGRAL:PSCALING:BVALUE 0

:MATH1:INTEGRAL:PSCALING:BVALUE?

-> :MATH1:INTEGRAL:PSCALING:

BVALUE 0.000E+00

#### :MATH<x>:INTegral:RESCaling?

Function Queries all settings related to the rescaling of the

integral computation.

Syntax :MATH<x>:INTegral:RESCaling?

< x > = 1 to 8

Example :MATH1:INTEGRAL:RESCALING? -> :MATH1:

INTEGRAL:RESCALING:AVALUE 1.000E+00;

BVALUE 0.000E+00

#### :MATH<x>:INTegral:RESCaling:AVALue

Function Sets rescaling coefficient A of the integral computation

or queries the current setting.

Syntax :MATH<x>:INTegral:RESCaling:

AVALue {<NRf>}

:MATH<x>:INTegral:RESCaling:AVALue?

< x > = 1 to 8

<NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:INTEGRAL:RESCALING:AVALUE 1

:MATH1:INTEGRAL:RESCALING:AVALUE?
-> :MATH1:INTEGRAL:RESCALING:

AVALUE 1.000E+00

#### :MATH<x>:INTegral:RESCaling:BVALue

Function Sets rescaling offset B of the integral computation or

queries the current setting.

Syntax :MATH<x>:INTegral:RESCaling:

BVALue { < NRf > }

:MATH<x>:INTegral:RESCaling:BVALue?

< x > = 1 to 8

<NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:INTEGRAL:RESCALING:BVALUE 0

:MATH1:INTEGRAL:RESCALING:BVALUE?

-> :MATH1:INTEGRAL:RESCALING:

BVALUE 0.000E+00

#### :MATH<x>:INVert

Function Turns ON/OFF the inverted display of the computed

waveform or queries the current setting.

Syntax :MATH<x>:INVert {<Boolean>}

:MATH<x>:INVert?

< x > = 1 to 8

Example :MATH1:INVERT ON

:MATH1:INVERT? -> :MATH1:INVERT 1

#### :MATH<x>:IPOint?

#### (Initial Point)

Function Queries all settings related to the computation

reference point.

Syntax :MATH<x>:IPOint?

< x > = 1 to 8

Example :MATH1:IPOINT? -> :MATH1:IPOINT:

POSITION 0.000E+00

#### :MATH<x>:IPOint:JUMP

Function Moves the computation reference point to the

specified position.

Z2}

< x > = 1 to 8

<NRf> = -5 or 0 (div)

Example :MATH1:IPOINT:JUMP TRIGGER

#### :MATH<x>:IPOint:POSition

Function Sets the computation reference point or queries the

current setting.

Syntax :MATH<x>:IPOint:POSition {<NRf>}

:MATH<x>:IPOint:POSition?

< x > = 1 to 8

 $\langle NRf \rangle = -5 \text{ to } 5 \text{ (div)}$ 

Example :MATH1:IPOINT:POSITION 0

:MATH1:IPOINT:POSITION? -> :MATH1:

IPOINT: POSITION 0.000E+00

 $\label{lem:matter} \mbox{Description This command is valid when :} \mbox{MATH-$<$x>:} \mbox{OPERation}$ 

INTegral.

#### :MATH<x>:LABel?

Function Queries all settings related to the label of the

computed waveform.

Syntax :MATH<x>:LABel?

< x > = 1 to 8

Example :MATH1:LABEL? -> :MATH1:LABEL:

DEFINE "MATH1"; MODE 0

#### :MATH<x>:LABel[:DEFine]

Function Sets the label of the computed waveform or queries

the current setting.

 $\verb|Syntax| : \verb|MATH<x>: LABel[:DEFine]| {<String>}|$ 

:MATH<x>:LABel[:DEFine]?

< x > = 1 to 8

<String> = Up to 8 characters

Example :MATH1:LABEL:DEFINE "MATH1"

:MATH1:LABEL:DEFINE? -> :MATH1:LABEL:

DEFINE "MATH1"

#### :MATH<x>:LABel:MODE

Function Turns ON/OFF the label display of the computed

waveform or queries the current setting.

Syntax :MATH<x>:LABel:MODE {<Boolean>}

:MATH<x>:LABel:MODE?

< x > = 1 to 8

#### :MATH<x>:MINus?

Function Queries all settings related to the subtraction.

Syntax :MATH<x>:MINus?

< x > = 1 to 8

Example :MATH1:MINUS? -> :MATH1:MINUS:

PSCALING1:AVALUE 1.000E+00; BVALUE 0.000E+00;:MATH1:MINUS: PSCALING2:AVALUE 1.000E+00; BVALUE 0.000E+00;:MATH1:MINUS:

RESCALING: AVALUE 1.000E+00;

BVALUE 0.000E+00+00

#### :MATH<x>:MINus:PSCaling<x>?

Function Queries all settings related to the pre-scaling of the

subtraction.

Syntax :MATH<x>:MINus:PSCaling<x>?

<x> of MATH<x> = 1 to 8
<x> of PSCaling<x> = 1 or 2

Example :MATH1:MINUS:PSCALING1? -> :MATH1:

MINUS: PSCALING1: AVALUE 1.000E+00;

BVALUE 0.000E+00

### :MATH<x>:MINus:PSCaling<x>:AVALue

Function Sets pre-scaling coefficient A of the subtraction or

queries the current setting.

Syntax :MATH<x>:MINus:PSCaling<x>:

AVALue {<NRf>}

:MATH<x>:MINus:PSCaling<x>:AVALue?

<x> of MATH<x> = 1 to 8 <x> of PSCaling<x> = 1 or 2

<NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:MINUS:PSCALING1:AVALUE 1

:MATH1:MINUS:PSCALING1:AVALUE?

-> :MATH1:MINUS:PSCALING1:

AVALUE 1.000E+00

#### :MATH<x>:MINus:PSCaling<x>:BVALue

Function Sets pre-scaling offset B of the subtraction or queries

the current setting.

Syntax :MATH<x>:MINus:PSCaling<x>:

BVALue { < NRf > }

:MATH<x>:MINus:PSCaling<x>:BVALue?

<x> of MATH<x> = 1 to 8

<x> of PSCaling<x> = 1 or 2

<NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:MINUS:PSCALING1:BVALUE 0

:MATH1:MINUS:PSCALING1:BVALUE?

-> :MATH1:MINUS:PSCALING1:

BVALUE 0.000E+00

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#### :MATH<x>:MINus:RESCaling?

Function Queries all settings related to the rescaling of the

subtraction.

Syntax :MATH<x>:MINus:RESCaling?

< x > = 1 to 8

Example :MATH1:MINUS:RESCALING? -> :MATH1:

MINUS:RESCALING:AVALUE 1.000E+00;

BVALUE 0.000E+00

#### :MATH<x>:MINus:RESCaling:AVALue

Function Sets rescaling coefficient A of the subtraction or

queries the current setting.

Syntax :MATH<x>:MINus:RESCaling:AVALue {<NRf>}

:MATH<x>:MINus:RESCaling:AVALue?

< x > = 1 to 8

<NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:MINUS:RESCALING:AVALUE 1

:MATH1:MINUS:RESCALING:AVALUE?
-> :MATH1:MINUS:RESCALING:

-> .MAINI.MINOS.KESCALING

AVALUE 1.000E+00

#### :MATH<x>:MINus:RESCaling:BVALue

Function Sets rescaling offset B of the subtraction or queries

the current setting.

Syntax :MATH<x>:MINus:RESCaling:BVALue {<NRf>}

:MATH<x>:MINus:RESCaling:BVALue?

< x > = 1 to 8

<NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:MINUS:RESCALING:BVALUE 0

:MATH1:MINUS:RESCALING:BVALUE?

-> :MATH1:MINUS:RESCALING:

BVALUE 0.000E+00

#### :MATH<x>:MULTiple?

Function Queries all settings related to the multiplication.

Syntax :MATH<x>:MULTiple?

< x > = 1 to 8

Example :MATH1:MULTIPLE? -> :MATH1:MULTIPLE:

PSCALING1:AVALUE 1.000E+00;

BVALUE 0.000E+00;:MATH1:MULTIPLE:

PSCALING2:AVALUE 1.000E+00;

BVALUE 0.000E+00;:MATH1:MULTIPLE:

RESCALING:AVALUE 1.000E+00;

BVALUE 0.000E+00

#### :MATH<x>:MULTiple:PSCaling<x>?

Function Queries all settings related to the pre-scaling of the

multiplication.

Syntax :MATH<x>:MULTiple:PSCaling<x>?

<x> of MATH<x> = 1 to 8

<x> of PSCaling<x> = 1 or 2

Example :MATH1:MULTIPLE:PSCALING1? -> :MATH1:

MULTIPLE: PSCALING1: AVALUE 1.000E+00;

BVALUE 0.000E+00

#### :MATH<x>:MULTiple:PSCaling<x>:AVALue

Function Sets pre-scaling coefficient A of the multiplication or

queries the current setting.

Syntax :MATH<x>:MULTiple:PSCaling<x>:

AVALue {<NRf>}

:MATH<x>:MULTiple:PSCaling<x>:AVALue?

<x> of MATH<x> = 1 to 8

<x> of PSCaling<x> = 1 or 2 <NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:MULTIPLE:PSCALING1:AVALUE 1

:MATH1:MULTIPLE:PSCALING1:AVALUE?

-> :MATH1:MULTIPLE:PSCALING1:

AVALUE 1.000E+00

#### :MATH<x>:MULTiple:PSCaling<x>:BVALue

Function Sets pre-scaling offset B of the multiplication or

queries the current setting.

Syntax :MATH<x>:MULTiple:PSCaling<x>:

BVALue {<NRf>}

:MATH<x>:MULTiple:PSCaling<x>:BVALue?

<x> of MATH<x> = 1 to 8 <x> of PSCaling<x> = 1 or 2

<NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:MULTIPLE:PSCALING1:BVALUE 0

:MATH1:MULTIPLE:PSCALING1:BVALUE?

-> :MATH1:MULTIPLE:PSCALING1:

BVALUE 0.000E+00

#### :MATH<x>:MULTiple:RESCaling?

Function Queries all settings related to the rescaling of the

multiplication.

Syntax :MATH<x>:MULTiple:RESCaling?

< x > = 1 to 8

Example :MATH1:MULTIPLE:RESCALING? -> :MATH1:

MULTIPLE: RESCALING: AVALUE 1.000E+00;

BVALUE 0.000E+00

#### :MATH<x>:MULTiple:RESCaling:AVALue

Function Sets rescaling coefficient A of the multiplication or

queries the current setting.

Syntax :MATH<x>:MULTiple:RESCaling:

AVALue {<NRf>}

:MATH<x>:MULTiple:RESCaling:AVALue?

< x > = 1 to 8

<NRf> = -1.0000F+31 to 1.0000F+31

Example :MATH1:MULTIPLE:RESCALING:AVALUE 1

:MATH1:MULTIPLE:RESCALING:AVALUE?

-> :MATH1:MULTIPLE:RESCALING:

AVALUE 1.000E+00

#### :MATH<x>:MULTiple:RESCaling:BVALue

Function Sets rescaling offset B of the multiplication or queries

the current setting.

Syntax :MATH<x>:MULTiple:RESCaling:

BVALue { < NRf > }

:MATH<x>:MULTiple:RESCaling:BVALue?

< x > = 1 to 8

<NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:MULTIPLE:RESCALING:BVALUE 0

:MATH1:MULTIPLE:RESCALING:BVALUE?

-> :MATH1:MULTIPLE:RESCALING:

BVALUE 0.000E+00

#### :MATH<x>:OPERation

Function Sets the operator or queries the current setting.

Syntax :MATH<x>:OPERation { (DA | ECOunt | FILTer | INTegral | MINus | MULTiple | PLUS | RCOunt |

USERdefine), (<NRf>|GROup<x>), <NRf>}

:MATH<x>:OPERation?

 $MATH < x > = 1 \text{ to } 8 (< x > = 1 \text{ to } 4 \text{ if } \{DA|USERdefine}\}$ 

is selected)

 $GROup < x > = 1 \text{ to } 5 (\{GROup < x > \} \text{ is valid only when})$ 

the operator is DA)

< NRf > = 1 to 4

Example :MATH1:OPERATION FILTER,1

:MATH1:OPERATION? -> :MATH1:

OPERATION FILTER, 1

 ${\tt DescriptionFor\ unary\ operators\ \ (ECOunt|FILTer|INTegral),\ select}$ 

the target waveform using the first <NRf>.

For binary operators (MINus|MULTiple|PLUS|RCOu

nt), select the target waveform of the first term using the first <NRf> and the target waveform of the second

term using the second <NRf>.

Select GROup<x> in the case of the DA operator.

<NRf> is not required for the USERdefine operator.

#### :MATH<x>:PLUS?

Function Queries all settings related to the addition.

Syntax :MATH<x>:PLUS?

< x > = 1 to 8

Example :MATH1:PLUS? -> :MATH1:PLUS:

PSCALING1:AVALUE 1.000E+00;

BVALUE 0.000E+00;:MATH1:PLUS:PSCALING2:

AVALUE 1.000E+00; BVALUE 0.000E+00;:

MATH1:PLUS:RESCALING:AVALUE 1.000E+00;

BVALUE 0.000E+00

#### :MATH<x>:PLUS:PSCaling<x>?

Function Queries all settings related to the pre-scaling of the

addition.

Syntax :MATH<x>:PLUS:PSCaling<x>?

<x> of MATH<x> = 1 to 8

<x> of PSCaling<x> = 1 or 2

Example :MATH1:PLUS:PSCALING1? -> :MATH1:PLUS:

PSCALING1: AVALUE 1.000E+00;

BVALUE 0.000E+00

#### :MATH<x>:PLUS:PSCaling<x>:AVALue

Function Sets pre-scaling coefficient A of the addition or

queries the current setting.

Syntax :MATH<x>:PLUS:PSCaling<x>:

AVALue { < NRf > }

:MATH<x>:PLUS:PSCaling<x>:AVALue?

<x> of MATH<x> = 1 to 8

<x> of PSCaling<x> = 1 or 2

<NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:PLUS:PSCALING1:AVALUE 1

:MATH1:PLUS:PSCALING1:AVALUE?

-> :MATH1:PLUS:PSCALING1:

AVALUE 1.000E+00

#### :MATH<x>:PLUS:PSCaling<x>:BVALue

Function Sets pre-scaling offset B of the addition or queries the

current setting.

Syntax :MATH<x>:PLUS:PSCaling<x>:

BVALue { < NRf > }

:MATH<x>:PLUS:PSCaling<x>:BVALue?

<x> of MATH<x> = 1 to 8

<x> of PSCaling<x> = 1 or 2

<NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:PLUS:PSCALING1:BVALUE 0

:MATH1:PLUS:PSCALING1:BVALUE?

-> :MATH1:PLUS:PSCALING1: BVALUE 0.000E+00

### :MATH<x>:PLUS:RESCaling?

Function Queries all settings related to the rescaling of the

addition

Syntax :MATH<x>:PLUS:RESCaling?

< x > = 1 to 8

Example :MATH1:PLUS:RESCALING? -> :MATH1:PLUS:

RESCALING: AVALUE 1.000E+00;

BVALUE 0.000E+00

### :MATH<x>:PLUS:RESCaling:AVALue

Function Sets rescaling coefficient A of the addition or queries

the current setting.

Syntax :MATH<x>:PLUS:RESCaling:AVALue {<NRf>}

:MATH<x>:PLUS:RESCaling:AVALue?

< x > = 1 to 8

<NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:PLUS:RESCALING:AVALUE 1

:MATH1:PLUS:RESCALING:AVALUE?

-> :MATH1:PLUS:RESCALING:

AVALUE 1.000E+00

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#### :MATH<x>:PLUS:RESCaling:BVALue

Function Sets rescaling offset B of the addition or queries the

current setting.

 $\verb|Syntax| : \verb|MATH<x>: \verb|PLUS:RESCaling:BVALue| { < \verb|NRf>|}$ 

:MATH<x>:PLUS:RESCaling:BVALue?

< x > = 1 to 8

<NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:PLUS:RESCALING:BVALUE 0

:MATH1:PLUS:RESCALING:BVALUE?

-> :MATH1:PLUS:RESCALING:

BVALUE 0.000E+00

#### :MATH<x>:POSition

Function Sets the vertical position of the computed waveform

or queries the current setting.

Syntax :MATH<x>:POSition {<NRf>}

:MATH<x>:POSition?

< x > = 1 to 8

<NRf> = -4 to 4 (div)

Example :MATH1:POSITION 0

:MATH1:POSITION? -> :MATH1:

POSITION 0.000E+00

#### :MATH<x>:SBIT?

Function Queries all settings related to the stuff bit

computation.

Syntax :MATH<x>:SBIT?

< x > = 1 to 4

Example :MATH1:SBIT?

-> :MATH1:SBIT:BRATE 1000000;

HYSTERESIS 600.000E-03;

LEVEL 0.0000000E+00; RECESSIVE HIGH

#### :MATH<x>:SBIT:BRATe

Function Sets the bit rate (data transfer rate) of the stuff bit

computation or queries the current setting.

 $\verb|Syntax| : \verb|MATH<| x> : \verb|SBIT:| BRATe | {<| NRf>| USER, <| NRf>|}$ 

:MATH<x>:SBIT:BRATe?

< x > = 1 to 4

<NRf> = 83300, 125000, 250000, 500000, 1000000

<NRf> of USER = See the User's Manual (IM701361-

01E).

Example :MATH1:SBIT:BRATE 83300

:MATH1:SBIT:BRATE?

-> :MATH1:SBIT:BRATE 83300

#### :MATH<x>:SBIT:HISTory:ABORt

Function Cancels history computation for stuff bit computation.

Syntax :MATH<x>:SBIT:HISTory:ABORt

<x>=1-4

Example :MATH1:SBIT:HISTORY:ABORT

#### :MATH<x>:SBIT:HISTory:EXECute

Function Executes history computation for stuff bit computation.

Syntax :MATH<x>:SBIT:HISTory:EXECute

< x > = 1-4

Example :MATH1:SBIT:HISTORY:EXECUTE

#### :MATH<x>:SBIT:HYSTeresis

Function Sets the hysteresis of the stuff bit computation or

queries the current setting.

Syntax :MATH<x>:SBIT:HYSTeresis {<NRf>}

:MATH<x>:SBIT:HYSTeresis?

< x > = 1 to 4

<NRf> = 0 to 4(div)

Example :MATH1:SBIT:HYSTERESIS 1

:MATH1:SBIT:HYSTERESIS?

-> :MATH1:SBIT:HYSTERESIS 1.00000E+00

#### :MATH<x>:SBIT:LEVel

Function Sets the threshold level of the stuff bit computation or

queries the current setting.

 $\verb|Syntax| : \verb|MATH<x>: \verb|SBIT: LEVel| { < \verb|NRf>| < \verb|Voltage>| }$ 

<Current>}

:MATH<x>:SBIT:LEVel?

< x > = 1 to 4

<NRf>, <Voltage>, and <Current> = See the User's

Manual (IM701361-01E).

Example :MATH1:SBIT:LEVEL 1

:MATH1:SBIT:LEVEL?

-> :MATH1:SBIT:LEVEL 1.000000E+00

#### :MATH<x>:SBIT:RECessive

Function Sets the recessive level (bus level) of the stuff bit computation or queries the current setting.

Syntax :MATH<x>:SBIT:RECessive {HIGH|LOW}

:MATH<x>:SBIT:RECessive?

< x > = 1 to 4

Example :MATH1:SBIT:RECESSIVE HIGH

:MATH1:SBIT:RECESSIVE?

-> :MATH1:SBIT:RECESSIVE HIGH

#### :MATH<x>:SBIT:SPOint

Function Sets the sample point of the stuff bit computation or

queries the current setting.

Syntax :MATH<x>:SBIT:SPOint {<NRf>}

:MATH<x>:SBIT:SPOint?

< x > = 1 to 4

<NRf> = 18.8 to 90.6(%)

Example :MATH1:SBIT:SPOINT 18.8

:MATH1:SBIT:SPOINT?

-> :MATH1:SBIT:SPOINT 18.8E+00

#### :MATH<x>:SCALe?

Function Queries all settings related to scaling.

Syntax :MATH<x>:SCALe?

< x > = 1 to 8

Example :MATH1:SCALE? -> :MATH1:SCALE:

CENTER 1.000E+00; MODE AUTO;

SENSITIVITY 1.000E+00

#### :MATH<x>:SCALe:CENTer

Function Sets the offset of the computed waveform or queries

the current setting.

Syntax :MATH<x>:SCALe:CENTer {<NRf>|<Voltage>|

<Current>}

:MATH<x>:SCALe:CENTer?

< x > = 1 to 8

<NRf>, <Voltage>, and <Current> = See the SB5000

User's Manual.

Example :MATH1:SCALE:CENTER 1

:MATH1:SCALE:CENTER? -> :MATH1:SCALE:

CENTER 1.000E+00

#### :MATH<x>:SCALe:MODE

Function Sets the scaling mode or queries the current setting.

Syntax :MATH<x>:SCALe:MODE {AUTO|MANual}

:MATH<x>:SCALe:MODE?

< x > = 1 to 8

Example :MATH1:SCALE:MODE AUTO

:MATH1:SCALE:MODE? -> :MATH1:SCALE:

MODE AUTO

#### :MATH<x>:SCALe:SENSitivity

Function Sets the vertical sensitivity of the computed waveform

or queries the current setting.

Syntax :MATH<x>:SCALe:SENSitivity {<NRf>|

<Voltage>|<Current>}

:MATH<x>:SCALe:SENSitivity?

< x > = 1 to 8

<NRf>, <Voltage>, and <Current> = See the SB5000

User's Manual.

Example :MATH1:SCALE:SENSITIVITY 1

:MATH1:SCALE:SENSITIVITY? -> :MATH1:

SCALE:SENSITIVITY 1.000E+00

#### :MATH<x>:SELect

Function Sets the display option or queries the current setting.

Syntax :MATH<x>:SELect {INPut|MATH|REFerence}

:MATH<x>:SELect?

< x > = 1 to 8

Example :MATH1:SELECT INPUT

:MATH1:SELECT? -> :MATH1:SELECT INPUT

### :MATH<x>:SVALue (Scale VALUE)

Function Turns ON/OFF the scale value display or queries the

current setting.

Syntax :MATH<x>:SVALue {<Boolean>}

:MATH<x>:SVALue?

< x > = 1 to 8

Example :MATH1:SVALUE ON

:MATH1:SVALUE? -> MATH1:SVALUE 1

#### :MATH<x>:THReshold<x>

Function Sets the edge detection level of the count

computation or queries the current setting.

Syntax :MATH<x>:THReshold<x> {<NRf>|

<Voltage>|<Current>}

:MATH<x>:THReshold<x>?

<x> of MATH<x> = 1 to 8

<x> of THReshold<x> = 1 or 2

<NRf>, <Voltage>, and <Current> = See the SB5000

User's Manual.

Example :MATH1:THRESHOLD1 1

:MATH1:THRESHOLD1? -> :MATH1:

THRESHOLD1 1.000E+00

Description THReshold2 is valid when the operation is {RCOunt}.

#### :MATH<x>:UNIT?

Function Queries all settings related to the computation unit.

Syntax :MATH<x>:UNIT?

< x > = 1 to 8

Example :MATH1:UNIT? -> :MATH1:UNIT:

DEFINE "EU"; MODE AUTO

#### :MATH<x>:UNIT[:DEFine]

Function Sets the computation unit or queries the current

setting.

Syntax :MATH<x>:UNIT[:DEFine] {<String>}

:MATH<x>:UNIT[:DEFine]?

< x > = 1 to 8

<String> = Up to 4 characters

Example :MATH1:UNIT:DEFINE "EU"

:MATH1:UNIT:DEFINE? -> :MATH1:UNIT:

DEFINE "EU"

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#### :MATH<x>:UNIT:MODE

Function Sets the automatic/manual addition of the

computation unit or queries the current setting.

Syntax :MATH<x>:UNIT:MODE {AUTO|USERdefine}

:MATH<x>:UNIT:MODE?

< x > = 1 to 8

Example :MATH1:UNIT:MODE AUTO

:MATH1:UNIT:MODE? -> :MATH1:UNIT:

MODE AUTO

#### :MATH<x>:USERdefine?

Function Queries all settings related to user-defined math or

queries the current setting.

Syntax :MATH<x>:USERdefine?

< x > = 1 to 4

Example :MATH1:USERDEFINE? -> :MATH1:

USERDEFINE: CONSTANT1 1.000E+00;

CONSTANT2 1.000E+00;
CONSTANT3 1.000E+00;

CONSTANT4 1.000E+00; DEFINE "C1-C2"

#### :MATH<x>:USERdefine:ARANging

Function Executes auto ranging for user-defined math.

Syntax : MATH<x>: USERdefine: ARANging

< x > = 1 to 4

Example : MATH1: USERDEFINE: ARANGING

#### :MATH<x>:USERdefine:CONStant<x>

Function Sets a user-defined math constant or queries the

current setting.

 $\verb|Syntax| : \verb|MATH<x>: \verb|USERdefine: CONStant<x>| < \verb|NRf>| \\$ 

:MATH<x>:USERdefine:CONStant<x>?

MATH<x>: <x> = 1 to 4 CONStant<x>: <x> = 1 to 4

<NRf> = -1.0000E+31 to 1.0000E+31

Example :MATH1:USERDEFINE:CONSTANT1 1

:MATH1:USERDEFINE:CONSTANT1? -> :MATH1:

USERDEFINE: CONSTANT1 1.000E+00

#### :MATH<x>:USERdefine:DEFine

Function Sets a user-defined math equation or queries the

current setting.

Syntax :MATH<x>:USERdefine:DEFine {<string>}

:MATH<x>:USERdefine:DEFine?

< x > = 1 to 4

<string> = 128 characters or less

Example :MATH1:USERDEFINE:DEFINE "C1-C2"

:MATH1:USERDEFINE:DEFINE? ->: MATH1:

USERDEFINE: DEFINE "C1-C2"

Description Characters and symbols other than those on the

keyboard displayed on the main unit screen cannot

be used.

See the main unit user's manual for details about

equations.

### :MATH<x>:USERdefine:HISTory:ABORt

Function Cancels history computation for user-defined math.

Syntax :MATH<x>:USERdefine:HISTory:ABORt

< x > = 1 to 4

Example :MATH1:USERDEFINE:HISTORY:ABORT

#### :MATH<x>:USERdefine:HISTory:EXECute

Function Executes history computation for user-defined math.

Syntax :MATH<x>:USERdefine:HISTory:EXECute

< x > = 1 to 4

Example :MATH1:USERDEFINE:HISTORY:EXECUTE

# 5.20 MEASure Group

#### :MEASure?

Function Queries all settings related to the automated measurement of waveform parameters.

Syntax :MEASure?

Example :MEASURE? -> :MEASURE:BIT1:AREA1:COUNT:

STATE 0;:MEASURE:BIT1:AREA1:DELAY: MEASURE: COUNT 1; POLARITY RISE; : MEASURE:

BIT1:AREA1:DELAY:REFERENCE:COUNT 1;

POLARITY RISE; TRACE A0; : MEASURE: BIT1: AREA1:DELAY:SOURCE TRIGGER;STATE 0;:

MEASURE:BIT1:AREA1:DT:STATE 0;:MEASURE:

BIT1:AREA1:DUTYCYCLE:STATE 0;:MEASURE:

BIT1:AREA1:FREQUENCY:STATE 0;:MEASURE:

BIT1:AREA1:NWIDTH:STATE 0;:MEASURE:

BIT1:AREA1:PERFREQUENCY:STATE 0;:

MEASURE:BIT1:AREA1:PERIOD:STATE 0;:

MEASURE:BIT1:AREA1:PWIDTH:STATE 0;:

MEASURE:BIT1:AREA2:COUNT:STATE 0;:

MEASURE: BIT1: AREA2: DELAY: MEASURE:

COUNT 1; POLARITY RISE; : MEASURE: BIT1:

AREA2:DELAY:REFERENCE:COUNT 1;

POLARITY RISE; TRACE A0; : MEASURE: BIT1:

AREA2: DELAY: SOURCE TRIGGER; STATE 0;:

MEASURE:BIT1:AREA2:DT:STATE 0;:MEASURE:

BIT1:AREA2:DUTYCYCLE:STATE 0;:MEASURE:

BIT1:AREA2:FREQUENCY:STATE 0;:MEASURE:

BIT1:AREA2:NWIDTH:STATE 0;:MEASURE:

BIT1:AREA2:PERFREQUENCY:STATE 0;:

MEASURE:BIT1:AREA2:PERIOD:STATE 0;:

MEASURE:BIT1:AREA2:PWIDTH:STATE 0;:

MEASURE:BIT2:AREA1:COUNT:STATE 0;:

MEASURE: BIT2: AREA1: DELAY: MEASURE:

COUNT 1; POLARITY RISE; : MEASURE: BIT2:

AREA1: DELAY: REFERENCE: COUNT 1:

POLARITY RISE; TRACE A0; : MEASURE: BIT2:

AREA1: DELAY: SOURCE TRIGGER; STATE 0;:

MEASURE:BIT2:AREA1:DT:STATE 0;:MEASURE:

BIT2:AREA1:DUTYCYCLE:STATE 0;:MEASURE:

BIT2:AREA1:FREQUENCY:STATE 0;:MEASURE: BIT2:AREA1:NWIDTH:STATE 0....

:MEASure:BIT<x>?

Function Queries all settings related to each logic bit.

Syntax :MEASure:BIT<x>?

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.)

Example :MEASURE:BIT1?

-> :MEASURE:BIT1:AREA1:COUNT:STATE 0;:

MEASURE:BIT1:AREA1:DELAY:MEASURE:

COUNT 1; POLARITY RISE; : MEASURE: BIT1:

AREA1:DELAY:REFERENCE:COUNT 1;

POLARITY RISE; TRACE A0; : MEASURE: BIT1:

AREA1:DELAY:SOURCE TRACE;STATE 0;:

MEASURE:BIT1:AREA1:DT:STATE 0;:

MEASURE:BIT1:AREA1:DUTYCYCLE:STATE 0;:

MEASURE:BIT1:AREA1:FREQUENCY:STATE 0;:

MEASURE:BIT1:AREA1:NWIDTH:STATE 0;:

MEASURE:BIT1:AREA1:PERFREQUENCY:

STATE 0;:MEASURE:BIT1:AREA1:PERIOD:

STATE 0;:MEASURE:BIT1:AREA1:PWIDTH:

STATE 0;:MEASURE:BIT1:AREA2:COUNT:

STATE 0;:MEASURE:BIT1:AREA2:DELAY:

MEASURE: COUNT 1; POLARITY RISE;:

MEASURE:BIT1:AREA2:DELAY:REFERENCE:

COUNT 1; POLARITY RISE; TRACE A0;:

MEASURE:BIT1:AREA2:DELAY:SOURCE TRACE;

STATE 0;:MEASURE:BIT1:AREA2:DUTYCYCLE:

STATE 0;:MEASURE:BIT1:AREA2:FREQUENCY:

STATE 0;:MEASURE:BIT1:AREA2:NWIDTH: STATE 0;:MEASURE:BIT1:AREA2:

PERFREQUENCY:STATE 0;:MEASURE:BIT1:

AREA2:PERIOD:STATE 0;:MEASURE:BIT1:

AREA2:PWIDTH:STATE 0

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#### :MEASure:BIT<x>:AREA<x>?

Function Queries all settings related to each area.

Syntax : MEASure:BIT<x>:AREA<x>?

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.)

<x> of AREA<x> = 1 or 2

Example :MEASURE:BIT1:AREA1?

-> :MEASURE:BIT1:AREA1:COUNT:STATE 0;:
MEASURE:BIT1:AREA1:DELAY:MEASURE:

COUNT 1; POLARITY RISE; : MEASURE: BIT1:

AREA1: DELAY: REFERENCE: COUNT 1;

POLARITY RISE; TRACE A0; : MEASURE: BIT1:

AREA1:DELAY:SOURCE TRACE;STATE 0;:

MEASURE:BIT1:AREA1:DT:STATE 0;:

MEASURE:BIT1:AREA1:DUTYCYCLE:STATE 0;:

MEASURE:BIT1:AREA1:FREQUENCY:STATE 0;:
MEASURE:BIT1:AREA1:NWIDTH:STATE 0;:

MEASURE:BIT1:AREA1:PERFREQUENCY:

STATE 0;:MEASURE:BIT1:AREA1:PERIOD:
STATE 0;:MEASURE:BIT1:AREA1:PWIDTH:

STATE 0

#### :MEASure:BIT<x>:AREA<x>:ALL

Function Turns ON/OFF all logic waveform parameters.

Syntax :MEASure:BIT<x>:AREA<x>:ALL {<Boolean>}

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.)

<x> of AREA<x> = 1 or 2

Example :MEASURE:BIT1:AREA1:ALL ON

#### :MEASure:BIT<x>:AREA<x>:<parameter>?

Function Queries all settings related to logic waveform

parameters.

Syntax :MEASure:BIT<x>:AREA<x>:<parameter>?

<x> of BIT<x> = 1 to 32 (with the SB5310, only <x> =

1 to 8 is valid.)

<x> of AREA<x> = 1 or 2

<parameter>={COUNt|DELay|DT|DUTYcycle|
FREQuency|NWIDth|PERFrequency|PERiod|

PWIDth)

Example (The following is an example of the count with bit 1

area 1.)

:MEASURE:BIT1:AREA1:COUNT?

-> :MEASURE:BIT1:AREA1:COUNT:STATE 0

# :MEASure:BIT<x>:AREA<x>:<parameter>:

COUNt?

Function Queries the count for continuous statistical processing

of logic waveform parameters.

Syntax :MEASure:BIT<x>:AREA<x>:<parameter>:

COUNt?

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.)

<x> of AREA<x> = 1 or 2

<parameter>={COUNt|DELay|DT|DUTYcycle|
FREQuency|NWIDth|PERFrequency|PERiod|

PWIDth)

Example (The following is an example of the count with bit 1

area 1.)

:MEASURE:BIT1:AREA1:COUNT:COUNT?
-> :MEASURE:BIT1:AREA1:COUNT:COUNT 0

# :MEASure:BIT<x>:AREA<x>:<parameter>: {MAXimum | MEAN | MINimum | SDEViation}?

Function Queries each statistical value of logic waveform parameters.

Syntax :MEASure:BIT<x>:AREA<x>:<parameter>:

MAXimum?

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.)

<x> of AREA<x> = 1 or 2

PWIDth)

Example (The following is an example of the count with bit 1

area 1.)

:MEASURE:BIT1:AREA1:COUNT:MAXIMUM?

-> :MEASURE:BIT1:AREA1:COUNT:MAXIMUM 0

# :MEASure:BIT<x>:AREA<x>:<parameter>: STATe

Function Turns ON/OFF the logic waveform parameters or queries the current setting.

Syntax :MEASure:BIT<x>:AREA<x>:<parameter>:

STATe {<Boolean>}

:MEASure:BIT<x>:AREA<x>:<parameter>:

STATe?

<x> of BIT<x> = 1 to 32(with the SB5310 only <x> =

1 to 8 is valid.)

<x> of AREA<x> = 1 or 2

<parameter>={COUNt|DELay|DT|DUTYcycle|
FREQuency|NWIDth|PERFrequency|PERiod|
DMDDU

PWIDth

Example (The following is an example of the count with bit 1

area 1.)

:MEASURE:BIT1:AREA1:COUNT:STATE ON
:MEASURE:BIT1:AREA1:COUNT:STATE?
-> :MEASURE:BIT1:AREA1:COUNT:STATE 1

# :MEASure:BIT<x>:AREA<x>:<parameter>: VALue?

Function Queries automatically measured values of logic waveform parameters.

Syntax :MEASure:BIT<x>:AREA<x>:<parameter>:

VALue? {<NRf>}

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.)

<x> of AREA<x> = 1 or 2

<parameter>={COUNt|DELay|DT|DUTYcycle|
FREQuency|NWIDth|PERFrequency|PERiod|

PWIDth)

<NRf> = 1 to 100000

Example (The following is an example of the count with bit 1

:MEASURE:BIT1:AREA1:COUNT:VALUE?

-> :MEASURE:BIT1:AREA1:COUNT:VALUE 0

Description • If measurement cannot be performed, NAN (Not A Number) is returned.

<NRf> indicates the n'th automated measured value in the past. For cycle statistics, specify the <NRf>'th cycle from the left of the screen. To specify the oldest automated measured value, specify 1. If <NRf> is omitted, the most recent automated measured value is specified. If the value corresponding to the relevant count is not present, NAN (Not A Number) is returned.

#### :MEASure:BIT<x>:AREA<x>:DELay:MEASure?

Function Queries all settings related to the measurement conditions for the source waveform of delay measurement between channels.

Syntax :MEASure:BIT<x>:AREA<x>:DELay:MEASure?
<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.) <x> of AREA<x> = 1 or 2

Example :MEASURE:BIT1:AREA1:DELAY:MEASURE?

-> :MEASURE:BIT1:AREA1:DELAY:MEASURE:

COUNT 1; POLARITY RISE

### :MEASure:BIT<x>:AREA<x>:DELay:MEASure: COUNt

Function Sets the edge detection count for the source waveform of delay measurement between channels or queries the current setting.

Syntax :MEASure:BIT<x>:AREA<x>:DELay:MEASure:

COUNt {<NRf>}

:MEASure:BIT<x>:AREA<x>:DELay:MEASure:

COUNt?

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.)

<x> of AREA<x> = 1 or 2

<NRf> = 1 to 10

Example :MEASURE:BIT1:AREA1:DELAY:MEASURE:

COUNT 1

:MEASURE:BIT1:AREA1:DELAY:MEASURE:

COUNT?

-> :MEASURE:BIT1:AREA1:DELAY:MEASURE:

COUNT 1

### :MEASure:BIT<x>:AREA<x>:DELay:MEASure: POLarity

Function Sets the polarity of the source waveform of delay measurement between channels or queries the current setting.

Syntax :MEASure:BIT<x>:AREA<x>:DELay:MEASure:

 ${\tt POLarity} \ \{{\tt FALL} | {\tt RISE}\}$ 

:MEASure:BIT<x>:AREA<x>:DELay:MEASure:

POLarity?

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.)

<x> of AREA<x> = 1 or 2

Example :MEASURE:BIT1:AREA1:DELAY:MEASURE:

POLARITY FALL

:MEASURE:BIT1:AREA1:DELAY:MEASURE:

POLARITY?

-> :MEASURE:BIT1:AREA1:DELAY:MEASURE:

POLARITY FALL

#### :MEASure:BIT<x>:AREA<x>:DELay:

#### REFerence?

Function Queries all settings related to the reference waveform of delay measurement between channels.

Syntax :MEASure:BIT<x>:AREA<x>:DELay:

REFerence?

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.)

<x> of AREA<x> = 1 or 2

Example :MEASURE:BIT1:AREA1:DELAY:REFERENCE?

-> : MEASURE:BIT1:AREA1:DELAY: REFERENCE:COUNT 1; POLARITY RISE;

TRACE A0

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#### :MEASure:BIT<x>:AREA<x>:DELay:

#### REFerence: COUNt

Function Sets the edge detection count for the reference

waveform of delay measurement between channels

or queries the current setting.

Syntax :MEASure:BIT<x>:AREA<x>:DELay:

REFerence:COUNt {<NRf>}

:MEASure:BIT<x>:AREA<x>:DELay:

REFerence: COUNt?

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.)

<x> of AREA<x> = 1 or 2

< NRf > = 1 to 10

Example :MEASURE:BIT1:AREA1:DELAY:REFERENCE:

COUNT 1

:MEASURE:BIT1:AREA1:DELAY:REFERENCE:

COUNT?

-> :MEASURE:BIT1:AREA1:DELAY:

REFERENCE: COUNT 1

#### :MEASure:BIT<x>:AREA<x>:DELay:

#### REFerence: POLarity

Function Sets the polarity of the reference waveform of delay

measurement between channels or queries the

current setting.

Syntax :MEASure:BIT<x>:AREA<x>:DELay:

REFerence:POLarity {FALL|RISE}
:MEASure:BIT<x>:AREA<x>:DELay:

REFerence: POLarity?

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.)

<x> of AREA<x> = 1 or 2

Example :MEASURE:BIT1:AREA1:DELAY:REFERENCE:

POLARITY FALL

:MEASURE:BIT1:AREA1:DELAY:REFERENCE:

POLARITY?

-> :MEASURE:BIT1:AREA1:DELAY:REFERENCE:

POLARITY FALL

#### :MEASure:BIT<x>:AREA<x>:DELay:

#### REFerence: TRACe

Function Sets the trace for the reference waveform of delay

measurement between channels or queries the

current setting.

Syntax :MEASure:BIT<x>:AREA<x>:DELay:

REFerence:TRACe {<NRf>|A<y>|B<y>|C<y>|

D < y >

:MEASure:BIT<x>:AREA<x>:DELay:

REFerence: TRACe?

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.)

<x> of AREA<x> = 1 or 2

<NRf> = 1 to 8 <v> = 0 to 7

Example :MEASURE:BIT1:AREA1:DELAY:REFERENCE:

TRACE 1

:MEASURE:BIT1:AREA1:DELAY:REFERENCE:

TRACE?

-> :MEASURE:BIT1:AREA1:DELAY:

REFERENCE: TRACE 1

Description For the SB5310, only {<NRf>|A<y>} are valid.

#### :MEASure:BIT<x>:AREA<x>:DELay:SOURce

Function Sets the reference of delay measurement between channels or queries the current setting.

Syntax :MEASure:BIT<x>:AREA<x>:DELay:

SOURce {TRACe|TRIGger}

:MEASure:BIT<x>:AREA<x>:DELay:SOURce?

<x> of BIT<x> = 1 to 32 (with the SB5310 only <x> =

1 to 8 is valid.)

<x> of AREA<x> = 1 or 2

Example :MEASURE:BIT1:AREA1:DELAY:SOURCE TRACE

:MEASURE:BIT1:AREA1:DELAY:SOURCE?
-> :MEASURE:BIT1:AREA1:DELAY:

SOURCE TRACE

#### :MEASure:CALCulation?

Function Queries all settings related to calculation items.

Syntax :MEASure:CALCulation?

DEFINE2 "MIN(C2)"; DEFINE3 "HIGH(C3)";

DEFINE2 MIN(C2), DEFINES MIGH(CS),
DEFINE4 "LOW(C4)"; STATE1 0; STATE2 0;

STATE3 0;STATE4 0

#### :MEASure:CALCulation:ALL

Function Turns ON/OFF all calculation items.

Syntax :MEASure:CALCulation:ALL {<Boolean>}

Example : MEASURE: CALCULATION: ALL ON

#### :MEASure:CALCulation:COUNt<x>?

Function Queries the statistical processing count of the

calculation item.

Syntax :MEASure:CALCulation:COUNt<x>?

< x > = 1 to 4

Example :MEASURE:CALCULATION:COUNT1?

-> :MEASURE:CALCULATION:COUNT1 1

#### :MEASure:CALCulation:DEFine<x>

Function Sets the equation of the calculation item or queries

the current setting.

Syntax : MEASure: CALCulation: DEFine<x>

{<String>}

:MEASure:CALCulation:DEFine<x>?

< x > = 1 to 4

<String> = Up to 128 characters

Example :MEASURE:CALCULATION:DEFINE1 "MAX(C1)"

:MEASURE:CALCULATION:DEFINE1?
-> :MEASURE:CALCULATION:

DEFINE1 "MAX(C1)"

# $: \texttt{MEASure:CALCulation:} \big\{ \texttt{MAXimum} {<} x {>} \big|$

# ${\tt MEAN<\!x>|MINimum<\!x>|SDEViation<\!x>}?$

Function Queries the statistical value of the calculation item.

Syntax :MEASure:CALCulation:{MAXimum<x>|
 MEAN<x>|MINimum<x>|SDEViation<x>}?

<x> of MAXimum<x> = 1 to 4
<x> of MEAN<x> = 1 to 4
<x> of MINimum<x> = 1 to 4

<x> of SDEViation<x> = 1 to 4

Example (The following is an example for the maximum

value )

:MEASURE:CALCULATION:MAXIMUM1?

-> :MEASURE:CALCULATION:
MAXIMUM1 1.000E+00

#### :MEASure:CALCulation:STATe<x>

Function Turns ON/OFF the calculation item or queries the

current setting.

Syntax :MEASure:CALCulation:STATe<x>

 $\{\verb|<Boolean>|\}$ 

:MEASure:CALCulation:STATe<x>?

< x > = 1 to 4

Example :MEASURE:CALCULATION:STATE1 ON

:MEASURE:CALCULATION:STATE1?

-> :MEASURE:CALCULATION:STATE1 1

#### :MEASure:CALCulation:VALue<x>?

Function Queries the automated measured value of the

calculation item.

Syntax :MEASure:CALCulation:VALue<x>? {<NRf>}

< x > = 1 to 4

<NRf> = 1 to 100000

Example :MEASURE:CALCULATION:VALUE1?

-> :MEASURE:CALCULATION:VALUE1 1.000E+00

Description • If the measurement is not possible, "NAN (Not A Number" is returned.

 <NRf> indicates the nth automated measured value in the past.

In the case of cycle statistical processing, specify the <NRf>th cycle from the left of the screen.

To specify the oldest automated measured value, specify 1.

If <NRf> is omitted, the latest automated measured value is specified.

If the value corresponding to the relevant count is not present, "NAN" (Not A Number)" is returned.

#### :MEASure:CONTinuous?

Function Queries all settings related to the continuous

statistical processing.

Syntax :MEASure:CONTinuous?

Example :MEASURE:CONTINUOUS? -> :MEASURE:

CONTINUOUS: COUNT 0

#### :MEASure:CONTinuous:COUNt

Function Sets the continuous statistical processing count or

queries the current setting.

Syntax :MEASure:CONTinuous:COUNt {<NRf>}

:MEASure:CONTinuous:COUNt?

<NRf> = 0 to 100000

Example : MEASURE: CONTINUOUS: COUNT 10

:MEASURE:CONTINUOUS:COUNT? -> :MEASURE:

CONTINUOUS: COUNT 10

Description When <NRf> = 0, the maximum count that is possible

under the current settings is automatically set.

### :MEASure:CONTinuous:RESTart

Function Restarts the continuous statistical processing.

Syntax :MEASure:CONTinuous:RESTart
Example :MEASURE:CONTINUOUS:RESTART

Description Clears the previous statistical data.

#### :MEASure:CYCLe?

Function Queries all settings related to the cycle statistical

processing.

Syntax :MEASure:CYCLe?

Example :MEASURE:CYCLE? -> :MEASURE:CYCLE:

TRACE 1

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#### :MEASure:CYCLe:ABORt

Function Aborts the execution of the cycle statistical

processing.

Syntax :MEASure:CYCLe:ABORt Example :MEASURE:CYCLE:ABORT

#### :MEASure:CYCLe:EXECute

Function Executes the cycle statistical processing. This is an

overlap command.

Syntax :MEASure:CYCLe:EXECute
Example :MEASURE:CYCLE:EXECUTE

Description Continues the operation without clearing the previous

statistical data.

#### :MEASure:CYCLe:TRACe

Function Sets the cycle source trace of the continuous

statistical processing count or queries the current

setting.

C < x > |D < x >

:MEASure:CYCLe:TRACe?

<NRf> = 1 to 8 <x> = 1 to 7

Example :MEASURE:CYCLE:TRACE 1

:MEASURE:CYCLE:TRACE? -> :MEASURE:

CYCLE: TRACE 1

Description For the SB5310, only {<NRf>|A<x>} are valid.

#### :MEASure:DISPlay

Function Turns ON/OFF the display of the automated

measurement of waveform parameters or queries the

current setting.

Syntax : MEASure: DISPlay { < Boolean > }

:MEASure:DISPlay?

Example :MEASURE:DISPLAY ON

:MEASURE:DISPLAY? -> :MEASURE:DISPLAY 1

#### :MEASure:FLEXray?

Function Queries all settings related to the FLEXRAY

waveform parameters.

Syntax :MEASure:FLEXray?

Example :MEASURE:FLEXRAY? -> :MEASURE:FLEXRAY:

BUS:BRATE 5000000;BSS:STATE 0;:MEASURE:
FLEXRAY:BUS:BSSFES:STATE 0;:MEASURE:
FLEXRAY:BUS:BSSFESID 1;BSSID 1;FBSS:
STATE 0;:MEASURE:FLEXRAY:BUS:FBSSID 1;

FTRACE 1; SPOINT 5.00E+00; TRACE1:

HYSTERESIS 1.00000E+00;

LEVEL 1.0000000E+00;:MEASURE:FLEXRAY:
BUS:TRACE2:HYSTERESIS 600.000E-03;
LEVEL 0.0000000E+00;:MEASURE:FLEXRAY:
BUS:TRACE3:HYSTERESIS 600.000E-03;
LEVEL 0.0000000E+00;:MEASURE:FLEXRAY:

BUS:TRACE4:HYSTERESIS 600.000E-03; LEVEL 0.0000000E+00;:MEASURE:FLEXRAY:

BUS:TRACE5:HYSTERESIS 600.000E-03; LEVEL 0.0000000E+00;:MEASURE:FLEXRAY:

BUS:TRACE6:HYSTERESIS 600.000E-03;

LEVEL 0.0000000E+00;:MEASURE:FLEXRAY: BUS:TRACE7:HYSTERESIS 600.000E-03;

LEVEL 0.0000000E+00;:MEASURE:FLEXRAY:
BUS:TRACE8:HYSTERESIS 600.000E-03;

LEVEL 0.0000000E+00;:MEASURE:FLEXRAY:
RECEIVER:RXD:BPBM:LEVEL 2.000E+00,

1.000E+00;TRACE 1.....

#### :MEASure:FLEXray:BUS?

Function Queries all settings related to the FLEXRAY bus waveforms.

Syntax :MEASure:FLEXray:BUS?

Example :MEASURE:FLEXRAY:BUS? -> :MEASURE:

FLEXRAY:BUS:BRATE 5000000;BSS:STATE 0;:
MEASURE:FLEXRAY:BUS:BSSFES:STATE 0;:

MEASURE:FLEXRAY:BUS:BSSFESID 1;BSSID 1;
FBSS:STATE 0;:MEASURE:FLEXRAY:BUS:

FBSSID 1;FTRACE 1;SPOINT 5.00E+00; TRACE1:HYSTERESIS 1.00000E+00;

LEVEL 1.0000000E+00;:MEASURE:FLEXRAY:

BUS:TRACE2:HYSTERESIS 600.000E-03;

LEVEL 0.0000000E+00;:MEASURE:FLEXRAY:

BUS:TRACE3:HYSTERESIS 600.000E-03;
LEVEL 0.0000000E+00;:MEASURE:FLEXRAY:

BUS:TRACE4:HYSTERESIS 600.000E-03;

LEVEL 0.0000000E+00;:MEASURE:FLEXRAY: BUS:TRACE5:HYSTERESIS 600.000E-03;

LEVEL 0.0000000E+00;:MEASURE:FLEXRAY:

BUS:TRACE6:HYSTERESIS 600.000E-03; LEVEL 0.0000000E+00;:MEASURE:FLEXRAY:

BUS:TRACE7:HYSTERESIS 600.000E-03; LEVEL 0.0000000E+00;:MEASURE:FLEXRAY:

BUS:TRACE8:HYSTERESIS 600.000E-03;

LEVEL 0.000000E+00

#### :MEASure:FLEXray:BUS:BRATe

Function Sets the FLEXRAY bus waveform bit rate (data transfer rate) or queries the current setting.

Syntax :MEASure:FLEXray:BUS:BRATe {<NRf>}

:MEASure:FLEXray:BUS:BRATe? <NRf> = 2500000, 5000000, 10000000

Example :MEASURE:FLEXRAY:BUS:BRATE 5000000

:MEASURE:FLEXRAY:BUS:BRATE?

-> :MEASURE:FLEXRAY:BUS:BRATE 5000000

#### :MEASure:FLEXray:BUS:<Parameter>?

Function Queries all settings related to the FLEXRAY bus waveform parameters.

Syntax :MEASure:FLEXray:BUS:<Parameter>?

:MEASURE:FLEXRAY:BUS:BSS?

<Parameter> = {BSS|BSSFES|FBSS}

 ${\tt Example} \quad \hbox{(The following is an example with BSS.)}$ 

->:MEASURE:FLEXRAY:BUS:BSS:STATE 0

# :MEASure:FLEXray:BUS:<Parameter>: COUNt?

Function Queries the count for continuous statistical processing of FLEXRAY bus waveform parameters.

Syntax :MEASure:FLEXray:BUS:<Parameter>:COUNt?

<Parameter> = {BSS|BSSFES|FBSS}

Example (The following is an example with BSS.)

:MEASURE:FLEXRAY:BUS:BSS:COUNT?
->:MEASURE:FLEXRAY:BUS:BSS:COUNT 0

# :MEASure:FLEXray:BUS:<Parameter>: {MAXimum | MEAN | MINimum | SDEViation}?

Function Queries each statistical value of the FLEXRAY bus waveform parameters.

Syntax :MEASure:FLEXray:BUS:<Parameter>:

{MAXimum | MEAN | MINimum | SDEViation}? <Parameter> = {BSS|BSSFES|FBSS}

Example (The following is an example with BSS.)

:MEASURE:FLEXRAY:BUS:BSS:MAXIMUM?

->:MEASURE:FLEXRAY:BUS:BSS:

MAXIMUM 1.000E+00

#### :MEASure:FLEXray:BUS:<Parameter>:STATe

Function Turns ON/OFF FLEXRAY bus waveform parameters or queries the current setting.

Syntax :MEASure:FLEXray:BUS:<Parameter>:

STATe {<Boolean>}

:MEASure:FLEXray:BUS:<Parameter>:STATe?

<Parameter> = {BSS|BSSFES|FBSS}

Example (The following is an example with BSS.)

:MEASURE:FLEXRAY:BUS:BSS:STATE ON
:MEASURE:FLEXRAY:BUS:BSS:STATE?
->:MEASURE:FLEXRAY:BUS:BSS:STATE 1

#### :MEASure:FLEXray:BUS:<Parameter>:

#### VALue?

Function Queries the automated measurement values of the

FLEXRAY bus waveform parameters.

Syntax :MEASure:FLEXray:BUS:<Parameter>:VALue?

<NRf>}

<Parameter> = {BSS|BSSFES|FBSS}

<NRf> = 1 to 100000

Example (The following is an example with BSS.)

:MEASURE:FLEXRAY:BUS:BSS:VALUE?

->: MEASURE: FLEXRAY: BUS: BSS:

VALUE 1.000E+00

Description • If measurement cannot be performed, NAN (Not A Number) is returned.

<NRf> indicates the n'th automated measured value in the past. For cycle statistics, specify the <NRf>'th cycle from the left of the screen. To specify the oldest automated measured value, specify 1. If <NRf> is omitted, the most recent automated measured value is specified. If the value corresponding to the relevant count is not present, NAN (Not A Number) is returned.

#### :MEASure:FLEXray:BUS:BSSFESID

Function Sets the BSSFES ID of the FLEXRAY bus waveform or queries the current setting.

or queries the current setting.

Syntax :MEASure:FLEXray:BUS: BSSFESID {<NRf>|ALL}

:MEASure:FLEXray:BUS:BSSFESID?

<NRf> = 1 to 2047

Example :MEASURE:FLEXRAY:BUS:BSSFESID 1

:MEASURE:FLEXRAY:BUS:BSSFESID?

-> :MEASURE:FLEXRAY:BUS:BSSFESID 1

#### :MEASure:FLEXray:BUS:BSSID

Function Sets the BSS ID of the FLEXRAY bus waveform or queries the current setting.

Syntax :MEASure:FLEXray:BUS:BSSID {<NRf>|ALL}

:MEASure:FLEXray:BUS:BSSID?

<NRf> = 1 to 2047

Example :MEASURE:FLEXRAY:BUS:BSSID 1

:MEASURE:FLEXRAY:BUS:BSSID?

-> :MEASURE:FLEXRAY:BUS:BSSID 1

### :MEASure:FLEXray:BUS:FBSSID

Function Sets the FBSS ID of the FLEXRAY bus waveform or queries the current setting.

Syntax :MEASure:FLEXray:BUS:FBSSID {<NRf>|ALL}

:MEASure:FLEXray:BUS:FBSSID?

<NRf> = 1 to 2047

Example :MEASURE:FLEXRAY:BUS:FBSSID 1

:MEASURE:FLEXRAY:BUS:FBSSID?

-> :MEASURE:FLEXRAY:BUS:FBSSID 1

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#### :MEASure:FLEXray:BUS:FTRace

Function Sets the trace of the FLEXRAY bus waveform or

queries the current setting.

Syntax :MEASure:FLEXray:BUS:FTRace {<NRf>}

:MEASure:FLEXray:BUS:FTRace?

< NRf > = 1 to 8

Example : MEASURE: FLEXRAY: BUS: FTRACE 1

:MEASURE:FLEXRAY:BUS:FTRACE?
-> :MEASURE:FLEXRAY:BUS:FTRACE 1

#### :MEASure:FLEXray:BUS:SPOint

Function Sets the sample point of the FLEXRAY bus waveform

or queries the current setting.

Syntax :MEASure:FLEXray:BUS:SPOint {<NRf>}

:MEASure:FLEXray:BUS:SPOint?

< NRf > = 1 to 8

Example :MEASURE:FLEXRAY:BUS:SPOINT 5

:MEASURE:FLEXRAY:BUS:SPOINT?

-> :MEASURE:FLEXRAY:BUS:SPOINT 5.00E+00

#### :MEASure:FLEXray:BUS:TRACe<x>?

Function Queries all threshold levels and hysteresis settings of

each trace of the FLEXRAY bus waveform.

Syntax :MEASure:FLEXray:BUS:TRACe<x>?

< x > = 1 to 8

Example : MEASURE: FLEXRAY: BUS: TRACE1? ->

:MEASURE:FLEXRAY:BUS:TRACE1: HYSTERESIS 1.00000E+00;LEVEL

1.000000E+00

#### :MEASure:FLEXray:BUS:TRACe<x>:

#### HYSTeresis

Function Sets the hysteresis of the threshold of each trace of

the FLEXRAY bus waveform

Syntax :MEASure:FLEXray:BUS:TRACe<x>:

 ${\tt HYSTeresis} \ \{{\tt <NRf>}\}$ 

:MEASure:FLEXray:BUS:TRACe<x>:

HYSTeresis? <x> = 1 to 8 <NRf> = 0 to 4(div)

Example :MEASURE:FLEXRAY:BUS:TRACE1:

HYSTERESIS 1

:MEASURE:FLEXRAY:BUS:TRACE1:HYSTERESIS?

-> :MEASURE:FLEXRAY:BUS:TRACE1:

HYSTERESIS 1.00000E+00

#### :MEASure:FLEXray:BUS:TRACe<x>:LEVel

Function Sets the Threshold level of each trace of the

FLEXRAY bus waveform

Syntax : MEASure: FLEXray: BUS: TRACe<x>:

LEVel {<NRf>|<Voltage>|<Current>}
:MEASure:FLEXray:BUS:TRACe<x>:LEVel?

< x > = 1 to 8

<NRf>, <Voltage>, <Current> = See the SB5000

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Example :MEASURE:FLEXRAY:BUS:TRACE1:LEVEL 1

:MEASURE:FLEXRAY:BUS:TRACE1:LEVEL?

-> :MEASURE:FLEXRAY:BUS:TRACE1:LEVEL

1.000000E+00

#### :MEASure:FLEXray:RECeiver?

Function Queries all settings related to the FLEXRAY receiver

waveform.

Syntax :MEASure:FLEXray:RECeiver?

Example :MEASURE:FLEXRAY:RECEIVER? -> :MEASURE:

FLEXRAY: RECEIVER: RXD: BPBM:

LEVEL 2.000E+00,1.000E+00;TRACE 1;:
MEASURE:FLEXRAY:RECEIVER:RXD:DATA:
LEVEL 2.000E+00,1.000E+00;TRACE 1;:
MEASURE:FLEXRAY:RECEIVER:RXD:DBDRX01:

STATE 0;:MEASURE:FLEXRAY:RECEIVER:
RXD:DBDRX10:STATE 0;:MEASURE:FLEXRAY:

RECEIVER:RXD:DRXASYM:STATE 0;:MEASURE:

FLEXRAY: RECEIVER: RXEN: BPBM:

LEVEL 2.000E+00,1.000E+00;TRACE 1;:
MEASURE:FLEXRAY:RECEIVER:RXEN:DBDRXAI:
STATE 0;:MEASURE:FLEXRAY:RECEIVER:
RXEN:DBDRXIA:STATE 0;:MEASURE:FLEXRAY:
RECEIVER:RXEN:ENABLE:LEVEL 2.000E+00,

# :MEASure:FLEXray:RECeiver:RXD?

1.000E+00;TRACE 1

Function Queries all settings related to the FLEXRAY receiver waveform data.

Syntax :MEASure:FLEXray:RECeiver:RXD?
Example :MEASURE:FLEXRAY:RECEIVER:RXD?

-> :MEASURE:FLEXRAY:RECEIVER:RXD:BPBM: LEVEL 2.000E+00,1.000E+00;TRACE 1;:

MEASURE:FLEXRAY:RECEIVER:RXD:DATA:
LEVEL 2.000E+00,1.000E+00;TRACE 1;:
MEASURE:FLEXRAY:RECEIVER:RXD:DBDRX01:
STATE 0;:MEASURE:FLEXRAY:RECEIVER:

RXD:DBDRX10:STATE 0;:MEASURE:FLEXRAY:

RECEIVER:RXD:DRXASYM:STATE 0

#### :MEASure:FLEXray:RECeiver:RXD:

#### <Parameter>?

Function Queries all settings related to the of the FLEXRAY receiver waveform data parameters.

Syntax :MEASure:FLEXray:RECeiver:RXD:

<Parameter>?

<Parameter> = {DBDRX01|DBDRX10|DRXASYM}

Example (The following is an example with DBDRX01.)

:MEASURE:FLEXRAY:RECEIVER:RXD:DBDRX01?

->:MEASURE:FLEXRAY:RECEIVER:RXD:

DBDRX01:STATE 0

### :MEASure:FLEXray:RECeiver:RXD:

#### <Parameter>:COUNt?

Function Queries the count for continuous statistical processing of the FLEXRAY receiver waveform data parameters.

Syntax :MEASure:FLEXray:RECeiver:RXD:

<Parameter>:COUNt?

<Parameter> = {DBDRX01|DBDRX10|DRXASYM}

Example (The following is an example with DBDRX01.)

 $: {\tt MEASURE:FLEXRAY:RECEIVER:RXD:DBDRX01:}$ 

COUNT? ->:MEASURE:FLEXRAY:RECEIVER:RXD:

DBDRX01:COUNT 0

#### :MEASure:FLEXray:RECeiver:RXD:

# <Parameter>:{MAXimum|MEAN|MINimum| SDEViation}?

Function Queries each statistical value of the FLEXRAY receiver waveform data parameters.

Syntax :MEASure:FLEXray:RECeiver:RXD:

<Parameter>:{MAXimum|MEAN|MINimum|

SDEViation}?

<Parameter> = {DBDRX01|DBDRX10|DRXASYM}

Example (The following is an example with DBDRX01.)

:MEASURE:FLEXRAY:RECEIVER:RXD:DBDRX01: MAXIMUM? ->:MEASURE:FLEXRAY:RECEIVER:

RXD:DBDRX01:MAXIMUM 1.000E+00

#### :MEASure:FLEXray:RECeiver:

#### RXD:<Parameter>:STATe

Function Turns ON/OFF FLEXRAY receiver waveform data

Syntax :MEASure:FLEXray:RECeiver:RXD:

<Parameter>:STATe {<Boolean>}
:MEASure:FLEXray:RECeiver:RXD:

<Parameter>:STATe?

<Parameter> = {DBDRX01|DBDRX10|DRXASYM}

Example (The following is an example with DBDRX01.)

:MEASURE:FLEXRAY:RECEIVER:RXD:DBDRX01:

STATE ON

:MEASURE:FLEXRAY:RECEIVER:RXD:DBDRX01: STATE? ->:MEASURE:FLEXRAY:RECEIVER:RXD:

DBDRX01:STATE 1

#### :MEASure:FLEXray:RECeiver:RXD:

#### <Parameter>:VALue?

Function Queries automated measurement values of the

FLEXRAY receiver waveform data parameters.

<Parameter> = {DBDRX01|DBDRX10|DRXASYM}

<NRf> = 1 to 100000

Example (The following is an example with DBDRX01.)

:MEASURE:FLEXRAY:RECEIVER:RXD:DBDRX01: VALUE? ->:MEASURE:FLEXRAY:RECEIVER:RXD:

DBDRX01:VALUE 1.000E+00

Description • If measurement cannot be performed, NAN (Not A Number) is returned.

<NRf> indicates the n'th automated measured value in the past. For cycle statistics, specify the <NRf>'th cycle from the left of the screen. To specify the oldest automated measured value, specify 1. If <NRf> is omitted, the most recent automated measured value is specified. If the value corresponding to the relevant count is not present, NAN (Not A Number) is returned.

#### :MEASure:FLEXray:RECeiver:RXD:BPBM?

Function Queries all settings in BPBM of the FLEXRAY

receiver waveform data.

Syntax :MEASure:FLEXray:RECeiver:RXD:BPBM? Example :MEASURE:FLEXRAY:RECEIVER:RXD:BPBM?

> -> :MEASURE:FLEXRAY:RECEIVER:RXD:BPBM: LEVEL 2.000E+00,1.000E+00;TRACE 1

# :MEASure:FLEXray:RECeiver:RXD:BPBM:

Function Queries the BPBM level of the FLEXRAY receiver waveform data.

Syntax :MEASure:FLEXray:RECeiver:RXD:BPBM:

LEVel {<NRf>,<NRf>|<Voltage>,<Voltage>|

<Current> | <Current> }

:MEASure:FLEXray:RECeiver:RXD:BPBM:

LEVel?

<NRf>, <Voltage>, <Current> = See the SB5000

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Example :MEASURE:FLEXRAY:RECEIVER:RXD:BPBM:

LEVEL 1,2

:MEASURE:FLEXRAY:RECEIVER:RXD:BPBM: LEVEL? -> :MEASURE:FLEXRAY:RECEIVER: RXD:BPBM:LEVEL 2.000E+00,1.000E+00

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# :MEASure:FLEXray:RECeiver:RXD:BPBM:

#### TRACe

Function Queries the BPBM trace of the FLEXRAY receiver waveform data.

Syntax :MEASure:FLEXray:RECeiver:RXD:BPBM:

TRACe {<NRf>}

:MEASure:FLEXray:RECeiver:RXD:BPBM:

TRACe? < NRf> = 1 to 8

Example :MEASURE:FLEXRAY:RECEIVER:RXD:BPBM:

TRACE 1

:MEASURE:FLEXRAY:RECEIVER:RXD:BPBM:
TRACE? -> :MEASURE:FLEXRAY:RECEIVER:

RXD:BPBM:TRACE 1

#### :MEASure:FLEXray:RECeiver:RXD:DATA?

Function Queries all settings in the FLEXRAY receiver waveform data.

Syntax :MEASure:FLEXray:RECeiver:RXD:DATA?
Example :MEASURE:FLEXRAY:RECEIVER:RXD:DATA?

-> :MEASURE:FLEXRAY:RECEIVER:RXD:DATA: LEVEL 2.000E+00,1.000E+00;TRACE 1

### :MEASure:FLEXray:RECeiver:RXD:DATA: LEVel

Function Queries the level of the FLEXRAY receiver waveform

data.

Syntax :MEASure:FLEXray:RECeiver:RXD:DATA:

LEVel {<NRf>,<NRf>|<Voltage>,<Voltage>|

<Current>|<Current>}

:MEASure:FLEXray:RECeiver:RXD:DATA:

LEVel?

<NRf>, <Voltage>, <Current> = See the SB5000

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Example :MEASURE:FLEXRAY:RECEIVER:RXD:DATA:

LEVEL 1,2

:MEASURE:FLEXRAY:RECEIVER:RXD:DATA:
LEVEL? -> :MEASURE:FLEXRAY:RECEIVER:
RXD:DATA:LEVEL 2.000E+00,1.000E+00

# :MEASure:FLEXray:RECeiver:RXD:DATA: TRACe

Function Queries the trace of the FLEXRAY receiver waveform

data.

Syntax :MEASure:FLEXray:RECeiver:RXD:DATA:

TRACe {<NRf>}

:MEASure:FLEXray:RECeiver:RXD:DATA:

TRACe?

<NRf> = 1 to 8

Example :MEASURE:FLEXRAY:RECEIVER:RXD:DATA:

TRACE 1

:MEASURE:FLEXRAY:RECEIVER:RXD:DATA:
TRACE? -> :MEASURE:FLEXRAY:RECEIVER:

RXD:DATA:TRACE 1

#### :MEASure:FLEXray:RECeiver:RXEN?

Function Queries all settings related to the FLEXRAY receiver

waveform enable data.

Syntax :MEASure:FLEXray:RECeiver:RXEN?
Example :MEASURE:FLEXRAY:RECEIVER:RXEN: ->
 :MEASURE:FLEXRAY:RECEIVER:RXEN:BPBM:
 LEVEL 2.000E+00,1.000E+00;TRACE 1;:
 MEASURE:FLEXRAY:RECEIVER:RXEN:DBDRXAI:
 STATE 0;:MEASURE:FLEXRAY:RECEIVER:
 RXEN:DBDRXIA:STATE 0;:MEASURE:FLEXRAY:

RECEIVER: RXEN: ENABLE: LEVEL 2.000E+00,

1.000E+00;TRACE 1

### :MEASure:FLEXray:RECeiver:RXEN:

#### <Parameter>?

Function Queries all settings related to the FLEXRAY receiver

waveform enable data parameters.

Syntax :MEASure:FLEXray:RECeiver:RXEN:

<Parameter>?

<Parameter> = {DBDRXAI|DBDRXIA}

Example (The following is an example with DBDRXAI.)

:MEASURE:FLEXRAY:RECEIVER:RXEN:DBDRXAI?

->: MEASURE: FLEXRAY: RECEIVER: RXEN:

DBDRXAI:STATE 0

#### :MEASure:FLEXray:RECeiver:RXEN:

#### <Parameter>:COUNt?

Function Queries the count for continuous statistical processing

of the FLEXRAY receiver waveform enable data

parameters.

Syntax :MEASure:FLEXray:RECeiver:RXEN:

<Parameter>:COUNt?

<Parameter> = {DBDRXAI|DBDRXIA}
Example (The following is an example with DBDRXAI.)

: MEASURE: FLEXRAY: RECEIVER: RXEN: DBDRXAI:

COUNT? ->:MEASURE:FLEXRAY:RECEIVER:

RXEN:DBDRXAI:COUNT 0

#### :MEASure:FLEXray:RECeiver:RXEN:

# <Parameter>: {MAXimum | MEAN | MINimum | SDEV iation}?

Function Queries each statistical value of the FLEXRAY

receiver waveform enable data parameters.

Syntax :MEASure:FLEXray:RECeiver:RXEN:

 $\footnotesize <\! \texttt{Parameter}\! >\! : \big\{ \texttt{MAXimum} \, | \, \texttt{MEAN} \, | \, \texttt{MINimum} \, | \,$ 

SDEViation}?

<Parameter> = {DBDRXAI|DBDRXIA}

Example (The following is an example with DBDRXAI.)

:MEASURE:FLEXRAY:RECEIVER:RXEN:DBDRXAI: MAXIMUM? ->:MEASURE:FLEXRAY:RECEIVER:

RXEN:DBDRXAI:MAXIMUM 1.000E+00

#### :MEASure:FLEXray:RECeiver:RXEN:

#### <Parameter>:STATe

Function Turns ON/OFF FLEXRAY receiver waveform enable

data parameters.

Syntax :MEASure:FLEXray:RECeiver:RXEN:

<Parameter>:STATe {<Boolean>}
:MEASure:FLEXray:RECeiver:RXEN:

<Parameter>:STATe?

<Parameter> = {DBDRXAI|DBDRXIA}

Example (The following is an example with DBDRXAI.)

:MEASURE:FLEXRAY:RECEIVER:RXEN:DBDRXAI:

STATE ON

:MEASURE:FLEXRAY:RECEIVER:RXEN:DBDRXAI:

STATE? ->:MEASURE:FLEXRAY:RECEIVER:

RXEN:DBDRXAI:STATE 1

#### :MEASure:FLEXray:RECeiver:RXEN:

#### <Parameter>:VALue?

Function Queries automated measurement values of

the FLEXRAY receiver waveform enable data

parameters.

Syntax :MEASure:FLEXray:RECeiver:RXEN:

<Parameter>:VALue? {<NRf>}

<Parameter> = {DBDRXAI|DBDRXIA}

<NRf> = 1 to 100000

Example (The following is an example with DBDRXAI.)

:MEASURE:FLEXRAY:RECEIVER:RXEN:DBDRXAI: VALUE? ->:MEASURE:FLEXRAY:RECEIVER:

RXEN:DBDRXAI:VALUE 1.000E+00

Description • If measurement cannot be performed, NAN (Not A Number) is returned.

<NRf> indicates the n'th automated measured value in the past. For cycle statistics, specify the <NRf>'th cycle from the left of the screen. To specify the oldest automated measured value, specify 1. If <NRf> is omitted, the most recent automated measured value is specified. If the value corresponding to the relevant count is not present, NAN (Not A Number) is returned.

#### :MEASure:FLEXray:RECeiver:RXEN:BPBM?

Function Queries all settings in BPBM of the FLEXRAY receiver waveform enable data.

Syntax :MEASure:FLEXray:RECeiver:RXEN:BPBM?

Example :MEASURE:FLEXRAY:RECEIVER:RXEN:BPBM?

-> :MEASURE:FLEXRAY:RECEIVER:RXEN:BPBM:

LEVEL 2.000E+00,1.000E+00;TRACE 1

### :MEASure:FLEXray:RECeiver:RXEN:BPBM: LEVel

Function Sets the BPBM level of the FLEXRAY receiver

waveform enable data or queries the current setting.

Syntax :MEASure:FLEXray:RECeiver:RXEN:BPBM:

 $\texttt{LEVel } \{ < \texttt{NRf} > , < \texttt{NRf} > \big| < \texttt{Voltage} > , < \texttt{Voltage} > \big|$ 

<Current> | <Current> }

:MEASure:FLEXray:RECeiver:RXEN:BPBM:

LEVel?

<NRf>, <Voltage>, <Current> = See the SB5000

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Example :MEASURE:FLEXRAY:RECEIVER:RXEN:BPBM:

LEVEL 1,2

: MEASURE: FLEXRAY: RECEIVER: RXEN: BPBM:

LEVEL? -> :MEASURE:FLEXRAY:RECEIVER:

RXEN:BPBM:LEVEL 2.000E+00,1.000E+00

# :MEASure:FLEXray:RECeiver:RXEN:BPBM:

#### TRACe

Function Sets the BPBM trace of the FLEXRAY receiver

waveform enable data or queries the current setting.
Syntax :MEASure:FLEXray:RECeiver:RXEN:BPBM:

TRACe {<NRf>}

:MEASure:FLEXray:RECeiver:RXEN:BPBM:

TRACe?

< NRf > = 1 to 8

Example :MEASURE:FLEXRAY:RECEIVER:RXEN:BPBM:

TRACE 1

:MEASURE:FLEXRAY:RECEIVER:RXEN:BPBM:

TRACE? -> :MEASURE:FLEXRAY:RECEIVER:

RXEN:BPBM:TRACE 1

#### :MEASure:FLEXray:RECeiver:RXEN:ENABle?

Function Queries all settings in the FLEXRAY receiver

waveform enable data.

Syntax :MEASure:FLEXray:RECeiver:RXEN:ENABle?

Example :MEASURE:FLEXRAY:RECEIVER:RXEN:ENABLE?
 -> :MEASURE:FLEXRAY:RECEIVER:RXEN:

ENABLE:LEVEL 2.000E+00,1.000E+00;

TRACE 2

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### :MEASure:FLEXray:RECeiver:RXEN:ENABle: LEVel

Function Queries the level of the FLEXRAY receiver waveform

enable data.

Syntax :MEASure:FLEXray:RECeiver:RXEN:ENABle:LEVel

{<NRf>,<NRf>|<Voltage>,<Voltage>|<Current>|<Curr

ent>}

:MEASure:FLEXray:RECeiver:RXEN:ENABle:LEVel? <NRf>, <Voltage>, <Current> = See the SB5000

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Example :MEASURE:FLEXRAY:RECEIVER:RXEN:ENABLE:

LEVEL 1,2

:MEASURE:FLEXRAY:RECEIVER:RXEN:ENABLE: LEVEL? -> :MEASURE:FLEXRAY:RECEIVER:RXEN:

ENABLE:LEVEL 2.000E+00,1.000E+00

# :MEASure:FLEXray:RECeiver:RXEN:ENABle:TRACe

Function Queries the trace of the FLEXRAY receiver waveform enable data

Syntax :MEASure:FLEXray:RECeiver:RXEN:ENABle:

TRACe {<NRf>}

:MEASure:FLEXray:RECeiver:RXEN:ENABle:

TRACe? <NRf> = 1 to 8

Example :MEASURE:FLEXRAY:RECEIVER:RXEN:ENABLE:

TRACE 1

:MEASURE:FLEXRAY:RECEIVER:RXEN:ENABLE:
TRACE? -> :MEASURE:FLEXRAY:RECEIVER:

RXEN: ENABLE: TRACE 1

#### :MEASure:FLEXray:STATistics

Function Turns ON/OFF statistics mode of the FLEXRAY

waveform parameters or queries the current setting.

Syntax :MEASure:FLEXray:STATistics {<Boolean>}

:MEASure:FLEXray:STATistics?
Example :MEASURE:FLEXRAY:STATISTICS ON

:MEASURE:FLEXRAY:STATISTICS?

-> :MEASURE:FLEXRAY:STATISTICS 1

#### :MEASure:FLEXray:TRANsmitter?

Function Queries all settings related to the FLEXRAY transmitter waveform.

Syntax :MEASure:FLEXray:TRANsmitter?
Example :MEASURE:FLEXRAY:TRANSMITTER? ->

:MEASURE:FLEXRAY:TRANSMITTER:TXD:BPBM:

DPROXIMAL 90,10; LEVEL 2.000E+00, 1.000E+00; TRACE 1; :MEASURE: FLEXRAY:

TRANSMITTER:TXD:DATA:LEVEL 2.000E+00, 1.000E+00;TRACE 1;:MEASURE:FLEXRAY:

TRANSMITTER:TXD:DBDTX01:STATE 0;:

MEASURE: FLEXRAY: TRANSMITTER: TXD:

DBDTX10:STATE 0;:MEASURE:FLEXRAY:

TRANSMITTER:TXD:DBUSTX01:STATE 0;:

MEASURE:FLEXRAY:TRANSMITTER:TXD:
DBUSTX10:STATE 0;:MEASURE:FLEXRAY:

TRANSMITTER:TXD:DTXASYM:STATE 0;:

MEASURE: FLEXRAY: TRANSMITTER: TXD: UBDTX:

STATE 0;:MEASURE:FLEXRAY:TRANSMITTER:

TXEN:BPBM:LEVEL 2.000E+00,1.000E+00;

TRACE 1;:MEASURE:FLEXRAY:TRANSMITTER:

TXEN:DBDTXAI:STATE 0;:MEASURE:FLEXRAY:

TRANSMITTER:TXEN:DBDTXIA:STATE 0;:

MEASURE: FLEXRAY: TRANSMITTER: TXEN:

DBUSTXAI:STATE 0;:MEASURE:FLEXRAY:

TRANSMITTER: TXEN: DBUSTXIA: STATE 0;:
MEASURE: FLEXRAY: TRANSMITTER: TXEN:

ENABLE: LEVEL 2.000E+00,1.000E+00;

TRACE 1

#### :MEASure:FLEXray:TRANsmitter:TXD?

Function Queries all settings related to the FLEXRAY transmitter waveform data.

Syntax :MEASure:FLEXray:TRANsmitter:TXD?

Example :MEASURE:FLEXRAY:TRANSMITTER:TXD? ->

:MEASURE:FLEXRAY:TRANSMITTER:TXD:BPBM: DPROXIMAL 90,10;LEVEL 2.000E+00,

1.000E+00;TRACE 1;:MEASURE:FLEXRAY:

TRANSMITTER:TXD:DATA:LEVEL 2.000E+00,

1.000E+00; TRACE 1; :MEASURE: FLEXRAY:

1.000E+00; TRACE 1; :MEASURE: FLEXRAY

TRANSMITTER:TXD:DBDTX01:STATE 0;:
MEASURE:FLEXRAY:TRANSMITTER:TXD:

MEASURE: FLEXRAY: TRANSMITTER: TXD:

DBDTX10:STATE 0;:MEASURE:FLEXRAY:
TRANSMITTER:TXD:DBUSTX01:STATE 0;:

MEASURE: FLEXRAY: TRANSMITTER: TXD:

DBUSTX10:STATE 0;:MEASURE:FLEXRAY:

TRANSMITTER:TXD:DTXASYM:STATE 0;:

MEASURE:FLEXRAY:TRANSMITTER:TXD:UBDTX:

STATE 0

# :MEASure:FLEXray:TRANsmitter:TXD: <Parameter>?

Function Queries all settings related to the FLEXRAY transmitter waveform data parameters.

Syntax :MEASure:FLEXray:TRANsmitter:TXD:

<Parameter>?

<Parameter> = {DBDTX01|DBDTX10|DBUSTX01|

DBUSTX10 | DTXASYM | UBDTX }

Example (The following is an example with DBDTX01.)

:MEASURE:FLEXRAY:TRANSMITTER: TXD:DBDTX01? ->:MEASURE:FLEXRAY: TRANSMITTER:TXD:DBDTX01:STATE 0

# :MEASure:FLEXray:TRANsmitter:TXD:

#### <Parameter>:COUNt?

Function Queries the count for continuous statistical processing of the FLEXRAY transmitter waveform data parameters.

Syntax :MEASure:FLEXray:TRANsmitter:TXD:

<Parameter>:COUNt?

<Parameter> = {DBDTX01|DBDTX10|DBUSTX01|DB

USTX10|DTXASYM|UBDTX}

Example (The following is an example with DBDTX01.)

:MEASURE:FLEXRAY:TRANSMITTER:TXD: DBDTX01:COUNT? ->:MEASURE:FLEXRAY: TRANSMITTER:TXD:DBDTX01:COUNT 0

#### :MEASure:FLEXray:TRANsmitter:TXD:

# <Parameter>:{MAXimum|MEAN|MINimum| SDEViation}?

Function Queries each statistical value of the FLEXRAY transmitter waveform data parameters.

Syntax :MEASure:FLEXray:TRANsmitter:TXD:

<Parameter>:{MAXimum|MEAN|MINimum|

SDEViation}?

<Parameter> = {DBDTX01|DBDTX10|DBUSTX01| DBUSTX10|DTXASYM|UBDTX}

Example (The following is an example with DBDTX01.)

: MEASURE: FLEXRAY: TRANSMITTER: TXD: DBDTX01:MAXIMUM? ->:MEASURE:FLEXRAY:

TRANSMITTER: TXD: DBDTX01: MAXIMUM 1.000E+00

#### :MEASure:FLEXray:TRANsmitter:TXD:

#### <Parameter>:STATe

Turns ON/OFF FLEXRAY transmitter waveform data Function parameters.

Syntax :MEASure:FLEXray:TRANsmitter:TXD:

<Parameter>:STATe {<Boolean>}

:MEASure:FLEXray:TRANsmitter:TXD:

<Parameter>:STATe?

<Parameter> = {DBDTX01|DBDTX10|DBUSTX01|

DBUSTX10|DTXASYM|UBDTX}

Example (The following is an example with DBDTX01.)

:MEASURE:FLEXRAY:TRANSMITTER:TXD:

DBDTX01:STATE ON

:MEASURE:FLEXRAY:TRANSMITTER:TXD: DBDTX01:STATE? ->:MEASURE:FLEXRAY:

TRANSMITTER:TXD:DBDTX01:STATE 1

#### :MEASure:FLEXray:TRANsmitter:TXD:

#### <Parameter>:VALue?

Function Queries automated measurement values of the FLEXRAY transmitter waveform data parameters.

Syntax :MEASure:FLEXray:TRANsmitter:TXD:

<Parameter>:VALue? {<NRf>}

<Parameter> = {DBDTX01|DBDTX10|DBUSTX01|

DBUSTX10|DTXASYM|UBDTX}

<NRf> = 1 to 100000

Example (The following is an example with DBDTX01.)

> :MEASURE:FLEXRAY:TRANSMITTER:TXD: DBDTX01:VALUE? ->:MEASURE:FLEXRAY:

TRANSMITTER:TXD:DBDTX01:VALUE 1.000E+00

Description • If measurement cannot be performed, NAN (Not A Number) is returned.

> • <NRf> indicates the n'th automated measured value in the past. For cycle statistics, specify the <NRf>'th cycle from the left of the screen. To specify the oldest automated measured value, specify 1. If <NRf> is omitted, the most recent automated measured value is specified. If the value corresponding to the relevant count is not present, NAN (Not A Number) is returned.

#### :MEASure:FLEXray:TRANsmitter:TXD:BPBM?

Function Queries all settings in BPBM of the FLEXRAY transmitter waveform data.

Syntax :MEASure:FLEXray:TRANsmitter:TXD:BPBM? Example :MEASURE:FLEXRAY:TRANSMITTER:TXD:BPBM?

-> : MEASURE: FLEXRAY: TRANSMITTER: TXD: BPBM:DPROXIMAL 90,10; LEVEL 2.000E+00,

1.000E+00; TRACE 1

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# :MEASure:FLEXray:TRANsmitter:TXD:BPBM: DPRoximal

Function Sets the BPBM distal/proximal value of the FLEXRAY

transmitter waveform data or queries the current

setting.

Syntax :MEASure:FLEXray:TRANsmitter:TXD:BPBM:

DPRoximal {<NRf>,<NRf>}

:MEASure:FLEXray:TRANsmitter:TXD:BPBM:

DPRoximal?

<NRf> = 0 to 100(%)

Example :MEASURE:FLEXRAY:TRANSMITTER:TXD:BPBM:

DPROXIMAL 10,90

:MEASURE:FLEXRAY:TRANSMITTER:TXD: BPBM:DPROXIMAL? -> :MEASURE:FLEXRAY: TRANSMITTER:TXD:BPBM:DPROXIMAL 90,10

# :MEASure:FLEXray:TRANsmitter:TXD:BPBM: LEVel

Function Sets the BPBM level of the FLEXRAY transmitter waveform data or queries the current setting.

Syntax :MEASure:FLEXray:TRANsmitter:TXD:BPBM:

LEVel {<NRf>,<NRf>|<Voltage>,<Voltage>|

<Current> | <Current> }

:MEASure:FLEXray:TRANsmitter:TXD:BPBM:

LEVel?

<NRf>, <Voltage>, <Current> = See the SB5000

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Example :MEASURE:FLEXRAY:TRANSMITTER:TXD:BPBM:

LEVEL 1,2

:MEASURE:FLEXRAY:TRANSMITTER:TXD:BPBM: LEVEL? -> :MEASURE:FLEXRAY:TRANSMITTER: TXD:BPBM:LEVEL 2.000E+00,1.000E+00

# :MEASure:FLEXray:TRANsmitter:TXD:BPBM:

#### TRACe

Function Sets the BPBM trace of the FLEXRAY transmitter waveform data or queries the current setting.

Syntax :MEASure:FLEXray:TRANsmitter:TXD:BPBM:

TRACe {<NRf>}

:MEASure:FLEXray:TRANsmitter:TXD:BPBM:

TRACe?

<NRf> = 1 to 8

Example :MEASURE:FLEXRAY:TRANSMITTER:TXD:BPBM:

TRACE 1

:MEASURE:FLEXRAY:TRANSMITTER:TXD:BPBM:
TRACE? -> :MEASURE:FLEXRAY:TRANSMITTER:

TXD:BPBM:TRACE 1

#### :MEASure:FLEXray:TRANsmitter:TXD:DATA?

Function Queries all settings in the FLEXRAY transmitter waveform data.

# :MEASure:FLEXray:TRANsmitter:TXD:DATA: LEVel

Function Sets the level of the FLEXRAY transmitter waveform

data.Syntax :MEASure:FLEXray:

TRANsmitter:TXD:DATA:

LEVel {<NRf>,<NRf>|<Voltage>,<Voltage>|

<Current> | <Current> }

:MEASure:FLEXray:TRANsmitter:TXD:DATA:

LEVel?

<NRf>, <Voltage>, <Current> = See the SB5000

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 ${\tt Example} \quad : {\tt MEASURE:FLEXRAY:TRANSMITTER:TXD:DATA:}$ 

LEVEL 1,2

:MEASURE:FLEXRAY:TRANSMITTER:TXD:DATA: LEVEL? -> :MEASURE:FLEXRAY:TRANSMITTER:

TXD:DATA:LEVEL 2.000E+00,1.000E+00

# :MEASure:FLEXray:TRANsmitter:TXD:DATA: TRACe

Function Sets the trace of the FLEXRAY transmitter waveform data or queries the current setting.

Syntax :MEASure:FLEXray:TRANsmitter:TXD:DATA:

TRACe {<NRf>}

:MEASure:FLEXray:TRANsmitter:TXD:DATA:

TRACe?

<NRf> = 1 to 8

Example :MEASURE:FLEXRAY:TRANSMITTER:TXD:DATA:

TRACE 1

:MEASURE:FLEXRAY:TRANSMITTER:TXD:DATA:
TRACE? -> :MEASURE:FLEXRAY:TRANSMITTER:

TXD:DATA:TRACE 1

#### :MEASure:FLEXray:TRANsmitter:TXEN?

Function Queries all settings related to the FLEXRAY transmitter enable data.

Syntax :MEASure:FLEXray:TRANSmitter:TXEN?

:MEASURE:FLEXRAY:TRANSMITTER:TXEN: ->
:MEASURE:FLEXRAY:TRANSMITTER:TXEN:BPBM:
LEVEL 2.000E+00,1.000E+00;TRACE 1;:
MEASURE:FLEXRAY:TRANSMITTER:TXEN:
DBDTXAI:STATE 0;:MEASURE:FLEXRAY:
TRANSMITTER:TXEN:DBDTXIA:STATE 0;:
MEASURE:FLEXRAY:TRANSMITTER:TXEN:
DBUSTXAI:STATE 0;:MEASURE:FLEXRAY:
TRANSMITTER:TXEN:DBUSTXIA:STATE 0;:
MEASURE:FLEXRAY:TRANSMITTER:TXEN:
ENABLE:LEVEL 2.000E+00,1.000E+00;

# :MEASure:FLEXray:TRANsmitter:TXEN: <Parameter>?

Function Queries all settings related to the FLEXRAY transmitter waveform enable data parameters.

Syntax :MEASure:FLEXray:TRANsmitter:TXEN:

<Parameter>?

TRACE 1

<Parameter> = {DBDTXAI|DBDTXIA|DBUSTXAI| DBUSTXIA}

Example (The following is an example with DBDTXAI.)

:MEASURE:FLEXRAY:TRANSMITTER:TXEN:
DBDTXAI? ->:MEASURE:FLEXRAY:
TRANSMITTER:TXEN:DBDTXAI:STATE 0

# :MEASure:FLEXray:TRANsmitter:TXEN:

## <Parameter>:COUNt?

Function Queries the count for continuous statistical processing of FLEXRAY transmitter waveform enable data parameters.

Syntax :MEASure:FLEXray:TRANsmitter:TXEN:

<Parameter>:COUNt?

<Parameter> = {DBDTXAI|DBDTXIA|DBUSTXAI| DBUSTXIA}

 ${\tt Example} \quad \hbox{(The following is an example with DBDTXAI.)}$ 

:MEASURE:FLEXRAY:TRANSMITTER:TXEN: DBDTXAI:COUNT? ->:MEASURE:FLEXRAY: TRANSMITTER:TXEN:DBDTXAI:COUNT 0

# :MEASure:FLEXray:TRANsmitter:TXEN: <Parameter>:{MAXimum|MEAN|MINimum| SDEViation}?

Function Queries each statistical value of the FLEXRAY transmitter waveform enable data parameters.

SDEViation}?

<Parameter> = {DBDTXAI|DBDTXIA|DBUSTXAI| DBUSTXIA}

Example (The following is an example with DBDTXAI.)

:MEASURE:FLEXRAY:TRANSMITTER:TXEN:
DBDTXAI:MAXIMUM? ->:MEASURE:FLEXRAY:

 ${\tt TRANSMITTER:TXEN:DBDTXAI:}$ 

MAXIMUM 1.000E+00

# :MEASure:FLEXray:TRANsmitter:TXEN: <Parameter>:STATe

Function Turns ON/OFF FLEXRAY transmitter waveform enable data parameters.

Syntax :MEASure:FLEXray:TRANsmitter:TXEN:

<Parameter>:STATe {<Boolean>}
:MEASure:FLEXray:TRANsmitter:

TXEN:<Parameter>:STATe?

<Parameter> = {DBDTXAI|DBDTXIA|DBUSTXAI| DBUSTXIA}

 ${\tt Example} \quad \hbox{(The following is an example with DBDTXAI.)}$ 

 $: {\tt MEASURE:FLEXRAY:TRANSMITTER:TXEN:}$ 

DBDTXAI:STATE ON

:MEASURE:FLEXRAY:TRANSMITTER:TXEN:
DBDTXAI:STATE? ->:MEASURE:FLEXRAY:

TRANSMITTER:TXEN:DBDTXAI:STATE 1

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# :MEASure:FLEXray:TRANsmitter:TXEN: <Parameter>:VALue?

Function Queries automated measurement values of the FLEXRAY transmitter waveform enable data

parameters.

Syntax :MEASure:FLEXray:TRANsmitter:TXEN:

<Parameter>:VALue? {<NRf>}

<Parameter> = {DBDTXAI|DBDTXIA|DBUSTXAI| DBUSTXIA}

<NRf> = 1 to 100000

Example (The following is an example with DBDTXAI.)

:MEASURE:FLEXRAY:TRANSMITTER:TXEN: DBDTXAI:VALUE? ->:MEASURE:FLEXRAY: TRANSMITTER:TXEN:DBDTXAI:VALUE 1.000E+00

Description • If measurement cannot be performed, NAN (Not A Number) is returned.

<NRf> indicates the n'th automated measured value in the past. For cycle statistics, specify the <NRf>'th cycle from the left of the screen. To specify the oldest automated measured value, specify 1. If <NRf> is omitted, the most recent automated measured value is specified. If the value corresponding to the relevant count is not present, NAN (Not A Number) is returned.

# :MEASure:FLEXray:TRANsmitter:TXEN: BPBM?

Function Queries all settings in BPBM of the FLEXRAY transmitter waveform enable data.

Syntax :MEASure:FLEXray:TRANsmitter:TXEN:BPBM?
Example :MEASURE:FLEXRAY:TRANSMITTER:TXEN:BPBM?

-> :MEASURE:FLEXRAY:TRANSMITTER:TXEN: BPBM:LEVEL 2.000E+00,1.000E+00;TRACE 1

# :MEASure:FLEXray:TRANsmitter:TXEN: BPBM:LEVel

Function Sets the BPBM level of the FLEXRAY transmitter waveform enable data or queries the current setting.

Syntax :MEASure:FLEXray:TRANsmitter:TXEN:BPBM:
 LEVel {<NRf>,<NRf>|<Voltage>,<Voltage>|

<Current>|<Current>}

:MEASure:FLEXray:TRANsmitter:TXEN:BPBM:

LEVel?

<NRf>, <Voltage>, <Current> = See the SB5000 User's Manual

Example :MEASURE:FLEXRAY:TRANSMITTER:TXEN:BPBM:

LEVEL 1,2

:MEASURE:FLEXRAY:TRANSMITTER:TXEN:BPBM: LEVEL? -> :MEASURE:FLEXRAY:TRANSMITTER: TXEN:BPBM:LEVEL 2.000E+00,1.000E+00

# :MEASure:FLEXray:TRANsmitter:TXEN:

#### BPBM: TRACe

Function Sets the BPBM trace of the FLEXRAY transmitter waveform enable data or queries the current setting.

Syntax :MEASure:FLEXray:TRANsmitter:TXEN:BPBM:

TRACe {<NRf>}

:MEASure:FLEXray:TRANsmitter:TXEN:BPBM:

TRACe?

< NRf > = 1 to 8

Example :MEASURE:FLEXRAY:TRANSMITTER:TXEN:BPBM:

TRACE 1

:MEASURE:FLEXRAY:TRANSMITTER:TXEN:BPBM: TRACE? -> :MEASURE:FLEXRAY:TRANSMITTER:

TXEN:BPBM:TRACE 1

# :MEASure:FLEXray:TRANsmitter:TXEN: ENABle?

Function Queries all settings in the FLEXRAY transmitter waveform enable data.

Syntax :MEASure:FLEXray:TRANsmitter:TXEN:

ENABle?

Example :MEASURE:FLEXRAY:TRANSMITTER:TXEN:

ENABLE? -> :MEASURE:FLEXRAY:
TRANSMITTER:TXEN:ENABLE:

LEVEL 2.000E+00,1.000E+00;TRACE 1

# :MEASure:FLEXray:TRANsmitter:TXEN: ENABle:LEVel

Function Sets the level of the FLEXRAY transmitter waveform enable data.

Syntax :MEASure:FLEXray:TRANsmitter:TXEN:

ENABle:LEVel {<NRf>,<NRf>|<Voltage>,
<Voltage>|<Current>|<Current>}

:MEASure:FLEXray:TRANsmitter:TXEN:

ENABle:LEVel?

<NRf>, <Voltage>, <Current> = See the SB5000
User's Manual

Example :MEASURE:FLEXRAY:TRANSMITTER:TXEN:

ENABLE: LEVEL 1,2

:MEASURE:FLEXRAY:TRANSMITTER:TXEN: ENABLE:LEVEL? -> :MEASURE:FLEXRAY:

TRANSMITTER:TXEN:ENABLE: LEVEL 2.000E+00,1.000E+00

#### :MEASure:FLEXray:TRANsmitter:TXEN:

#### ENABle: TRACe

Function Sets the trace of the FLEXRAY transmitter waveform

enable data.

Syntax :MEASure:FLEXray:TRANsmitter:TXEN:

ENABle:TRACe {<NRf>}

:MEASure:FLEXray:TRANsmitter:TXEN:

ENABle:TRACe? <NRf> = 1 to 8

Example :MEASURE:FLEXRAY:TRANSMITTER:TXEN:

ENABLE: TRACE 1

:MEASURE:FLEXRAY:TRANSMITTER:TXEN:
ENABLE:TRACE? -> :MEASURE:FLEXRAY:
TRANSMITTER:TXEN:ENABLE:TRACE 1

#### :MEASure:FLEXray:TYPE

Function Queries the type of the FLEXRAY waveform

parameters.

Syntax :MEASure:FLEXray:TYPE {BUS|RECeiver|

TRANsmitter}

:MEASure:FLEXray:TYPE?
Example :MEASURE:FLEXRAY:TYPE BUS

:MEASURE:FLEXRAY:TYPE?

-> :MEASURE:FLEXRAY:TYPE BUS

#### :MEASure:HISTory:ABORt

Function Aborts the execution of the statistical processing of

the history data.

Syntax :MEASure:HISTory:ABORt Example :MEASURE:HISTORY:ABORT

## :MEASure:HISTory:EXECute

Function Executes the statistical processing of the history data.

This is an overlap command.

Syntax :MEASure:HISTory:EXECute
Example :MEASURE:HISTORY:EXECUTE

#### :MEASure:MODE

Function Sets the mode of the automated measurement of

waveform parameters or queries the current setting.

Syntax :MEASure:MODE {BASic|CONTinuous|CYCLe|

HISTory}

:MEASure:MODE?

Example : MEASURE: MODE BASIC

:MEASURE:MODE? -> :MEASURE:MODE BASIC

#### :MEASure:THReshold?

Function Queries all settings related to the threshold levels

of the automated measurement of waveform

parameters.

Syntax :MEASure:THReshold?

Example :MEASURE:THRESHOLD? -> :MEASURE:

THRESHOLD:TRACE1:AUTO PTOPEAK;
LHYSTERESIS:HYSTERESIS 1.000E+00:

LEVEL 0.000E+00;:MEASURE:THRESHOLD:

TRACE1: MODE AUTO; ULOWER:

RANGE 2.000E+00,1.000E+00;:MEASURE:

THRESHOLD:TRACE2:AUTO PTOPEAK; LHYSTERESIS:HYSTERESIS 1.000E+00;

LEVEL 0.000E+00;:MEASURE:THRESHOLD:

TRACE2: MODE AUTO; ULOWER:

RANGE 2.000E+00,1.000E+00;:MEASURE:

THRESHOLD:TRACE3:AUTO PTOPEAK;

LHYSTERESIS:HYSTERESIS 1.000E+00;

LEVEL 0.000E+00;:MEASURE:THRESHOLD:

TRACE3:MODE AUTO;ULOWER:

RANGE 2.000E+00,1.000E+00;:MEASURE:

THRESHOLD:TRACE4:AUTO PTOPEAK;

LHYSTERESIS: HYSTERESIS 1.000E+00;

LEVEL 0.000E+00;:MEASURE:THRESHOLD:

TRACE4: MODE AUTO; ULOWER:

RANGE 2.000E+00,1.000E+00;:MEASURE:

THRESHOLD: TRACE5: AUTO PTOPEAK;

LHYSTERESIS: HYSTERESIS 1.000E+00;

LEVEL 0.000E+00;:MEASURE:THRESHOLD:

TRACE5: MODE AUTO; ULOWER:

RANGE 2.000E+00,1.000E+00;:MEASURE:

THRESHOLD:TRACE6:AUTO PTOPEAK;

LHYSTERESIS: HYSTERESIS 1.000E+00;

LEVEL 0.000E+00;:MEASURE:THRESHOLD:
TRACE6:MODE AUTO;ULOWER:RANGE .....

Description This command is valid when the <Parameter> of :MEASure:TRACe<x>:AREA<x>:<Parameter> is not

RISE or FALL.

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#### :MEASure:THReshold:TRACe<x>?

Function Queries the threshold levels of the trace.

Syntax :MEASure:THReshold:TRACe<x>?

< x > = 1 to 8

Example :MEASURE:THRESHOLD:TRACE1? -> :MEASURE:

THRESHOLD:TRACE1:AUTO PTOPEAK;
LHYSTERESIS:HYSTERESIS 1.000E+00;
LEVEL 0.000E+00;:MEASURE:THRESHOLD:

TRACE1:MODE AUTO;ULOWER:
RANGE 1.000E+00,2.000E+00

Description This command is valid when the <Parameter> of

:MEASure:TRACe<x>:AREA<x>:<Parameter> is not

RISE or FALL.

#### :MEASure:THReshold:TRACe<x>:AUTO

Function Sets the detection mode when the auto setting of the threshold level is enabled or queries the current

setting.

Syntax :MEASure:THReshold:TRACe<x>:AUTO {HLOW|

PTOPeak }

:MEASure:THReshold:TRACe<x>:AUTO?

< x > = 1 to 8

Example :MEASURE:THRESHOLD:TRACE1:AUTO PTOPEAK

:MEASURE:THRESHOLD:TRACE1:AUTO?
-> :MEASURE:THRESHOLD:TRACE1:

AUTO PTOPEAK

Description This command is valid when the <Parameter> of

:MEASure:TRACe<x>:AREA<x>:<Parameter> is not

RISE or FALL.

#### :MEASure:THReshold:TRACe<x>:

#### LHYSteresis?

Function Queries all settings related to the level and hysteresis

of the threshold level.

Syntax :MEASure:THReshold:TRACe<x>:

LHYSteresis? <x> = 1 to 8

Example :MEASURE:THRESHOLD:TRACE1:LHYSTERESIS?

-> :MEASURE:THRESHOLD:TRACE1: LHYSTERESIS:HYSTERESIS 1.000E+00;

LEVEL 0.000E+00

Description This command is valid when the <Parameter> of :MEASure:TRACe<x>:AREA<x>:<Parameter> is not

RISE or FALL.

#### :MEASure:THReshold:TRACe<x>:

#### LHYSteresis: HYSTeresis

Function Sets the hysteresis of the threshold level or queries

the current setting.

Syntax :MEASure:THReshold:TRACe<x>:

LHYSteresis:HYSTeresis {<NRf>}
:MEASure:THReshold:TRACe<x>:

LHYSteresis: HYSTeresis?

< x > = 1 to 8< NRf > = 0 to 4 (div)

Example :MEASURE:THRESHOLD:TRACE1:LHYSTERESIS:

HYSTERESIS 1

:MEASURE:THRESHOLD:TRACE1:LHYSTERESIS:
HYSTERESIS? -> :MEASURE:THRESHOLD:
TRACE1:LHYSTERESIS:HYSTERESIS 1.000E+00

Description This command is valid when the <Parameter> of :MEASure:TRACe<x>:AREA<x>:<Parameter> is not

RISE or FALL.

#### :MEASure:THReshold:TRACe<x>:

#### LHYSteresis: LEVel

Function Sets the level of the threshold level or queries the

current setting.

Syntax :MEASure:THReshold:TRACe<x>:

LHYSteresis:LEVel {<NRf>|<Voltage>|

<Current>}

:MEASure:THReshold:TRACe<x>:

LHYSteresis:LEVel?

< x > = 1 to 8

<NRf>, <Voltage>, and <Current> = See the SB5000

User's Manual.

Example :MEASURE:THRESHOLD:TRACE1:LHYSTERESIS:

LEVEL 1

:MEASURE:THRESHOLD:TRACE1:LHYSTERESIS: LEVEL? -> :MEASURE:THRESHOLD:TRACE1:

LHYSTERESIS:LEVEL 1.000E+00

Description This command is valid when the <Parameter> of

: MEASure: TRACe < x>: AREA < x>: < Parameter> is not

RISE or FALL.

#### :MEASure:THReshold:TRACe<x>:MODE

Function Sets the setup mode of the threshold level or queries the current setting.

Syntax :MEASure:THReshold:TRACe<x>:MODE {AUTO|

LHYSteresis | ULOWer }

:MEASure:THReshold:TRACe<x>:MODE?

< x > = 1 to 8

Example :MEASURE:THRESHOLD:TRACE1:

MODE LHYSTERESIS

:MEASURE:THRESHOLD:TRACE1:MODE?
-> :MEASURE:THRESHOLD:TRACE1:

MODE LHYSTERESIS

Description This command is valid when the <Parameter> of :MEASure:TRACe<x>:AREA<x>:<Parameter> is not

RISE or FALL.

# :MEASure:THReshold:TRACe<x>:ULOWer?

Queries all settings related to the upper and lower limits of the threshold level.

Syntax :MEASure:THReshold:TRACe<x>:ULOWer?

< x > = 1 to 8

Example :MEASURE:THRESHOLD:TRACE1:ULOWER?

-> :MEASURE:THRESHOLD:TRACE1:ULOWER:

RANGE 2.000E+00,1.000E+00

Description This command is valid when the <Parameter> of :MEASure:TRACe<x>:AREA<x>:<Parameter> is not

RISE or FALL.

# :MEASure:THReshold:TRACe<x>:ULOWer:

#### **RANGe**

Sets the upper and lower limits of the threshold level Function

or queries the current setting.

Syntax :MEASure:THReshold:TRACe<x>:ULOWer:

> RANGe { (<NRf>, <NRf>) | (<Voltage>, <Voltage>) | (<Current>, <Current>) }

:MEASure:THReshold:TRACe<x>:ULOWer:

RANGe? < x > = 1 to 8

<NRf>, <Voltage>, and <Current> = See the SB5000

User's Manual.

Example :MEASURE:THRESHOLD:TRACE1:ULOWER:

RANGE 1.2

:MEASURE:THRESHOLD:TRACE1:ULOWER:RANGE?

-> :MEASURE:THRESHOLD:TRACE1:ULOWER:

RANGE 2.000E+00,1.000E+00

Description This command is valid when the <Parameter> of :MEASure:TRACe<x>:AREA<x>:<Parameter> is not

RISE or FALL.

#### :MEASure:TRACe<x>?

Function Queries all settings related to the trace.

Syntax :MEASure:TRACe<x>?

< x > = 1 to 8

Example :MEASURE:TRACE1? ->: MEASURE:TRACE1:

AREA1:BURST:STATE 0;:MEASURE:TRACE1: AREA1:CMEAN:STATE 0;:MEASURE:TRACE1:

AREA1: CMODE 0; COUNT: STATE 0; : MEASURE:

TRACE1:AREA1:CRMS:STATE 0;:MEASURE:

TRACE1:AREA1:CSDEVIATION:STATE 0;:

MEASURE: TRACE1: AREA1: DELAY: MEASURE:

COUNT 1; POLARITY RISE; : MEASURE: TRACE1:

AREA1: DELAY: REFERENCE: COUNT 1;

POLARITY RISE; TRACE 1; : MEASURE: TRACE1:

AREA1:DELAY:SOURCE TRIGGER;STATE 0;:

MEASURE: TRACE1: AREA1: DPROXIMAL:

MODE PERCENT; PERCENT 10,90;

UNIT -3.0000000E+00,3.0000000E+00;:

MEASURE:TRACE1:AREA1:DT:STATE 0;:

MEASURE: TRACE1: AREA1: DUTYCYCLE:

STATE 0;:MEASURE:TRACE1:AREA1:FALL:

STATE 0;:MEASURE:TRACE1:AREA1:

FREQUENCY:STATE 0;:MEASURE:TRACE1:

AREA1:HIGH:STATE 0;:MEASURE:TRACE1:

AREA1:HILOW:STATE 0;:MEASURE:TRACE1: AREA1:LOW:STATE 0;:MEASURE:TRACE1:

AREA1:MAXIMUM:STATE 0;:MEASURE:TRACE1:

AREA1:MEAN:STATE 0;:MEASURE:TRACE1:

AREA1:METHOD AUTO; MINIMUM:STATE 0;:

MEASURE: TRACE1: AREA1: NOVERSHOOT:

STATE 0::MEASURE:TRACE1:AREA1:NWIDTH:

STATE 0;:MEASURE:TRACE1:AREA1:

PERFREQUENCY:STATE 0;:MEASURE:TRACE1:

AREA1:PERIOD:STATE 0;:MEASURE:TRACE1:

AREA1: POVERSHOOT: STATE 0; : MEASURE:

TRACE1:AREA1:PTOPEAK:STATE 0;:

MEASURE:TRACE1:AREA1:PWIDTH:STATE 0;:

MEASURE:TRACE1:AREA1:RISE:STATE 0;:

MEASURE:TRACE1:AREA1:RMS:STATE 0 .....

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#### :MEASure:TRACe<x>:AREA<x>?

Function Queries all settings related to the area.

Syntax :MEASure:TRACe<x>:AREA<x>?

<x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2

Example :MEASURE:TRACE1:AREA1? -> :MEASURE:

TRACE1:AREA1:BURST:STATE 0;:MEASURE:
TRACE1:AREA1:CMEAN:STATE 0;:MEASURE:
TRACE1:AREA1:CMODE 0;COUNT:STATE 0;:
MEASURE:TRACE1:AREA1:CRMS:STATE 0;:
MEASURE:TRACE1:AREA1:CSDEVIATION:

STATE 0;:MEASURE:TRACE1:AREA1:DELAY:
MEASURE:COUNT 1;POLARITY RISE;:MEASURE:
TRACE1:AREA1:DELAY:REFERENCE:COUNT 1;

POLARITY RISE; TRACE 1; :MEASURE: TRACE1:
AREA1: DELAY: SOURCE TRIGGER; STATE 0;:

MEASURE:TRACE1:AREA1:DPROXIMAL:
MODE PERCENT;PERCENT 10,90;

UNIT -3.0000000E+00,3.0000000E+00;:

MEASURE:TRACE1:AREA1:DT:STATE 0;:
MEASURE:TRACE1:AREA1:DUTYCYCLE:

STATE 0;:MEASURE:TRACE1:AREA1:FALL:
STATE 0;:MEASURE:TRACE1:AREA1:

FREQUENCY:STATE 0;:MEASURE:TRACE1:
AREA1:HIGH:STATE 0;:MEASURE:TRACE1:

AREA1:HIGH:STATE 0;:MEASURE:TRACE1:
AREA1:HILOW:STATE 0;:MEASURE:TRACE1:
AREA1:LOW:STATE 0;:MEASURE:TRACE1:

AREA1:MAXIMUM:STATE 0;:MEASURE:TRACE1:

AREA1:MEAN:STATE 0;:MEASURE:TRACE1:
AREA1:METHOD AUTO;MINIMUM:STATE 0;:
MEASURE:TRACE1:AREA1:NOVERSHOOT:

STATE 0;:MEASURE:TRACE1:AREA1:NWIDTH:

STATE 0;:MEASURE:TRACE1:AREA1:
PERFREQUENCY:STATE 0;:MEASURE:TRACE1:
AREA1:PERIOD:STATE 0;:MEASURE:TRACE1:

AREA1:POVERSHOOT:STATE 0 .....

# :MEASure:TRACe<x>:AREA<x>:ALL

Function Turns ON/OFF all waveform parameters.

Syntax :MEASure:TRACe<x>:AREA<x>:ALL

{<Boolean>}

<x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2

Example : MEASURE: TRACE1: AREA1: ALL ON

#### :MEASure:TRACe<x>:AREA<x>:

#### <Parameter>?

Function Queries all settings related to the waveform

parameter.

Syntax :MEASure:TRACe<x>:AREA<x>:<Parameter>?

<x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2

<Parameter> = {BURSt|CMEan|COUNt|CRMS| CSDeviation|DELay|DT|DUTYcycle|FALL| FREQuency|HIGH|HILow|LOW|MAXimum|MEAN|

MINimum|NOVershoot|NWIDth|PERFrequency|
PERiod|POVershoot|PTOPeak|PWIDth|RISE|
RMS|SDEViation|TYCInteg|TYINteg|V1|V2}

Example (The following is an example for the maximum value

of trace 1 and area 1.)

:MEASURE:TRACE1:AREA1:MAXIMUM?
-> :MEASURE:TRACE1:AREA1:MAXIMUM:

STATE 0

#### :MEASure:TRACe<x>:AREA<x>:

#### <Parameter>: COUNt?

Function Queries the continuous statistical processing count of

the waveform parameter.

Syntax :MEASure:TRACe<x>:AREA<x>:<Parameter>:

COUNt?

<x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2

<Parameter> = {BURSt|CMEan|COUNt|CRMS|
CSDeviation|DELay|DT|DUTYcycle|FALL|
FREQuency|HIGH|HILow|LOW|MAXimum|MEAN|
MINimum|NOVershoot|NWIDth|PERFrequency|
PERiod|POVershoot|PTOPeak|PWIDth|RISE|
RMS|SDEViation|TYCInteq|TYINteq|V1|V2}

Example (The following is an example for the maximum value

of trace 1 and area 1.)

:MEASURE:TRACE1:AREA1:MAXIMUM:COUNT?
-> :MEASURE:TRACE1:AREA1:MAXIMUM:

COUNT 0

# :MEASure:TRACe<x>:AREA<x>:<Parameter>: {MAXimum | MEAN | MINimum | SDEViation}? Function Queries the statistical value of the waveform parameter. Syntax :MEASure:TRACe<x>:AREA<x>:<Parameter>:

{MAXimum | MEAN | MINimum | SDEViation}? <x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2

<Parameter> = {BURSt|CMEan|COUNt|CRMS| CSDeviation|DELay|DT|DUTYcycle|FALL| FREQuency|HIGH|HILow|LOW|MAXimum|MEAN| MINimum|NOVershoot|NWIDth|PERFrequency| PERiod|POVershoot|PTOPeak|PWIDth|RISE| RMS|SDEViation|TYCInteg|TYINteg|V1|V2}

Example (The following is an example for the maximum value.)

:MEASURE:TRACE1:AREA1:MAXIMUM:
MAXIMUM? -> :MEASURE:TRACE1:AREA1:
MAXIMUM:MAXIMUM 1.000E+00

#### :MEASure:TRACe<x>:AREA<x>:

#### <Parameter>:STATe

Function Turns ON/OFF the waveform parameter or queries the current setting.

Syntax :MEASure:TRACe<x>:AREA<x>:<Parameter>:

STATe {<Boolean>}

:MEASure:TRACe<x>:AREA<x>:<Parameter>:

STATe?

<x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2

<Parameter> = {BURSt|CMEan|COUNt|CRMS| CSDeviation|DELay|DT|DUTYcycle|FALL| FREQuency|HIGH|HILow|LOW|MAXimum|MEAN| MINimum|NOVershoot|NWIDth|PERFrequency| PERiod|POVershoot|PTOPeak|PWIDth|RISE| RMS|SDEViation|TYCInteg|TYINteg|V1|V2}

Example (The following is an example for the maximum value of trace 1 and area 1.)

:MEASURE:TRACE1:AREA1:MAXIMUM:STATE ON
:MEASURE:TRACE1:AREA1:MAXIMUM:STATE?
-> :MEASURE:TRACE1:AREA1:MAXIMUM:
STATE 1

#### :MEASure:TRACe<x>:AREA<x>:

#### <Parameter>: VALue?

Function Queries the automated measured value of the waveform parameter.

 $\verb|Syntax| : \verb|MEASure:TRACe<x>:AREA<x>:<| Parameter>:$ 

VALue? {<NRf>} <x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2

<Parameter> = {BURSt|CMEan|COUNt|CRMS|
CSDeviation|DELay|DT|DUTYcycle|FALL|
FREQuency|HIGH|HILow|LOW|MAXimum|MEAN|
MINimum|NOVershoot|NWIDth|PERFrequency|
PERiod|POVershoot|PTOPeak|PWIDth|RISE|
RMS|SDEViation|TYCInteg|TYINteg|V1|V2}

<NRf> = 1 to 100000

Example (The following is an example for the maximum value

of trace 1 and area 1.)
:MEASURE:TRACE1:AREA1:MAXIMUM:VALUE?

-> :MEASURE:TRACE1:AREA1:MAXIMUM:

VALUE 1.000E+00

Description • If the measurement is not possible, "NAN (Not A Number" is returned.

 <NRf> indicates the nth automated measured value in the past.

In the case of cycle statistical processing, specify the <NRf> cycle from the left of the screen.

To specify the oldest automated measured value, specify 1.

If <NRf> is omitted, the latest automated measured value is specified.

If the value corresponding to the relevant count is not present, "NAN" (Not A Number)" is returned.

# :MEASure:TRACe<x>:AREA<x>:DELay: MEASure?

Function Queries all settings related to the measurement conditions of the source waveform of the delay measurement between channels.

Syntax :MEASure:TRACe<x>:AREA<x>:DELay:

MEASure?

<x> of TRACe<x> = 1 to 8
<x> of ARFA<x> = 1 or 2

Example :MEASURE:TRACE1:AREA1:DELAY:MEASURE?

-> :MEASURE:TRACE1:AREA1:DELAY:MEASURE:

COUNT 1; POLARITY RISE

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#### :MEASure:TRACe<x>:AREA<x>:DELay:

#### MEASure: COUNt

Function Sets the edge detection count of the source waveform

of the delay measurement between channels or

queries the current setting.

Syntax :MEASure:TRACe<x>:AREA<x>:DELay:

MEASure:COUNt {<NRf>}

:MEASure:TRACe<x>:AREA<x>:DELay:

MEASure: COUNt? <x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2 <NRf> = 1 to 10

Example :MEASURE:TRACE1:AREA1:DELAY:MEASURE:

COUNT 1

:MEASURE:TRACE1:AREA1:DELAY:MEASURE:
COUNT? -> :MEASURE:TRACE1:AREA1:DELAY:

MEASURE: COUNT 1

# :MEASure:TRACe<x>:AREA<x>:DELay:

#### MEASure: POLarity

Function Sets the polarity of the source waveform of the delay

measurement between channels or queries the

current setting.

Syntax :MEASure:TRACe<x>:AREA<x>:DELay:

MEASure:POLarity {FALL|RISE}
:MEASure:TRACe<x>:AREA<x>:DELay:

MEASure: POLarity? <x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2

Example :MEASURE:TRACE1:AREA1:DELAY:MEASURE:

POLARITY RISE

:MEASURE:TRACE1:AREA1:DELAY:MEASURE:
POLARITY? -> :MEASURE:TRACE1:AREA1:

DELAY:MEASURE:POLARITY RISE

#### :MEASure:TRACe<x>:AREA<x>:DELay:

#### REFerence?

Function Queries all settings related to the reference waveform

of the delay measurement between channels.

Syntax :MEASure:TRACe<x>:AREA<x>:DELay:

REFerence?

<x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2

Example :MEASURE:TRACE1:AREA1:DELAY:REFERENCE?

-> :MEASURE:TRACE1:AREA1:DELAY:

REFERENCE: COUNT 1; POLARITY FALL; TRACE 1

# :MEASure:TRACe<x>:AREA<x>:DELay:

#### REFerence: COUNt

Function Sets the edge detection count of the reference waveform of the delay measurement between

channels or queries the current setting.

Syntax :MEASure:TRACe<x>:AREA<x>:DELay:

REFerence:COUNt {<NRf>}

:MEASure:TRACe<x>:AREA<x>:DELay:

REFerence: COUNt? <x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2 <NRf> = 1 to 10

Example :MEASURE:TRACE1:AREA1:DELAY:REFERENCE:

COUNT 1

:MEASURE:TRACE1:AREA1:DELAY:REFERENCE:
COUNT? -> :MEASURE:TRACE1:AREA1:DELAY:

REFERENCE: COUNT 1

# :MEASure:TRACe<x>:AREA<x>:DELay:

#### REFerence: POLarity

Function Sets the polarity of the reference waveform of the delay measurement between channels or queries the

current setting.

Syntax :MEASure:TRACe<x>:AREA<x>:DELay:

REFerence:POLarity {FALL|RISE}
:MEASure:TRACe<x>:AREA<x>:DELay:

REFerence: POLarity? <x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2

Example :MEASURE:TRACE1:AREA1:DELAY:REFERENCE:

POLARITY FALL

:MEASURE:TRACE1:AREA1:DELAY:REFERENCE:
POLARITY? -> :MEASURE:TRACE1:AREA1:
DELAY:REFERENCE:POLARITY FALL

# :MEASure:TRACe<x>:AREA<x>:DELay:

REFerence: TRACe

Function Sets the trace of the reference waveform of the delay measurement between channels or queries the

current setting.

Syntax :MEASure:TRACe<x>:AREA<x>:DELay:

REFerence: TRACe { < NRf > | A < y > | B < y > | C < y > |

D<y> }

:MEASure:TRACe<x>:AREA<x>:DELay:

REFerence: TRACe? <x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2

<NRf> = 1 to 8 <y> = 0 to 7

Example :MEASURE:TRACE1:AREA1:DELAY:REFERENCE:

TRACE 1

:MEASURE:TRACE1:AREA1:DELAY:REFERENCE:
TRACE? -> :MEASURE:TRACE1:AREA1:DELAY:
REFERENCE:TRACE 1

Description For the SB5310, only {<NRf>|A<y>} are valid.

# :MEASure:TRACe<x>:AREA<x>:DELay: SOURce

Function Sets the reference of the delay measurement

between channels or queries the current setting.

Syntax :MEASure:TRACe<x>:AREA<x>:DELay:SOURce

{TRACe | TRIGger}

:MEASure:TRACe<x>:AREA<x>:DELay:SOURce?

<x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2

Example :MEASURE:TRACE1:AREA1:DELAY:

SOURCE TRACE

:MEASURE:TRACE1:AREA1:DELAY:SOURCE?
-> :MEASURE:TRACE1:AREA1:DELAY:

SOURCE TRACE

# :MEASure:TRACe<x>:AREA<x>:DPRoximal?

Function Queries all settings related to the distal and proximal

values

 $\verb|Syntax| : \verb|MEASure:TRACe<x>:AREA<x>:DPRoximal|| \\$ 

<x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2

Example :MEASURE:TRACE1:AREA1:DPROXIMAL?

-> ; MEASURE:TRACE1:AREA1:DPROXIMAL:
MODE PERCENT; PERCENT 10,20; UNIT

1.000E+00,1.000E+00

Description This command is valid when the <Parameter> of

:MEASure:TRACe<x>:AREA<x>:<Parameter> is

RISE or FALL.

# :MEASure:TRACe<x>:AREA<x>:DPRoximal: MODE

Function Sets the unit of the distal and proximal values or

queries the current setting.

Syntax :MEASure:TRACe<x>:AREA<x>:DPRoximal:

MODE {PERCent|UNIT}

:MEASure:TRACe<x>:AREA<x>:DPRoximal:

MODE?

<x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2

Example :MEASURE:TRACE1:AREA1:DPROXIMAL:

MODE PERCENT

:MEASURE:TRACE1:AREA1:DPROXIMAL:MODE?
-> :MEASURE:TRACE1:AREA1:DPROXIMAL:

MODE PERCENT

Description This command is valid when the <Parameter> of :MEASure:TRACe<x>:AREA<x>:<Parameter> is

RISE or FALL.

# :MEASure:TRACe<x>:AREA<x>:DPRoximal: PERCent

Function Sets the distal and proximal values as a percentage

or queries the current setting.

Syntax :MEASure:TRACe<x>:AREA<x>:DPRoximal:

PERCent {<NRf>,<NRf>}

:MEASure:TRACe<x>:AREA<x>:DPRoximal:

PERCent?

<x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2 <NRf> = 0 to 100 (%)

Example :MEASURE:TRACE1:AREA1:DPROXIMAL:

PERCENT 10,90

:MEASURE:TRACE1:AREA1:DPROXIMAL: PERCENT? -> :MEASURE:TRACE1:AREA1:

DPROXIMAL:PERCENT 10,90

Description This command is valid when the <Parameter> of :MEASure:TRACe<x>:AREA<x>:<Parameter> is

RISE or FALL.

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#### :MEASure:TRACe<x>:AREA<x>:DPRoximal:

#### UNTT

Function Sets the distal and proximal values in the specified

unit or queries the current setting.

Syntax :MEASure:TRACe<x>:AREA<x>:DPRoximal:

> UNIT { (<NRf>, <NRf>) | (<Voltage>, <Voltage>) | (<Current>, <Current>) }

:MEASure:TRACe<x>:AREA<x>:DPRoximal:

UNIT?

<x> of TRACe<x> = 1 to 8 <x> of AREA<x> = 1 or 2

<NRf>, <Voltage>, and <Current> = See the SB5000

User's Manual.

Example :MEASURE:TRACE1:AREA1:DPROXIMAL:

UNIT 1,-1

:MEASURE:TRACE1:AREA1:DPROXIMAL:UNIT?

-> :MEASURE:TRACE1:AREA1:DPROXIMAL:

UNIT -1.000E+00,1.000E+00

Description This command is valid when the <Parameter> of :MEASure:TRACe<x>:AREA<x>:<Parameter> is

RISE or FALL.

#### :MEASure:TRACe<x>:AREA<x>:METHod

Function Sets the method for detecting the High/Low level for

automated measurement of waveform parameters or

queries the current setting.

:MEASure:TRACe<x>:AREA<x>:METHOd {AUTO| Syntax

HISTogram | MAXMin }

:MEASure:TRACe<x>:AREA<x>:METHod?

TRACe < x > : < x > = 1 to 8AREA < x > : < x > = 1, 2

Example :MEASURE:TRACE1:AREA1:METHOD AUTO

: MEASURE: TRACE1: AREA1: METHOD?

-> :MEASURE:TRACE1:AREA1:METHOD AUTO

#### :MEASure:TRANge<x> (Time Range)

Function Sets the measurement range or queries the current

setting.

:MEASure:TRANge<x> {<NRf>,<NRf>} Syntax

:MEASure:TRANge<x>?

< x > = 1 or 2

<NRf> = -5 to 5 (div)

Example : MEASURE: TRANGE1 -5,0

:MEASURE:TRANGE1? -> :MEASURE: TRANGE1 0.000E+00,-5.000E+00

#### :MEASure:WAIT?

Function Waits for the completion of the automated

measurement with a timeout option.

MEASure:WAIT? {<NRf>} Syntax

<NRf> = 1 to 360000 (timeout value, in units of 10

Example MEASURE: WAIT 100? -> : MEASURE: WAIT 1

Description If the execution of the automated measurement

completes within the timeout value, 0 is returned; if it is not complete or automated measurement is not

being executed, 1 is returned.

Even if the timeout value is set long, 0 is returned when the execution of the automated measurement

is complete.

#### :MEASure:WINDow<x>

Sets the measurement source window of the area or Function

queries the current setting.

Syntax :MEASure:WINDow<x> {MAIN | Z1 | Z2}

:MEASure:WINDow<x>?

< x > = 1 or 2

Example : MEASURE: WINDOW1 MAIN

:MEASURE:WINDOW1? -> :MEASURE:

WINDOW1 MAIN

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# 5.21 REFerence Group

#### :REFerence<x>?

Function Queries all settings related to the reference.

Syntax :REFerence<x>?

< x > = 1 to 4

Example :REFERENCE1? -> :REFERENCE1:

SELECT REFERENCE; DISPLAY 1; INVERT 0; LABEL: DEFINE "REF1"; MODE 1; : REFERENCE1:

POSITION 1.000E+00; SVALUE 1

#### :REFerence<x>:DISPlay

Function Turns ON/OFF the display of the reference or queries

the current setting.

Syntax :REFerence<x>:DISPlay {<Boolean>}

:REFerence<x>:DISPlay?

< x > = 1 to 4

Example : REFERENCE1: DISPLAY ON

:REFERENCE1:DISPLAY? -> :REFERENCE1:

DISPLAY 1

#### :REFerence<x>:INVert

Function Sets the inverted display of the reference or queries

the current setting.

Syntax :REFerence<x>:INVert {<Boolean>}

:REFerence<x>:INVert?

< x > = 1 to 4

Example :REFERENCE1:INVERT ON

:REFERENCE1:INVERT? -> :REFERENCE1:

INVERT 1

#### :REFerence<x>:LABel?

Function Queries all settings related to the waveform label of

the reference.

Syntax :REFerence<x>:LABel?

< x > = 1 to 4

Example :REFERENCE1:LABEL? -> :REFERENCE1:

LABEL:DEFINE "REF1"; MODE 1

# :REFerence<x>:LABel[:DEFine]

Function Sets the waveform label of the reference or queries

the current setting.

Syntax :REFerence<x>:LABel[:DEFine] {<String>}

:REFerence<x>:LABel[:DEFine]?

< x > = 1 to 4

<String> = Up to 8 characters

Example :REFERENCE1:LABEL:DEFINE "REF1"

:REFERENCE1:LABEL:DEFINE?

-> :REFERENCE1:LABEL:DEFINE "REF1"

#### :REFerence<x>:LABel:MODE

Function Turns ON/OFF the waveform label display of the

reference or queries the current setting.

Syntax :REFerence<x>:LABel:MODE {<Boolean>}

:REFerence<x>:LABel:MODE?

< x > = 1 to 4

Example :REFERENCE1:LABEL:MODE ON

:REFERENCE1:LABEL:MODE? -> :REFERENCE1:

LABEL: MODE 1

#### :REFerence<x>:LOAD

Function Loads the waveform to the reference.

Syntax :REFerence<x>:LOAD {<NRf>}

< x > = 1 to 4

<NRf> = 1 to12 (1 to 8 are traces and 9 to 12 are

internal memories)

Example :REFERENCE1:LOAD 1

#### :REFerence<x>:POSition

Function Sets the vertical position of the reference or queries

the current setting.

Syntax :REFerence<x>:POSition {<NRf>}

:REFerence<x>:POSition?

< x > = 1 to 4

<NRf> = -4 to 4 (div)

Example :REFERENCE1:POSITION 1

:REFERENCE1:POSITION? -> :REFERENCE1:

POSITION 1.000E+00

#### :REFerence<x>:SELect

Function Sets the waveform (computation or reference) to the

computation channel or queries the current setting.

Syntax :REFerence<x>:SELect {MATH|REFerence}

:REFerence<x>:SELect?

< x > = 1 to 4

Example :REFERENCE1:SELECT MATH

:REFERENCE1:SELECT? -> :REFERENCE1:

SELECT MATH

# :REFerence<x>:SVALue (Scale VALUE)

Function Turns ON/OFF the scale display of the reference or

queries the current setting.

Syntax :REFerence<x>:SVALue {<Boolean>}

:REFerence<x>:SVALue?

< x > = 1 to 4

Example : REFERENCE1: SVALUE ON

:REFERENCE1:SVALUE? -> :REFERENCE1:

SVALUE 1

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# 5.22 SEARch Group

#### :SEARch<x>?

Function Queries all settings related to the search function.

Syntax :SEARch<x>?

< x > = 1 or 2

Example SEARCH1? -> :SEARCH1:CANBUS:SETUP:

ACK DONTCARE; BRATE 1000000; DATA:

BORDER BIG; CONDITION BETWEEN;

XXXXXXXXXXX";SIGN UNSIGN;:SEARCH1:

MMMMMMMMMM , . DDARCIII . CHVDOD .

SETUP:IDSTD:PATTERN "XXXXXXXXXXX";:

SEARCH1:CANBUS:SETUP:MODE EFRAME;

MSIGNAL:MESSAGE:MODE 1;:SEARCH1:CANBUS:

SETUP:MSIGNAL:SELECT MESSAGE;SIGNAL:

CONDITION BETWEEN; DATA1 0.0000000E+00;

DATA2 0.0000000E+00; MODE 1;: SEARCH1:

CANBUS:SETUP:RECESSIVE HIGH; RTR DATA;

SPOINT 62.5E+00; TRACE 1;:SEARCH1:CLOCK:

SOURCE NONE;:SEARCH1:DECIMATION 1;

FLEXRAY:BRATE 5000000;ERROR:BSS 1;CRC 1;CRCBUS A;FES 1;TRACE 1;:SEARCH1:

I, CRCDOS A, FES I, IRACE I, SEAR

 $\verb|FLEXRAY:IDDATA:CCOUNT:|\\$ 

CONDITION BETWEEN; COUNT1 10; COUNT2 63;:

SEARCH1:FLEXRAY:IDDATA:DATA:BORDER BIG;

CONDITION BETWEEN; DATA1 1.0000000E+00;

DATA2 1.0000000E+00; DPOSITION 1;

DSIZE 1;MSBLSB 1,0;PATTERN "10101001";

SIGN SIGN;:SEARCH1:FLEXRAY:IDDATA:FID:

CONDITION BETWEEN; ID1 100; ID2 2047;:

SEARCH1: FLEXRAY: IDDATA: INDICATOR:
CONDITION DONTCARE: NFRAME DONTCARE:

PPREAMBLE DONTCARE; STFRAME DONTCARE;

SYFRAME DONTCARE; : SEARCH1: FLEXRAY:

MODE FSTART; TRACE 1....

#### :SEARch<x>:ABORt

Function Aborts the search.

Syntax :SEARch<x>:ABORt

< x > = 1 or 2

Example :SEARCH1:ABORT

#### SEARch<x>: CANBus?

Function Queries all settings related to the CAN bus signal

search.

Syntax :SEARch<x>:CANBus?

< x > = 1 or 2

Example :SEARCH1:CANBUS? -> :SEARCH1:CANBUS:

SETUP: ACK DONTCARE; BRATE 1000000; DATA:

BORDER BIG; CONDITION BETWEEN;

DATA1 0.0000000E+00;DATA2 255.00000E+00;

DLC 8; MSBLSB 1,7; PATTERN "XXXXXXXXXXXXXX

XXXXXXXXXXX";SIGN UNSIGN;:SEARCH1:

 $\verb|XXXXXXXXXXXXXXXX"|; : SEARCH1: CANBUS: \\$ 

SETUP: IDSTD: PATTERN "XXXXXXXXXXX";:

SEARCH1:CANBUS:SETUP:MODE EFRAME;
MSIGNAL:MESSAGE:MODE 1;:SEARCH1:CANBUS:

SETUP:MSIGNAL:SELECT MESSAGE;SIGNAL:

CONDITION BETWEEN; DATA1 1.0000000E+00;

DATA2 1.0000000E+00; MODE 1;: SEARCH1:

CANBUS:SETUP:RECESSIVE HIGH;RTR DATA;

SPOINT 62.5E+00; TRACE 1

#### :SEARch<x>:CANBus:SETup?

Function Queries all settings related to the CAN bus signal search setup.

Syntax :SEARch<x>:CANBus:SETup?

< x > = 1 or 2

Example :SEARCH1:CANBUS:SETUP? -> :SEARCH1:

CANBUS: SETUP: ACK DONTCARE;

BRATE 1000000; DATA: BORDER BIG;

CONDITION BETWEEN; DATA1 0.0000000E+00;

DATA2 255.00000E+00;DLC 8;MSBLSB 1,7;

XXXXX"::SEARCH1:CANBUS:SETUP:IDSTD:

PATTERN "XXXXXXXXXXX";:SEARCH1:CANBUS:

SETUP: MODE EFRAME; MSIGNAL: MESSAGE:

MODE 1;:SEARCH1:CANBUS:SETUP:MSIGNAL:

SELECT MESSAGE; SIGNAL:

CONDITION BETWEEN; DATA1 1.0000000E+00; DATA2 1.0000000E+00; MODE 1;:SEARCH1:

CANBUS:SETUP:RECESSIVE HIGH;RTR DATA;

SPOINT 62.5E+00; TRACE 1

#### :SEARch<x>:CANBus[:SETup]:ACK

Function Sets the ACK condition of the CAN bus signal search

or queries the current setting.

 $\verb|Syntax| : SEARch < x > : CANBus[:SETup]:$ 

ACK {ACK|ACKBoth|DONTcare|NONack} :SEARch<x>:CANBus[:SETup]:ACK?

< x > = 1 or 2

Example :SEARCH1:CANBUS:SETUP:ACK ACK

:SEARCH1:CANBUS:SETUP:ACK?

-> :SEARCH1:CANBUS:SETUP:ACK ACK

#### :SEARch<x>:CANBus[:SETup]:BRATe

Function Sets the bit rate (data transfer rate) of the CAN bus

signal search or queries the current setting.

Syntax :SEARch<x>:CANBus[:SETup]:
BRATe {<NRf>|USER,<NRf>}

:SEARch<x>:CANBus[:SETup]:BRATe?

< x > = 1 or 2

<NRf> =33300, 83300, 125000, 250000, 500000,

1000000

<NRf> of USER = See the User's Manual (IM701361-

01E).

Example :SEARCH1:CANBUS:SETUP:BRATE 83300

:SEARCH1:CANBUS:SETUP:BRATE?

-> :SEARCH1:CANBUS:SETUP:BRATE 83300

#### :SEARch<x>:CANBus[:SETup]:DATA?

Function Queries all settings related to the CAN bus signal

search data.

Syntax :SEARch<x>:CANBus[:SETup]:DATA?

< x > = 1 or 2

Example :SEARCH1:CANBUS:SETUP:DATA?

-> :SEARCH1:CANBUS:SETUP:DATA: BORDER BIG;CONDITION TRUE;

DATA1 0.0000000E+00;

DATA2 255.00000E+00;DLC 8;MSBLSB 7,0; PATTERN "100101100101100001110100010100

1000010011010101111101111101111100";

SIGN UNSIGN

# :SEARch<x>:CANBus[:SETup]:DATA:BORDer

Function Sets the byte order of the CAN bus signal search

data or queries the current setting.

Syntax :SEARch<x>:CANBus[:SETup]:DATA:

BORDer {BIG|LITTle}

:SEARch<x>:CANBus[:SETup]:DATA:BORDer?

< x > = 1 or 2

Example :SEARCH1:CANBUS:SETUP:DATA:BORDER BIG

:SEARCH1:CANBUS:SETUP:DATA:BORDER?

-> :SEARCH1:CANBUS:SETUP:DATA:

BORDER BIG

# :SEARch<x>:CANBus[:SETup]:DATA:

#### CONDition

Function Sets the data condition of the CAN bus signal search

or queries the current setting.

Syntax :SEARch<x>:CANBus[:SETup]:DATA:

CONDition {BETWeen|DONTcare|FALSe|

GTHan | LTHan | ORANge | TRUE }

:SEARch<x>:CANBus[:SETup]:DATA:

CONDition?
<x> = 1 or 2

Example :SEARCH1:CANBUS:SETUP:DATA:

CONDITION BETWEEN

:SEARCH1:CANBUS:SETUP:DATA:CONDITION?

-> :SEARCH1:CANBUS:SETUP:DATA:

CONDITION BETWEEN

## :SEARch<x>:CANBus[:SETup]:DATA:DATA<x>

Function Sets the comparison data of the CAN bus signal search data or queries the current setting.

Syntax :SEARch<x>:CANBus[:SETup]:DATA:

DATA<x> {<NRf>}

:SEARch<x>:CANBus[:SETup]:DATA:DATA<x>?

<x> of SEARch<x> = 1 or 2
<x> of DATA<x> = 1 or 2

<NRf> = See the User's Manual (IM701361-01E).

Example :SEARCH1:CANBUS:SETUP:DATA:DATA1 1

:SEARCH1:CANBUS:SETUP:DATA:DATA1?
-> :SEARCH1:CANBUS:SETUP:DATA:

DATA1 1.000000E+00

DATA: CONDition GTHan is specified.

Use:SEARch<x>:CANBus[:SETup]:DATA:
 DATA2 when:SEARch<x>:CANBus[:SETup]:
 DATA:CONDition LTHan is specified.

Use:SEARch<x>:CANBus[:SETup]:DATA:
 DATA1 to set the smaller value and :SEARch<x>:
 CANBus[:SETup]:DATA:DATA2 to set the larger value when :SEARch<x>:CANBus[:SETup]:
 DATA:CONDition BETWeen|ORANge is specified.

#### :SEARch<x>:CANBus[:SETup]:DATA:DLC

Function Sets the number of valid bytes (DLC) of the CAN bus signal search data or queries the current setting.

Syntax :SEARch<x>:CANBus[:SETup]:DATA:

DLC {<NRf>}

:SEARch<x>:CANBus[:SETup]:DATA:DLC?

< x > = 1 or 2< NRf > = 0 to 8

Example :SEARCH1:CANBUS:SETUP:DATA:DLC 0

:SEARCH1:CANBUS:SETUP:DATA:DLC?

-> :SEARCH1:CANBUS:SETUP:DATA:DLC 0

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#### :SEARch<x>:CANBus[:SETup]:DATA:HEXA

Function Sets the CAN bus signal search data in hexadecimal notation.

Syntax :SEARch<x>:CANBus[:SETup]:DATA:

HEXA {<String>}

< x > = 1 or 2

<String> = Up to 16 characters by combining '0' to 'F'

and 'X' (in one-byte unit)

Example :SEARCH1:CANBUS:SETUP:DATA:HEXA "A9"

#### :SEARch<x>:CANBus[:SETup]:DATA:MSBLsb

Function Sets the MSB and LSB bits of the CAN bus signal search data or queries the current setting.

search data or queries the current setting.

:SEARch<x>:CANBus[:SETup]:DATA:MSBLsb?

< x > = 1 or 2

<NRf> = See the User's Manual (IM701361-01E).

Example :SEARCH1:CANBUS:SETUP:DATA:MSBLSB 1,0

:SEARCH1:CANBUS:SETUP:DATA:MSBLSB?
-> :SEARCH1:CANBUS:SETUP:DATA:

MSBLSB 1,0

#### :SEARch<x>:CANBus[:SETup]:DATA:PATTern

Function Sets the CAN bus signal search data in binary notation or queries the current setting.

Syntax :SEARch<x>:CANBus[:SETup]:DATA:

PATTern {<String>}

:SEARch<x>:CANBus[:SETup]:DATA:PATTern?

< x > = 1 or 2

<String> = Up to 64 characters by combining '0,' '1,'

and 'X' (in one-byte unit)

Example :SEARCH1:CANBUS:SETUP:DATA:

PATTERN "11011111"

:SEARCH1:CANBUS:SETUP:DATA:PATTERN?

-> :SEARCH1:CANBUS:SETUP:DATA:

PATTERN "11011111"

#### :SEARch<x>:CANBus[:SETup]:DATA:SIGN

Function Sets the sign of the CAN bus signal search data or queries the current setting.

Syntax :SEARch<x>:CANBus[:SETup]:DATA:

SIGN {SIGN|UNSign}

:SEARch<x>:CANBus[:SETup]:DATA:SIGN?

< x > = 1 or 2

Example :SEARCH1:CANBUS:SETUP:DATA:SIGN SIGN

:SEARCH1:CANBUS:SETUP:DATA:SIGN?

-> :SEARCH1:CANBUS:SETUP:DATA:SIGN SIGN

#### :SEARch<x>:CANBus[:SETup]:IDEXt?

Function Queries all settings related to the ID of the extended

format of the CAN bus signal search.

Syntax :SEARch<x>:CANBus[:SETup]:IDEXt?

< x > = 1 or 2

Example :SEARCH1:CANBUS:SETUP:IDEXT?

-> :SEARCH1:CANBUS:SETUP:IDEXT:

PATTERN "11001011011100001110111011111"

#### :SEARch<x>:CANBus[:SETup]:IDEXt:HEXA

Function Sets the ID of the extended format of the CAN bus

signal search in hexadecimal notation.

Syntax :SEARch<x>:CANBus[:SETup]:IDEXt:

HEXA {<String>}

< x > = 1 or 2

<String> = 8 characters by combining '0' to 'F' and 'X'

Example :SEARCH1:CANBUS:SETUP:IDEXT:

HEXA "1AEF5906"

# :SEARch<x>:CANBus[:SETup]:IDEXt:

Function Sets the ID of the extended format of the CAN bus signal search in binary notation or queries the current setting.

Syntax :SEARch<x>:CANBus[:SETup]:IDEXt:

PATTern {<String>}

:SEARch<x>:CANBus[:SETup]:IDEXt:

PATTern? <x> = 1 or 2

<String> = 29 characters by combining '0,' '1,' and 'X'

Example :SEARCH1:CANBUS:SETUP:IDEXT:

PATTERN "1100101101111000011101111111":SEARCH1:CANBUS:SETUP:IDEXT:PATTERN?

-> :SEARCH1:CANBUS:SETUP:IDEXT:

PATTERN "11001011011100001110111011111"

#### :SEARch<x>:CANBus[:SETup]:IDSTd?

Function Queries all settings related to the ID of the standard format of the CAN bus signal search.

Syntax :SEARch<x>:CANBus[:SETup]:IDSTd?

< x > = 1 or 2

Example :SEARCH1:CANBUS:SETUP:IDSTD?

-> :SEARCH1:CANBUS:SETUP:IDSTD:

PATTERN "00011111101"

#### :SEARch<x>:CANBus[:SETup]:IDSTd:HEXA

Function Sets the ID of the standard format of the CAN bus signal search in hexadecimal notation.

Syntax :SEARch<x>:CANBus[:SETup]:IDSTd:

HEXA {<String>}

< x > = 1 or 2

<String> = 3 characters by combining '0' to 'F' and 'X'

Example :SEARCH1:CANBUS:SETUP:IDSTD:HEXA "5DF"

# :SEARch<x>:CANBus[:SETup]:IDSTd: PATTern

Function Sets the ID of the standard format of the CAN bus

signal search in binary notation or queries the current

setting.

Syntax :SEARch<x>:CANBus[:SETup]:IDSTd:

PATTern {<String>}

:SEARch<x>:CANBus[:SETup]:IDSTd:

PATTern? <x> = 1 or 2

<String> = 11 characters by combining '0,' '1,' and 'X'

Example :SEARCH1:CANBUS:SETUP:IDSTD:

PATTERN "10111011111"

:SEARCH1:CANBUS:SETUP:IDSTD:PATTERN?

-> :SEARCH1:CANBUS:SETUP:IDSTD:

PATTERN "10111011111"

#### :SEARch<x>:CANBus[:SETup]:MODE

Function Sets the CAN bus signal search mode or queries the

current setting.

Syntax :SEARch<x>:CANBus[:SETup]:

MODE {EFRame|IDEXt|IDSTd|MSIGnal|SOF}

:SEARch<x>:CANBus[:SETup]:MODE?

< x > = 1 or 2

Example :SEARCH1:CANBUS:SETUP:MODE EFRAME

:SEARCH1:CANBUS:SETUP:MODE?

-> :SEARCH1:CANBUS:SETUP:MODE EFRAME

#### :SEARch<x>:CANBus[:SETup]:MSIGnal?

Function Queries all settings related to the message signal of the CAN bus signal search

Syntax :SEARch<x>:CANBus[:SETup]:MSIGnal?

< x > = 1, 2

Example :SEARCH1:CANBUS:SETUP:MSIGNAL? ->

:SEARCH1:CANBUS:SETUP:MSIGNAL:MESSAGE:

MODE 1;:SEARCH1:CANBUS:SETUP:MSIGNAL:

SELECT MESSAGE; SIGNAL:

CONDITION BETWEEN;

DATA1 1.000000E+00;

DATA2 1.0000000E+00; MODE 1

# :SEARch<x>:CANBus[:SETup]:MSIGnal: MESSage?

Function Queries all settings related to the message of the CAN bus signal search

Syntax :SEARch<x>:CANBus[:SETup]:MSIGnal:

MESSage?

< x > = 1.2

Example :SEARCH1:CANBUS:SETUP:MSIGNAL:MESSAGE?

-> :SEARCH1:CANBUS:SETUP:MSIGNAL:

MESSAGE: MODE 1

# :SEARch<x>:CANBus[:SETup]:MSIGnal:

#### MESSage: ITEM

Function Sets the CAN bus signal search message item.

Syntax :SEARch<x>:CANBus[:SETup]:MSIGnal:

MESSage:ITEM {<String>}

< x > = 1, 2

<String> = Up to 32 characters

Example :SEARCH1:CANBUS:SETUP:MSIGNAL:MESSAGE:

ITEM "TEST"

# :SEARch<x>:CANBus[:SETup]:MSIGnal:

#### MESSage: MODE

Function Turns ON/OFF the CAN bus signal search message or queries the current setting.

or queries the current setting.

Syntax :SEARch<x>:CANBus[:SETup]:MSIGnal:

MESSage:MODE {<Boolean>}

:SEARch<x>:CANBus[:SETup]:MSIGnal:

MESSage:MODE?
<x> = 1, 2

Example :SEARCH1:CANBUS:SETUP:MSIGNAL:MESSAGE:

MODE ON

:SEARCH1:CANBUS:SETUP:MSIGNAL:MESSAGE:

MODE? -> :SEARCH1:CANBUS:SETUP:MSIGNAL:

MESSAGE: MODE 1

# :SEARch<x>:CANBus[:SETup]:MSIGnal:

#### SELect

Function Sets the message signal conditions for the CAN bus signal search or queries the current setting.

Syntax :SEARch<x>:CANBus[:SETup]:MSIGnal:

SELect {MESSage|SIGNal}

:SEARch<x>:CANBus[:SETup]:MSIGnal:

SELect?

< x > = 1.2

Example :SEARCH1:CANBUS:SETUP:MSIGNAL:

SELECT MESSAGE

:SEARCH1:CANBUS:SETUP:MSIGNAL:SELECT?

-> :SEARCH1:CANBUS:SETUP:MSIGNAL:

SELECT MESSAGE

# :SEARch<x>:CANBus[:SETup]:MSIGnal: SIGNal?

Function Queries all settings related to the signal of the CAN bus signal search.

Syntax :SEARch<x>:CANBus[:SETup]:MSIGnal:

SIGNal?

< x > = 1, 2

Example :SEARCH1:CANBUS:SETUP:MSIGNAL:

SIGNAL? -> :SEARCH1:CANBUS:SETUP:

MSIGNAL:SIGNAL:CONDITION BETWEEN;

DATA1 1.000000E+00;

DATA2 1.0000000E+00; MODE 1

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# :SEARch<x>:CANBus[:SETup]:MSIGnal:

#### SIGNal: CONDition

Function Sets the signal data conditions for the CAN bus signal

search or queries the current setting.

Syntax :SEARch<x>:CANBus[:SETup]:MSIGnal:

SIGNal:CONDition {BETWeen|DONTcare|
FALSe|GTHan|LTHan|ORANge|TRUE}
:SEARch<x>:CANBus[:SETup]:MSIGnal:

SIGNal: CONDition?

< x > = 1, 2

Example :SEARCH1:CANBUS:SETUP:MSIGNAL:SIGNAL:

CONDITION BETWEEN

:SEARCH1:CANBUS:SETUP:MSIGNAL:SIGNAL:
CONDITION? -> :SEARCH1:CANBUS:SETUP:
MSIGNAL:SIGNAL:CONDITION BETWEEN

# :SEARch<x>:CANBus[:SETup]:MSIGnal: SIGNal:DATA<x>

Function Sets the signal data comparison data for the CAN

bus signal search or queries the current setting.

Syntax :SEARch<x>:CANBus[:SETup]:MSIGnal:

SIGNal:DATA<x> {<NRf>}

:SEARch<x>:CANBus[:SETup]:MSIGnal:

SIGNal:DATA<x>? <x> of SEARch<x>> = 1, 2 <x> of DATA<x> = 1, 2

<NRf> = See the SB5000 User's Manual

Example :SEARCH1:CANBUS:SETUP:MSIGNAL:SIGNAL:

DATA1 1

:SEARCH1:CANBUS:SETUP:MSIGNAL:SIGNAL:
DATA1? -> :SEARCH1:CANBUS:SETUP:
MSIGNAL:SIGNAL:DATA1 1.0000000E+00

#### :SEARch<x>:CANBus[:SETup]:MSIGnal:

#### SIGNal: ITEM

Function Sets the CAN bus signal search signal item.

Syntax :SEARch<x>:CANBus[:SETup]:MSIGnal:
SIGNal:ITEM {<String>,<String>}

< x > = 1, 2

<String> = Up to 32 characters

Example :SEARCH1:CANBUS:SETUP:MSIGNAL:SIGNAL:

ITEM "ENGINE", "TEST"

Description The first string sets the signal, and the next string

sets the message.

# :SEARch<x>:CANBus[:SETup]:MSIGnal: SIGNal:MODE

Function Turns ON/OFF the CAN bus signal search signal or queries the current setting.

Syntax :SEARch<x>:CANBus[:SETup]:MSIGnal:

SIGNal:MODE {<Boolean>}

:SEARch<x>:CANBus[:SETup]:MSIGnal:

SIGNal:MODE?

< x > = 1.2

Example :SEARCH1:CANBUS:SETUP:MSIGNAL:SIGNAL:

MODE ON

:SEARCH1:CANBUS:SETUP:MSIGNAL:SIGNAL:
MODE? -> :SEARCH1:CANBUS:SETUP:MSIGNAL:

SIGNAL:MODE 1

#### :SEARch<x>:CANBus[:SETup]:RECessive

Function Sets the recessive level (bus level) of the CAN bus signal search or queries the current setting.

Syntax :SEARch<x>:CANBus[:SETup]:

RECessive {HIGH|LOW}

:SEARch<x>:CANBus[:SETup]:RECessive?

< x > = 1 or 2

Example :SEARCH1:CANBUS:SETUP:RECESSIVE HIGH

:SEARCH1:CANBUS:SETUP:RECESSIVE?

-> :SEARCH1:CANBUS:SETUP:RECESSIVE HIGH

#### :SEARch<x>:CANBus[:SETup]:RTR

Function Sets the RTR of the CAN bus signal search or queries the current setting.

:SEARch<x>:CANBus[:SETup]:RTR?

< x > = 1 or 2

Example :SEARCH1:CANBUS:SETUP:RTR DATA

:SEARCH1:CANBUS:SETUP:RTR?

-> :SEARCH1:CANBUS:SETUP:RTR DATA

#### :SEARch<x>:CANBus[:SETup]:SPOint

Function Sets the sample point of the CAN bus signal search or queries the current setting.

Syntax :SEARch<x>:CANBus[:SETup]:

SPOint {<NRf>}

:SEARch<x>:CANBus[:SETup]:SPOint?

< x > = 1 or 2

<NRf>=18.8 to 90.6(%)

Example :SEARCH1:CANBUS:SETUP:SPOINT 18.8

:SEARCH1:CANBUS:SETUP:SPOINT?

-> :SEARCH1:CANBUS:SETUP:

SPOINT 18.8E+00

#### :SEARch<x>:CANBus[:SETup]:TRACe

Function Sets the trace of the CAN bus signal search or

queries the current setting.

Syntax :SEARch<x>:CANBus[:SETup]:TRACe {<NRf>}

:SEARch<x>:CANBus[:SETup]:TRACe?

<x> = 1 or 2

< NRf > = 1 to 8

Example :SEARCH1:CANBUS:SETUP:TRACE 1

:SEARCH1:CANBUS:SETUP:TRACE?

-> :SEARCH1:CANBUS:SETUP:TRACE 1

#### :SEARch<x>:CLOCk?

Function Queries all settings related to the clock channel.

Syntax :SEARch<x>:CLOCk?

< x > = 1 or 2

Example :SEARCH1:CLOCK? -> :SEARCH1:CLOCK:

SOURCE 1; POLARITY RISE

#### :SEARch<x>:CLOCk:POLarity

Function Sets the polarity of the clock channel or queries the current setting.

Syntax :SEARch<x>:CLOCk:POLarity {FALL|RISE}

:SEARch<x>:CLOCk:POLarity?

< x > = 1 or 2

Example :SEARCH1:CLOCK:POLARITY RISE

:SEARCH1:CLOCK:POLARITY? -> :SEARCH1:

CLOCK: POLARITY RISE

Description • This command is invalid when :SEARch<x>:
CLOCK:SOURce NONE.

 This command is valid when :SEARch<x>:TYPE STATE

 This command is valid when :SEARch<x>:TYPE WIDTh and :SEARch<x>:WIDTh:TYPE PSTAte.

#### :SEARch<x>:CLOCk:SOURce

Function Sets the clock trace of the search or queries the current setting.

:SEARch<x>:CLOCk:SOURce {<NRf>|NONE}

:SEARch<x>:CLOCk:SOURce?

<x> = 1 or 2<NRf> = 1 to 8

Syntax

Example :SEARCH1:CLOCK:SOURCE NONE

:SEARCH1:CLOCK:SOURCE? -> :SEARCH1:

CLOCK: SOURCE NONE

Description • This command is valid when :SEARch<x>:TYPE

This command is valid when :SEARch<x>:TYPE
 WIDTh and :SEARch<x>:WIDTh:TYPE PSTAte.

#### :SEARch<x>:DECimation

Function Sets the decimation detection of the skip mode or queries the current setting.

queries the current setting.

 $\verb"SYNTAX": SEARch< x>: DECimation \{< NRf>\}$ 

:SEARch<x>:DECimation?

<NRf> = 1 to 9999

Example : SEARCH1: DECIMATION 1

< x > = 1 or 2

:SEARCH1:DECIMATION? -> :SEARCH1:

DECIMATION 1

#### :SEARch<x>:EXECute

Function Executes the search. This is an overlap command.

Syntax :SEARch<x>:EXECute

< x > = 1 or 2

Example :SEARCH1:EXECUTE

# :SEARch<x>:FLEXray?

Function Queries all settings related to the FLEXRAY bus

signal search.

Syntax :SEARch<x>:FLEXray?

< x > = 1, 2

Example :SEARCH1:FLEXRAY? -> :SEARCH1:FLEXRAY:

BRATE 5000000; ERROR: BSS 1; CRC 1; CRCBUS

A; FES 1; TRACE 1; : SEARCH1: FLEXRAY:

IDDATA: CCOUNT: CONDITION BETWEEN;

COUNT1 10; COUNT2 63; :SEARCH1: FLEXRAY:

IDDATA:DATA:BORDER BIG;

CONDITION BETWEEN; DATA1 1.0000000E+00;

 ${\tt DATA2 1.0000000E+00; DPOSITION 1; DSIZE 1;}\\$ 

MSBLSB 1,0;PATTERN "10101001";

SIGN SIGN;:SEARCH1:FLEXRAY:IDDATA:FID:

CONDITION BETWEEN; ID1 100; ID2 2047;: SEARCH1:FLEXRAY:IDDATA:INDICATOR:

CONDITION DONTCARE; NFRAME DONTCARE;

PPREAMBLE DONTCARE; STFRAME DONTCARE;

SYFRAME DONTCARE;:SEARCH1:FLEXRAY:

MODE FSTART; TRACE 1

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#### :SEARch<x>:FLEXray:BRATe

Function Sets the FLEXRAY bus signal search bit rate (data

transfer rate) or queries the current setting.

Syntax :SEARch<x>:FLEXray:BRATe {<NRf>}

:SEARch<x>:FLEXray:BRATe?

< x > = 1, 2

<NRf> = 2500000, 5000000, 10000000

Example :SEARCH1:FLEXRAY:BRATE 5000000

:SEARCH1:FLEXRAY:BRATE?

-> :SEARCH1:FLEXRAY:BRATE 5000000

#### :SEARch<x>:FLEXray:ERRor?

Function Queries all settings related to the FLEXRAY bus

signal search error.

Syntax :SEARch<x>:FLEXray:ERRor?

< x > = 1.2

Example :SEARCH1:FLEXRAY:ERROR? -> :SEARCH1:

FLEXRAY: ERROR: BSS 1; CRC 1; CRCBUS A;

FES 1; TRACE 1

#### :SEARch<x>:FLEXray:ERRor:BSS

Function Sets the FLEXRAY bus signal search BSS error or

queries the current setting.

Syntax :SEARch<x>:FLEXray:ERRor:

BSS {<Boolean>}

:SEARch<x>:FLEXray:ERRor:BSS?

< x > = 1, 2

Example :SEARCH1:FLEXRAY:ERROR:BSS ON

:SEARCH1:FLEXRAY:ERROR:BSS?

-> :SEARCH1:FLEXRAY:ERROR:BSS 1

#### :SEARch<x>:FLEXray:ERRor:CRC

Function Sets the FLEXRAY bus signal search CRC error or

queries the current setting.

 $\verb|Syntax| : \verb|SEARch|<|x>: \verb|FLEX| ray: \verb|ERRor|:$ 

CRC {<Boolean>}

:SEARch<x>:FLEXray:ERRor:CRC?

< x > = 1, 2

Example :SEARCH1:FLEXRAY:ERROR:CRC ON

:SEARCH1:FLEXRAY:ERROR:CRC?

-> :SEARCH1:FLEXRAY:ERROR:CRC 1

#### :SEARch<x>:FLEXray:ERRor:CRCBus

Function Sets the target channel of the FLEXRAY bus signal

search CRC error or queries the current setting.

 $\verb|Syntax| : \verb|SEARch|<|x>: \verb|FLEX| ray: ERRor: CRCBus | \{A \mid B\}$ 

:SEARch<x>:FLEXray:ERRor:CRCBus?

< x > = 1.2

Example :SEARCH1:FLEXRAY:ERROR:CRCBUS A

:SEARCH1:FLEXRAY:ERROR:CRCBUS?

-> :SEARCH1:FLEXRAY:ERROR:CRCBUS A

#### :SEARch<x>:FLEXray:ERRor:FES

Function Sets the FLEXRAY bus signal search FES error or

queries the current setting.

Syntax :SEARch<x>:FLEXray:ERRor:

FES {<Boolean>}

:SEARch<x>:FLEXray:ERRor:FES?

< x > = 1, 2

Example :SEARCH1:FLEXRAY:ERROR:FES ON

:SEARCH1:FLEXRAY:ERROR:FES?

-> :SEARCH1:FLEXRAY:ERROR:FES 1

#### :SEARch<x>:FLEXray:ERRor:TRACe

Function Sets the FLEXRAY bus signal search error trace or

queries the current setting.

Syntax :SEARch<x>:FLEXray:ERRor:TRACe {<NRf>}

:SEARch<x>:FLEXray:ERRor:TRACe?

<x> = 1, 2<NRf> = 1 to 8

Example :SEARCH1:FLEXRAY:ERROR:TRACE 1

 $\verb:SEARCH1: \verb:FLEXRAY: ERROR: TRACE?$ 

-> :SEARCH1:FLEXRAY:ERROR:TRACE 1

#### :SEARch<x>:FLEXray:IDData?

Function Queries all settings related to the IDData of the

FLEXRAY bus signal search.

Syntax :SEARch<x>:FLEXray:IDData?

 $\langle x \rangle = 1, 2$ 

Example :SEARCH1:FLEXRAY:IDDATA?

-> :SEARCH1FLEXRAY:IDDATA:CCOUNT:

CONDITION BETWEEN; COUNT1 10;

COUNT2 63;:SEARCH1:FLEXRAY:IDDATA:

DATA:BORDER BIG; CONDITION BETWEEN;

DATA1 1.0000000E+00;DATA2 1.0000000E+00;

DPOSITION 1;DSIZE 1;MSBLSB 1,0;

PATTERN "10101001";SIGN SIGN;:SEARCH1: FLEXRAY:IDDATA:FID:CONDITION BETWEEN; ID1 100;ID2 2047;:SEARCH1:FLEXRAY:

IDDATA:INDICATOR:CONDITION DONTCARE;
NFRAME DONTCARE;PPREAMBLE DONTCARE;
STFRAME DONTCARE;SYFRAME DONTCARE

#### :SEARch<x>:FLEXray:IDData:CCOunt?

Function Queries all settings related to the Cycle Count of the

FLEXRAY bus signal search.

Syntax :SEARch<x>:FLEXray:IDData:CCOunt?

< x > = 1, 2

Example :SEARCH1:FLEXRAY:IDDATA:CCOUNT?

-> :SEARCH1:FLEXRAY:IDDATA:CCOUNT: CONDITION BETWEEN;COUNT1 10;COUNT2 63

# :SEARch<x>:FLEXray:IDData:CCOunt: CONDition

Function Sets the Cycle Count data conditions for the

FLEXRAY bus signal search or queries the current

:SEARch<x>:FLEXray:IDData:CCOunt: Syntax

CONDition {BETWeen | DONTcare | FALSe |

GTHan | LTHan | ORANge | TRUE }

:SEARch<x>:FLEXray:IDData:CCOunt:

CONDition?

< x > = 1, 2

Example :SEARCH1:FLEXRAY:IDDATA:CCOUNT:

CONDITION BETWEEN

: SEARCH1: FLEXRAY: IDDATA: CCOUNT:

CONDITION? -> :SEARCH1:FLEXRAY:IDDATA:

CCOUNT: CONDITION BETWEEN

# :SEARch<x>:FLEXray:IDData:CCOunt: COUNt<x>

Function Sets the FLEXRAY bus signal search Cycle Count or queries the current setting.

Syntax :SEARch<x>:FLEXray:IDData:CCOunt:

COUNt<x> {<NRf>}

:SEARch<x>:FLEXray:IDData:CCOunt:

COUNt<x>?

<x> of SEARch<x> = 1, 2

< x > of COUNt< x > = 1.2

< NRf > = 0 to 63

Example :SEARCH1:FLEXRAY:IDDATA:CCOUNT:

COUNT1 10

:SEARCH1:FLEXRAY:IDDATA:CCOUNT:

COUNT1? -> :SEARCH1:FLEXRAY:IDDATA:

CCOUNT: COUNT1 10

Description • For :SEARch<x>:FLEXray:IDData:CCOunt: CONDition GTHan, set using: SEARch<x>: FLEXray:IDData:CCOunt:COUNt1.

- For :SEARch<x>:FLEXray:IDData:CCOunt: CONDition LTHan, set using: SEARch<x>: FLEXray:IDData:CCOunt:COUNt2.
- For :SEARch<x>:FLEXray:IDData:CCOunt: CONDition BETWeenlORANge, set small values with: SEARch<x>:FLEXray:IDData:CCOunt: COUNt1, and large values with: SEARch<x>: FLEXray:IDData:CCOunt:COUNt2.

#### :SEARch<x>:FLEXray:IDData:DATA?

Function Queries all settings related to the Data Field of the

FLEXRAY bus signal search.

:SEARch<x>:FLEXray:IDData:DATA? Syntax

< x > = 1.2

Example :SEARCH1:FLEXRAY:IDDATA:DATA?

-> :SEARCH1:FLEXRAY:IDDATA:DATA:

BORDER BIG; CONDITION BETWEEN;

DATA1 1.0000000E+00;

DATA2 1.0000000E+00; DPOSITION 1;

DSIZE 1; MSBLSB 1,0;

PATTERN "10101001"; SIGN SIGN

#### :SEARch<x>:FLEXray:IDData:DATA:BORDer

Sets the byte order of the Data Field of the FLEXRAY

bus signal search or queries the current setting.

:SEARch<x>:FLEXray:IDData:DATA: Syntax

BORDer {BIG|LITTle}

:SEARch<x>:FLEXray:IDData:DATA:BORDer?

 $\langle x \rangle = 1.2$ 

Example :SEARCH1:FLEXRAY:IDDATA:DATA:BORDER BIG

:SEARCH1:FLEXRAY:IDDATA:DATA:BORDER? -> :SEARCH1:FLEXRAY:IDDATA:DATA:BORDER BIG

#### :SEARch<x>:FLEXray:IDData:DATA:

#### CONDition

Function Sets the data conditions of the Data Field of the

FLEXRAY bus signal search or queries the current

settina.

:SEARch<x>:FLEXray:IDData:DATA: Syntax

CONDition {BETWeen|DONTcare|FALSe|

GTHan | LTHan | ORANge | TRUE }

:SEARch<x>:FLEXray:IDData:DATA:

CONDition?

< x > = 1.2

Example :SEARCH1:FLEXRAY:IDDATA:DATA:

CONDITION BETWEEN

:SEARCH1:FLEXRAY:IDDATA:DATA:CONDITION?

-> :SEARCH1:FLEXRAY:IDDATA:DATA:

CONDITION BETWEEN

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#### :SEARch<x>:FLEXray:IDData:DATA:DATA<x>

Function Sets the comparison data of the Data Field of the FLEXRAY bus signal search or queries the current setting.

Syntax :SEARch<x>:FLEXray:IDData:DATA:

DATA<x> {<NRf>}

:SEARch<x>:FLEXray:IDData:DATA:DATA<x>?

<x> of SEARch<x> = 1 or 2
<x> of DATA<x> = 1 or 2

<NRf> = See the SB5000 User's Manual

Example :SEARCH1:FLEXRAY:IDDATA:DATA:DATA1 1

:SEARCH1:FLEXRAY:IDDATA:DATA:DATA1?
-> :SEARCH1:FLEXRAY:IDDATA:DATA:

DATA1 1.000000E+00

Description • For :SEARch<x>:FLEXray:IDData:DATA: CONDition GTHan, set using: SEARch<x>: FLEXray:IDData:DATA:DATA1.

- For :SEARch
   CONDition LTHan, set using: SEARch
   FLEXray:IDData:DATA:DATA2.
- For:SEARch<x>:FLEXray:IDData:DATA:
   CONDition BETWeen|ORANge, set small values
   with: SEARch<x>:FLEXray:IDData:DATA:DATA1,
   and large values with: SEARch<x>:FLEXray:
   IDData:DATA:DATA2.

# :SEARch<x>:FLEXray:IDData:DATA:

DPOSition

Function Sets the position for pattern comparison of the data of the Data Field of the FLEXRAY bus signal search or queries the current setting.

Syntax :SEARch<x>:FLEXray:IDData:DATA:

DPOSition {<NRf>}

:SEARch<x>:FLEXray:IDData:DATA:

DPOSition? <x> = 1, 2 <NRf> = 0 to 253

Example :SEARCH1:FLEXRAY:IDDATA:DATA:

DPOSITION 1

:SEARCH1:FLEXRAY:IDDATA:DATA:DPOSITION?

-> :SEARCH1:FLEXRAY:IDDATA:DATA:

DPOSITION 1

# :SEARch<x>:FLEXray:IDData:DATA:DSIZe

Function Sets the number of bytes of data in the Data Field of the FLEXRAY bus signal search or queries the current setting.

Syntax :SEARch<x>:FLEXray:IDData:DATA:

DSIZe {<NRf>}

:SEARch<x>:FLEXray:IDData:DATA:DSIZe?

< x > = 1, 2< NRf > = 1 to 8

Example :SEARCH1:FLEXRAY:IDDATA:DATA:DSIZE 1

:SEARCH1:FLEXRAY:IDDATA:DATA:DSIZE? ->
:SEARCH1:FLEXRAY:IDDATA:DATA:DSIZE 1

#### :SEARch<x>:FLEXray:IDData:DATA:HEXA

Function Sets the data in the Data Field of the FLEXRAY bus

signal search in hexadecimal.

Syntax :SEARch<x>:FLEXray:IDData:DATA:

HEXA {<String>}

< x > = 1.2

<String> = 16 characters by combining '0' to 'F' and 'X,'

units of 1 byte

Example :SEARCH1:FLEXRAY:IDDATA:DATA:HEXA "A9"

#### :SEARch<x>:FLEXray:IDData:DATA:MSBLsb

Function Sets the MSB/LSB bit of data in the Data Field of the FLEXRAY bus signal search or queries the current setting.

Syntax :SEARch<x>:FLEXray:IDData:DATA:

MSBLsb {<NRf>,<NRf>}

:SEARch<x>:FLEXray:IDData:DATA:MSBLsb?

< x > = 1, 2

<NRf> = See the SB5000 User's Manual

Example :SEARCH1:FLEXRAY:IDDATA:DATA:MSBLSB 1,0

:SEARCH1:FLEXRAY:IDDATA:DATA:MSBLSB? ->

:SEARCH1:FLEXRAY:IDDATA:DATA:MSBLSB 1,0

## :SEARch<x>:FLEXray:IDData:DATA:PATTern

Function Sets the data of the Data Field of the FLEXRAY bus signal search in binary or queries the current setting.

Syntax :SEARch<x>:FLEXray:IDData:DATA:

PATTern {<String>}

:SEARch<x>:FLEXray:IDData:DATA:PATTern?

< x > = 1, 2

<String> = 64 characters by combining '0,' '1,' and 'X,'

units of 1 byte

Example :SEARCH1:FLEXRAY:IDDATA:DATA:

PATTERN "11011111"

:SEARCH1:FLEXRAY:IDDATA:DATA:PATTERN?

-> :SEARCH1:FLEXRAY:IDDATA:DATA:

PATTERN "11011111"

# :SEARch<x>:FLEXray:IDData:DATA:SIGN

Function Sets the data sign of the Data Field of the FLEXRAY bus signal search or queries the current setting.

Syntax :SEARch<x>:FLEXray:IDData:DATA:

SIGN {SIGN|UNSign}

:SEARch<x>:FLEXray:IDData:DATA:SIGN?

< x > = 1.2

Example :SEARCH1:FLEXRAY:IDDATA:DATA:SIGN SIGN

:SEARCH1:FLEXRAY:IDDATA:DATA:SIGN? ->

:SEARCH1:FLEXRAY:IDDATA:DATA:SIGN SIGN

#### :SEARch<x>:FLEXray:IDData:FID?

Function Queries all settings related to the Frame ID of the FLEXRAY bus signal search.

Syntax :SEARch<x>:FLEXray:IDData:FID?

< x > = 1.2

Example :SEARCH1:FLEXRAY:IDDATA:FID? ->

:SEARCH1:FLEXRAY:IDDATA:FID:

CONDITION BETWEEN; ID1 100; ID2 2047

# :SEARch<x>:FLEXray:IDData:FID:

#### CONDition

Function Sets the Frame ID data conditions for the FLEXRAY

bus signal search or queries the current setting.

Syntax :SEARch<x>:FLEXray:IDData:FID:

CONDition {BETWeen|DONTcare|FALSe|

GTHan | LTHan | ORANge | TRUE }

:SEARch<x>:FLEXray:IDData:FID:

CONDition? < x > = 1, 2

Example :SEARCH1:FLEXRAY:IDDATA:FID:

CONDITION BETWEEN

:SEARCH1:FLEXRAY:IDDATA:FID:CONDITION?

-> :SEARCH1:FLEXRAY:IDDATA:FID:

CONDITION BETWEEN

#### :SEARch<x>:FLEXray:IDData:FID:ID<x>

Function Sets the Frame ID value for the FLEXRAY bus signal search or queries the current setting.

Syntax :SEARch<x>:FLEXray:IDData:FID:

 $ID < x > \{ < NRf > \}$ 

:SEARch<x>:FLEXray:IDData:FID:ID<x>?

<x> of SEARch<x> = 1, 2

< x > of ID < x > = 1, 2

<NRf> = 1 to 2047

Example :SEARCH1:FLEXRAY:IDDATA:FID:ID1 100

:SEARCH1:FLEXRAY:IDDATA:FID:ID1? ->

:SEARCH1:FLEXRAY:IDDATA:FID:ID1 100

Description • For :SEARch<x>:FLEXray:IDData:FID:CONDition GTHan, set using: SEARch<x>:FLEXray:IDData:

- For :SEARch<x>:FLEXray:IDData:FID:CONDition LTHan, set using: SEARch<x>:FLEXray:IDData:
- For:SEARch<x>:FLEXray:IDData:FID:CONDition BETWeen|ORANge, set small values with: SEARch<x>:FLEXray:IDData:FID:ID1, and large values with: SEARch<x>:FLEXray:IDData:FID:ID2.

#### :SEARch<x>:FLEXray:IDData:INDicator?

Function Queries all settings related to the Indicator of the FLEXRAY bus signal search.

Syntax :SEARch<x>:FLEXray:IDData:INDicator?

< x > = 1, 2

Example :SEARCH1:FLEXRAY:IDDATA:INDICATOR?

-> SEARCH1:FLEXRAY:IDDATA:INDICATOR:
CONDITION DONTCARE;NFRAME DONTCARE;
PPREAMBLE DONTCARE;STFRAME DONTCARE;

SYFRAME DONTCARE

# :SEARch<x>:FLEXray:IDData:INDicator:CONDition

Function Sets the data conditions of the Indicator of the FLEXRAY bus signal search or queries the current

setting.

Syntax :SEARch<x>:FLEXray:IDData:INDicator:

CONDition {DONTcare|FALSe|TRUE}

:SEARch<x>:FLEXray:IDData:INDicator:

CONDition?
<x> = 1, 2

Example :SEARCH1:FLEXRAY:IDDATA:INDICATOR:

CONDITION DONTCARE

:SEARCH1:FLEXRAY:IDDATA:INDICATOR:

CONDITION? -> :SEARCH1:FLEXRAY:IDDATA:

INDICATOR: CONDITION DONTCARE

#### :SEARch<x>:FLEXray:IDData:INDicator:

# NFRame

Function Sets the Null frame of the Indicator of the FLEXRAY bus signal search or queries the current setting.

Syntax :SEARch<x>:FLEXray:IDData:INDicator:

NFRame {DONTcare | OFF | ON }

:SEARch<x>:FLEXray:IDData:INDicator:

NFRame?

< x > = 1, 2

Example :SEARCH1:FLEXRAY:IDDATA:INDICATOR:

NFRAME DONTCARE

:SEARCH1:FLEXRAY:IDDATA:INDICATOR:
NFRAME? -> :SEARCH1:FLEXRAY:IDDATA:

INDICATOR:NFRAME DONTCARE

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# :SEARch<x>:FLEXray:IDData:INDicator: PPReamble

Function Sets the Payload preamble of the Indicator of the

FLEXRAY bus signal search or queries the current

setting.

Syntax :SEARch<x>:FLEXray:IDData:INDicator:

PPReamble {DONTcare | OFF | ON }

:SEARch<x>:FLEXray:IDData:INDicator:

PPReamble? < x > = 1, 2

Example :SEARCH1:FLEXRAY:IDDATA:INDICATOR:

PPREAMBLE DONTCARE

:SEARCH1:FLEXRAY:IDDATA:INDICATOR:
PPREAMBLE? -> :SEARCH1:FLEXRAY:IDDATA:

INDICATOR: PPREAMBLE DONTCARE

# :SEARch<x>:FLEXray:IDData:INDicator: STFRame

Function Sets the Start frame of the Indicator of the FLEXRAY

bus signal search or queries the current setting.

Syntax :SEARch<x>:FLEXray:IDData:INDicator:

STFRame {DONTcare|OFF|ON}

:SEARch<x>:FLEXray:IDData:INDicator:

STFRame? < x > = 1, 2

Example :SEARCH1:FLEXRAY:IDDATA:INDICATOR:

STFRAME DONTCARE

:SEARCH1:FLEXRAY:IDDATA:INDICATOR: STFRAME? -> :SEARCH1:FLEXRAY:IDDATA:

INDICATOR:STFRAME DONTCARE

# :SEARch<x>:FLEXray:IDData:INDicator: SYFRame

Function Sets the Sync frame of the Indicator of the FLEXRAY

bus signal search or queries the current setting.

Syntax :SEARch<x>:FLEXray:IDData:INDicator:

SYFRame {DONTcare|OFF|ON}

:SEARch<x>:FLEXray:IDData:INDicator:

SYFRame? < x > = 1, 2

Example :SEARCH1:FLEXRAY:IDDATA:INDICATOR:

SYFRAME DONTCARE

:SEARCH1:FLEXRAY:IDDATA:INDICATOR: SYFRAME? -> :SEARCH1:FLEXRAY:IDDATA:

INDICATOR: SYFRAME DONTCARE

#### :SEARch<x>:FLEXray:MODE

Function Sets the FLEXRAY bus signal search mode or

queries the current setting.

Syntax :SEARch<x>:FLEXray:

MODE {ERROr|FSTart|IDData}
:SEARch<x>:FLEXray:MODE?

< x > = 1, 2

Example :SEARCH1:FLEXRAY:MODE ERROR

:SEARCH1:FLEXRAY:MODE?

-> :SEARCH1:FLEXRAY:MODE ERROR

#### :SEARch<x>:FLEXray:TRACe

Function Sets the FLEXRAY bus signal search trace or queries

the current setting.

Syntax :SEARch<x>:FLEXray:TRACe {<NRf>}

:SEARch<x>:FLEXray:TRACe?

<x> = 1, 2<NRf> = 1 to 8

Example :SEARCH1:FLEXRAY:TRACE 1

:SEARCH1:FLEXRAY:TRACE?

-> :SEARCH1:FLEXRAY:TRACE 1

#### :SEARch<x>:HOLDoff

Function Sets the hold off detection or queries the current

setting.

Syntax :SEARch<x>:HOLDoff {<Time>}

:SEARch<x>:HOLDoff?

< x > = 1 or 2

<Time> = 0 s to 1 s (100 ps steps)

Example :SEARCH1:HOLDOFF OS

:SEARCH1:HOLDOFF? -> :SEARCH1:

HOLDOFF 0.000E+00

#### SEARch<x>: I2CBus? :SEARch<x>:I2CBus:SETup? Queries all settings related to the I<sup>2</sup>C bus signal Function Queries all settings related to the I<sup>2</sup>C bus signal search. search setup. Syntax :SEARch<x>:I2CBus? :SEARch<x>:I2CBus:SETup? Syntax < x > = 1 or 2< x > = 1 or 2Example :SEARCH1:I2CBUS? Example :SEARCH1:I2CBUS:SETUP? -> :SEARCH1:I2CBUS:CLOCK:SOURCE 1;: -> :SEARCH1:I2CBUS:SETUP:ADATA: SEARCH1: I2CBUS: SETUP: ADATA: BIT10ADDRESS:PATTERN " 101110111111";: BIT10ADDRESS: PATTERN " 10111011111";: SEARCH1: I2CBUS: SETUP: ADATA: BIT7ADDRESS:PATTERN " 110111110":: SEARCH1: I2CBUS: SETUP: ADATA: BIT7ADDRESS: PATTERN " 110111110"; :SEARCH1:I2CBUS: SEARCH1: I2CBUS: SETUP: ADATA: BIT7APSUB: SETUP: ADATA: BIT7APSUB: ADDRESS: ADDRESS: PATTERN " 11001101"; : SEARCH1: PATTERN " 11001101"; :SEARCH1:I2CBUS: 12CBUS:SETUP:ADATA:BIT7APSUB: SETUP: ADATA: BIT7APSUB: SADDRESS: SADDRESS: PATTERN " 111011111"; :SEARCH1: 12CBUS:SETUP:ADATA:TYPE BIT7APSUB;: PATTERN " 11101111"; :SEARCH1:I2CBUS: SETUP: ADATA: TYPE BIT7APSUB; : SEARCH1: SEARCH1:I2CBUS:SETUP:DATA:BYTE 1; CONDITION TRUE; DPOSITION 0; MODE 0; 12CBUS:SETUP:DATA:BYTE 1; CONDITION TRUE; DPOSITION 0; MODE 0; PATTERN1 " 10101011"; PATTERN1 " 10101011"; PATTERN2 " 10101011"; PATTERN2 " 10101011"; PATTERN3 " 10101011"; PATTERN3 " 10101011"; PATTERN4 " 10101011"; PMODE DONTCARE;: PATTERN4 " 10101011"; SEARCH1: I2CBUS: SETUP: GCALL: PMODE DONTCARE;:SEARCH1:I2CBUS:SETUP: BIT7MADDRESS:PATTERN " 1010101";: GCALL: BIT7MADDRESS: PATTERN " 1010101":: SEARCH1: I2CBUS: SETUP: GCALL: SEARCH1: I2CBUS: SETUP: GCALL: SBYTE BIT7MADDRESS;:SEARCH1:I2CBUS: SBYTE BIT7MADDRESS;:SEARCH1:I2CBUS: SETUP:MODE SBHSMODE;NAIGNORE:HSMODE 0; SETUP: MODE SBHSMODE; ..... RACCESS 0; SBYTE 0; :SEARCH1:I2CBUS: SETUP:SBHSMODE:TYPE SBYTE :SEARch<x>:I2CBus:CLOCk? :SEARch<x>:I2CBus[:SETup]:ADATa? Function Queries all settings related to the clock of the I<sup>2</sup>C bus Queries all settings related to the address of the I<sup>2</sup>C signal search. Function Syntax :SEARch<x>:I2CBus:CLOCk? bus signal search. < x > = 1 or 2Syntax :SEARch<x>:I2CBus[:SETup]:ADATa? Example :SEARCH1:I2CBUS:CLOCK? < x > = 1 or 2Example :SEARCH1:I2CBUS:SETUP:ADATA? -> :SEARCH1:I2CBUS:CLOCK:SOURCE 1 -> :SEARCH1:I2CBUS:SETUP:ADATA: BIT10ADDRESS:PATTERN " 10111011111";: :SEARch<x>:I2CBus:CLOCk:SOURce SEARCH1: I2CBUS: SETUP: ADATA:

Function	Sets the clock trace of the I <sup>2</sup> C bus signal search or
	queries the current setting.
Syntax	:SEARch <x>:I2CBus:CLOCk:SOURce {<nrf>}</nrf></x>
	:SEARch <x>:I2CBus:CLOCk:SOURce?</x>
	< x > = 1  or  2
	<NRf $>$ = 1 to 8
Example	:SEARCH1:I2CBUS:CLOCK:SOURCE 1
	:SEARCH1:I2CBUS:CLOCK:SOURCE?
	-> :SEARCH1:I2CBUS:CLOCK:SOURCE 1

# BIT7ADDRESS: PATTERN " 11011110";: SEARCH1: I2CBUS: SETUP: ADATA: BIT7APSUB:ADDRESS:PATTERN " 11001101";: SEARCH1: I2CBUS: SETUP: ADATA: BIT7APSUB: SADDRESS: PATTERN " 111011111";: SEARCH1: I2CBUS: SETUP: ADATA: TYPE BIT7APSUB

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# :SEARch<x>:I2CBus[:SETup]:ADATa: BIT10address?

Function Queries all settings related to the 10-bit address of

the I<sup>2</sup>C bus signal search.

Syntax :SEARch<x>:I2CBus[:SETup]:ADATa:

BIT10address? <x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:

ADATA: BIT10ADDRESS?

-> :SEARCH1:I2CBUS:SETUP:ADATA: BIT10ADDRESS:PATTERN " 000111111101"

# :SEARch<x>:I2CBus[:SETup]:ADATa:

#### BIT10address: HEXA

Function Sets the 10-bit address of the I<sup>2</sup>C bus signal search

in hexadecimal notation.

Syntax :SEARch<x>:I2CBus[:SETup]:ADATa:

BIT10address:HEXA {<String>}

< x > = 1 or 2

<String> = 3 characters by combining '0' to 'F' and 'X'

(bit 8 is the R/W bit)

Example :SEARCH1:I2CBUS:SETUP:ADATA:

BIT10ADDRESS:HEXA " 5DF"

## :SEARch<x>:I2CBus[:SETup]:ADATa:

#### BIT10address: PATTern

Function Sets the 10-bit address of the I<sup>2</sup>C bus signal search

in binary notation or queries the current setting.

Syntax :SEARch<x>:I2CBus[:SETup]:ADATa:

BIT10address:PATTern {<String>}
:SEARch<x>:I2CBus[:SETup]:ADATa:

BIT10address: PATTern?

< x > = 1 or 2

<String> = 11 characters by combining '0', '1', and 'X'

(bit 8 is the R/W bit)

Example :SEARCH1:I2CBUS:SETUP:ADATA:

BIT10ADDRESS: PATTERN " 10111011111"

:SEARCH1:I2CBUS:SETUP:ADATA:

BIT10ADDRESS:PATTERN?

-> :SEARCH1:I2CBUS:SETUP:ADATA: BIT10ADDRESS:PATTERN " 101110111111"

#### :SEARch<x>:I2CBus[:SETup]:ADATa:

#### BIT7ADdress?

Function Queries all settings related to the 7-bit address of the

I<sup>2</sup>C bus signal search.

Syntax :SEARch<x>:I2CBus[:SETup]:ADATa:

BIT7ADdress? <x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:ADATA:

BIT7ADDRESS?

-> :SEARCH1:I2CBUS:SETUP:ADATA: BIT7ADDRESS:PATTERN " 11011110"

#### :SEARch<x>:I2CBus[:SETup]:ADATa:

#### BIT7ADdress:HEXA

Function Sets the 7-bit address of the I<sup>2</sup>C bus signal search in

hexadecimal notation.

Syntax :SEARch<x>:I2CBus[:SETup]:ADATa:

BIT7ADdress:HEXA {<String>}

< x > = 1 or 2

<String> = 2 characters by combining '0' to 'F' and 'X'

(bit 0 is the  $R/\overline{W}$  bit)

Example :SEARCH1:I2CBUS:SETUP:ADATA:

BIT7ADDRESS:HEXA " DE"

# :SEARch<x>:I2CBus[:SETup]:ADATa:

#### BIT7ADdress:PATTern

binary notation or queries the current setting.

Syntax :SEARch<x>:I2CBus[:SETup]:ADATa:

BIT7ADdress:PATTern {<String>}
:SEARch<x>:I2CBus[:SETup]:ADATa:

BIT7ADdress:PATTern?

< x > = 1 or 2

<String> = 8 characters by combining '0', '1', and 'X'

(bit 0 is the  $R/\overline{W}$  bit)

Example :SEARCH1:I2CBUS:SETUP:ADATA:

BIT7ADDRESS:PATTERN " 110111110" :SEARCH1:I2CBUS:SETUP:ADATA:

BIT7ADDRESS: PATTERN?

-> :SEARCH1:I2CBUS:SETUP:ADATA: BIT7ADDRESS:PATTERN " 11011110"

# :SEARch<x>:I2CBus[:SETup]:ADATa: BIT7APsub?

Function Queries all settings related to the 7-bit + Sub address

of the I2C bus signal search.

Syntax :SEARch<x>:I2CBus[:SETup]:ADATa:

BIT7APsub? <x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:ADATA:BIT7APSUB?

-> :SEARCH1:I2CBUS:SETUP:ADATA:

BIT7APSUB:ADDRESS:PATTERN " 11001101"; :SEARCH1:I2CBUS:SETUP:ADATA:BIT7APSUB:

SADDRESS:PATTERN " 11101111"

# :SEARch<x>:I2CBus[:SETup]:ADATa: BIT7APsub:ADDRess?

Function Queries all settings related to the 7-bit address of the

7-bit + Sub address of the I<sup>2</sup>C bus signal search.

Syntax :SEARch<x>:I2CBus[:SETup]:ADATa:

BIT7APsub:ADDRess?

< x > = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:ADATA:BIT7APSUB:

ADDRESS?

-> :SEARCH1:I2CBUS:SETUP:ADATA: BIT7APSUB:ADDRESS:PATTERN " 11001101"

#### :SEARch<x>:I2CBus[:SETup]:ADATa:

#### BIT7APsub: ADDRess: HEXA

Function Sets the 7-bit address of the 7-bit + Sub address of

the  $I^2C$  bus signal search in hexadecimal notation.

Syntax :SEARch<x>:I2CBus[:SETup]:ADATa:

BIT7APsub:ADDRess:HEXA {<String>}

< x > = 1 or 2

<String> = 2 characters by combining '0' to 'F' and 'X'

(bit 0 is the  $R/\overline{W}$  bit)

Example :SEARCH1:I2CBUS:SETUP:ADATA:BIT7APSUB:

ADDRESS: HEXA " CD"

# :SEARch<x>:I2CBus[:SETup]:ADATa:

#### BIT7APsub:ADDRess:PATTern

Function Sets the 7-bit address of the 7-bit + Sub address of

the  $I^2C$  bus signal search in binary notation or queries

the current setting.

Syntax :SEARch<x>:I2CBus[:SETup]:ADATa:

 $\verb|BIT7APsub:ADDRess:PATTern {<String>}|$ 

:SEARch<x>:I2CBus[:SETup]:ADATa:

BIT7APsub: ADDRess: PATTern?

< x > = 1 or 2

<String> = 8 characters by combining '0', '1', and 'X'

(bit 0 is the  $R/\overline{W}$  bit)

Example :SEARCH1:I2CBUS:SETUP:ADATA:BIT7APSUB:

ADDRESS:PATTERN " 11001101"

:SEARCH1:I2CBUS:SETUP:ADATA:BIT7APSUB:

ADDRESS: PATTERN?

-> :SEARCH1:I2CBUS:SETUP:ADATA:

BIT7APSUB:ADDRESS:PATTERN " 11001101"

## :SEARch<x>:I2CBus[:SETup]:ADATa:

#### BIT7APsub: SADDress?

Function Queries all settings related to the Sub address of the

7-bit + Sub address of the I<sup>2</sup>C bus signal search.

Syntax :SEARch<x>:I2CBus[:SETup]:ADATa:

BIT7APsub: SADDress?

< x > = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:ADATA:BIT7APSUB:

SADDRESS?

-> :SEARCH1:I2CBUS:SETUP:ADATA:

BIT7APSUB: SADDRESS: PATTERN " 11101111"

## :SEARch<x>:I2CBus[:SETup]:ADATa:

#### BIT7APsub:SADDress:HEXA

Function Sets the Sub address of the 7-bit + Sub address of

the  $I^2C$  bus signal search in hexadecimal notation.

Syntax :SEARch<x>:I2CBus[:SETup]:ADATa:
BIT7APsub:SADDress:HEXA {<String>}

< x > = 1 or 2

<String> = 2 characters by combining '0' to 'F' and 'X'

Example :SEARCH1:I2CBUS:SETUP:ADATA:BIT7APSUB:

SADDRESS:HEXA " EF"

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# :SEARch<x>:I2CBus[:SETup]:ADATa: BIT7APsub:SADDress:PATTern

Function Sets the Sub address of the 7-bit + Sub address of the I<sup>2</sup>C bus signal search in binary notation or queries the current setting.

:SEARch<x>:I2CBus[:SETup]:ADATa: Syntax BIT7APsub:SADDress:PATTern {<String>} :SEARch<x>:I2CBus[:SETup]:ADATa: BIT7APsub: SADDress: PATTern?

<String> = 8 characters by combining '0,' '1,' and 'X'

Example :SEARCH1:I2CBUS:SETUP:ADATA:BIT7APSUB:

SADDRESS: PATTERN " 11101111"

:SEARCH1:I2CBUS:SETUP:ADATA:BIT7APSUB:

SADDRESS: PATTERN?

< x > = 1 or 2

-> :SEARCH1:I2CBUS:SETUP:ADATA: BIT7APSUB:SADDRESS:PATTERN " 11101111"

#### :SEARch<x>:I2CBus[:SETup]:ADATa:TYPE

Function Sets the address type of the I<sup>2</sup>C bus signal search or queries the current setting.

:SEARch<x>:I2CBus[:SETup]:ADATa: Syntax TYPE {BIT10address|BIT7ADdress|

BIT7APsub}

:SEARch<x>:I2CBus[:SETup]:ADATa:TYPE?

< x > = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:ADATA:

TYPE BIT10ADDRESS

:SEARCH1:I2CBUS:SETUP:ADATA:TYPE? -> :SEARCH1:I2CBUS:SETUP:ADATA:

TYPE BIT10ADDRESS

# :SEARch<x>:I2CBus[:SETup]:DATA?

Function Queries all settings related to the data of the I<sup>2</sup>C bus signal search.

Syntax :SEARch<x>:I2CBus[:SETup]:DATA?

< x > = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:DATA?

-> :SEARCH1:I2CBUS:SETUP:DATA:BYTE 1; CONDITION TRUE; DPOSITION 0; MODE 0;

PATTERN1 " 10101011"; PATTERN2 " 10101011"; PATTERN3 " 10101011";

PATTERN4 " 10101011"; PMODE DONTCARE

#### :SEARch<x>:I2CBus[:SETup]:DATA:BYTE

Function Sets the number of data bytes of the I<sup>2</sup>C bus signal search or queries the current setting.

:SEARch<x>:I2CBus[:SETup]:DATA: Syntax

BYTE {<NRf>}

:SEARch<x>:I2CBus[:SETup]:DATA:BYTE?

< x > = 1 or 2< NRf > = 1 to 4

Example :SEARCH1:I2CBUS:SETUP:DATA:BYTE 1 :SEARCH1:I2CBUS:SETUP:DATA:BYTE?

-> :SEARCH1:I2CBUS:SETUP:DATA:BYTE 1

#### :SEARch<x>:I2CBus[:SETup]:DATA:

#### CONDition

Function Sets the determination method (match or not match) of the data of the I2C bus signal search or queries the current setting.

:SEARch<x>:I2CBus[:SETup]:DATA: Syntax

CONDition {FALSe|TRUE}

:SEARch<x>:I2CBus[:SETup]:DATA:

CONDition? < x > = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:DATA:

CONDITION TRUE

:SEARCH1:I2CBUS:SETUP:DATA:

CONDITION?

-> :SEARCH1:I2CBUS:SETUP:DATA:

CONDITION TRUE

# :SEARch<x>:I2CBus[:SETup]:DATA: DPOSition

Function Sets the position for comparing the data pattern of the

I<sup>2</sup>C bus signal search or queries the current setting. :SEARch<x>:I2CBus[:SETup]:DATA:

Syntax

DPOSition {<NRf>}

:SEARch<x>:I2CBus[:SETup]:DATA:

DPOSition? < x > = 1 or 2< NRf > = 0 to 9999

Example :SEARCH1:I2CBUS:SETUP:DATA:DPOSITION 1

:SEARCH1:I2CBUS:SETUP:DATA:

DPOSITION?

-> :SEARCH1:I2CBUS:SETUP:DATA:

DPOSITION 1

# :SEARch<x>:I2CBus[:SETup]:DATA: HEXA<x>

Function Sets the data of the I<sup>2</sup>C bus signal search in

hexadecimal notation.

:SEARch<x>:I2CBus[:SETup]:DATA: Syntax

HEXA<x> {<String>} <x> of SEARch<x> = 1 or 2 <x> of HEXA<x> = 1 to 4

<String> = 2 characters by combining '0' to 'F' and 'X'

Example :SEARCH1:I2CBUS:SETUP:DATA:HEXA1 " AB"

#### :SEARch<x>:I2CBus[:SETup]:DATA:MODE

Function Enables/Disables the data conditions of the I<sup>2</sup>C bus signal search or queries the current setting.

:SEARch<x>:I2CBus[:SETup]:DATA: Syntax

MODE {<Boolean>}

:SEARch<x>:I2CBus[:SETup]:DATA:MODE?

< x > = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:DATA:MODE ON

:SEARCH1:I2CBUS:SETUP:DATA:MODE?

-> :SEARCH1:I2CBUS:SETUP:DATA:MODE 1

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#### :SEARch<x>:I2CBus[:SETup]:GCAL1: :SEARch<x>:I2CBus[:SETup]:DATA: PATTern<x> BIT7maddress? Function Sets the data of the I<sup>2</sup>C bus signal search in binary Queries all settings related to the 7-bit master Function notation or queries the current setting. address of the general call of the I<sup>2</sup>C bus signal Syntax :SEARch<x>:I2CBus[:SETup]:DATA: PATTern<x> {<String>} :SEARch<x>:I2CBus[:SETup]:GCALl: Syntax :SEARch<x>:I2CBus[:SETup]:DATA: BIT7maddress? PATTern<x>? < x > = 1 or 2<x> of SEARch<x> = 1 or 2 Example :SEARCH1:I2CBUS:SETUP:GCALL: <x> of <PATTern x> = 1 to 4 BIT7MADDRESS? <String> = 8 characters by combining '0,' '1,' and 'X' -> :SEARCH1:I2CBUS:SETUP:GCALL: Example :SEARCH1:I2CBUS:SETUP:DATA: BIT7MADDRESS:PATTERN " 1010101" PATTERN1 " 10101011" :SEARch<x>:I2CBus[:SETup]:GCAL1: :SEARCH1:I2CBUS:SETUP:DATA:PATTERN1? BIT7maddress:HEXA -> :SEARCH1:I2CBUS:SETUP:DATA: PATTERN1 " 10101011" Function Sets the 7-bit master address of the general call of the I<sup>2</sup>C bus signal search in hexadecimal notation. :SEARch<x>:I2CBus[:SETup]:DATA:PMODe Syntax :SEARch<x>:I2CBus[:SETup]:GCALl: Function Sets the pattern comparison start position mode of BIT7maddress:HEXA {<String>} the data of the I2C bus signal search or queries the < x > = 1 or 2current setting. <String> = 2 characters by combining '0' to 'F' and 'X' Syntax :SEARch<x>:I2CBus[:SETup]:DATA: (bit 0 is fixed 1) PMODe {DONTcare|SELect} Example :SEARCH1:I2CBUS:SETUP:GCALL: :SEARch<x>:I2CBus[:SETup]:DATA:PMODe? BIT7MADDRESS:HEXA " BA" < x > = 1 or 2:SEARch<x>:I2CBus[:SETup]:GCAL1: Example :SEARCH1:I2CBUS:SETUP:DATA: PMODE DONTCARE BIT7maddress:PATTern :SEARCH1:I2CBUS:SETUP:DATA:PMODE? Function Sets the 7-bit master address of the general call of -> :SEARCH1:I2CBUS:SETUP:DATA: the I<sup>2</sup>C bus signal search in binary notation or queries PMODE DONTCARE the current setting. :SEARch<x>:I2CBus[:SETup]:GCALl: Syntax :SEARch<x>:I2CBus[:SETup]:DATA:TRACe BIT7maddress:PATTern {<String>} Function Sets the trace of the data of the I<sup>2</sup>C bus signal search :SEARch<x>:I2CBus[:SETup]:GCAL1: or queries the current setting. BIT7maddress: PATTern? Syntax :SEARch<x>:I2CBus[:SETup]:DATA:TRACe < x > = 1 or 2 $\{ < NRf > \}$ <String> = 7 characters by combining '0,' '1,' and 'X' :SEARch<x>:I2CBus[:SETup]:DATA:TRACe? Example :SEARCH1:I2CBUS:SETUP:GCALL: < x > = 1 or 2BIT7MADDRESS:PATTERN " 1010101" Example :SEARCH1:I2CBUS:SETUP:DATA::TRACe 1 :SEARCH1:I2CBUS:SETUP:GCALL: :SEARCH1:I2CBUS:SETUP:DATA:TRACe? BIT7MADDRESS: PATTERN? -> :SEARCH1:I2CBUS:SETUP:DATA::TRACe 1 -> :SEARCH1:I2CBUS:SETUP:GCALL: BIT7MADDRESS:PATTERN " 1010101" :SEARch<x>:I2CBus[:SETup]:GCAL1? Function Queries all settings related to the general call of the :SEARch<x>:I2CBus[:SETup]:GCAL1: I<sup>2</sup>C bus signal search. SBYTe (Second Byte) :SEARch<x>:I2CBus[:SETup]:GCAL1? Syntax Function Sets the second byte type of the general call of the < x > = 1 or 2I<sup>2</sup>C bus signal search or queries the current setting. Example :SEARCH1:I2CBUS:SETUP:GCALL? :SEARch<x>:I2CBus[:SETup]:GCALl: Syntax -> :SEARCH1:I2CBUS:SETUP:GCALL: SBYTe {BIT7maddress|DONTcare|H04|H06} BIT7MADDRESS: PATTERN " 1010101";: :SEARch<x>:I2CBus[:SETup]:GCAL1:SBYTe? SEARCH1: I2CBUS: SETUP: GCALL: < x > = 1 or 2SBYTE BIT7MADDRESS Example :SEARCH1:I2CBUS:SETUP:GCALL: SBYTE BIT7MADDRESS :SEARCH1:I2CBUS:SETUP:GCALL:SBYTE? -> :SEARCH1:I2CBUS:SETUP:GCALL: SBYTE BIT7MADDRESS

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#### :SEARch<x>:I2CBus[:SETup]:MODE

Function Sets the search mode of the I<sup>2</sup>C bus signal search or queries the current setting.

Syntax :SEARch<x>:I2CBus[:SETup]:

MODE {ADATa|ESTart|GCAL1|NAIGnore|

SBHSmode }

:SEARch<x>:I2CBus[:SETup]:MODE?

< x > = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:MODE ADATA

: SEARCH1: I2CBUS: SETUP: MODE?

-> :SEARCH1:I2CBUS:SETUP:MODE ADATA

#### :SEARch<x>:I2CBus[:SETup]:NAIGnore?

Function Queries all settings related to the NON ACK ignore mode of the  $I^2C$  bus signal search.

Syntax :SEARch<x>:I2CBus[:SETup]:NAIGnore?

< x > = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:NAIGNORE?

-> :SEARCH1:I2CBUS:SETUP:NAIGNORE:

HSMODE 1; RACCESS 1; SBYTE 1

# :SEARch<x>:I2CBus[:SETup]:NAIGnore:

#### **HSMode**

Function Sets whether to ignore NON ACK in high speed mode of the I<sup>2</sup>C bus signal search or queries the current

setting.

Syntax :SEARch<x>:I2CBus[:SETup]:NAIGnore:

HSMode {<Boolean>}

:SEARch<x>:I2CBus[:SETup]:NAIGnore:

HSMode?

< x > = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:NAIGNORE:

HSMODE ON

:SEARCH1:I2CBUS:SETUP:NAIGNORE:HSMODE?
-> :SEARCH1:I2CBUS:SETUP:NAIGNORE:

HSMODE 1

# :SEARch<x>:I2CBus[:SETup]:NAIGnore:

#### **RACCess**

Function Sets whether to ignore NON ACK in read access

mode of the  $I^2C$  bus signal search or queries the

current setting.

Syntax :SEARch<x>:I2CBus[:SETup]:NAIGnore:

RACCess {<Boolean>}

:SEARch<x>:I2CBus[:SETup]:NAIGnore:

RACCess? <x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:NAIGNORE:

RACCESS ON

 $: {\tt SEARCH1: I2CBUS: SETUP: NAIGNORE:}$ 

RACCESS?

-> :SEARCH1:I2CBUS:SETUP:NAIGNORE:

RACCESS 1

# :SEARch<x>:I2CBus[:SETup]:NAIGnore: SBYTe(Start Byte)

Function Sets whether to ignore NON ACK in the start byte of the I<sup>2</sup>C bus signal search or queries the current

setting.

Syntax :SEARch<x>:I2CBus[:SETup]:NAIGnore:

SBYTe {<Boolean>}

:SEARch<x>:I2CBus[:SETup]:NAIGnore:

SBYTe? <x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:NAIGNORE:SBYTE ON

:SEARCH1:I2CBUS:SETUP:NAIGNORE:

SBYTE?

-> :SEARCH1:I2CBUS:SETUP:NAIGNORE:

SBYTE 1

## :SEARch<x>:I2CBus[:SETup]:SBHSmode?

Function Queries all settings related to the start byte and high speed mode of the I<sup>2</sup>C bus signal search.

Syntax :SEARch<x>:I2CBus[:SETup]:SBHSmode?

< x > = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:SBHSMODE?

-> :SEARCH1:I2CBUS:SETUP:SBHSMODE:

TYPE HSMODE

# :SEARch<x>:I2CBus[:SETup]:SBHSmode:

#### TYPE

Function Sets the type of the start byte or high speed mode of the I<sup>2</sup>C bus signal search or queries the current

setting.

Syntax :SEARch<x>:I2CBus[:SETup]:SBHSmode:

TYPE {HSMode|SBYTe}

:SEARch<x>:I2CBus[:SETup]:SBHSmode:

TYPE?

< x > = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:SBHSMODE:

TYPE HSMODE

:SEARCH1:I2CBUS:SETUP:SBHSMODE:TYPE?

-> :SEARCH1:I2CBUS:SETUP:SBHSMODE:

TYPE HSMODE

#### :SEARch<x>:LINBus?

Function Queries all settings related to the LIN bus signal

search or queries the current setting.

Syntax SEARch<x>:LINBus?

< x > = 1 or 2

Example :SEARCH1:LINBUS? -> :SEARCH1:LINBUS:

SETUP:BLENGTH 11;BRATE 19200;DATA: BORDER BIG;BNUM 8;CONDITION TRUE;

DATA1 0.0000000E+00;

DATA2 127.00000E+00; MSBLSB 7,0;

CHECKSUM 0; FRAMING 0; PARITY 0; SYNCH 0; TOUT 0;:SEARCH1:LINBUS:SETUP:ID:

PATTERN "XXXXXX";:SEARCH1:LINBUS:SETUP:

MODE IDDATA; REVISION LIN2\_0; SPOINT 50.0E+00; TRACE 1

#### :SEARch<x>:LINBus:SETup?

Function Queries all settings related to setup of the LIN bus signal search or queries the current setting.

Syntax SEARch<x>:LINBus[:SETup]?

< x > = 1 or 2

Example :SEARCH1:LINBUS:SETUP? -> :SEARCH1:

LINBUS:SETUP:BLENGTH 11;BRATE 19200;

DATA:BORDER BIG; BNUM 8; CONDITION TRUE;

DATA1 0.000000E+00;

DATA2 127.00000E+00; MSBLSB 7,0;

SIGN SIGN;:SEARCH1:LINBUS:SETUP:ERROR:

CHECKSUM 0; FRAMING 0; PARITY 0; SYNCH 0;
TOUT 0;:SEARCH1:LINBUS:SETUP:ID:

PATTERN "XXXXXX";:SEARCH1:LINBUS:SETUP:

MODE IDDATA; REVISION LIN2\_0; SPOINT 50.0E+00; TRACE 1

#### :SEARch<x>:LINBus[:SETup]:BLENgth

Function Sets the LIN bus signal search break length or queries the current setting.

Syntax :SEARch<x>:LINBus[:SETup]:

BLENgth {<NRf>}

:SEARch<x>:LINBus[:SETup]:BLENgth?

< x > = 1, 2

<NRf> = 10 to 13

Example :SEARCH1:LINBUS:SETUP:BLENGTH 10

:SEARCH1:LINBUS:SETUP:BLENGTH?

-> :SEARCH1:LINBUS:SETUP:BLENGTH 10

#### :SEARch<x>:LINBus[:SETup]:BRATe

Function Sets the LIN bus signal search bitrate (data transfer

rate) or queries the current setting.

Syntax :SEARch<x>:LINBus[:SETup]:BRATe {<NRf>|

USER, <NRf>}

:SEARch<x>:LINBus[:SETup]:BRATe?

< x > = 1 or 2

<NRf>=1200, 2400, 4800, 9600, 19200

USER <NRf>=See this User's Manual.

Example :SEARCH1:LINBUS:SETUP:BRATE 19200

:SEARCH1:LINBUS:SETUP:BRATE?

-> :SEARCH1:LINBUS:SETUP:BRATE 19200

#### :SEARch<x>:LINBus[:SETup]:DATA?

Function Queries all settings related to data of the LIN bus

signal search or queries the current setting.

Syntax :SEARch<x>:LINBus[:SETup]:DATA?

< x > = 1 or 2

Example :SEARCH1:LINBUS:SETUP:DATA? ->

:SEARCH1:LINBUS:SETUP:DATA:BORDER BIG;

BNUM 8; CONDITION DONTCARE;

DATA1 0.0000000E+00;

DATA2 127.00000E+00; MSBLSB 7,0;

SIGN SIGN

#### :SEARch<x>:LINBus[:SETup]:DATA:BNUM

Function Sets the number of LIN bus signal search data bytes or queries the current setting.

Syntax :SEARch<x>:LINBus[:SETup]:DATA:

BNUM {<NRf>}

:SEARch<x>:LINBus[:SETup]:DATA:BNUM?

<x>=1 or 2 <NRf>=1-8

Example :SEARCH1:LINBUS:SETUP:DATA:BNUM 1

:SEARCH1:LINBUS:SETUP:DATA:BNUM?

-> :SEARCH1:LINBUS:SETUP:DATA:BNUM 1

# :SEARch<x>:LINBus[:SETup]:DATA:BORDer

Function Sets the data byte order of the LIN bus signal search or queries the current setting.

Syntax :SEARch<x>:LINBus[:SETup]:DATA:

BORDer {BIG|LITTle}

:SEARch<x>:LINBus[:SETup]:DATA:BORDer?

< x > = 1, 2

Example :SEARCH1:LINBUS:SETUP:DATA:BORDER BIG

:SEARCH1:LINBUS:SETUP:DATA:BORDER? ->

:SEARCH1:LINBUS:SETUP:DATA:BORDER BIG

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# :SEARch<x>:LINBus[:SETup]:DATA: CONDition

Function Sets the LIN bus signal search data or queries the

current setting.

Syntax :SEARch<x>:LINBus[:SETup]:DATA:

CONDition {BETWeen|DONTcare|FALSe|

GTHan | LTHan | ORANge | TRUE }

:SEARch<x>:LINBus[:SETup]:DATA:

CONDition?
<x>=1 or 2

Example :SEARCH1:LINBUS:SETUP:DATA:

CONDITION DONTCARE

:SEARCH1:LINBUS:SETUP:DATA:CONDITION?

-> :SEARCH1:LINBUS:SETUP:DATA:

CONDITION DONTCARE

#### :SEARch<x>:LINBus[:SETup]:DATA:DATA<x>

Function Sets the comparison data of the LIN bus signal search data or queries the current setting.

Syntax :SEARch<x>:LINBus[:SETup]:DATA:

DATA<x> {<NRf>}

:SEARch<x>:LINBus[:SETup]:DATA:DATA<x>?

<x> of SEARch<x> = 1, 2 <x> of DATA<x> = 1, 2

<NRf> = See the SB5000 User's Manual

Example :SEARCH1:LINBUS:SETUP:DATA:DATA1 1

:SEARCH1:LINBUS:SETUP:DATA:DATA1?
-> :SEARCH1:LINBUS:SETUP:DATA:

DATA1 1.000000E+00

Description • For :SEARch<x>:LINBus[:SETup]:DATA:CONDition GTHan, set using: SEARch<x>:LINBus[:SETup]: DATA:DATA1.

- For :SEARch<x>:LINBus[:SETup]:DATA:CONDition LTHan, set using: SEARch<x>:LINBus[:SETup]: DATA:DATA2.
- For:SEARch<x>:LINBus[:SETup]:DATA:CONDition BETWeen|ORANge, set small values with: SEARch<x>:LINBus[:SETup]:DATA:DATA1, and large values with: SEARch<x>:LINBus[:SETup]: DATA:DATA2.

#### :SEARch<x>:LINBus[:SETup]:DATA:HEXA

Function Sets the LIN bus signal search data in hexadecimal.

Syntax :SEARch<x>:LINBus[:SETup]:DATA:

HEXA {<string>}

< x > = 1 or 2

<string>=Combination of up to 16 hex characters ('0'

- 'F' and 'X') (changed with the BNUM setting)

Example :SEARCH1:LINBUS:SETUP:DATA:HEXA "3B"

# :SEARch<x>:LINBus[:SETup]:DATA:MSBLsb

Function Sets the MSB/LSB bit of the LIN bus signal search or queries the current setting.

Syntax :SEARch<x>:LINBus[:SETup]:DATA:

MSBLsb {<NRf>,<NRf>}

:SEARch<x>:LINBus[:SETup]:DATA:MSBLsb?

< x > = 1, 2

<NRf> = See the SB5000 User's Manual

Example :SEARCH1:LINBUS:SETUP:DATA:MSBLSB 1,0

:SEARCH1:LINBUS:SETUP:DATA:MSBLSB? ->
:SEARCH1:LINBUS:SETUP:DATA:MSBLSB 1,0

#### :SEARch<x>:LINBus[:SETup]:DATA:PATTern

Function Sets the LIN bus signal search data in binary or queries the current setting.

Syntax :SEARch<x>:LINBus[:SETup]:DATA:

PATTern {<string>}

:SEARch<x>:LINBus[:SETup]:DATA:PATTern?

< x > = 1 or 2

<string>=Combination of up to 64 characters ('0,' '1,'

and 'X') (changed with the BNUM setting)

Example :SEARCH1:LINBUS:SETUP:DATA:

PATTERN "11011111"

:SEARCH1:LINBUS:SETUP:DATA:PATTERN?

-> :SEARCH1:LINBUS:SETUP:DATA:

PATTERN "11011111"

# :SEARch<x>:LINBus[:SETup]:DATA:SIGN

Function Sets the sign order of the LIN bus signal search or queries the current setting.

Syntax :SEARch<x>:LINBus[:SETup]:DATA:

SIGN {SIGN|UNSign}

:SEARch<x>:LINBus[:SETup]:DATA:SIGN?

< x > = 1, 2

Example :SEARCH1:LINBUS:SETUP:DATA:SIGN SIGN

:SEARCH1:LINBUS:SETUP:DATA:SIGN? ->
:SEARCH1:LINBUS:SETUP:DATA:SIGN SIGN

# :SEARch<x>:LINBus[:SETup]:ERRor?

Function Queries all settings related to the LIN bus signal search error.

Syntax :SEARch<x>:LINBus[:SETup]:ERRor?

< x > = 1.2

Example :SEARCH1:LINBUS:SETUP:ERROR? ->

:SEARCH1:LINBUS:SETUP:ERROR:CHECKSUM 1;FRAMING 1;PARITY 1;SYNCH 1;TOUT 1

# :SEARch<x>:LINBus[:SETup]:ERRor: CHECksum

Function Sets the LIN bus signal search Checksum error or queries the current setting.

Syntax :SEARch<x>:LINBus[:SETup]:ERRor:

CHECksum {<Boolean>}

:SEARch<x>:LINBus[:SETup]:ERRor:

CHECksum? < x > = 1, 2

Example :SEARCH1:LINBUS:SETUP:ERROR:CHECKSUM ON

:SEARCH1:LINBUS:SETUP:ERROR:CHECKSUM?

-> :SEARCH1:LINBUS:SETUP:ERROR:

CHECKSUM 1

# :SEARch<x>:LINBus[:SETup]:ERRor: FRAMing

Function Sets the LIN bus signal search Framing error or

queries the current setting.

Syntax :SEARch<x>:LINBus[:SETup]:ERRor:

FRAMing {<Boolean>}

:SEARch<x>:LINBus[:SETup]:ERRor:

FRAMing? < x > = 1.2

Example :SEARCH1:LINBUS:SETUP:ERROR:FRAMING ON

:SEARCH1:LINBUS:SETUP:ERROR:FRAMING? ->

:SEARCH1:LINBUS:SETUP:ERROR:FRAMING 1

#### :SEARch<x>:LINBus[:SETup]:ERRor:PARity

Function Sets the LIN bus signal search Parity error or queries the current setting.

Syntax :SEARch<x>:LINBus[:SETup]:ERRor:

PARity {<Boolean>}

:SEARch<x>:LINBus[:SETup]:ERRor:PARity?

< x > = 1, 2

Example :SEARCH1:LINBUS:SETUP:ERROR:PARITY ON

:SEARCH1:LINBUS:SETUP:ERROR:PARITY? ->

:SEARCH1:LINBUS:SETUP:ERROR:PARITY 1

#### :SEARch<x>:LINBus[:SETup]:ERRor:SYNCh

Function Sets the LIN bus signal search Synch error or queries the current setting.

Syntax :SEARch<x>:LINBus[:SETup]:ERRor:

SYNCh {<Boolean>}

:SEARch<x>:LINBus[:SETup]:ERRor:SYNCh?

< x > = 1.2

Example :SEARCH1:LINBUS:SETUP:ERROR:SYNCH ON

:SEARCH1:LINBUS:SETUP:ERROR:SYNCH? ->

:SEARCH1:LINBUS:SETUP:ERROR:SYNCH 1

```
:SEARch<x>:LINBus[:SETup]:ERRor:TOUT
```

Function Sets the LIN bus signal search Timeout error or

queries the current setting.

Syntax :SEARch<x>:LINBus[:SETup]:ERRor:

TOUT {<Boolean>}

:SEARch<x>:LINBus[:SETup]:ERRor:TOUT?

< x > = 1, 2

Example :SEARCH1:LINBUS:SETUP:ERROR:TOUT ON

:SEARCH1:LINBUS:SETUP:ERROR:TOUT? ->

:SEARCH1:LINBUS:SETUP:ERROR:TOUT 1

## :SEARch<x>:LINBus[:SETup]:ID?

Function Queries all settings related to ID of the LIN bus signal

search or queries the current setting.

Syntax :SEARch<x>:LINBus[:SETup]:ID?

< x > = 1 or 2

Example :SEARCH1:LINBUS:SETUP:ID?

-> :SEARCH1:LINBUS:SETUP:ID:

PATTERN "101111"

#### :SEARch<x>:LINBus[:SETup]:ID:HEXA

Function Sets the LIN bus signal search ID in hexadecimal.

Syntax :SEARch<x>:LINBus[:SETup]:ID:

 $\texttt{HEXA} \ \{\texttt{<string>}\}$ 

< x > = 1 or 2

<string>=Combination of up to 2 characters ('0' -'F'

and 'X')

Example :SEARCH1:LINBUS:SETUP:ID:HEXA "2A"

# :SEARch<x>:LINBus[:SETup]:ID:PATTern

Function Sets the LIN bus signal search ID in binary or queries the current setting.

Syntax :SEARch<x>:LINBus[:SETup]:ID:

PATTern {<string>}

PATTERN (<scring>)

:SEARch<x>:LINBus[:SETup]:ID:PATTern?

< x > = 1 or 2

<string>=Combination of up to 6 characters ('0,' '1,'

and 'X')

Example :SEARCH1:LINBUS:SETUP:ID:

PATTERN "101111"

:SEARCH1:LINBUS:SETUP:ID:PATTERN?

-> :SEARCH1:LINBUS:SETUP:ID:

PATTERN "101111"

#### :SEARch<x>:LINBus[:SETup]:MODE

Function Sets the LIN bus signal search mode or queries the current setting.

Syntax SEARch<x>:LINBus[:SETup]:

MODE {ERRor|IDData|SYNCh}

:SEARch<x>:LINBus[:SETup]:MODE?

<x>=1 or 2

Example :SEARCH1:LINBUS:SETUP:MODE IDDATA

:SEARCH1:LINBUS:SETUP:MODE?

-> :SEARCH1:LINBUS:SETUP:MODE IDDATA

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#### :SEARch<x>:LINBus[:SETup]:REVision

Function Sets the LIN bus signal search revision (1.3 or 2.0) or queries the current setting.

:SEARch<x>:LINBus[:SETup]:REVision?

< x > = 1, 2

Example :SEARCH1:LINBUS:SETUP:REVISION LIN1\_3
:SEARCH1:LINBUS:SETUP:REVISION? ->
:SEARCH1:LINBUS:SETUP:REVISION LIN1 3

# :SEARch<x>:LINBus[:SETup]:SPOint

Function Sets the LIN bus signal search sampling point or queries the current setting.

Syntax :SEARch<x>:LINBus[:SETup]:

SPOint {<NRf>}

:SEARch<x>:LINBus[:SETup]:SPOint?

< x > = 1, 2

<NRf> = 18.8 to 90.6(%)

Example :SEARCH1:LINBUS:SETUP:SPOINT 18.8
:SEARCH1:LINBUS:SETUP:SPOINT? ->
:SEARCH1:LINBUS:SETUP:SPOINT 18.8E+00

#### :SEARch<x>:LINBus[:SETup]:TRACe

Function Sets the LIN bus signal search trace or queries the current setting.

 $\verb|Syntax| : SEARch < x > : LINBus[:SETup] : TRACe \ \{ < NRf > \}$ 

:SEARch<x>:LINBus[:SETup]:TRACe?

< x > = 1 or 2

< NRf > = 1 - 8

Example :SEARCH1:LINBUS:SETUP:TRACE 1

:SEARCH1:LINBUS:SETUP:TRACE?
-> :SEARCH1:LINBUS:SETUP:TRACE 1

# :SEARch<x>:LOGic

Function Sets the search logic or queries the current setting.

Syntax :SEARch<x>:LOGic {AND | OR}

:SEARch<x>:LOGic?

< x > = 1 or 2

Example :SEARCH1:LOGIC OR

:SEARCH1:LOGIC? -> :SEARCH1:LOGIC OR

Description • This command is valid when :SEARch<x>: TYPE EQUalify|SPATtern|STATe.

This command is valid when :SEARch<x>:
 TYPE WIDTh and :SEARch<x>:WIDTh:
 TYPE PQUalify|PSTAte.

#### :SEARch<x>:MARK

Function Turns ON/OFF the search mark or queries the current

setting.

Syntax :SEARch<x>:MARK {<Boolean>}

:SEARch<x>:MARK?

< x > = 1 or 2

Example :SEARCH1:MARK ON

:SEARCH1:MARK? ->: SEARCH1:MARK 1

#### :SEARch<x>:POLarity

Function Sets the search polarity or queries the current setting.

Syntax :SEARch<x>:POLarity {ENTer | EXIT | FALL |

FALSe | NEGative | POSitive | RISE |

TRUE }

:SEARch<x>:POLarity?

< x > = 1 or 2

Description• {FALL|RISE} is valid when :SEARch<x>:TYPE EDGE|EQUalify.

- {ENTer|EXIT} is valid when :SEARch<x>:TYPE STATe.
- {NEGative|POSitive} is valid when :SEARch<x>: TYPE WIDTh and :SEARch<x>:WIDTh:TYPE PQUalify|PULSe.
- {FALSe|TRUE} is valid when :SEARch<x>:TYPE
   WIDTh and :SEARch<x>:WIDTh:TYPE PSTAte.

#### :SEARch<x>:SELect

Function Sets the detection waveform number of the search function and queries the position that corresponds to the detection waveform number.

Syntax :SEARch<x>:SELect {<NRf>|MAXimum}

:SEARch<x>:SELect?

< x > = 1 or 2< NRf > = 0 to 4999

Example :SEARCH1:SELECT 1

:SEARCH1:SELECT? -> :SEARCH1:

SELECT 1.500E+00

Description If there is no searched position, "NAN" is returned for the query

#### :SEARch<x>:SELect? MAXimum

Function Queries the detection count of the search function.

 $\verb|Syntax| : SEARch < x > : SELect? \{ MAXimum \} \\$ 

< x > = 1 or 2

Example :SEARCH1:SEECT? MAXIMUM -> :SEARCH1:

SELECT 100

#### :SEARch<x>:SLOGic?

Function Queries all settings related to the logic search.

Syntax :SEARch<x>:SLOGic?

< x > = 1 or 2

Example :SEARCH1:SLOGIC? -> :SEARCH1:SLOGIC: CLOCK: POLARITY RISE; SOURCE A0; : SEARCH1: SLOGIC:12CBUS:CLOCK:SOURCE A0;:SEARCH1: SLOGIC: I2CBUSSETUP: ADATA: BIT10ADDRESS: PATTERN "XXXXXXXXXXX";:SEARCH1:SLOGIC: 12CBUS:SETUP:ADATA:BIT7ADDRESS: PATTERN "XXXXXXXX";:SEARCH1:SLOGIC: 12CBUS:SETUP:ADATA:BIT7APSUB:ADDRESS: PATTERN "XXXXXXXX";:SEARCH1:SLOGIC: 12CBUS:SETUP:ADATA:BIT7APSUB:SADDRESS: PATTERN "XXXXXXXX";:SEARCH1:SLOGIC: 12CBUS:SETUP:ADATA:TYPE BIT7ADDRESS;: SEARCH1: SLOGIC: I2CBUS: SETUP: DATA: BYTE 1; CONDITION TRUE; DPOSITION 0; MODE 0; PATTERN1 "XXXXXXXX"; PATTERN2 "XXXXXXXX"; PATTERN3 "XXXXXXXX"; PATTERN4 "XXXXXXXX"; PMODE DONTCARE; TRACE A1;:SEARCH1:SLOGIC:I2CBUS:SETUP: GCALL:BIT7MADDRESS:PATTERN "XXXXXXX1";: SEARCH1: SLOGIC: I2CBUS: SETUP: GCALL: SBYTE DONTCARE;:SEARCH1:SLOGIC:I2CBUS: SETUP: MODE ESTART; NAIGNORE: HSMODE 0; RACCESS 0; SBYTE 0; :SEARCH1:SLOGIC: 12CBUS:SETUP:SBHSMODE:TYPE SBYTE;: SEARCH1:SLOGIC:LINBUS:SETUP: BLENGTH 11; BRATE 19200; DATA: BORDER BIG; BNUM 8; CONDITION TRUE; DATA1 0.0000000E+00; DATA2 127.00000E+00; MSBLSB 7,0....

#### :SEARch<x>:SLOGic:CLOCk?

Function Queries all settings related to the logic search clock.

Syntax :SEARch<x>:SLOGic:CLOCk?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:CLOCK?

-> :SEARCH1:SLOGIC:CLOCK:POLARITY FALL;

### :SEARch<x>:SLOGic:CLOCk:POLarity

Function Sets the polarity of the clock of the logic search or queries the current setting.

:SEARch<x>:SLOGic:CLOCk:POLarity Syntax

{FALL | RISE }

:SEARch<x>:SLOGic:CLOCk:POLarity?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:CLOCK:POLARITY FALL

:SEARCH1:SLOGIC:CLOCK:POLARITY?

-> :SEARCH1:SLOGIC:CLOCK:POLARITY FALL

#### :SEARch<x>:SLOGic:CLOCk:SOURce

Function Sets the clock for the logic search or queries the current setting.

Syntax :SEARch<x>:SLOGic:CLOCk:SOURce {A<y>|

B<y> | C<y> | D<y> | DONTcare }

:SEARch<x>:SLOGic:CLOCk:SOURce?

< x > = 1 or 2<y> = 0 to 7

Example :SEARCH1:SLOGIC:CLOCK:SOURCE A0

:SEARCH1:SLOGIC:CLOCK:SOURCE?

-> :SEARCH1:SLOGIC:CLOCK:SOURCE A0

Description For the SB5310, only {A<y>|DONTcare} are valid.

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#### :SEARch<x>:SLOGic:I2CBus?

Queries all settings related to the logic I<sup>2</sup>C bus signal search.

:SEARch<x>:SLOGic:I2CBus? Syntax

 $\langle x \rangle = 1 \text{ or } 2$ 

Example :SEARCH1:SLOGIC:I2CBUS? -> :SEARCH1: SLOGIC:12CBUS:CLOCK:SOURCE A0;:SEARCH1: SLOGIC: I2CBUSSETUP: ADATA: BIT10ADDRESS: PATTERN " 101110111111"; : SEARCH1: SLOGIC: 12CBUS:SETUP:ADATA:BIT7ADDRESS: PATTERN " 11011110"; : SEARCH1: SLOGIC: 12CBUS:SETUP:ADATA:BIT7APSUB:ADDRESS: PATTERN " 11001101"; :SEARCH1:SLOGIC: 12CBUS:SETUP:ADATA:BIT7APSUB:SADDRESS:

> PATTERN " 111011111"; : SEARCH1: SLOGIC: 12CBUS:SETUP:ADATA:TYPE BIT10ADDRESS;: SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:

BYTE 1; CONDITION FALSE; DPOSITION 1;

MODE 1; PATTERN1 " 10101011";

PATTERN2 " XXXXXXXX";

PATTERN3 " XXXXXXXX";

PATTERN4 " XXXXXXXX"; PMODE DONTCARE; TRACE A0;:SEARCH1:SLOGIC:I2CBUS:SETUP: GCALL:BIT7MADDRESS:PATTERN " 1010101";: SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL: SBYTE BIT7MADDRESS;:SEARCH1:SLOGIC: 12CBUS:SETUP:MODE ADATA;NAIGNORE: HSMODE 1; RACCESS 1; SBYTE 1; : SEARCH1: SLOGIC: I2CBUS: SETUP: SBHSMODE: TYPE HSMODE

#### :SEARch<x>:SLOGic:I2CBus:CLOCk?

Queries all settings related to the clock channel of the logic I<sup>2</sup>C bus signal search.

:SEARch<x>:SLOGic:I2CBus:CLOCk? Syntax

 $\langle x \rangle = 1 \text{ or } 2$ 

Example :SEARCH1:SLOGIC:I2CBUS:

CLOCK? -> :SEARCH1:SLOGIC:I2CBUS:CLOCK:

SOURCE A0

#### :SEARch<x>:SLOGic:I2CBus:CLOCk:

#### SOURce

Function Sets the clock channel of the logic I<sup>2</sup>C bus signal search or queries the current setting.

:SEARch<x>:SLOGic:I2CBus:CLOCk:SOURce Syntax

 $\{A < y > \}$ 

:SEARch<x>:SLOGic:I2CBus:CLOCk:SOURce?

 $\langle x \rangle = 1 \text{ or } 2$  $\langle y \rangle = 0$  to 7

Example :SEARCH1:SLOGIC:I2CBUS:CLOCK:SOURCE A0

:SEARCH1:SLOGIC:I2CBUS:CLOCK: SOURCE? -> :SEARCH1:SLOGIC:I2CBUS:

CLOCK: SOURCE A0

#### :SEARch<x>:SLOGic:I2CBus[:SETup]?

Function Queries all settings related to the setup of the logic I<sup>2</sup>C bus signal search.

:SEARch<x>:SLOGic:I2CBus[:SETup]? Syntax

 $\langle x \rangle = 1 \text{ or } 2$ 

Example :SEARCH1:SLOGIC:I2CBUS:

SETUP? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:

ADATA:BIT10ADDRESS:

PATTERN " 101110111111"; : SEARCH1: SLOGIC:

I2CBUS: SETUP: ADATA: BIT7ADDRESS:

PATTERN " 110111110"; :SEARCH1:SLOGIC:

12CBUS:SETUP:ADATA:BIT7APSUB:ADDRESS:

PATTERN " 11001101"; :SEARCH1:SLOGIC:

12CBUS:SETUP:ADATA:BIT7APSUB:SADDRESS:

PATTERN " 111011111"; :SEARCH1:SLOGIC:

12CBUS:SETUP:ADATA:TYPE BIT10ADDRESS;:

SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:

BYTE 1; CONDITION FALSE; DPOSITION 1;

MODE 1; PATTERN1 " 10101011";

PATTERN2 " XXXXXXXX";

PATTERN3 " XXXXXXXX";

PATTERN4 " XXXXXXXX"; PMODE DONTCARE;

TRACE A0;:SEARCH1:SLOGIC:I2CBUS:SETUP:

GCALL:BIT7MADDRESS:PATTERN " 1010101";:

SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL: SBYTE BIT7MADDRESS;:SEARCH1:SLOGIC:

12CBUS:SETUP:MODE ADATA;NAIGNORE:

HSMODE 1; RACCESS 1; SBYTE 1; : SEARCH1:

SLOGIC: I2CBUS: SETUP: SBHSMODE:

TYPE HSMODE

# :SEARch<x>:SLOGic:I2CBus[:SETup]:

#### ADATa?

Function Queries all settings related to the address of the logic I<sup>2</sup>C bus signal search.

:SEARch<x>:SLOGic:I2CBus[:SETup]:ADATa? Syntax

< x > = 1 or 2

:SEARCH1:SLOGIC:I2CBUS:SETUP: Example

ADATA? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:

ADATA:BIT10ADDRESS:

PATTERN " 101110111111"; :SEARCH1:SLOGIC:

12CBUS:SETUP:ADATA:BIT7ADDRESS:

PATTERN " 110111110"; :SEARCH1:SLOGIC:

12CBUS:SETUP:ADATA:BIT7APSUB:ADDRESS:

PATTERN " 11001101"; :SEARCH1:SLOGIC:

12CBUS:SETUP:ADATA:BIT7APSUB:SADDRESS: PATTERN " 11101111"; :SEARCH1:SLOGIC:

I2CBUS:SETUP:ADATA:TYPE BIT10ADDRESS

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#### ADATa:BIT10address?

Function Queries all settings related to the 10-bit address of the logic  $I^2C$  bus signal search.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:ADATa:

BIT10address? < x > = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:

BIT10ADDRESS? -> :SEARCH1:SLOGIC: I2CBUS:SETUP:ADATA:BIT10ADDRESS:

PATTERN " 10111011111"

### :SEARch<x>:SLOGic:I2CBus[:SETup]:

#### ADATa:BIT10address:HEXA

Function Sets the 10-bit address of the logic I<sup>2</sup>C bus signal

search in hexadecimal notation.

 $\verb|Syntax| : \verb|SEARch|<|x>: \verb|SLOGic:I2CBus|| : \verb|SETup|| : \verb|ADATa:|$ 

BIT10address:HEXA {<String>}

< x > = 1 or 2

<String> = 3 characters by combining '0' to 'F' and 'X'

(bit 8 is the  $R/\overline{W}$  bit)

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:

BIT10ADDRESS:HEXA " 5DF"

# :SEARch<x>:SLOGic:I2CBus[:SETup]:

#### ADATa:BIT10address:PATTern

Function Sets the 10-bit address of the logic I<sup>2</sup>C bus signal

search in binary notation or queries the current

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:ADATa:

BIT10address:PATTern {<String>}

:SEARch<x>:SLOGic:I2CBus[:SETup]:ADATa:

BIT10address: PATTern?

< x > = 1 or 2

<String> = 11 characters by combining '0' to '1' and 'X'

(bit 8 is the  $R/\overline{W}$  bit)

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:

BIT10ADDRESS:PATTERN " 10111011111"
:SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:
BIT10ADDRESS:PATTERN? -> :SEARCH1:

SLOGIC: I2CBUS: SETUP: ADATA: BIT10ADDRESS:

PATTERN " 101110111111"

#### :SEARch<x>:SLOGic:I2CBus[:SETup]:

## ADATa:BIT7ADdress?

Function Queries all settings related to the 7-bit address of the

logic I<sup>2</sup>C bus signal search.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:

ADATa:BIT7ADdress?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:

BIT7ADDRESS? -> :SEARCH1:SLOGIC:I2CBUS:

SETUP: ADATA: BIT7ADDRESS:

PATTERN " 11011110"

#### :SEARch<x>:SLOGic:I2CBus[:SETup]:

#### ADATa:BIT7ADdress:HEXA

search in hexadecimal notation.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:ADATa:

BIT7ADdress:HEXA {<String>}

< x > = 1 or 2

<String> = 2 characters by combining '0' to 'F' and 'X'

(bit 0 is the R/W bit)

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:

BIT7ADDRESS:HEXA " DE"

# :SEARch<x>:SLOGic:I2CBus[:SETup]:

#### ADATa:BIT7ADdress:PATTern

Function Sets the 7-bit address of the logic I<sup>2</sup>C bus signal search in binary notation or queries the current

setting.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:ADATa:

BIT7ADdress:PATTern {<String>}

:SEARch<x>:SLOGic:I2CBus[:SETup]:ADATa:

BIT7ADdress: PATTern?

< x > = 1 or 2

<String> = 8 characters by combining '0' to '1' and 'X'

(bit 0 is the  $R/\overline{W}$  bit)

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:

BIT7ADDRESS:PATTERN " 110111110"
:SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:
BIT7ADDRESS:PATTERN? -> :SEARCH1:

SLOGIC:12CBUS:SETUP:ADATA:BIT7ADDRESS:

PATTERN " 11011110"

# :SEARch<x>:SLOGic:I2CBus[:SETup]:

#### ADATa:BIT7APsub?

Function Queries all settings related to the 7-bit address + Sub address of the logic I<sup>2</sup>C bus signal search.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:ADATa:

BIT7APsub?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:

BIT7APSUB? -> :SEARCH1:SLOGIC:I2CBUS:

SETUP:ADATA:BIT7APSUB:ADDRESS:
PATTERN " 11001101";:SEARCH1:SLOGIC:
I2CBUS:SETUP:ADATA:BIT7APSUB:SADDRESS:

PATTERN " 11101111"

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#### ADATa:BIT7APsub:ADDRess?

Function Queries all settings related to the 7-bit address of the 7-bit address + Sub address of the logic  $I^2C$  bus

signal search.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:ADATa:

BIT7APsub: ADDRess?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:

BIT7APSUB:ADDRESS? -> :SEARCH1:SLOGIC: I2CBUS:SETUP:ADATA:BIT7APSUB:ADDRESS:

PATTERN " 11001101"

#### :SEARch<x>:SLOGic:I2CBus[:SETup]:

#### ADATa:BIT7APsub:ADDRess:HEXA

Function Queries all settings related to the 7-bit address of the 7-bit address + Sub address of the logic  $I^2C$  bus

signal search.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:ADATa:

BIT7APsub:ADDRess:HEXA {<String>}

< x > = 1 or 2

<String> = 2 characters by combining '0' to 'F' and 'X'

(bit 0 is the  $R/\overline{W}$  bit)

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:

BIT7APSUB:ADDRESS:HEXA " CD"

#### :SEARch<x>:SLOGic:I2CBus[:SETup]:

#### ADATa:BIT7APsub:ADDRess:PATTern

Function Sets the 7-bit address of the 7-bit address + Sub address of the logic I<sup>2</sup>C bus signal search in binary

notation or quarios the current setting

notation or queries the current setting.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:ADATa:

BIT7APsub:ADDRess:PATTern {<String>}
:SEARch<x>:SLOGic:I2CBus[:SETup]:ADATa:

BIT7APsub:ADDRess:PATTern?

< x > = 1 or 2

<String> = 8 characters by combining '0' to '1' and 'X'

(bit 0 is the R/W bit)

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:

BIT7APSUB:ADDRESS:PATTERN " 11001101"
:SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:
BIT7APSUB:ADDRESS:PATTERN? -> :SEARCH1:

SLOGIC: I2CBUS: SETUP: ADATA: BIT7APSUB:

ADDRESS: PATTERN " 11001101"

# :SEARch<x>:SLOGic:I2CBus[:SETup]:

#### ADATa:BIT7APsub:SADDress?

Function Queries all settings related to the Sub address of the 7-bit address + Sub address of the logic I<sup>2</sup>C bus

signal search.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:ADATa:

BIT7APsub: SADDress?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:

BIT7APSUB:SADDRESS? -> :SEARCH1:SLOGIC: I2CBUS:SETUP:ADATA:BIT7APSUB:SADDRESS:

PATTERN " 11101111"

# :SEARch<x>:SLOGic:I2CBus[:SETup]:

#### ADATa:BIT7APsub:SADDress:HEXA

Function Queries all settings related to the Sub address of the 7-bit address + Sub address of the logic  $\rm I^2C$  bus

signal search.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:ADATa:

BIT7APsub:SADDress:HEXA {<String>}

< x > = 1 or 2

<String> = 2 characters by combining '0' to 'F' and 'X'

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:

BIT7APSUB:SADDRESS:HEXA " EF"

#### :SEARch<x>:SLOGic:I2CBus[:SETup]:

## ADATa:BIT7APsub:SADDress:PATTern

Function Sets the Sub address of the 7-bit address + Sub address of the logic I<sup>2</sup>C bus signal search in binary

notation or queries the current setting.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:ADATa:

BIT7APsub:SADDress:PATTern {<String>}
:SEARch<x>:SLOGic:I2CBus[:SETup]:ADATa:

BIT7APsub:SADDress:PATTern?

< x > = 1 or 2

<String> = 8 characters by combining '0' to '1' and 'X'

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:

BIT7APSUB:SADDRESS:PATTERN " 11101111" :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:

BIT7APSUB: SADDRESS:

PATTERN? -> :SEARCH1:SLOGIC:I2CBUS:

SETUP: ADATA: BIT7APSUB: SADDRESS:

PATTERN " 11101111"

#### ADATa: TYPE

search or queries the current setting.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:ADATa:

TYPE {BIT10address|BIT7ADdress|

BIT7APsub}

:SEARch<x>:SLOGic:I2CBus[:SETup]:ADATa:

TYPE? <x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:

TYPE BIT10ADDRESS

:SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:
TYPE? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:

ADATA: TYPE BIT10ADDRESS

# :SEARch<x>:SLOGic:I2CBus[:SETup]:

#### DATA?

bus signal search.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:DATA?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:

DATA? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:

DATA: BYTE 1; CONDITION FALSE;

DPOSITION 1; MODE 1; PATTERN1 " 10101011";

PATTERN2 " XXXXXXXX";
PATTERN3 " XXXXXXXX";

PATTERN4 " XXXXXXXX"; PMODE DONTCARE;

TRACE A0

# :SEARch<x>:SLOGic:I2CBus[:SETup]:

#### DATA: BYTE

Function Sets the number of setup data bytes of the logic I<sup>2</sup>C bus signal search or queries the current setting.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:DATA:

BYTE { < NRf > }

:SEARch<x>:SLOGic:I2CBus[:SETup]:DATA:

BYTE? <x> = 1 or 2 <NRf> = 1 to 4

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:

BYTE 1

:SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
BYTE? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:

DATA:BYTE 1

# :SEARch<x>:SLOGic:I2CBus[:SETup]:

#### DATA: CONDition

Function Sets the determination method (match or not match)

of the data of the logic  $I^2C$  bus signal search or

queries the current setting.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:DATA:

CONDition {FALSe | TRUE}

:SEARch<x>:SLOGic:I2CBus[:SETup]:DATA:

CONDition? <x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:

CONDITION FALSE

:SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
CONDITION? -> :SEARCH1:SLOGIC:I2CBUS:

SETUP:DATA:CONDITION FALSE

# :SEARch<x>:SLOGic:I2CBus[:SETup]:

#### DATA: DPOSition

Function Sets the position for comparing the data pattern of

the logic I<sup>2</sup>C bus signal search or queries the current

setting.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:DATA:

DPOSition {<NRf>}

:SEARch<x>:SLOGic:I2CBus[:SETup]:DATA:

DPOSition? <x> = 1 or 2 <NRf> = 0 to 9999

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:

DPOSITION 1

:SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
DPOSITION? -> :SEARCH1:SLOGIC:I2CBUS:

SETUP:DATA:DPOSITION 1

# :SEARch<x>:SLOGic:I2CBus[:SETup]:

### DATA: HEXA<x>

Function Sets the data of the logic I<sup>2</sup>C bus signal search in

hexadecimal notation.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:DATA:

HEXA<x> {<String>}
<x> of SEARch<x> = 1 or 2
<x> of HEXA<x> = 1 to 4

<String> = 2 characters by combining '0' to 'F' and 'X'

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:

HEXA1 " AB"

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#### DATA: MODE

Function Enables/disables the data conditions of the logic I<sup>2</sup>C bus signal search or queries the current setting.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:DATA:

MODE {<Boolean>}

:SEARch<x>:SLOGic:I2CBus[:SETup]:DATA:

MODE? <x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:

MODE ON

:SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
MODE? -> :SEARCH1:SLOGIC:I2CBUS:

SETUP:DATA:MODE 1

# :SEARch<x>:SLOGic:I2CBus[:SETup]:

#### DATA: PATTern<x>

Function Sets the data of the logic I<sup>2</sup>C bus signal search in

binary notation or queries the current setting.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:DATA:

PATTern<x> {<String>}

:SEARch<x>:SLOGic:I2CBus[:SETup]:DATA:

PATTern<x>?

<x> of SEARch<x> = 1 or 2
<x> of PATTern<x> = 1 to 4

<String> = 8 characters by combining '0' to '1' and 'X'

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:

PATTERN1 " 10101011"

:SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
PATTERN1? -> :SEARCH1:SLOGIC:I2CBUS:
SETUP:DATA:PATTERN1 " 101010111"

## :SEARch<x>:SLOGic:I2CBus[:SETup]:

### DATA: PMODe

Function Sets the pattern comparison start position mode of

the logic I<sup>2</sup>C bus signal search or queries the current setting.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:DATA:

PMODe {DONTcare|SELect}

:SEARch<x>:SLOGic:I2CBus[:SETup]:DATA:

PMODe? <x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:

PMODE DONTCARE

:SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
PMODE? -> :SEARCH1:SLOGIC:I2CBUS:

SETUP:DATA:PMODE DONTCARE

# :SEARch<x>:SLOGic:I2CBus[:SETup]:

#### DATA: TRACe

Function Sets the data trace of the logic I<sup>2</sup>C bus signal search

or queries the current setting.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:DATA:

TRACe {A<y>}

:SEARch<x>:SLOGic:I2CBus[:SETup]:DATA:

TRACe? <x> = 1 or 2 <y> = 0 to 7

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:

TRACE A0

:SEARCH1:SLOGIC:I2CBUS:SETUP:DATA: TRACE? -> :SEARCH1:SLOGIC:I2CBUS:

SETUP:DATA:TRACE A0

# :SEARch<x>:SLOGic:I2CBus[:SETup]: GCAL1?

Function Queries all settings related to the general call of the

logic I<sup>2</sup>C bus signal search.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:GCALl?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:

GCALL: -> :SEARCH1:SLOGIC:I2CBUS:SETUP:
GCALL:BIT7MADDRESS:PATTERN " 1010101";:
SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL:

SBYTE BIT7MADDRESS

# :SEARch<x>:SLOGic:I2CBus[:SETup]:

# GCAL1:BIT7maddress?

Function Queries all settings related to the 7-bit master address of the general code of the logic I<sup>2</sup>C bus signal search.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:GCALl:

BIT7maddress? <x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL:

BIT7MADDRESS? -> :SEARCH1:SLOGIC: I2CBUS:SETUP:GCALL:BIT7MADDRESS:

PATTERN " 1010101"

#### :SEARch<x>:SLOGic:I2CBus[:SETup]:

# GCAL1:BIT7maddress:HEXA

Function Sets the 7-bit master address of the general call of the logic I<sup>2</sup>C bus signal search in hexadecimal

notation.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:GCALl:

 $\verb|BIT7maddress:HEXA| \{ < \verb|String>| \}$ 

< x > = 1 or 2

<String> = 2 characters by combining '0' to 'F' and 'X'

(bit 0 is fixed 1)

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL:

BIT7MADDRESS:HEXA " BA"

#### 5.22 SEARch Group :SEARch<x>:SLOGic:I2CBus[:SETup]: :SEARch<x>:SLOGic:I2CBus[:SETup]: GCAL1:BIT7maddress:PATTern NAIGnore? Sets the 7-bit master address of the general call of Function Function Queries all settings related to the NON ACK ignore the logic I<sup>2</sup>C bus signal search in binary notation or mode of the logic I<sup>2</sup>C bus signal search. queries the current setting. Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]: :SEARch<x>:SLOGic:I2CBus[:SETup]:GCALl: Syntax NAIGnore? BIT7maddress:PATTern {<String>} < x > = 1 or 2:SEARch<x>:SLOGic:I2CBus[:SETup]:GCALl: Example :SEARCH1:SLOGIC:I2CBUS:SETUP: BIT7maddress: PATTern? NAIGNORE? -> :SEARCH1:SLOGIC:I2CBUS: < x > = 1 or 2SETUP:NAIGNORE:HSMODE 1;RACCESS 1; <String> = 7 characters by combining '0' to '1' and 'X' SBYTE 1 Example :SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL: BIT7MADDRESS: PATTERN " 1010101" :SEARch<x>:SLOGic:I2CBus[:SETup]: :SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL: NAIGnore: HSMode BIT7MADDRESS: PATTERN? -> :SEARCH1: Function Sets whether to ignore NON ACK in high speed SLOGIC: I2CBUS: SETUP: GCALL: BIT7MADDRESS: mode of the logic I<sup>2</sup>C bus signal search or queries the PATTERN " 1010101" current setting. :SEARch<x>:SLOGic:I2CBus[:SETup]: Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]: NAIGnore:HSMode {<Boolean>} GCAL1:SBYTe (Second Byte) :SEARch<x>:SLOGic:I2CBus[:SETup]: Sets the second byte type of the general call of the Function NAIGnore: HSMode? logic I<sup>2</sup>C bus signal search or queries the current < x > = 1 or 2Example :SEARCH1:SLOGIC:I2CBUS:SETUP:NAIGNORE: setting. :SEARch<x>:SLOGic:I2CBus[:SETup]:GCALl: Syntax HSMODE ON SBYTe {BIT7maddress|DONTcare|H04|H06} :SEARCH1:SLOGIC:I2CBUS:SETUP:NAIGNORE: :SEARch<x>:SLOGic:I2CBus[:SETup]:GCALl: HSMODE? -> :SEARCH1:SLOGIC:I2CBUS: SBYTe? SETUP: NAIGNORE: HSMODE 1 < x > = 1 or 2Example :SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL: :SEARch<x>:SLOGic:I2CBus[:SETup]: SBYTE BIT7MADDRESS NAIGnore: RACCess :SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL: Function Sets whether to ignore NON ACK in read access SBYTE? -> :SEARCH1:SLOGIC:I2CBUS: mode of the logic I<sup>2</sup>C bus signal search or queries the SETUP: GCALL: SBYTE BIT7MADDRESS current setting. :SEARch<x>:SLOGic:I2CBus[:SETup]: Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]: NAIGnore: RACCess { < Boolean > } MODE :SEARch<x>:SLOGic:I2CBus[:SETup]: Function Sets the search mode of the logic I<sup>2</sup>C bus signal NAIGnore: RACCess? search or queries the current setting. < x > = 1 or 2Example :SEARCH1:SLOGIC:I2CBUS:SETUP:NAIGNORE:

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:MODE
{ADATa|ESTart|GCAL1|NAIGnore|SBHSmode}
:SEARch<x>:SLOGic:I2CBus[:SETup]:MODE?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:MODE ADATA

MODE ADATA

:SEARCH1:SLOGIC:I2CBUS:SETUP:
MODE? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:

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RACCESS ON

:SEARCH1:SLOGIC:I2CBUS:SETUP:NAIGNORE:

RACCESS? -> :SEARCH1:SLOGIC:I2CBUS:

SETUP: NAIGNORE: RACCESS 1

# :SEARch<x>:SLOGic:I2CBus[:SETup]: NAIGnore:SBYTe (Start Byte)

Function Sets whether to ignore NON ACK in the start byte of the  $I^2C$  bus trigger or queries the current setting.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:

NAIGnore:SBYTe {<Boolean>}

:SEARch<x>:SLOGic:I2CBus[:SETup]:

NAIGnore:SBYTe?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:NAIGNORE:

SBYTE ON

:SEARCH1:SLOGIC:I2CBUS:SETUP:NAIGNORE:

SBYTE? -> :SEARCH1:SLOGIC:I2CBUS:

SETUP: NAIGNORE: SBYTE 1

# :SEARch<x>:SLOGic:I2CBus[:SETup]: SBHSmode?

Function Queries all settings related to the start byte and high speed mode of the logic I<sup>2</sup>C bus signal search.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:

SBHSmode?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:

SBHSMODE? -> :SEARCH1:SLOGIC:I2CBUS:

SETUP:SBHSMODE:TYPE HSMODE

# :SEARch<x>:SLOGic:I2CBus[:SETup]:

#### SBHSmode: TYPE

Function Sets the type of start byte and high speed mode of

the logic I<sup>2</sup>C bus signal search or queries the current

setting.

Syntax :SEARch<x>:SLOGic:I2CBus[:SETup]:

SBHSmode:TYPE {HSMode|SBYTe}

:SEARch<x>:SLOGic:I2CBus[:SETup]:

SBHSmode: TYPE?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:SBHSMODE:

TYPE HSMODE

:SEARCH1:SLOGIC:I2CBUS:SETUP:SBHSMODE:

TYPE? -> :SEARCH1:SLOGIC:I2CBUS:

SETUP:SBHSMODE:TYPE HSMODE

#### :SEARch<x>:SLOGic:LINBus?

Function Queries all settings related to the logic LIN bus signal

search.

Syntax :SEARch<x>:SLOGic:LINBus?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:LINBUS? -> :SEARCH1:

SLOGIC:LINBUS:SETUP:BLENGTH 11;

BRATE 19200; DATA: BORDER BIG; BNUM 8; CONDITION TRUE; DATA1 0.0000000E+00;

DATA2 127.00000E+00; MSBLSB 7,0;

SIGN SIGN;:SEARCH1:SLOGIC:LINBUS:SETUP:

ERROR:CHECKSUM 0;FRAMING 0;PARITY 0;

SYNCH 0; TOUT 0; :SEARCH1:SLOGIC:LINBUS:

SETUP:ID:PATTERN "XXXXXX";:SEARCH1:

SLOGIC:LINBUS:SETUP:MODE IDDATA;

REVISION LIN2 0; SPOINT 50.0E+00;

TRACE A0

## :SEARch<x>:SLOGic:LINBus[:SETup]?

Function Queries all settings related to the setup of the logic

LIN bus signal search.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP? ->

:SEARCH1:SLOGIC:LINBUS:SETUP:

BLENGTH 11; BRATE 19200; DATA:

BORDER BIG; BNUM 8; CONDITION TRUE;

DATA1 0.0000000E+00;

DATA2 127.00000E+00; MSBLSB 7,0;

SIGN SIGN;:SEARCH1:SLOGIC:LINBUS:SETUP:

 ${\tt ERROR: CHECKSUM 0; FRAMING 0; PARITY 0;}$ 

SYNCH 0; TOUT 0;:SEARCH1:SLOGIC:LINBUS: SETUP:ID:PATTERN "XXXXXX";:SEARCH1:

SLOGIC:LINBUS:SETUP:MODE IDDATA;

REVISION LIN2\_0; SPOINT 50.0E+00;

TRACE A0

# :SEARch<x>:SLOGic:LINBus[:SETup]: BLENgth

Function Sets the logic LIN bus signal search break length or queries the current setting.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:

BLENgth {<NRf>}

:SEARch<x>:SLOGic:LINBus[:SETup]:

BLENgth?

< x > = 1, 2

<NRf> = 10 to 13

Example :SEARCH1:SLOGIC:LINBUS:SETUP:BLENGTH 10

:SEARCH1:SLOGIC:LINBUS:SETUP:BLENGTH?

-> :SEARCH1:SLOGIC:LINBUS:SETUP:

BLENGTH 10

# :SEARch<x>:SLOGic:LINBus[:SETup]: BRATe

Function Sets the bit rate (data transfer rate) of the logic LIN

bus signal search or queries the current setting.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:BRATe

{ <NRf > | USER, <NRf > }

:SEARch<x>:SLOGic:LINBus[:SETup]:BRATe?

< x > = 1 or 2

<NRf> = 1200, 2400, 4800, 9600, or 19200

<NRf> of USER = See the User's Manual (IM701361-

01E).

Example :SEARCH1:SLOGIC:LINBUS:SETUP:

BRATE 19200

:SEARCH1:SLOGIC:LINBUS:SETUP:

BRATE? -> :SEARCH1:SLOGIC:LINBUS:SETUP:

BRATE 19200

# :SEARch<x>:SLOGic:LINBus[:SETup]: DATA?

Function  $\;\;$  Queries all settings related to the data of the logic LIN

bus signal search.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:DATA?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:DATA? ->

:SEARCH1:SLOGIC:LINBUS:SETUP:DATA: BORDER BIG;BNUM 8;CONDITION TRUE;

DATA1 0.0000000E+00;

DATA2 127.00000E+00; MSBLSB 7,0;

SIGN SIGN

# :SEARch<x>:SLOGic:LINBus[:SETup]:

#### DATA: BNUM

Function Sets the number of bytes of the logic LIN bus signal

search or queries the current setting.

 $\verb|Syntax| : \verb|SEARch| < x> : \verb|SLOGic:LINBus| [:SETup] : \verb|DATA| :$ 

BNUM { < NRf > }

:SEARch<x>:SLOGic:LINBus[:SETup]:DATA:

BNUM?

< x > = 1 or 2

< NRf > = 1 to 8

Example :SEARCH1:SLOGIC:LINBUS:SETUP:DATA:

BNUM 1

:SEARCH1:SLOGIC:LINBUS:SETUP:DATA:
BNUM? -> :SEARCH1:SLOGIC:LINBUS:SETUP:

DATA:BNUM 1

# :SEARch<x>:SLOGic:LINBus[:SETup]: DATA:BORDer

Function Sets the data byte order of the logic LIN bus signal

search or queries the current setting.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:DATA:

BORDer {BIG|LITTle}

:SEARch<x>:SLOGic:LINBus[:SETup]:DATA:

BORDer? < x > = 1.2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:DATA:

BORDER BIG

:SEARCH1:SLOGIC:LINBUS:SETUP:DATA:

BORDER? -> :SEARCH1:SLOGIC:LINBUS:

SETUP:DATA:BORDER BIG

# :SEARch<x>:SLOGic:LINBus[:SETup]: DATA:CONDition

Function Sets the data condition of the logic LIN bus signal search or queries the current setting.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:DATA:

CONDition {BETWeen|DONTcare|FALSe|

GTHan | LTHan | ORANge | TRUE }

:SEARch<x>:SLOGic:LINBus[:SETup]:DATA:

CONDition?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:DATA:

CONDITION DONTCARE

:SEARCH1:SLOGIC:LINBUS:SETUP:DATA:
CONDITION? -> :SEARCH1:SLOGIC:LINBUS:

SETUP: DATA: CONDITION DONTCARE

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#### DATA:DATA<x>

Function Sets the comparison data of the logic LIN bus signal

search data or queries the current setting.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:DATA:

DATA<x> {<NRf>}

:SEARch<x>:SLOGic:LINBus[:SETup]:DATA:

DATA<x>?

<x> of SEARch<x> = 1 or 2 <x> of DATA<x> = 1 or 2

<NRf> = See the SB5000 User's Manual

Example :SEARCH1:SLOGIC:LINBUS:SETUP:DATA:

DATA1 1

:SEARCH1:SLOGIC:LINBUS:SETUP:DATA: DATA1? -> :SEARCH1:SLOGIC:LINBUS:SETUP: DATA:DATA1 1.000000E+00

Description • For :SEARch<x>:SLOGic:LINBus[:SETup]:DATA: CONDition GTHan, set using: SEARch<x>: SLOGic:LINBus[:SETup]:DATA:DATA1.

- For :SEARch<x>:SLOGic:LINBus[:SETup]:DATA: CONDition LTHan, set using: SEARch<x>:SLOGic: LINBus[:SETup]:DATA:DATA2.
- For :SEARch<x>:SLOGic:LINBus[:SETup]:DATA: CONDition BETWeen|ORANge, set small values with: SEARch<x>:SLOGic:LINBus[:SETup]:DATA: DATA1, and large values with: SEARch<x>: SLOGic:LINBus[:SETup]:DATA:DATA2.

# :SEARch<x>:SLOGic:LINBus[:SETup]:

# DATA: HEXA

Function Sets the data of the logic LIN bus signal search in

hexadecimal notation.

:SEARch<x>:SLOGic:LINBus[:SETup]:DATA: Syntax

HEXA {<String>}

< x > = 1 or 2

<String> = Up to 16 characters by combining '0' to 'F' and 'X' (varies depending on the BNUM setting)

Example :SEARCH1:SLOGIC:LINBUS:SETUP:DATA:

HEXA " 3B"

# :SEARch<x>:SLOGic:LINBus[:SETup]:DATA: MSBLsb

Function Sets the MSB/LSB bit of the logic LIN bus signal search or queries the current setting.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:DATA:

MSBLsb {<NRf>,<NRf>}

:SEARch<x>:SLOGic:LINBus[:SETup]:DATA:

MSBLsb? < x > = 1, 2

<NRf> = See the SB5000 User's Manual

Example :SEARCH1:SLOGIC:LINBUS:SETUP:DATA:

MSBLSB 1,0

:SEARCH1:SLOGIC:LINBUS:SETUP:DATA: MSBLSB? -> :SEARCH1:SLOGIC:LINBUS:

SETUP:DATA:MSBLSB 1,0

# :SEARch<x>:SLOGic:LINBus[:SETup]: DATA: PATTern

Function Sets the data of the logic LIN bus signal search in binary notation or queries the current setting.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:DATA:

PATTern {<String>}

:SEARch<x>:SLOGic:LINBus[:SETup]:DATA:

PATTern? < x > = 1 or 2

<String> = Up to 64 characters by combining '0' to '1' and 'X' (varies depending on the BNUM setting)

Example :SEARCH1:SLOGIC:LINBUS:SETUP:DATA:

PATTERN " 11011111"

:SEARCH1:SLOGIC:LINBUS:SETUP:DATA: PATTERN? -> :SEARCH1:SLOGIC:LINBUS: SETUP:DATA:PATTERN " 11011111"

# :SEARch<x>:SLOGic:LINBus[:SETup]:

DATA: SIGN

Function Sets the data sign of the logic LIN bus signal search or queries the current setting.

Syntax

:SEARch<x>:SLOGic:LINBus[:SETup]:DATA:

SIGN {SIGN|UNSign}

:SEARch<x>:SLOGic:LINBus[:SETup]:DATA:

SIGN?

< x > = 1, 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:DATA:

SIGN SIGN

:SEARCH1:SLOGIC:LINBUS:SETUP:DATA:SIGN?

-> :SEARCH1:SLOGIC:LINBUS:SETUP:DATA:

SIGN SIGN

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#### ERRor?

Function Queries all settings related to the logic LIN bus signal

search error.Syntax :SEARch<x>:SLOGic:

LINBus[:SETup]:ERRor?

< x > = 1, 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:ERROR? ->

:SEARCH1:SLOGIC:LINBUS:SETUP:ERROR: CHECKSUM 1;FRAMING 1;PARITY 1;SYNCH 1;

TOUT 1

### :SEARch<x>:SLOGic:LINBus[:SETup]:

#### ERRor: CHECksum

Function Sets the logic LIN bus signal search Checksum error or queries the current setting.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:ERRor:

CHECksum {<Boolean>}

:SEARch<x>:SLOGic:LINBus[:SETup]:ERRor:

CHECksum?

Example :SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:

CHECKSUM ON

:SEARCH1:SLOGIC:LINBUS:SETUP:ERROR: CHECKSUM? -> :SEARCH1:SLOGIC:LINBUS:

SETUP: ERROR: CHECKSUM 1

#### :SEARch<x>:SLOGic:LINBus[:SETup]:

#### ERRor: FRAMing

Function Sets the logic LIN bus signal search Framing error or queries the current setting.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:ERRor:

FRAMing {<Boolean>}

:SEARch<x>:SLOGic:LINBus[:SETup]:ERRor:

FRAMing? < x > = 1, 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:

FRAMING ON

:SEARCH1:SLOGIC:LINBUS:SETUP:ERROR: FRAMING? -> :SEARCH1:SLOGIC:LINBUS:

SETUP: ERROR: FRAMING 1

# :SEARch<x>:SLOGic:LINBus[:SETup]:

#### ERRor: PARity

Function Sets the logic LIN bus signal search Parity error or

queries the current setting.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:ERRor:

PARity {<Boolean>}

:SEARch<x>:SLOGic:LINBus[:SETup]:ERRor:

PARity?

< x > = 1, 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:

PARITY ON

:SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:

PARITY? -> :SEARCH1:SLOGIC:LINBUS:

SETUP: ERROR: PARITY 1

# :SEARch<x>:SLOGic:LINBus[:SETup]:

#### ERRor: SYNCh

Function Sets the logic LIN bus signal search Synch error or queries the current setting.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:ERRor:

SYNCh {<Boolean>}

:SEARch<x>:SLOGic:LINBus[:SETup]:ERRor:

SYNCh?

< x > = 1, 2

 ${\tt Example} \quad : {\tt SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:}$ 

SYNCH ON

:SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:

SYNCH? -> :SEARCH1:SLOGIC:LINBUS:SETUP:

ERROR:SYNCH 1

#### :SEARch<x>:SLOGic:LINBus[:SETup]:

## ERRor: TOUT

Function Sets the logic LIN bus signal search Timeout error or queries the current setting.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:ERRor:

TOUT {<Boolean>}

:SEARch<x>:SLOGic:LINBus[:SETup]:ERRor:

TOUT?

< x > = 1, 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:

TOUT ON

:SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:

TOUT? -> :SEARCH1:SLOGIC:LINBUS:SETUP:

ERROR:TOUT 1

## :SEARch<x>:SLOGic:LINBus[:SETup]:ID?

Function Queries all settings related to the ID of the logic LIN bus signal search.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:ID?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:

ID? -> :SEARCH1:SLOGIC:LINBUS:SETUP:

ID:PATTERN " 101111"

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# :SEARch<x>:SLOGic:LINBus[:SETup]:ID:

Function Sets the ID of the logic LIN bus signal search in

hexadecimal notation.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:ID:

HEXA {<String>}
<x> = 1 or 2

<String> = 2 characters by combining '0' to 'F' and 'X'

Example :SEARCH1:SLOGIC:LINBUS:SETUP:ID:

HEXA " 2A"

# :SEARch<x>:SLOGic:LINBus[:SETup]:ID: PATTern

Function Sets the ID of the logic LIN bus signal search in binary notation or queries the current setting.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:ID:

PATTern {<String>}

:SEARch<x>:SLOGic:LINBus[:SETup]:ID:

PATTern? <x> = 1 or 2

<String> = 6 characters by combining '0' to '1' and 'X'

Example :SEARCH1:SLOGIC:LINBUS:SETUP:ID:

PATTERN " 101111"

:SEARCH1:SLOGIC:LINBUS:SETUP:ID: PATTERN? -> :SEARCH1:SLOGIC:LINBUS:

SETUP:ID:PATTERN " 1011111"

# :SEARch<x>:SLOGic:LINBus[:SETup]:

# MODE

Function Sets the logic LIN bus signal search mode or queries

the current setting.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:

MODE {ERRor|IDData|SYNCh}

:SEARch<x>:SLOGic:LINBus[:SETup]:MODE?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:MODE

IDDATA

:SEARCH1:SLOGIC:LINBUS:SETUP:

MODE? -> :SEARCH1:SLOGIC:LINBUS:SETUP:

MODE IDDATA

# :SEARch<x>:SLOGic:LINBus[:SETup]:

#### REVision

Function Sets the logic LIN bus signal search revision (1.3 or

2.0) or queries the current setting.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:

REVision {LIN1\_3 | LIN2\_0}

:SEARch<x>:SLOGic:LINBus[:SETup]:

REVision? < x > = 1.2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:

REVISION LIN1\_3

:SEARCH1:SLOGIC:LINBUS:SETUP:REVISION?

-> :SEARCH1:SLOGIC:LINBUS:SETUP:

REVISION LIN1 3

# :SEARch<x>:SLOGic:LINBus[:SETup]: SPOint

Function Sets the logic LIN bus signal search sampling point or queries the current setting.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:

SPOint {<NRf>}

:SEARch<x>:SLOGic:LINBus[:SETup]:

SPOint? <x> = 1.2

<NRf> = 18.8 to 90.6(%)

Example :SEARCH1:SLOGIC:LINBUS:SETUP:

SPOINT 18.8

:SEARCH1:SLOGIC:LINBUS:SETUP:SPOINT?
-> :SEARCH1:SLOGIC:LINBUS:SETUP:

SPOINT 18.8E+00

#### :SEARch<x>:SLOGic:LINBus[:SETup]:

#### TRACe

Function Sets the trace of the logic LIN bus signal search or queries the current setting.

Syntax :SEARch<x>:SLOGic:LINBus[:SETup]:

TRACe {A<y>}

:SEARch<x>:SLOGic:LINBus[:SETup]:TRACe?

<x> = 1 or 2<y> = 0 to 7

Example :SEARCH1:SLOGIC:LINBUS:SETUP:TRACE A0

:SEARCH1:SLOGIC:LINBUS:SETUP:

TRACE? -> :SEARCH1:SLOGIC:LINBUS:SETUP:

TRACE A0

#### :SEARch<x>:SLOGic:POLarity

Function Sets the logic search polarity or queries the current setting.

Syntax :SEARch<x>:SLOGic:POLarity {ENTer|EXIT| FALL|RISE|FALSe|NEGative|POSitive|TRUE}

:SEARch<x>:SLOGic:POLarity?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:POLARITY FALL

:SEARCH1:SLOGIC:POLARITY? -> :SEARCH1:

SLOGIC: POLARITY FALL

Description• {FALL|RISE} valid when :SEARch<x>:TYPE LEDGe|LQUalify.

- {ENTer|EXIT} valid when :SEARch<x>:TYPE LSTate.
- {NEGative|POSitive} valid when :SEARch<x>:
   TYPE LWIDth and :SEARch<x>:SLOGic:
   WIDTh:TYPE PQUalify|PULSe.
- FALSe|TRUE} valid when :SEARch<x>:
   TYPE LWIDth and :SEARch<x>:SLOGic:WIDTh:
   TYPE PState.

#### :SEARch<x>:SLOGic:SOURce

Function Sets the logic search source or queries the current

setting.

 $\verb|Syntax| : SEARch< x> : SLOGic: SOURce {A< y> |B< y> |}$ 

C < y > | D < y >

:SEARch<x>:SLOGic:SOURce?

<x> = 1 or 2<y> = 0 to 7

Example :SEARCH1:SLOGIC:SOURCE A0

:SEARCH1:SLOGIC:SOURCE? -> :SEARCH1:

SLOGIC: SOURCE A0

Description For the SB5310, only {A<y>} are valid.

# :SEARch<x>:SLOGic:SPATtern?

(Serial Pattern)

Function Queries all settings related to logic serial pattern

search.

Syntax :SEARch<x>:SLOGic:SPATtern?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:SPATTERN?

-> :SEARCH1:SLOGIC:SPATTERN:CLOCK:
MODE 1;POLARITY FALL;SOURCE A0;:
SEARCH1:SLOGIC:SPATTERN:CS 1;LATCH:
TRACE A0;POLARITY FALL;:SEARCH1:SLOGIC:
SPATTERNSETUP:BITRATE 1.0000000E+00;
DATA:ACTIVE HIGH;TRACE A0;:SEARCH1:

SLOGIC:SPATTERN:SETUP:
PATTERN "110011011111"

# :SEARch<x>:SLOGic:SPATtern:CLOCk?

Function Queries all settings related to the clock for the logic serial pattern search.

Syntax :SEARch<x>:SLOGic:SPATtern:CLOCk?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:SPATTERN:CLOCK?

-> :SEARCH1:SLOGIC:SPATTERN:CLOCK:
MODE 1;POLARITY FALL;SOURCE A0

#### :SEARch<x>:SLOGic:SPATtern:CLOCk:MODE

Function Enables/disables the clock for the logic serial analysis pattern search or queries the current setting.

 $\verb|Syntax| : \verb|SEARch|<|x>: \verb|SLOGic:|SPATtern:|CLOCk:|$ 

MODE {<Boolean>}

:SEARch<x>:SLOGic:SPATtern:CLOCk:MODE?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:SPATTERN:CLOCK:MODE ON

:SEARCH1:SLOGIC:SPATTERN:CLOCK:MODE?
-> :SEARCH1:SLOGIC:SPATTERN:CLOCK:

MODE 1

# :SEARch<x>:SLOGic:SPATtern:CLOCk:

#### POLarity

Function Sets the polarity of the clock trace of the logic serial

pattern search or queries the current setting.

Syntax :SEARch<x>:SLOGic:SPATtern:CLOCk:

POLarity {FALL | RISE}

:SEARch<x>:SLOGic:SPATtern:CLOCk:

POLarity? <x> = 1 or 2

Example :SEARCH1:SLOGIC:SPATTERN:CLOCK:

POLARITY FALL

:SEARCH1:SLOGIC:SPATTERN:CLOCK:

POLARITY?

-> :SEARCH1:SLOGIC:SPATTERN:CLOCK:

POLARITY FALL

Description This command valid when :SEARch<x>:SLOGic:

SPATtern:CLOCk:MODE ON.

# :SEARch<x>:SLOGic:SPATtern:CLOCk:

#### SOURce

Function Sets the clock trace for the logic serial pattern search

or queries the current setting.

Syntax :SEARch<x>:SLOGic:SPATtern:CLOCk:

SOURce  $\{A < y > \}$ 

:SEARch<x>:SLOGic:SPATtern:CLOCk:

SOURce? <x> = 1 or 2 <y> = 0 to 7

Example :SEARCH1:SLOGIC:SPATTERN:CLOCK:

SOURCE A0

:SEARCH1:SLOGIC:SPATTERN:CLOCK:SOURCE?

-> :SEARCH1:SLOGIC:SPATTERN:CLOCK:

SOURCE A0

 ${\tt Description \bullet \ \ This\ command\ valid\ when\ :SEARch< x>:SLOGic:}$ 

SPATtern:CLOCk:MODE ON.

## :SEARch<x>:SLOGic:SPATtern:CS

Function Enables/disables the chip select for the logic serial analysis pattern search or queries the current setting.

Syntax :SEARch<x>:SLOGic:SPATtern:

CS {<Boolean>}

:SEARch<x>:SLOGic:SPATtern:CS?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:SPATTERN:CS ON

:SEARCH1:SLOGIC:SPATTERN:CS?

-> :SEARCH1:SLOGIC:SPATTERN:CS 1

Description This command valid when :SEARch<x>:SLOGic: SPATtern:CLOCk:MODE ON.

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#### :SEARch<x>:SLOGic:SPATtern:LATCh?

Function Queries all settings related to the latch for the logic serial pattern search.

Syntax :SEARch<x>:SLOGic:SPATtern:LATCh?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:SPATTERN:LATCH?

-> :SEARCH1:SLOGIC:SPATTERN:LATCH:

TRACE A0; POLARITY FALL

# :SEARch<x>:SLOGic:SPATtern:LATCh: POLarity

Function Sets the polarity of the latch trace of the logic serial

pattern search or queries the current setting.

Syntax :SEARch<x>:SLOGic:SPATtern:LATCh:

POLarity {FALL|RISE}

:SEARch<x>:SLOGic:SPATtern:LATCh:

POLarity? <x> = 1 or 2

Example :SEARCH1:SLOGIC:SPATTERN:LATCH:

POLARITY FALL

:SEARCH1:SLOGIC:SPATTERN:LATCH:

POLARITY?

-> :SEARCH1:SLOGIC:SPATTERN:LATCH:

POLARITY FALL

Description • This command valid when :SEARch<x>:SLOGic: SPATtern:CLOCk:MODE ON.

• Invalid for :SEARch<x>:SLOGic:SPATtern:

LATCh:TRACe DONTcare.

### :SEARch<x>:SLOGic:SPATtern:LATCh:TRACe

Function Sets the latch trace for the logic serial pattern search or queries the current setting.

Syntax :SEARch<x>:SLOGic:SPATtern:LATCh:

TRACe {A<y>|DONTcare}

:SEARch<x>:SLOGic:SPATtern:LATCh:

TRACe? <x> = 1 or 2 <y> = 0 to 7

Example :SEARCH1:SLOGIC:SPATTERN:LATCH:TRACE A0

:SEARCH1:SLOGIC:SPATTERN:LATCH:TRACE?
-> :SEARCH1:SLOGIC:SPATTERN:LATCH:

TRACE A0

Description • This command valid when :SEARch<x>:SLOGic: SPATtern:CLOCk:MODE ON.

# :SEARch<x>:SLOGic:SPATtern[:SETup]?

Function Queries all settings related to the setup for the logic serial pattern search.

Syntax :SEARch<x>:SLOGic:SPATtern[:SETup]?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:SPATTERN:SETUP?
 -> :SEARCH1:SLOGIC:SPATTERN:SETUP:

BITRATE 1.0000000E+00;DATA:ACTIVE HIGH;
TRACE A0;:SEARCH1:SLOGIC:SPATTERN:
SETUP:PATTERN "11001101111011111"

# :SEARch<x>:SLOGic:SPATtern[:SETup]: BITRate

Function Sets the bit rate for the logic serial pattern search or queries the current setting.

Syntax :SEARch<x>:SLOGic:SPATtern[:SETup]:

BITRate {<NRf>}

:SEARch<x>:SLOGic:SPATtern[:SETup]:

BITRate? <x> = 1 or 2 <NRf>=1 to 1G(bps)

Example :SEARCH1:SLOGIC:SPATTERN:SETUP:

BITRATE 1

: SEARCH1:SLOGIC:SPATTERN:SETUP:

BITRATE?

-> :SEARCH1:SLOGIC:SPATTERN:SETUP:

BITRATE 1.000E+00

Description This command valid when :SEARch<x>:SLOGic:

SPATtern:CLOCk:MODE is OFF.

# :SEARch<x>:SLOGic:SPATtern[:SETup]:

# CLEar

Function Clears (Don't care) all patterns of the logic serial

pattern search.

Syntax :SEARch<x>:SLOGic:SPATtern[:SETup]:

CLEar <x> = 1 or 2

Example :SEARCH1:SLOGIC:SPATTERN:SETUP:CLEAR

# :SEARch<x>:SLOGic:SPATtern[:SETup]: DATA?

Function Queries all settings related to the data for the logic serial pattern search.

Syntax :SEARch<x>:SLOGic:SPATtern[:SETup]:

DATA?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:SPATTERN:SETUP:DATA?

-> :SEARCH1:SLOGIC:SPATTERN:SETUP:DATA:

ACTIVE HIGH; TRACE A0

# :SEARch<x>:SLOGic:SPATtern[:SETup]: DATA:ACTive

Function Sets the active trace level of the data for the logic serial pattern search or queries the current setting.

Syntax :SEARch<x>:SLOGic:SPATtern[:SETup]:

DATA: ACTive {HIGH|LOW}

:SEARch<x>:SLOGic:SPATtern[:SETup]:

DATA:ACTive? <x> = 1 or 2

Example :SEARCH1:SLOGIC:SPATTERN:SETUP:DATA:

ACTIVE HIGH

:SEARCH1:SLOGIC:SPATTERN:SETUP:DATA:

ACTIVE?

-> :SEARCH1:SLOGIC:SPATTERN:SETUP:DATA:

ACTIVE HIGH

# :SEARch<x>:SLOGic:SPATtern[:SETup]: DATA:TRACe

Function Sets the trace of the data for the logic serial pattern search or queries the current setting.

Syntax :SEARch<x>:SLOGic:SPATtern[:SETup]:

DATA: TRACe {A<y>}

:SEARch<x>:SLOGic:SPATtern[:SETup]:

DATA: TRACe? <x> = 1 or 2 <y> = 0 to 7

Example :SEARCH1:SLOGIC:SPATTERN:SETUP:DATA:

TRACE A0

:SEARCH1:SLOGIC:SPATTERN:SETUP:DATA:

TRACE?

-> :SEARCH1:SLOGIC:SPATTERN:SETUP:DATA:

TRACE A0

# :SEARch<x>:SLOGic:SPATtern[:SETup]:

Function Sets the pattern of the logic serial pattern search in hexadecimal notation.

Syntax :SEARch<x>:SLOGic:SPATtern[:SETup]:

HEXA {<string>}

< x > = 1 or 2

<string> = combination of up to 32 characters (0-F

and X)

Example :SEARCH1:SLOGIC:SPATTERN:SETUP:

HEXA "ABCD"

# :SEARch<x>:SLOGic:SPATtern[:SETup]: PATTern

Function Sets the pattern of the logic serial pattern search in binary notation, or queries the current setting.

Syntax :SEARch<x>:SLOGic:SPATtern[:SETup]:

PATTern {<string>}

:SEARch<x>:SLOGic:SPATtern[:SETup]:

PATTern?

< x > = 1 or 2

<string> = combination of up to 128 characters (0, 1,

and X)

Example :SEARCH1:SLOGIC:SPATTERN:SETUP:

PATTERN "1100110111101111"

:SEARCH1:SLOGIC:SPATTERN:SETUP:

PATTERN?

-> :SEARCH1:SLOGIC:SPATTERN:SETUP:

PATTERN "1100110111101111"

#### :SEARch<x>:SLOGic:SPIBus?

Function Queries all settings related to the logic SPI bus signal

search.

Syntax :SEARch<x>:SLOGic:SPIBus?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:SPIBUS? -> :SEARCH1:

SLOGIC:SPIBUS:CLOCK:POLARITY FALL; SOURCE A0;:SEARCH1:SLOGIC:SPIBUS:CS: ACTIVE HIGH;TRACE A0;:SEARCH1:SLOGIC: SPIBUSSETUP:BITORDER LSBFIRST;DATA1:

BYTE 1; CONDITION FALSE; DPOSITION 1;

PATTERN1 " 11101111";

PATTERN2 " XXXXXXXX";

PATTERN3 " XXXXXXXX";

PATTERN4 " XXXXXXXX"; TRACE A0; :SEARCH1:

SLOGIC:SPIBUS:SETUP:DATA2:BYTE 1;

CONDITION TRUE; DPOSITION 0;

PATTERN1 " XXXXXXXX";

PATTERN2 " XXXXXXXX";

PATTERN3 " XXXXXXXX";

PATTERN4 " XXXXXXXX"; TRACE A2;:

SEARCH1:SLOGIC:SPIBUS:SETUP:MODE WIRE3

#### :SEARch<x>:SLOGic:SPIBus:CLOCk?

Function Queries all settings related to the clock signal channel

of the logic SPI bus signal search.

Syntax :SEARch<x>:SLOGic:SPIBus:CLOCk?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:SPIBUS:

CLOCK? -> :SEARCH1:SLOGIC:SPIBUS: CLOCK:POLARITY FALL;SOURCE A0

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#### :SEARch<x>:SLOGic:SPIBus:CLOCk:

#### POLarity

Function Sets the polarity of the clock signal channel of the

logic SPI bus signal search or queries the current

setting.

Syntax :SEARch<x>:SLOGic:SPIBus:CLOCk:

POLarity {FALL | RISE}

:SEARch<x>:SLOGic:SPIBus:CLOCk:

POLarity? <x> = 1 or 2

Example :SEARCH1:SLOGIC:SPIBUS:CLOCK:

POLARITY FALL

:SEARCH1:SLOGIC:SPIBUS:CLOCK:

POLARITY? -> :SEARCH1:SLOGIC:SPIBUS:

CLOCK: POLARITY FALL

# :SEARch<x>:SLOGic:SPIBus:CLOCk:

#### SOURce

Function Sets the clock signal channel of the logic SPI bus

signal search or queries the current setting.

Syntax :SEARch<x>:SLOGic:SPIBus:CLOCk:

SOURce {A<y>}

:SEARch<x>:SLOGic:SPIBus:CLOCk:SOURce?

<x> = 1 or 2<y> = 0 to 7

Example :SEARCH1:SLOGIC:SPIBUS:CLOCK:SOURCE A0

:SEARCH1:SLOGIC:SPIBUS:CLOCK:
SOURCE? -> :SEARCH1:SLOGIC:SPIBUS:

CLOCK: SOURCE A0

# :SEARch<x>:SLOGic:SPIBus:CS?

Function Queries all settings related to the chip select signal channel of the logic SPI bus signal search.

Syntax :SEARch<x>:SLOGic:SPIBus:CS?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:SPIBUS:CS? -> :SEARCH1:

SLOGIC:SPIBUS:CS:ACTIVE HIGH;TRACE A0

# :SEARch<x>:SLOGic:SPIBus:CS:ACTive

Function Sets the active level of the chip select signal channel of the logic SPI bus signal search or queries the

current setting.

Syntax :SEARch<x>:SLOGic:SPIBus:CS:

ACTive {HIGH|LOW}

:SEARch<x>:SLOGic:SPIBus:CS:ACTive?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:SPIBUS:CS:ACTIVE HIGH

:SEARCH1:SLOGIC:SPIBUS:CS:

ACTIVE? -> :SEARCH1:SLOGIC:SPIBUS:CS:

ACTIVE HIGH

#### :SEARch<x>:SLOGic:SPIBus:CS:TRACe

Function Sets the chip select signal channel of the logic SPI

bus signal search or queries the current setting.

Syntax :SEARch<x>:SLOGic:SPIBus:CS:TRACe

 $\{A < y > \}$ 

:SEARch<x>:SLOGic:SPIBus:CS:TRACe?

< x > = 1 or 2< y > = 0 to 7

Example :SEARCH1:SLOGIC:SPIBUS:CS:TRACE A0

:SEARCH1:SLOGIC:SPIBUS:CS:

TRACE? -> :SEARCH1:SLOGIC:SPIBUS:CS:

TRACE A0

#### :SEARch<x>:SLOGic:SPIBus[:SETup]?

Function Queries all settings related to the setup of the logic

SPI bus signal search.

Syntax :SEARch<x>:SLOGic:SPIBus[:SETup]?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:SPIBUS:SETUP?

-> :SEARCH1:SLOGIC:SPIBUS:SETUP :BITORDER LSBFIRST;DATA1:BYTE 1

; CONDITION FALSE; DPOSITION 1 ; PATTERN1 " 11101111"

; PATTERN2 " XXXXXXXX"

; PATTERN3 " XXXXXXXX"

; PATTERN4 " XXXXXXXX"; TRACE A0; : SEARCH1

:SLOGIC:SPIBUS:SETUP:DATA2:BYTE 1

; CONDITION TRUE; DPOSITION 0

; PATTERN1 " XXXXXXXX"

; PATTERN2 " XXXXXXXX"

; PATTERN3 " XXXXXXXX"

; PATTERN4 " XXXXXXXX"; TRACE A2;

:SEARCH1:SLOGIC:SPIBUS:SETUP:MODE WIRE3

# :SEARch<x>:SLOGic:SPIBus[:SETup]:

### BITorder

Function Sets the bit order of the logic SPI bus signal search

or queries the current setting.

Syntax :SEARch<x>:SLOGic:SPIBus[:SETup]:

BITorder {LSBFirst|MSBFirst}
:SEARch<x>:SLOGic:SPIBus[:SETup]:

BITorder? <x> = 1 or 2

Example :SEARCH1:SLOGIC:SPIBUS:SETUP:

BITORDER LSBFIRST

:SEARCH1:SLOGIC:SPIBUS:SETUP:

BITORDER? -> :SEARCH1:SLOGIC:SPIBUS:

SETUP:BITORDER LSBFIRST

#### :SEARch<x>:SLOGic:SPIBus[:SETup]: :SEARch<x>:SLOGic:SPIBus[:SETup]: DATA<x>? DATA<x>:DPOSition Function Queries all settings related to each data of the logic Function Sets the pattern comparison start position of the logic SPI bus signal search. SPI bus signal search or queries the current setting. Syntax :SEARch<x>:SLOGic:SPIBus[:SETup]: Syntax :SEARch<x>:SLOGic:SPIBus[:SETup]: DATA<x>:DPOSition {<NRf>} DATA<x>? <x> of SEARch<x> = 1 or 2 :SEARch<x>:SLOGic:SPIBus[:SETup]: <x> of DATA<x> = 1 or 2 DATA<x>:DPOSition? <x> of SEARch<x> = 1 or 2 Example :SEARCH1:SLOGIC:SPIBUS:SETUP: <x> of DATA<x> = 1 or 2 DATA1? -> :SEARCH1:SLOGIC:SPIBUS:SETUP: DATA1:BYTE 1; CONDITION FALSE; <NRf> = 0 to 9999 DPOSITION 1; PATTERN1 " 11101111"; Example :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1: PATTERN2 " XXXXXXXX"; DPOSITION 1 PATTERN3 " XXXXXXXX"; :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1: PATTERN4 " XXXXXXXX"; TRACE A0 DPOSITION? -> :SEARCH1:SLOGIC:SPIBUS: Description DATA2 is valid when:SEARch<x>:SLOGic: SETUP:DATA1:DPOSITION 1 SPIBus[:SETup]:MODE WIRE4 is specified. :SEARch<x>:SLOGic:SPIBus[:SETup]: :SEARch<x>:SLOGic:SPIBus[:SETup]: DATA<x>: HEXA<x> Function Sets the data of the logic SPI bus signal search in DATA<x>:BYTE hexadecimal notation. Function Sets the data size (in bytes) of each data of the logic Syntax :SEARch<x>:SLOGic:SPIBus[:SETup]: SPI bus signal search or queries the current setting. DATA<x>:HEXA<x> {<String>} Syntax :SEARch<x>:SLOGic:SPIBus[:SETup]: <x> of SEARch<x> = 1 or 2 DATA<x>:BYTE {<NRf>} <x> of DATA<x> = 1 or 2 :SEARch<x>:SLOGic:SPIBus[:SETup]: <x> of HEXA<x> = 1 to 4 DATA<x>:BYTE? <String> = 2 characters by combining '0' to 'F' and 'X' <x> of SEARch<x> = 1 or 2 Example :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1: <x> of DATA<x> = 1 or 2 HEXA1 " EF" < NRf > = 1 to 4Example :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1: :SEARch<x>:SLOGic:SPIBus[:SETup]: BYTE 1 :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1: DATA<x>: PATTern<x> BYTE? -> :SEARCH1:SLOGIC:SPIBUS:SETUP: Function Sets the data of the logic SPI bus signal search in DATA1:BYTE 1 binary notation or queries the current setting. Syntax :SEARch<x>:SLOGic:SPIBus[:SETup]: :SEARch<x>:SLOGic:SPIBus[:SETup]: DATA<x>:PATTern<x> {<String>} :SEARch<x>:SLOGic:SPIBus[:SETup]: DATA<x>: CONDition DATA<x>: PATTern<x>? Function Sets the determination method (match/mismatch) of <x> of SEARch<x> = 1 or 2 the data of the logic SPI bus signal search or queries <x> of DATA<x> = 1 or 2 the current setting. <x> of PATTern<x> = 1 to 4 Syntax :SEARch<x>:SLOGic:SPIBus[:SETup]: <String> = 8 characters by combining '0' to '1' and 'X' DATA<x>: CONDition {FALSe | TRUE} :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1: Example :SEARch<x>:SLOGic:SPIBus[:SETup]: PATTERN1 " 11101111" DATA<x>: CONDition? :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1: <x> of SEARch<x> = 1 or 2 PATTERN1? -> :SEARCH1:SLOGIC:SPIBUS: <x> of DATA<x> = 1 or 2 SETUP:DATA1:PATTERN1 " 11101111" Example :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1: CONDITION FALSE :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1: CONDITION? -> :SEARCH1:SLOGIC:SPIBUS:

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SETUP: DATA1: CONDITION FALSE

#### DATA<x>:TRACe

Function Sets the source channel of each data of the logic SPI

bus signal search or queries the current setting.

Syntax :SEARch<x>:SLOGic:SPIBus[:SETup]:

DATA<x>:TRACe  $\{A<y>\}$ 

:SEARch<x>:SLOGic:SPIBus[:SETup]:

DATA<x>:TRACe?

<x> of SEARch<x> = 1 or 2 <x> of DATA<x> = 1 or 2

<y> = 0 to 7

Example :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1:

TRACE A0

:SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1: TRACE? -> :SEARCH1:SLOGIC:SPIBUS:

SETUP: DATA1: TRACE A0

## :SEARch<x>:SLOGic:SPIBus[:SETup]:

#### MODE

Function Sets the wiring system of the logic SPI bus signal

search (three-wire or four-wire) or queries the current

setting.

Syntax :SEARch<x>:SLOGic:SPIBus[:SETup]:

MODE {WIRE3 | WIRE4 }

:SEARch<x>:SLOGic:SPIBus[:SETup]:MODE?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:SPIBUS:SETUP:MODE WIRE3

:SEARCH1:SLOGIC:SPIBUS:SETUP:

MODE? -> :SEARCH1:SLOGIC:SPIBUS:SETUP:

MODE WIRE3

#### :SEARch<x>:SLOGic:STATe?

Function Queries all settings related to the logic state search.

Syntax :SEARch<x>:SLOGic:STATe?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:STATE?

-> :SEARCH1:SLOGIC:STATE:BIT:A0 LOW;

A1 LOW; A2 LOW; A3 LOW; A4 HIGH; A5 HIGH;

A6 HIGH; A7 HIGH; B0 LOW; B1 LOW; B2 LOW;

B3 LOW; B4 HIGH; B5 HIGH; B6 HIGH; B7 HIGH;

C0 LOW; C1 LOW; C2 LOW; C3 LOW; C4 HIGH;

C5 HIGH; C6 HIGH; C7 HIGH; D0 LOW; D1 LOW;

D2 LOW; D3 LOW; D4 HIGH; D5 HIGH; D6 HIGH;

D7 HIGH;LOGIC AND;:SEARCH1:SLOGIC: STATE:GROUP1:CONDITION DONTCARE;

DATA1 0.0000000E+00;

DATA2 255.00000E+00;

\_\_\_\_\_\_

PATTERN "1111000011110000111100001111

0000";:SEARCH1:SLOGIC:STATE:GROUP2:

CONDITION DONTCARE; DATA1 0.0000000E+00;

DATA2 1.0000000E+00; PATTERN "";:

SEARCH1:SLOGIC:STATE:GROUP3:

CONDITION DONTCARE; DATA1 0.000000E+00;

DATA2 1.0000000E+00; PATTERN "";:

SEARCH1:SLOGIC:STATE:GROUP4:

CONDITION DONTCARE; DATA1 0.0000000E+00;

DATA2 1.0000000E+00;PATTERN "";:

SEARCH1:SLOGIC:STATE:GROUP5:

CONDITION DONTCARE; DATA1 0.0000000E+00;

DATA2 0.0000000E+00; PATTERN "";: SEARCH1:SLOGIC:STATE:TYPE BIT

# 5.22 SEARch Group :SEARch<x>:SLOGic:STATe:BIT? Function Queries all settings related to the bits of the logic state search. Syntax :SEARch<x>:SLOGic:STATe:BIT? < x > = 1 or 2Example :SEARCH1:SLOGIC:STATE:BIT? -> :SEARCH1:SLOGIC:STATE:BIT: A0 DONTCARE; A1 DONTCARE; A2 DONTCARE; A3 DONTCARE; A4 DONTCARE; A5 DONTCARE; A6 DONTCARE; A7 DONTCARE; B0 DONTCARE; B1 DONTCARE; B2 DONTCARE; B3 DONTCARE; B4 DONTCARE; B5 DONTCARE; B6 DONTCARE; B7 DONTCARE; C0 DONTCARE; C1 DONTCARE; C2 DONTCARE; C3 DONTCARE; C4 DONTCARE; C5 DONTCARE; C6 DONTCARE; C7 DONTCARE; DO DONTCARE; D1 DONTCARE; D2 DONTCARE; D3 DONTCARE; D4 DONTCARE; D5 DONTCARE; D6 DONTCARE; D7 DONTCARE; LOGIC AND :SEARch<x>:SLOGic:STATe:BIT:{A<x> B<x>|C<x>|D<x>Function Sets the truth conditions for each bit of the logic state search or queries the current setting. :SEARch<x>:SLOGic:STATe:BIT:{A<x>| Syntax B<x>|C<x>|D<x> {DONTcare | HIGH | LOW } :SEARch<x>:SLOGic:STATe:BIT:{A<x>| B<x>|C<x>|D<x>? < x > = 1 or 2<y> = 0 to 7Example :SEARCH1:SLOGIC:STATE:BIT:A0 DONTCARE :SEARCH1:SLOGIC:STATE:BIT:A0? -> :SEARCH1:SLOGIC:STATE:BIT: A0 DONTCARE Description For the SB5310, only {A<x>} are valid.

#### :SEARch<x>:SLOGic:STATe:BIT:CLEar

Function Clears (Don't care) all truth conditions for each bit of the logic serial pattern search.

Syntax :SEARch<x>:SLOGic:STATe:BIT:CLEar

< x > = 1 or 2

Example :SEARCH1:SLOGIC:STATE:BIT:CLEAR

## :SEARch<x>:SLOGic:STATe:BIT:LOGic

Function Sets the logic of the logic state search or queries the current setting.

Syntax :SEARch<x>:SLOGic:STATe:BIT:

LOGic {AND | OR }

:SEARch<x>:SLOGic:STATe:BIT:LOGic?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:STATE:BIT:LOGIC AND

:SEARCH1:SLOGIC:STATE:BIT:LOGIC?

-> :SEARCH1:SLOGIC:STATE:BIT:LOGIC AND

#### :SEARch<x>:SLOGic:STATe:GROup<x>?

Function Queries all settings related to each group of the logic state search.

Syntax :SEARch<x>:SLOGic:STATe:GROup<x>?

<x> of SEARch<x> = 1 or 2 <x> of GRoup<x> = 1 to 5

Example :SEARCH1:SLOGIC:STATE:GROUP1?

-> :SEARCH1:SLOGIC:STATE:GROUP1:

CONDITION DONTCARE;
DATA1 0.0000000E+00;
DATA2 255.00000E+00;

PATTERN "1111000011110000111100001111

0000"

## :SEARch<x>:SLOGic:STATe:GROup<x>:CLEar

Function Clears (Don't care) all truth conditions for each group

of the logic serial pattern search.

Syntax :SEARch<x>:SLOGic:STATe:GROup<x>:CLEar

<x> of SEARch<x> = 1 or 2 <x> of GRoup<x> = 1 to 5

Example :SEARCH1:SLOGIC:STATE:GROUP1:CLEAR

# :SEARch<x>:SLOGic:STATe:GROup<x>: CONDition

Function Sets the determination condition for each group of the

logic state search or queries the current setting.

Syntax :SEARch<x>:SLOGic:STATe:GROup<x>:

CONDition {BETWeen|DONTcare|FALSe|

GTHan | LTHan | ORANge | TRUE }

:SEARch<x>:SLOGic:STATe:GROup<x>:

 ${\tt CONDition?}$ 

<x> of SEARch<x> = 1 or 2 <x> of GRoup<x> = 1 to 5

Example :SEARCH1:SLOGIC:STATE:GROUP1:

CONDITION BETWEEN

:SEARCH1:SLOGIC:STATE:GROUP1:

CONDITION?

-> :SEARCH1:SLOGIC:STATE:GROUP1:

CONDITION BETWEEN

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# :SEARch<x>:SLOGic:STATe:GROup<x>: DATA<x>

Function Sets the comparison data for each group of the logic

state search or queries the current setting.

Syntax :SEARch<x>:SLOGic:STATe:GROup<x>:

DATA<x> {<NRf>}

:SEARch<x>:SLOGic:STATe:GROup<x>:

DATA<x>?

<x> of SEARch<x> = 1 or 2
<x> of GRoup<x> = 1 to 5
<x> of DATA<x> = 1 or 2

<NRf> = See the main unit user's manual.

Example :SEARCH1:SLOGIC:STATE:GROUP1:DATA1 1

:SEARCH1:SLOGIC:STATE:GROUP1:DATA1?
-> :SEARCH1:SLOGIC:STATE:GROUP1:

DATA1 1.0000000E+00

- For :SEARch<x>:SLOGic:STATe:GROup<x>: CONDition LTHan, set using :SEARch<x>: SLOGic:STATe:GROup<x>:DATA2.
- For:SEARch<x>:SLOGic:STATe:GROup<x>:
   CONDition BETWeen|ORANge, set small values
   with:SEARch<x>:SLOGic:STATe:GROup<x>:
   DATA1, and large values with:SEARch<x>:
   SLOGic:STATe:GROup<x>:DATA2.

### :SEARch<x>:SLOGic:STATe:GROup<x>:HEXA

Function Sets the truth conditions for each group of the logic serial pattern search in hexadecimal notation.

Syntax :SEARch<x>:SLOGic:STATe:GROup<x>:

HEXA {<string>}
<x> of SEARch<x> = 1 or 2
<x> of GRoup<x> = 1 to 5

<string> = combination of up to 8 characters (0-F and

/

Example :SEARCH1:SLOGIC:STATE:GROUP1:

HEXA "1A3F24CD"

Description If the number of bit mappings specified with :LOGic: GROup<x>:MAPPing is too large, the lower bits are set to X. If the number is too small, the top bits are set.

# :SEARch<x>:SLOGic:STATe:GROup<x>:PATTern

Function Sets the truth condition for each group of the logic state search in binary notation or queries the current setting.

:SEARch<x>:SLOGic:STATe:GROup<x>:

PATTern {<string>}

:SEARch<x>:SLOGic:STATe:GROup<x>:

PATTern?

<x> of SEARch<x> = 1 or 2 <x> of GRopu<x> = 1 to 5

<string> = combination of up to 32 characters (0, 1,

and X)

Example :SEARCH1:SLOGIC:STATE:GROUP1:

PATTERN "1111000011110000111100001111

0000"

:SEARCH1:SLOGIC:STATE:GROUP1:PATTERN?

-> :SEARCH1:SLOGIC:STATE:GROUP1:
PATTERN "11110000111100001111

0000"

# :SEARch<x>:SLOGic:STATe:GROup<x>:

#### SYMBol

Syntax

Function Sets the symbol item for each group of the logic state

search.

Syntax :SEARch<x>:SLOGic:STATe:GROup<x>:SYMBol

{<String>}

<x> of SEARch<x> = 1, 2 <x> of GROup<x> = 1 to 5 <String> = Up to 16 characters

Example :SEARCH1:SLOGIC:STATE:GROUP1:SYMBOL

"TEST"

#### :SEARch<x>:SLOGic:STATe:TYPE

Function Sets the setting method of the logic state search or queries the current setting.

Syntax :SEARch<x>:SLOGic:STATe:

TYPE {BIT | GROup}

:SEARch<x>:SLOGic:STATe:TYPE?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:STATE:TYPE BIT

:SEARCH1:SLOGIC:STATE:TYPE?

-> :SEARCH1:SLOGIC:STATE:TYPE BIT

# :SEARch<x>:SLOGic:UART?

Function Queries all settings related to the logic UART bus

signal search.

Syntax :SEARch<x>:SLOGic:UART?

< x > = 1, 2

Example :SEARCH1:SLOGIC:UART? -> :SEARCH1:

SLOGIC:UART:BRATE 19200;DATA: BITORDER LSBFIRST;DSIZE 1;

PATTERN "X0101001";:SEARCH1:SLOGIC: UART:ERROR:FRAMING 1;PARITY 1; PMODE EVEN;:SEARCH1:SLOGIC:UART: FORMAT BIT7PARITY;MODE DATA;

POLARITY NEGATIVE; SPOINT 18.8E+00;

TRACE A0

## :SEARch<x>:SLOGic:UART:BRATe

Function Sets the logic UART bus signal search bit rate (data

transfer rate) or queries the current setting.

Syntax :SEARch<x>:SLOGic:UART:

BRATe {<NRf>|USER,<NRf>}

:SEARch<x>:SLOGic:UART:BRATe?

< x > = 1, 2

< NRf > = 1200, 2400, 4800, 9600, 19200, 38400,

57600, 115200

<NRf> of USER = See the SB5000 User's Manual

Example :SEARCH1:SLOGIC:UART:BRATE 19200

:SEARCH1:SLOGIC:UART:BRATE? -> :SEARCH1:SLOGIC:UART:BRATE 19200

## :SEARch<x>:SLOGic:UART:DATA?

Function Queries all settings related to data of the logic UART bus signal search.

bus signal search.

Syntax :SEARch<x>:SLOGic:UART:DATA?

< x > = 1, 2

Example :SEARCH1:SLOGIC:UART:DATA? -> :SEARCH1:

SLOGIC:UART:DATA:BITORDER LSBFIRST;

DSIZE 1; PATTERN "X0101001"

#### :SEARch<x>:SLOGic:UART:DATA:BITorder

Function Sets the data bit order of the logic UART bus signal

search or queries the current setting.

Syntax :SEARch<x>:SLOGic:UART:DATA:
BITorder {LSBFirst|MSBFirst}

:SEARch<x>:SLOGic:UART:DATA:BITorder?

< x > = 1.2

Example :SEARCH1:SLOGIC:UART:DATA:

BITORDER LSBFIRST

:SEARCH1:SLOGIC:UART:DATA:BITORDER?

-> :SEARCH1:SLOGIC:UART:DATA:

BITORDER LSBFIRST

#### :SEARch<x>:SLOGic:UART:DATA:DSIZe

Function Sets the number of data bytes of the logic UART bus

signal search or queries the current setting.

Syntax :SEARch<x>:SLOGic:UART:DATA:

DSIZe {<NRf>}

:SEARch<x>:SLOGic:UART:DATA:DSIZe?

<x> = 1, 2<NRf> = 1 to 4

Example :SEARCH1:SLOGIC:UART:DATA:DSIZE 1

:SEARCH1:SLOGIC:UART:DATA:DSIZE? ->

:SEARCH1:SLOGIC:UART:DATA:DSIZE 1

# :SEARch<x>:SLOGic:UART:DATA:HEXA

Function Sets the logic UART bus signal search data in

hexadecimal.

Syntax :SEARch<x>:SLOGic:UART:DATA:

HEXA {<String>}

< x > = 1, 2

<String> = Up to 8 characters by combining '0' to 'F'

and 'X,' units of 1 byte

Example :SEARCH1:SLOGIC:UART:DATA:HEXA "A9"

#### :SEARch<x>:SLOGic:UART:DATA:PATTern

Function Sets the data of the logic UART bus signal search in

binary or queries the current setting.

Syntax :SEARch<x>:SLOGic:UART:DATA:

PATTern {<String>}

:SEARch<x>:SLOGic:UART:DATA:PATTern?

< x > = 1, 2

<String> = Up to 32 characters by combining '0,' '1,'

and 'X,' units of 1 byte

Example :SEARCH1:SLOGIC:UART:DATA:

PATTERN "11011111"

:SEARCH1:SLOGIC:UART:DATA:PATTERN?

-> :SEARCH1:SLOGIC:UART:DATA:

PATTERN "11011111"

### :SEARch<x>:SLOGic:UART:ERRor?

Function Queries all settings related to the logic UART bus

signal search error.

Syntax :SEARch<x>:SLOGic:UART:ERRor?

< x > = 1.2

Example :SEARCH1:SLOGIC:UART:ERROR? ->

:SEARCH1:SLOGIC:UART:ERROR:

FRAMING 1; PARITY 1; PMODE EVEN

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#### :SEARch<x>:SLOGic:UART:ERRor:FRAMing

Function Sets the logic UART bus signal search Framing error or queries the current setting.

Syntax :SEARch<x>:SLOGic:UART:ERRor:

FRAMing {<Boolean>}

:SEARch<x>:SLOGic:UART:ERRor:FRAMing?

< x > = 1, 2

Example :SEARCH1:SLOGIC:UART:ERROR:FRAMING ON

:SEARCH1:SLOGIC:UART:ERROR:FRAMING? ->

:SEARCH1:SLOGIC:UART:ERROR:FRAMING 1

#### :SEARch<x>:SLOGic:UART:ERRor:PARity

Function Sets the logic UART bus signal search Parity error or queries the current setting.

Syntax :SEARch<x>:SLOGic:UART:ERRor:

PARity {<Boolean>}

:SEARch<x>:SLOGic:UART:ERRor:PARity?

< x > = 1, 2

Example :SEARCH1:SLOGIC:UART:ERROR:PARITY ON

:SEARCH1:SLOGIC:UART:ERROR:PARITY? ->
:SEARCH1:SLOGIC:UART:ERROR:PARITY 1

#### :SEARch<x>:SLOGic:UART:ERRor:PMODe

Function Sets the logic UART bus signal search Parity mode or queries the current setting.

Syntax :SEARch<x>:SLOGic:UART:ERRor:

PMODe {EVEN|ODD}

:SEARch<x>:SLOGic:UART:ERRor:PMODe?

< x > = 1, 2

Example :SEARCH1:SLOGIC:UART:ERROR:PMODE EVEN

:SEARCH1:SLOGIC:UART:ERROR:PMODE? ->
:SEARCH1:SLOGIC:UART:ERROR:PMODE EVEN

#### :SEARch<x>:SLOGic:UART:FORMat

Function Sets the logic UART bus signal search format or queries the current setting.

Syntax :SEARch<x>:SLOGic:UART:

FORMat {BIT7parity|BIT8Noparity|

BIT8Parity}

:SEARch<x>:SLOGic:UART:FORMat?

< x > = 1, 2

Example :SEARCH1:SLOGIC:UART:FORMAT BIT7PARITY

:SEARCH1:SLOGIC:UART:FORMAT? ->

:SEARCH1:SLOGIC:UART:FORMAT BIT7PARITY

#### :SEARch<x>:SLOGic:UART:MODE

Function Sets the logic UART bus signal search mode or

queries the current setting.

Syntax :SEARch<x>:SLOGic:UART:

MODE {DATA | ERROr }

:SEARch<x>:SLOGic:UART:MODE?

< x > = 1, 2

Example :SEARCH1:SLOGIC:UART:MODE DATA

:SEARCH1:SLOGIC:UART:MODE? -> :SEARCH1:

SLOGIC: UART: MODE DATA

#### :SEARch<x>:SLOGic:UART:POLarity

Function Sets the logic UART bus signal search polarity or

queries the current setting.Syntax :
SEARch<x>:SLOGic:UART:

POLarity {NEGative|POSitive}
:SEARch<x>:SLOGic:UART:POLarity?

< x > = 1, 2

Example :SEARCH1:SLOGIC:UART:POLARITY NEGATIVE

:SEARCH1:SLOGIC:UART:POLARITY? ->

:SEARCH1:SLOGIC:UART:POLARITY NEGATIVE

#### :SEARch<x>:SLOGic:UART:TRACe

Function Sets the logic UART bus signal search trace or

queries the current setting.

Syntax :SEARch<x>:SLOGic:UART:TRACe {A<y>}

:SEARch<x>:SLOGic:UART:TRACe?

<x> = 1, 2<y> = 0 to 7

Example :SEARCH1:SLOGIC:UART:TRACE A0

:SEARCH1:SLOGIC:UART:TRACE? ->
:SEARCH1:SLOGIC:UART:TRACE A0

#### :SEARch<x>:SLOGic:UART:SPOint

Function Sets the logic UART bus signal search sampling point

or queries the current setting.

Syntax :SEARch<x>:SLOGic:UART:SPOint {<NRf>}

:SEARch<x>:SLOGic:UART:SPOint?

< x > = 1, 2

<NRf> = 18.8 to 90.6(%)

Example :SEARCH1:SLOGIC:UART:SPOINT 18.8

:SEARCH1:SLOGIC:UART:SPOINT? ->

:SEARCH1:SLOGIC:UART:SPOINT 18.8E+00

#### :SEARch<x>:SLOGic:WIDTh?

Function Queries all settings of the logic pulse width search.

Syntax :SEARch<x>:SLOGic:WIDTh?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:WIDTH?

-> :SEARCH1:SLOGIC:WIDTH:MODE BETWEEN;

TIME1 1.0000000E+00;

TIME2 1.0000000E+00; TYPE PQUALIFY

#### :SEARch<x>:SLOGic:WIDTh:MODE

Function Sets the determination mode of the logic pulse width

search or queries the current setting.

Syntax :SEARch<x>:SLOGic:WIDTh:

MODE {BETWeen | IN | NOTBetween | OUT |

TIMeout }

:SEARch<x>:SLOGic:WIDTh:MODE?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:WIDTH:MODE BETWEEN

:SEARCH1:SLOGIC:WIDTH:MODE?

-> :SEARCH1:SLOGIC:WIDTH:MODE BETWEEN

#### :SEARch<x>:SLOGic:WIDTh:TIME<x>

Function Sets the pulse width of the logic pulse width search or

queries the current setting.

Syntax :SEARch<x>:SLOGic:WIDTh:TIME<x>

{<time>}

:SEARch<x>:SLOGic:WIDTh:TIME<x>?

<x> of SEARch<x> = 1 or 2 <x> of TIME<x> = 1 or 2

<time> = 1 ns to 10 s (500ps steps)

Example :SEARCH1:SLOGIC:WIDTH:TIME1 1S

:SEARCH1:SLOGIC:WIDTH:TIME1?
-> :SEARCH1:SLOGIC:WIDTH:

TIME1 1.000E+00

Description IME2 is valid for :SEARch<x>:SLOGic:WIDTh:

MODE BETWeen|NOTBetween.

### :SEARch<x>:SLOGic:WIDTh:TYPE

Function Sets the logic pulse width search type or queries the

current setting.

 $\verb|Syntax| : \verb|SEARch|<|x>: \verb|SLOGic:|WIDTh|:|$ 

TYPE {PQUalify|PSTate|PULSe}
:SEARch<x>:SLOGic:WIDTh:TYPE?

< x > = 1 or 2

Example :SEARCH1:SLOGIC:WIDTH:TYPE PQUALIFY

:SEARCH1:SLOGIC:WIDTH:TYPE?

-> :SEARCH1:SLOGIC:WIDTH:TYPE PQUALIFY

# :SEARch<x>:SMODe

Function Sets the skip mode or queries the current setting.

Syntax :SEARch<x>:SMODe {DECimation|HOLDoff|

OFF}

:SEARch<x>:SMODe?

< x > = 1 or 2

Example :SEARCH1:SMODE HOLDOFF

:SEARCH1:SMODE? -> :SEARCH1:

SMODE HOLDOFF

#### :SEARch<x>:SPATtern? (Serial Pattern)

Function Queries all settings related to the serial pattern

search.

Syntax :SEARch<x>:SPATtern?

< x > = 1.2

Example :SEARCH1:SPATTERN? -> :SEARCH1:

SPATTERN:CLOCK:MODE 1;POLARITY FALL;
SOURCE 1;:SEARCH1:SPATTERN:CS 1;LATCH:

TRACE 1; POLARITY FALL; : SEARCH1:

SPATTERN:SETUP:BITRATE 1.000E+00;

PATTERN "1100110111101111"

#### :SEARch<x>:SPATtern:CLOCk?

Function Queries all settings related to clock of the serial

pattern search.

Syntax :SEARch<x>:SPATtern:CLOCk?

< x > = 1.2

Example :SEARCH1:SPATTERN:CLOCK? -> :SEARCH1:

SPATTERN:CLOCK:MODE 1;
POLARITY FALL;SOURCE 1

#### :SEARch<x>:SPATtern:CLOCk:MODE

Function Enables/Disables the clock of the serial pattern

search or queries the current setting.

 $\verb|Syntax| : \verb|SEARch| < x> : \verb|SPATtern| : CLOCk| :$ 

MODE {<Boolean>}

:SEARch<x>:SPATtern:CLOCk:MODE?

< x > = 1,2

Example :SEARCH1:SPATTERN:CLOCK:MODE ON

:SEARCH1:SPATTERN:CLOCK:MODE?

-> :SEARCH1:SPATTERN:CLOCK:MODE 1

# :SEARch<x>:SPATtern:CLOCk:POLarity

Function Sets the polarity of the clock trace of the serial pattern

search or queries the current setting.

Syntax :SEARch<x>:SPATtern:CLOCk:

POLarity {FALL|RISE}

:SEARch<x>:SPATtern:CLOCk:POLarity?

< x > = 1,2

Example :SEARCH1:SPATTERN:CLOCK:POLARITY FALL

:SEARCH1:SPATTERN:CLOCK:POLARITY?

-> :SEARCH1:SPATTERN:CLOCK:

POLARITY FALL

 $Description \ This \ command \ is \ valid \ when \ : SEARch < x > : SPAT tern:$ 

CLOCk:MODE ON.

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#### :SEARch<x>:SPATtern:CLOCk:SOURce

Function Sets the clock trace of the serial pattern search or queries the current setting.

Syntax :SEARch<x>:SPATtern:CLOCk:

SOURce { < NRf > }

:SEARch<x>:SPATtern:CLOCk:SOURce?

< x > = 1,2< NRf > = 1 to 8

Example :SEARCH1:SPATTERN:CLOCK:SOURCE 1

:SEARCH1:SPATTERN:CLOCK:SOURCE?

-> :SEARCH1:SPATTERN:CLOCK:SOURCE 1

Description This command is valid when :SEARch<x>:SPATtern: CLOCk:MODE ON.

#### :SEARch<x>:SPATtern:CS

Function Enables/Disables the chip select of the serial pattern

search or queries the current setting.

Syntax :SEARch<x>:SPATtern:CS {<Boolean>}

:SEARch<x>:SPATtern:CS?

< x > = 1,2

Example :SEARCH1:SPATTERN:CS ON

:SEARCH1:SPATTERN:CS? -> :SEARCH1:

SPATTERN:CS 1

Description This command is valid when :SEARch<x>:SPATtern: CLOCk:MODE ON.

#### :SEARch<x>:SPATtern:LATCh?

Function Queries all settings related to latch of the serial pattern search.

Syntax :SEARch<x>:SPATtern:LATCh?

< x > = 1,2

Example :SEARCH1:SPATTERN:LATCH? -> :SEARCH1:

SPATTERN:LATCH:TRACE 1;

POLARITY FALL

## :SEARch<x>:SPATtern:LATCh:POLarity

Function Sets the polarity of the latch trace of the serial pattern search or queries the current setting.

Syntax :SEARch<x>:SPATtern:LATCh:

 ${\tt POLarity} \ \{{\tt FALL} | {\tt RISE}\}$ 

:SEARch<x>:SPATtern:LATCh:POLarity?

< x > = 1,2

Example :SEARCH1:SPATTERN:LATCH:POLARITY FALL

:SEARCH1:SPATTERN:LATCH:POLARITY?

-> :SEARCH1:SPATTERN:LATCH:

POLARITY FALL

Description • This command is valid when :SEARch<x>: SPATtern:CLOCk:MODE ON.

 This command is invalid when :SEARch<x>: SPATtern:LATCh:TRACe NONE.

#### :SEARch<x>:SPATtern:LATCh:TRACe

Function Sets the latch trace of the serial pattern search or

queries the current setting.

Syntax :SEARch<x>:SPATtern:LATCh:TRACe {<NRf>|

NONE }

:SEARch<x>:SPATtern:LATCh:TRACe?

< x > = 1,2< NRf > = 1 to 8

Example :SEARCH1:SPATTERN:LATCH:TRACE 1

:SEARCH1:SPATTERN:LATCH:TRACE?

-> :SEARCH1:SPATTERN:LATCH:TRACE 1

Description This command is valid when :SEARch<x>:SPATtern: CLOCk:MODE ON.

## :SEARch<x>:SPATtern:SETup?

Function Queries all settings related to setup of the serial

pattern search.

Syntax :SEARch<x>:SPATtern:SETup?

< x > = 1.2

Example :SEARCH1:SPATTERN:SETUP? -> :SEARCH1:

SPATTERN: SETUP:

BITRATE 1.000E+03; DATA: ACTIVE HIGH;

TRACE 1;

:SEARCH1:SPATTERN:SETUP:PATTERN "1100"

### :SEARch<x>:SPATtern[:SETup]:BITRate

Function Sets the bit rate of the serial pattern search or queries

the current setting.

 $\verb|Syntax| : \verb|SEARch| < x> : \verb|SPATtern| [: SETup] :$ 

BITRate {<NRf>}

:SEARch<x>:SPATtern[:SETup]:BITRate?

< x > = 1, 2

<NRf> = 1 to 1G (bps)

Example :SEARCH1:SPATTERN:SETUP:BITRATE 1

:SEARCH1:SPATTERN:SETUP:BITRATE?

-> :SEARCH1:SPATTERN:SETUP:

BITRATE 1.000E+00

Description This command is valid when :SEARch<x>:SPATtern:

CLOCk:MODE OFF.

# :SEARch<x>:SPATtern[:SETup]:CLEar

Function Clears the entire pattern of the serial pattern search

(to don't care).

Syntax :SEARch<x>:SPATtern[:SETup]:CLEar

< x > = 1.2

Example :SEARCH1:SPATTERN:SETUP:CLEAR

#### :SEARch<x>:SPATtern[:SETup]:DATA?

Function Queries all settings related to data of the serial pattern search.

Syntax :SEARch<x>:SPATtern[:SETup]:DATA?

< x > = 1,2

Example :SEARCH1:SPATTERN:SETUP:DATA?

-> :SEARCH1:SPATTERN:SETUP:DATA:

ACTIVE HIGH; TRACE 1

# :SEARch<x>:SPATtern[:SETup]:DATA: **ACTive**

Function Sets the active level of the data trace of the serial

pattern search or queries the current setting.

Syntax :SEARch<x>:SPATtern[:SETup]:DATA:

ACTive {HIGH|LOW}

:SEARch<x>:SPATtern[:SETup]:DATA:

< x > = 1.2

Example :SEARCH1:SPATTERN:SETUP:DATA:

ACTIVE HIGH

:SEARCH1:SPATTERN:SETUP:DATA:ACTIVE?

-> :SEARCH1:SPATTERN:SETUP:DATA:

ACTIVE HIGH

#### :SEARch<x>:SPATtern[:SETup]:DATA:TRACe

Function Sets the data trace of the serial pattern search or queries the current setting.

Syntax :SEARch<x>:SPATtern[:SETup]:DATA:

TRACe {<NRf>}

:SEARch<x>:SPATtern[:SETup]:DATA:TRACe?

< x > = 1.2<NRf> = 1 to 8

Example :SEARCH1:SPATTERN:SETUP:DATA:TRACE 1

: SEARCH1: SPATTERN: SETUP: DATA: TRACE?

-> :SEARCH1:SPATTERN:SETUP:DATA:TRACE 1

# :SEARch<x>:SPATtern[:SETup]:HEXA

Function Sets the pattern of the serial pattern search in

hexadecimal notation.

:SEARch<x>:SPATtern[:SETup]:HEXA Syntax

> {<String>} < x > = 1,2

<String> = Up to 32 characters by combining '0' to 'F'

and 'X'

Example :SEARCH1:SPATTERN:SETUP:HEXA "ABCD"

# :SEARch<x>:SPATtern[:SETup]:PATTern

Sets the pattern of the serial pattern search in binary Function

notation or queries the current setting.

Syntax :SEARch<x>:SPATtern[:SETup]:

PATTern {<String>}

:SEARch<x>:SPATtern[:SETup]:PATTern?

< x > = 1,2

<String> = Up to 128 characters by combining '0', '1',

and 'X'

Example :SEARCH1:SPATTERN:SETUP:

PATTERN "1100110111101111"

:SEARCH1:SPATTERN:SETUP:PATTERN?

-> :SEARCH1:SPATTERN:SETUP: PATTERN "1100110111101111"

#### :SEARch<x>:SPIBus?

Function Queries all settings related to the SPI bus signal

search

:SEARch<x>:SPIBus? Syntax

< x > = 1 or 2

Example :SEARCH1:SPIBUS?

-> :SEARCH1:SPIBUS:CLOCK:POLARITY FALL;

SOURCE 1;:SEARCH1:SPIBUS:CS:

ACTIVE HIGH; TRACE 1; : SEARCH1: SPIBUS:

SETUP:BITORDER LSBFIRST; DATA1:BYTE 1;

CONDITION TRUE; DPOSITION 1;

PATTERN1 " 00010010";

PATTERN2 " 00110100";

PATTERN3 " 01010110";

PATTERN4 " 01111000"; TRACE 1; :SEARCH1:

SPIBUS:SETUP:DATA2:BYTE 1;

CONDITION TRUE; DPOSITION 1;

PATTERN1 " 00010010";

PATTERN2 " 00110100";

PATTERN3 " 01010110";

PATTERN4 " 01111000"; TRACE 1; :SEARCH1:

SPIBUS:SETUP:MODE WIRE3

#### :SEARch<x>:SPIBus:CLOCk

Function Queries all settings related to the clock channel of the

SPI bus signal search.

:SEARch<x>:SPIBus:CLOCk? Syntax

< x > = 1 or 2

Example :SEARCH1:SPIBUS:CLOCK?

-> :SEARCH1:SPIBUS:CLOCK:POLARITY FALL;

SOURCE 1

# :SEARch<x>:SPIBus:CLOCk:POLarity

Sets the polarity of the clock channel of the SPI bus Function

signal search or queries the current setting.

Syntax :SEARch<x>:SPIBus:CLOCk:

POLarity {FALL | RISE} :SEARch<x>:SPIBus:CLOCk:POLarity?

< x > = 1 or 2

Example :SEARCH1:SPIBUS:CLOCK:POLARITY FALL

:SEARCH1:SPIBUS:CLOCK:POLARITY?

-> :SEARCH1:SPIBUS:CLOCK:POLARITY FALL

# :SEARch<x>:SPIBus:CLOCk:SOURce

Function Sets the clock channel of the SPI bus signal search

or queries the current setting.

:SEARch<x>:SPIBus:CLOCk:SOURce {<NRf>}

:SEARch<x>:SPIBus:CLOCk:SOURce?

< x > = 1 or 2< NRf > = 1 to 8

Example :SEARCH1:SPIBUS:CLOCK:SOURCE 1

:SEARCH1:SPIBUS:CLOCK:SOURCE?

-> :SEARCH1:SPIBUS:CLOCK:SOURCE 1

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#### :SEARch<x>:SPIBus:CS?

Function Queries all settings related to the chip select channel

of the SPI bus signal search.

Syntax :SEARch<x>:SPIBus:CS?

< x > = 1 or 2

Example :SEARCH1:SPIBUS:CS?

-> :SEARCH1:SPIBUS:CS:ACTIVE HIGH;

TRACE 1

#### :SEARch<x>:SPIBus:CS:ACTive

Function Sets the active level of the chip select channel of the

SPI bus signal search or queries the current setting.

Syntax :SEARch<x>:SPIBus:CS:ACTive {HIGH|LOW}

:SEARch<x>:SPIBus:CS:ACTive?

< x > = 1 or 2

Example :SEARCH1:SPIBUS:CS:ACTIVE HIGH

:SEARCH1:SPIBUS:CS:ACTIVE?

-> :SEARCH1:SPIBUS:CS:ACTIVE HIGH

#### :SEARch<x>:SPIBus:CS:TRACe

Function Sets the chip select channel of the SPI bus signal

search or queries the current setting.

Syntax :SEARch<x>:SPIBus:CS:TRACe {<NRf>}

:SEARch<x>:SPIBus:CS:TRACe?

< x > = 1 or 2< NRf > = 1 to 8

Example :SEARCH1:SPIBUS:CS:TRACE 1

:SEARCH1:SPIBUS:CS:TRACE?

-> :SEARCH1:SPIBUS:CS:TRACE 1

#### :SEARch<x>:SPIBus:SETup?

Function Queries all settings related to the SPI bus signal

search setup.

Syntax :SEARch<x>:SPIBus:SETup?

< x > = 1 or 2

Example :SEARCH1:SPIBUS:SETUP?

-> :SEARCH1:SPIBUS:SETUP:

BITORDER LSBFIRST; DATA1: BYTE 1;

CONDITION TRUE; DPOSITION 1;

PATTERN1 " 00010010";

PATTERN2 " 00110100";

PATTERN3 " 01010110";

PATTERN4 " 01111000";TRACE 1;:SEARCH1:

SPIBUS:SETUP:DATA2:BYTE 1;

CONDITION TRUE; DPOSITION 1;

PATTERN1 " 00010010";

PATTERN2 " 00110100";

PATTERN3 " 01010110";

PATTERN4 " 01111000"; TRACE 1; :SEARCH1:

SPIBUS:SETUP:MODE WIRE3

# :SEARch<x>:SPIBus[:SETup]:BITorder

Function Sets the bit order of the SPI bus signal search or

queries the current setting.

Syntax :SEARch<x>:SPIBus[:SETup]:

BITorder {LSBFirst|MSBFirst}

:SEARch<x>:SPIBus[:SETup]:BITorder?

< x > = 1 or 2

Example :SEARCH1:SPIBUS:SETUP:BITORDER LSBFIRST

:SEARCH1:SPIBUS:SETUP:BITORDER?

-> :SEARCH1:SPIBUS:SETUP:

BITORDER LSBFIRST

# :SEARch<x>:SPIBus[:SETup]:DATA<x>?

Function Queries all settings related to the data of the SPI bus

signal search.

Syntax :SEARch<x>:SPIBus[:SETup]:DATA<x>?

<x> of SEARch<x> = 1 or 2 <x> of DATA<x> = 1 or 2

Example :SEARCH1:SPIBUS:SETUP:DATA1?

-> :SEARCH1:SPIBUS:SETUP:DATA1:BYTE 1;

CONDITION TRUE; DPOSITION 1;

PATTERN1 " 00010010"; PATTERN2 " 00110100"; PATTERN3 " 01010110";

PATTERN4 " 01111000"; TRACE 1
Description DATA2 is valid when :SEARch<x>:

SPIBus[:SETup]:MODE WIRE4 is specified.

#### :SEARch<x>:SPIBus[:SETup]:DATA<x>:BYTE

Function Sets the number of bytes of the data of the SPI bus

signal search or queries the current setting.

 $\verb|Syntax| : SEARch < x > : SPIBus[:SETup] : DATA < x > :$ 

BYTE {<NRf>}

:SEARch<x>:SPIBus[:SETup]:DATA<x>:BYTE?

<x> of SEARch<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<NRf> = 1 to 4

Example :SEARCH1:SPIBUS:SETUP:DATA1:BYTE 1

:SEARCH1:SPIBUS:SETUP:DATA1:BYTE?

-> :SEARCH1:SPIBUS:SETUP:DATA1:BYTE 1

# :SEARch<x>:SPIBus[:SETup]:DATA<x>: CONDition

Function Sets the determination method (match or not match) of the data of the SPI bus signal search or queries

the current setting.

Syntax :SEARch<x>:SPIBus[:SETup]:DATA<x>:

CONDition {FALSe|TRUE}

:SEARch<x>:SPIBus[:SETup]:DATA<x>:

CONDition?

<x> of SEARch<x> = 1 or 2 <x> of DATA<x> = 1 or 2

Example :SEARCH1:SPIBUS:SETUP:DATA1:

CONDITION TRUE

:SEARCH1:SPIBUS:SETUP:DATA1:

CONDITION?

-> :SEARCH1:SPIBUS:SETUP:DATA1:

CONDITION TRUE

# :SEARch<x>:SPIBus[:SETup]:DATA<x>: DPOSition

Function Sets the pattern comparison start position of the data

of the SPI bus signal search or queries the current

setting.

Syntax :SEARch<x>:SPIBus[:SETup]:DATA<x>:

DPOSition {<NRf>}

:SEARch<x>:SPIBus[:SETup]:DATA<x>:

DPOSition?

<x> of SEARch<x> = 1 or 2 <x> of DATA<x> = 1 or 2

<NRf> = 0 to 9999

Example :SEARCH1:SPIBUS:SETUP:DATA1:DPOSITION 1

:SEARCH1:SPIBUS:SETUP:DATA1:

DPOSITION?

-> :SEARCH1:SPIBUS:SETUP:DATA1:

DPOSITION 1

# :SEARch<x>:SPIBus[:SETup]:DATA<x>:

#### HEXA<x>

Function Sets the data of the SPI bus signal search in

hexadecimal notation.

 $\verb|Syntax| : SEARch< x>: SPIBus[:SETup]: DATA< x>:$ 

HEXA<x> {<String>} <x> of SEARch<x> = 1 or 2 <x> of DATA<x> = 1 or 2 <x> of HEXA<x> = 1 to 4

<String> = 2 characters by combining '0' to 'F' and 'X'

Example :SEARCH1:SPIBUS:SETUP:DATA1:HEXA1 " EF"

# :SEARch<x>:SPIBus[:SETup]:DATA<x>: PATTern<x>

Function Sets the data of the SPI bus signal search in binary

notation or queries the current setting.

Syntax :SEARch<x>:SPIBus[:SETup]:DATA<x>:

PATTern<x> {<String>}

:SEARch<x>:SPIBus[:SETup]:DATA<x>:

PATTern<x>?

<x> of SEARch<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<x> of <PATTern x> = 1 to 4

<String> = 8 characters by combining '0,' '1,' and 'X'

Example :SEARCH1:SPIBUS:SETUP:DATA1:

PATTERN1 " 11101111"

:SEARCH1:SPIBUS:SETUP:DATA1:

PATTERN1?

-> :SEARCH1:SPIBUS:SETUP:DATA1:

PATTERN1 " 11101111"

#### :SEARch<x>:SPIBus[:SETup]:DATA<x>:

#### TRACe

Function Sets the source channel of the data of the SPI bus

signal search or queries the current setting.

Syntax :SEARch<x>:SPIBus[:SETup]:DATA<x>:

TRACe {<NRf>}

:SEARch<x>:SPIBus[:SETup]:DATA<x>:

TRACe?

<x> of SEARch<x> = 1 or 2
<x> of DATA<x> = 1 or 2

<NRf> = 1 to 8

Example :SEARCH1:SPIBUS:SETUP:DATA1:TRACE 1

:SEARCH1:SPIBUS:SETUP:DATA1:TRACE?

-> :SEARCH1:SPIBUS:SETUP:DATA1:TRACE 1

# :SEARch<x>:SPIBus[:SETup]:MODE

Function Sets the wiring system of the SPI bus signal search

(three-wire or four-wire) or queries the current setting.

Syntax :SEARch<x>:SPIBus[:SETup]:

MODE {WIRE3|WIRE4}

:SEARch<x>:SPIBus[:SETup]:MODE?

< x > = 1 or 2

Example :SEARCH1:SPIBUS:SETUP:MODE WIRE3

:SEARCH1:SPIBUS:SETUP:MODE?

-> :SEARCH1:SPIBUS:SETUP:MODE WIRE3

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#### :SEARch<x>:SPOint

Function Sets the search start position or queries the current

setting.

Syntax :SEARch<x>:SPOint {<NRf>}

:SEARch<x>:SPOint?

< x > = 1 or 2

<NRf> = -5 to 5 (div)

Example :SEARCH1:SPOINT 1

:SEARCH1:SPOINT? -> :SEARCH1:

SPOINT 1.000E+00

#### :SEARch<x>:STRace

Function Sets the search source trace or queries the current

setting.

Syntax :SEARch<x>:STRace {<NRf>}

:SEARch<x>:STRace?

< x > = 1 or 2

<NRf> = 1 to 8

Example :SEARCH1:STRACE 1

:SEARCH1:STRACE? -> :SEARCH1:STRACE 1

Description • This command is valid when :SEARch<x>:TYPE

EDGE|EQUalify.

 This command is valid when :SEARch<x>: TYPE WIDTh and :SEARch<x>:WIDTh:TYPE

PQUalify|PULSe.

#### :SEARch<x>:TRACe<x>?

Function Queries all settings related to the search conditions

of the trace.

Syntax :SEARch<x>:TRACe<x>?

<x> of SEARch<x> = 1 or 2 <x> of TRACe<x> = 1 to 8

Example :SEARCH1:TRACE1? -> :SEARCH1:TRACE1:

CONDITION DONTCARE;

HYSTERESIS 1.000E+00; LEVEL 0.000E+00

#### :SEARch<x>:TRACe<x>:CONDition

Function Sets the condition to be satisfied for the trace or queries the current setting.

Syntax :SEARch<x>:TRACe<x>:

CONDition {DONTcare|HIGH|LOW}
:SEARch<x>:TRACe<x>:CONDition?

<x> of SEARch<x> = 1 or 2 <x> of TRACe<x> = 1 to 8

Example :SEARCH1:TRACE1:CONDITION HIGH

:SEARCH1:TRACE1:CONDITION? -> :SEARCH1:

TRACE1: CONDITION HIGH

Description • This command is valid when :SEARch<x>:TYPE

 ${\sf EQUalify} | {\sf SPATtern}| {\sf STATe}.$ 

 This command is valid when :SEARch<x>: TYPE WIDTh and :SEARch<x>:WIDTh:TYPE PQUalifyIPSTAte.

#### :SEARch<x>:TRACe<x>:HYSTeresis

Function Sets the hysteresis of the trace or queries the current

setting.

Syntax :SEARch<x>:TRACe<x>:HYSTeresis {<NRf>}

:SEARch<x>:TRACe<x>:HYSTeresis?

<x> of SEARch<x> = 1 or 2 <x> of TRACe<x> = 1 to 8

<NRf> = 0 to 4 (div, 0.1 div steps)

Example :SEARCH1:TRACE1:HYSTERESIS 1

:SEARCH1:TRACE1:HYSTERESIS?

-> :SEARCH1:TRACE1:HYSTERESIS 1.000E+00

#### :SEARch<x>:TRACe<x>:LEVel

Function Sets the threshold level of the trace or queries the

current setting.

Syntax :SEARch<x>:TRACe<x>:LEVel {<NRf>|

<Voltage>|<Current>}
:SEARch<x>:TRACe<x>:LEVel?

<x> of SEARch<x> = 1 or 2 <x> of TRACe<x> = 1 to 8

<NRf>, <Voltage>, and <Current> = See the SB5000

User's Manual.

Example :SEARCH1:TRACE1:LEVEL 0

:SEARCH1:TRACE1:LEVEL? -> :SEARCH1:

TRACE1:LEVEL 0.000E+00

#### :SEARch<x>:TYPE

Function Sets the search type or queries the current setting.

Syntax :SEARch<x>:TYPE {CANBus|EDGE|EQUalify|
FLEXray|I2CBus|LEDGe|LI2Cbus|LINBus|
LLINbus|LQUalify|LSPAttern|LSPIbus|
LSTate|LUARt|LWIDth|SPATtern|SPIBus|

STATe | UART | WIDTh }
:SEARch<x>:TYPE?

Example :SEARCH1:TYPE EDGE

< x > = 1 or 2

:SEARCH1:TYPE? -> :SEARCH1:TYPE EDGE

#### :SEARch<x>:UART?

Function Queries all settings related to the UART bus signal

search.

Syntax :SEARch<x>:UART?

< x > = 1, 2

Example :SEARCH1:UART? -> :SEARCH1:UART:

BRATE 19200;DATA:BITORDER LSBFIRST;
DSIZE 1;PATTERN "X0101001";:SEARCH1:

UART:ERROR:FRAMING 1; PARITY 1;
PMODE EVEN;:SEARCH1:UART:
FORMAT BIT7PARITY; MODE DATA;

POLARITY NEGATIVE; SPOINT 18.8E+00;

TRACE 1

## :SEARch<x>:UART:BRATe

Function Sets the UART bus signal search bit rate (data transfer rate) or queries the current setting.

Syntax :SEARch<x>:UART:

BRATE {<NRf>|USER,<NRf>}
:SEARch<x>:UART:BRATe?

< x > = 1, 2

<NRf> = 1200, 2400, 4800, 9600, 19200, 38400,

57600. 115200

<NRf> of USER = See the SB5000 User's Manual

Example :SEARCH1:UART:BRATE 19200

:SEARCH1:UART:BRATE? -> :SEARCH1:UART:

BRATE 19200

#### :SEARch<x>:UART:DATA?

Function Queries all settings related to data of the UART bus signal search

Syntax :SEARch<x>:UART:DATA?

< x > = 1.2

Example :SEARCH1:UART:DATA? -> :SEARCH1:UART:

DATA:BITORDER LSBFIRST;DSIZE 1;

PATTERN "X0101001"

#### :SEARch<x>:UART:DATA:BITorder

Function Sets the data bit order of the UART bus signal

search or queries the current setting.Syntax

SEARch<x>:UART:DATA:

BITorder {LSBFirst | MSBFirst}
:SEARch<x>:UART:DATA:BITorder?

< x > = 1, 2

Example :SEARCH1:UART:DATA:BITORDER LSBFIRST

:SEARCH1:UART:DATA:BITORDER? ->

:SEARCH1:UART:DATA:BITORDER LSBFIRST

# :SEARch<x>:UART:DATA:DSIZe

Function Sets the number of data bytes of the UART bus signal

search or queries the current setting.

Syntax :SEARch<x>:UART:DATA:DSIZe {<NRf>}

:SEARch<x>:UART:DATA:DSIZe?

< x > = 1, 2

<NRf> = 1 to 4

Example :SEARCH1:UART:DATA:DSIZE 1

:SEARCH1:UART:DATA:DSIZE? ->

:SEARCH1:UART:DATA:DSIZE 1

#### :SEARch<x>:UART:DATA:HEXA

Function Sets the UART bus signal search data in

hexadecimal.

Syntax :SEARch<x>:UART:DATA:HEXA {<String>}

 $\langle x \rangle = 1, 2$ 

<String> = Up to 8 characters by combining '0' to 'F'

and 'X,' units of 1 byte

Example :SEARCH1:UART:DATA:HEXA "A9"

#### :SEARch<x>:UART:DATA:PATTern

Function Sets the data of the UART bus signal search in binary

or queries the current setting.

Syntax :SEARch<x>:UART:DATA:PATTern {<String>}

:SEARch<x>:UART:DATA:PATTern?

< x > = 1, 2

<String> = Up to 32 characters by combining '0,' '1,'

and 'X,' units of 1 byte

Example :SEARCH1:UART:DATA:PATTERN "11011111"

:SEARCH1:UART:DATA:PATTERN? ->

:SEARCH1:UART:DATA:PATTERN "11011111"

#### :SEARch<x>:UART:ERRor?

Function Queries all settings related to the UART bus signal

search error.

Syntax :SEARch<x>:UART:ERRor?

 $\langle x \rangle = 1, 2$ 

Example :SEARCH1:UART:ERROR? -> :SEARCH1:UART:

ERROR: FRAMING 1; PARITY 1; PMODE EVEN

# :SEARch<x>:UART:ERRor:FRAMing

Function Sets the UART bus signal search Framing error or

queries the current setting.

Syntax :SEARch<x>:UART:ERRor:

 $\texttt{FRAMing } \{\texttt{<Boolean>}\}$ 

:SEARch<x>:UART:ERRor:FRAMing?

< x > = 1, 2

Example :SEARCH1:UART:ERROR:FRAMING ON

:SEARCH1:UART:ERROR:FRAMING? ->

:SEARCH1:UART:ERROR:FRAMING 1

# :SEARch<x>:UART:ERRor:PARity

Function Sets the UART bus signal search Parity error or

queries the current setting.

Syntax :SEARch<x>:UART:ERRor:

PARity {<Boolean>}

:SEARch<x>:UART:ERRor:PARity?

< x > = 1, 2

Example :SEARCH1:UART:ERROR:PARITY ON

:SEARCH1:UART:ERROR:PARITY? ->

:SEARCH1:UART:ERROR:PARITY 1

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#### :SEARch<x>:UART:ERRor:PMODe

Function Sets the UART bus signal search Parity mode or

queries the current setting.

Syntax :SEARch<x>:UART:ERRor:PMODe {EVEN|ODD}

:SEARch<x>:UART:ERRor:PMODe?

< x > = 1, 2

Example :SEARCH1:UART:ERROR:PMODE EVEN

:SEARCH1:UART:ERROR:PMODE? -> :SEARCH1:

UART: ERROR: PMODE EVEN

#### :SEARch<x>:UART:FORMat

Function Sets the UART bus signal search format or queries

the current setting.

Syntax :SEARch<x>:UART:FORMat {BIT7parity|

BIT8Noparity|BIT8Parity}
:SEARch<x>:UART:FORMat?

< x > = 1, 2

Example :SEARCH1:UART:FORMAT BIT7PARITY

:SEARCH1:UART:FORMAT? -> :SEARCH1:UART:

FORMAT BIT7PARITY

#### :SEARch<x>:UART:MODE

Function Sets the UART bus signal search mode or queries

the current setting.

Syntax :SEARch<x>:UART:MODE {DATA | ERROr}

:SEARch<x>:UART:MODE?

< x > = 1, 2

Example :SEARCH1:UART:MODE DATA

:SEARCH1:UART:MODE? -> :SEARCH1:UART:

MODE DATA

## :SEARch<x>:UART:POLarity

Function Sets the UART bus signal search polarity or queries

the current setting.

 $\verb|Syntax| : \verb|SEARch| < x > : \verb|UART|:$ 

POLarity {NEGative|POSitive}
:SEARch<x>:UART:POLarity?

< x > = 1, 2

Example :SEARCH1:UART:POLARITY NEGATIVE

:SEARCH1:UART:POLARITY? -> :SEARCH1:

UART: POLARITY NEGATIVE

## :SEARch<x>:UART:TRACe

Function Sets the UART bus signal search trace or queries the

 $\begin{tabular}{ll} \textbf{current setting}. \textbf{Syntax} & : \texttt{SEARch} < \texttt{x} > : \texttt{UART}: \\ \end{tabular}$ 

TRACe {<NRf>}

:SEARch<x>:UART:TRACe?

< x > = 1, 2< NRf > = 1 to 8

Example :SEARCH1:UART:TRACE 1

:SEARCH1:UART:TRACE? -> :SEARCH1:UART:

TRACE 1

#### :SEARch<x>:UART:SPOint

Function Sets the UART bus signal search sample

point or queries the current setting.Syntax

SEARch<x>:UART:SPOint {<NRf>}

:SEARch<x>:UART:SPOint?

< x > = 1, 2

<NRf> = 18.8 to 90.6(%)

Example :SEARCH1:UART:SPOINT 18.8

:SEARCH1:UART:SPOINT? -> :SEARCH1:UART:

SPOINT 18.8E+00

#### :SEARch<x>:WIDTh?

Function Queries all settings related to the pulse width search.

Syntax :SEARch<x>:WIDTh?

< x > = 1 or 2

Example :SEARCH1:WIDTH? -> :SEARCH1:WIDTH:

MODE OUT; TIME1 1.000E-09; TIME2 2.000E-09; TYPE PULSE

#### :SEARch<x>:WIDTh:MODE

Function Sets the pulse width determination mode or queries

the current setting.

 $\verb|Syntax| : \verb|SEARch| < x> : \verb|WIDTh| : \verb|MODE| {BETWeen | IN | NOTBe}| \\$ 

tween|OUT|TIMeout}
:SEARch<x>:WIDTh:MODE?
<x> = 1 or 2

Example :SEARCH1:WIDTH:MODE TIMEOUT

:SEARCH1:WIDTH:MODE? -> :SEARCH1:WIDTH:

MODE TIMEOUT

#### :SEARch<x>:WIDTh:TIME<x>

Function Sets the pulse width of the pulse width search or

queries the current setting.

 ${\tt Syntax} \quad : {\tt SEARch} < {\tt x>} : {\tt WIDTh} : {\tt TIME} < {\tt x>} \ \big\{ < {\tt Time} > \big\}$ 

:SEARch<x>:WIDTh:TIME<x>? <x> of SEARch<x> = 1 or 2 <x> of TIME<x> = 1 or 2

<Time> = 1 ns to 10 s (500 ps steps)

Example :SEARCH1:WIDTH:TIME1 1S
 :SEARCH1:WIDTH:TIME1? -> :SEARCH1:

WIDTH:TIME1 1.000E+00

DescriptionTIME2 is valid when :SEARch<x>:WIDTh:MODE

BETWeen|NOTBetween.

#### :SEARch<x>:WIDTh:TYPE

Function Sets the pulse width search type or queries the

current setting.

Syntax :SEARch<x>:WIDTh:TYPE {PQUalify|PSTAte|

PULSe }

:SEARch<x>:WIDTh:TYPE?

< x > = 1 or 2

Example :SEARCH1:WIDTH:TYPE PQUALIFY

:SEARCH1:WIDTH:TYPE? -> :SEARCH1:WIDTH:

TYPE PQUALIFY

# 5.23 SERialbus Group

#### :SERialbus?

```
Function Queries all settings related to the serial bus setup.
Syntax
        :SERialbus?
Example :SERIALBUS? -> :SERIALBUS:SETUP1:
         CANBUS: BRATE 83300; RECESSIVE HIGH;
        TRACE 1; SPOINT 18.8E+00; : SERIALBUS:
         SETUP1:FLEXRAY:BRATE 5000000;CRCBUS A;
         TRACE 1; SPOINT 5.00E+00; : SERIALBUS:
         SETUP1:I2CBUS:CLOCK 1;DTRACE 1;:
         SERIALBUS: SETUP1: LINBUS: BRATE 19200;
         REVISION LIN1 3; TRACE 1;
         SPOINT 18.8E+00;:SERIALBUS:SETUP1:
         SPIBUS:BITORDER LSBFIRST; CLOCK:
         POLARITY FALL; TRACE 1; : SERIALBUS:
         SETUP1:SPIBUS:CS:ACTIVE HIGH:TRACE 1::
         SERIALBUS: SETUP1: SPIBUS: DATA1:
         ACTIVE HIGH; TRACE 1; :SERIALBUS: SETUP1:
         SPIBUS:DATA2:ACTIVE HIGH; TRACE 3;:
         SERIALBUS: SETUP1: SPIBUS: MODE WIRE3::
         SERIALBUS:SETUP1:TRACE1:
        HYSTERESIS 1.0000000E+00;
         LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
         TRACE2: HYSTERESIS 300.00000E-03:
         LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
         TRACE3: HYSTERESIS 300.00000E-03:
         LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
         TRACE4: HYSTERESIS 300.00000E-03;
         LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
         TRACE5:HYSTERESIS 300.00000E-03;
         LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
         TRACE6: HYSTERESIS 300.00000E-03;
         LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
         TRACE7: HYSTERESIS 300.00000E-03;
        LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
        TRACE8: HYSTERESIS 300.00000E-03;
        LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
        TYPE CANBUS; UART: BITORDER LSBFIRST;
         BRATE 19200; FORMAT BIT7PARITY:
         PMODE EVEN; POLARITY NEGATIVE;
         TRACE 1; SPOINT 18.8E+00; : SERIALBUS:
         SETUP2: CANBUS: BRATE 500000;
         RECESSIVE HIGH; TRACE 1;
         SPOINT 62.5E+00....
```

```
:SERialbus:SETup<x>?
```

```
Function
         Queries all settings related to each setup of the serial
         bus setup.
Syntax
         :SERialbus:SETup<x>?
         < x > = 1, 2
Example :SERIALBUS:SETUP1? -> :SERIALBUS:
         SETUP1: CANBUS: BRATE 83300;
         RECESSIVE HIGH; TRACE 1; SPOINT 18.8E+00;:
         SERIALBUS: SETUP1: FLEXRAY:
         BRATE 5000000; CRCBUS A; TRACE 1;
         SPOINT 5.00E+00;:SERIALBUS:SETUP1:
         I2CBUS:CLOCK 1;DTRACE 1;:SERIALBUS:
         SETUP1:LINBUS:BRATE 19200;
         REVISION LIN1_3; TRACE 1;
         SPOINT 18.8E+00;:SERIALBUS:SETUP1:
         SPIBUS: BITORDER LSBFIRST; CLOCK:
         POLARITY FALL; TRACE 1; : SERIALBUS:
         SETUP1:SPIBUS:CS:ACTIVE HIGH; TRACE
         1;:SERIALBUS:SETUP1:SPIBUS:DATA1:
         ACTIVE HIGH: TRACE 1:: SERIALBUS: SETUP1:
         SPIBUS: DATA2: ACTIVE HIGH; TRACE 3;:
         SERIALBUS:SETUP1:SPIBUS:MODE WIRE3;:
         SERIALBUS: SETUP1: TRACE1: HYSTERESIS
         1.0000000E+00:LEVEL 0.000000E+00::
         SERIALBUS: SETUP1: TRACE2: HYSTERESIS
         300.00000E-03; LEVEL 0.000000E+00;:
         SERIALBUS: SETUP1: TRACE3: HYSTERESIS
         300.00000E-03; LEVEL 0.000000E+00;:
         SERIALBUS: SETUP1: TRACE4: HYSTERESIS
         300.00000E-03; LEVEL 0.000000E+00;:
         SERIALBUS: SETUP1: TRACE5: HYSTERESIS
         300.00000E-03; LEVEL 0.000000E+00....
```

## :SERialbus:SETup<x>:ASETup:ABORt

#### :SERialbus:SETup<x>:ASETup:EXECute

Function Executes auto setup of the serial bus setup.

Syntax :SERialbus:SETup<x>:ASETup:EXECute

<x>= 1, 2

Example :SERIALBUS:SETUP1:ASETUP:EXECUTE

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#### :SERialbus:SETup<x>:ASETup:UNDO

Function Undoes the executed auto setup of the serial bus

setup.

Syntax :SERialbus:SETup<x>:ASETup:UNDO

< x > = 1, 2

Example :SERIALBUS:SETUP1:ASETUP:UNDO

#### :SERialbus:SETup<x>:CANBus?

Function Queries all settings related to the CAN bus setup.

Syntax :SERialbus:SETup<x>:CANBus?

< x > = 1, 2

Example :SERIALBUS:SETUP1:CANBUS? ->

:SERIALBUS:SETUP1:CANBUS:BRATE 83300; RECESSIVE HIGH;TRACE 1;SPOINT 18.8E+00

#### :SERialbus:SETup<x>:CANBus:BRATe

Function Sets the CAN bus setup bit rate (data transfer rate) or

queries the current setting.

Syntax :SERialbus:SETup<x>:CANBus:

BRATe {<NRf>|USER,<NRf>}

:SERialbus:SETup<x>:CANBus:BRATe?

< x > = 1, 2

<NRf> = 33300, 83300, 125000, 250000, 500000,

1000000

<NRf> of USER = See the SB5000 User's Manual

Example :SERIALBUS:SETUP1:CANBUS:BRATE 83300

:SERIALBUS:SETUP1:CANBUS:BRATE? ->
:SERIALBUS:SETUP1:CANBUS:BRATE 83300

# :SERialbus:SETup<x>:CANBus:RECessive

Function Sets the CAN bus setup recessive level (bus level) or

queries the current setting.

Syntax :SERialbus:SETup<x>:CANBus:

RECessive  $\{ HIGH | LOW \}$ 

:SERialbus:SETup<x>:CANBus:

RECessive?

< x > = 1, 2

Example :SERIALBUS:SETUP1:CANBUS:RECESSIVE HIGH

:SERIALBUS:SETUP1:CANBUS:RECESSIVE? ->

:SERIALBUS:SETUP1:CANBUS:RECESSIVE HIGH

#### :SERialbus:SETup<x>:CANBus:SPOint

Function Sets the CAN bus setup sample point or queries the

current setting.

Syntax :SERialbus:SETup<x>:CANBus:

SPOint {<NRf>}

:SERialbus:SETup<x>:CANBus:SPOint?

< x > = 1, 2

<NRf> = 18.8 to 90.6(%)

Example :SERIALBUS:SETUP1:CANBUS:SPOINT 18.8

:SERIALBUS:SETUP1:CANBUS:SPOINT? ->

:SERIALBUS:SETUP1:CANBUS:

SPOINT 18.8E+00

#### :SERialbus:SETup<x>:CANBus:TRACe

Function Sets the CAN bus setup trace or queries the current

setting.

Syntax :SERialbus:SETup<x>:CANBus:

TRACe {<NRf>}

:SERialbus:SETup<x>:CANBus:TRACe?

< x > = 1, 2< NRf > = 1 to 8

Example :SERIALBUS:SETUP1:CANBUS:TRACE 1

:SERIALBUS:SETUP1:CANBUS:TRACE? ->
:SERIALBUS:SETUP1:CANBUS:TRACE 1

#### :SERialbus:SETup<x>:FLEXray?

Function Queries all settings related to the FLEXRAY bus

setup

Syntax :SERialbus:SETup<x>:FLEXray?

< x > = 1.2

Example :SERIALBUS:SETUP1:FLEXRAY? ->

:SERIALBUS:SETUP1:FLEXRAY:BRATE

5000000; CRCBUS A; TRACE 1;

SPOINT 5.00E+00

## :SERialbus:SETup<x>:FLEXray:BRATe

Function Sets the FLEXRAY bus setup bit rate (data transfer

rate) or queries the current setting.

Syntax :SERialbus:SETup<x>:FLEXray:

BRATe {<NRf>}

:SERialbus:SETup<x>:FLEXray:BRATe?

< x > = 1.2

<NRf> = 2500000, 5000000, 10000000

Example :SERIALBUS:SETUP1:FLEXRAY:BRATE 5000000

:SERIALBUS:SETUP1:FLEXRAY:BRATE? -> :SERIALBUS:SETUP1:FLEXRAY:BRATE 5000000

# :SERialbus:SETup<x>:FLEXray:CRCBus

Function Sets the FLEXRAY bus setup CRC error or queries

the current setting.

Syntax :SERialbus:SETup<x>:FLEXray:

CRCBus  $\{A \mid B\}$ 

:SERialbus:SETup<x>:FLEXray:CRCBus?

< x > = 1, 2

Example :SERIALBUS:SETUP1:FLEXRAY:CRCBUS A

:SERIALBUS:SETUP1:FLEXRAY:CRCBUS? ->

:SERIALBUS:SETUP1:FLEXRAY:CRCBUS A

#### :SERialbus:SETup<x>:FLEXray:SPOint

Sets the FLEXRAY bus setup sample point or queries

the current setting.

Syntax :SERialbus:SETup<x>:FLEXray:

SPOint {<NRf>}

:SERialbus:SETup<x>:FLEXray:SPOint?

< x > = 1.2<NRf> = 1 to 8

Example :SERIALBUS:SETUP1:FLEXRAY:SPOINT 5

:SERIALBUS:SETUP1:FLEXRAY:SPOINT? ->

:SERIALBUS:SETUP1:FLEXRAY:

SPOINT 5.00E+00

### :SERialbus:SETup<x>:FLEXray:TRACe

Function Sets the FLEXRAY bus setup trace or queries the current setting.

:SERialbus:SETup<x>:FLEXray: Syntax

TRACe {<NRf>}

:SERialbus:SETup<x>:FLEXray:TRACe?

< x > = 1.2< NRf > = 1 to 8

Example :SERIALBUS:SETUP1:FLEXRAY:TRACE 1

:SERIALBUS:SETUP1:FLEXRAY:TRACE? -> :SERIALBUS:SETUP1:FLEXRAY:TRACE 1

### :SERialbus:SETup<x>:I2CBus?

Function Queries all settings related to the I2C bus setup.

:SERialbus:SETup<x>:I2CBus? Syntax

< x > = 1.2

Example :SERIALBUS:SETUP1:I2CBUS? ->

:SERIALBUS:SETUP1:I2CBUS:CLOCK 1;

TRACE 1

#### :SERialbus:SETup<x>:I2CBus:CLOCk

Function Sets the I2C bus setup clock channel or queries the current setting.

Syntax :SERialbus:SETup<x>:I2CBus:

CLOCk {<NRf>|A<y>}

:SERialbus:SETup<x>:I2CBus:CLOCk?

< x > = 1.2< NRf > = 1 to 8<y> = 0 to 7

Example :SERIALBUS:SETUP1:I2CBUS:CLOCK 1

:SERIALBUS:SETUP1:I2CBUS:CLOCK? -> :SERIALBUS:SETUP1:I2CBUS:CLOCK 1

#### :SERialbus:SETup<x>:I2CBus:DTRace

Sets the I2C bus signal analysis data channel or queries the current setting.

:SERialbus:SETup<x>:I2CBus: Syntax

DTRace { < NRf > | A < y > }

:SERialbus:SETup<x>:I2CBus:DTRace?

< x > = 1, 2<NRf> = 1 to 8 < y > = 0 to 7

Example :SERIALBUS:SETUP1:I2CBUS:DTRACE 1

:SERIALBUS:SETUP1:I2CBUS:DTRACE? -> :SERIALBUS:SETUP1:I2CBUS:DTRACE 1

#### :SERialbus:SETup<x>:LINBus?

Function Queries all settings related to the LIN bus setup.

:SERialbus:SETup<x>:LINBus? Syntax

 $\langle x \rangle = 1.2$ 

Example :SERIALBUS:SETUP1:LINBUS? ->

:SERIALBUS:SETUP1:LINBUS:BRATE 19200; REVISION LIN1 3; TRACE 1; SPOINT 18.8E+00

#### :SERialbus:SETup<x>:LINBus:BRATe

Function Sets the LIN bus setup bit rate (data transfer rate) or

queries the current setting.

Syntax :SERialbus:SETup<x>:LINBus:

BRATe {<NRf>|USER,<NRf>}

:SERialbus:SETup<x>:LINBus:BRATe?

< x > = 1.2

<NRf> = 1200, 2400, 4800, 9600, 19200

<NRf> of USER = See the SB5000 User's Manual

Example :SERIALBUS:SETUP1:LINBUS:BRATE 19200

:SERIALBUS:SETUP1:LINBUS:BRATE? -> :SERIALBUS:SETUP1:LINBUS:BRATE 19200

# :SERialbus:SETup<x>:LINBus:REVision

Function Sets the LIN bus setup revision (1.3 or 2.0) or queries the current setting.

:SERialbus:SETup<x>:LINBus: Syntax REVision {LIN1\_3 | LIN2\_0}

:SERialbus:SETup<x>:LINBus:REVision?

< x > = 1.2

Example :SERIALBUS:SETUP1:LINBUS:REVISION

LIN1 3

:SERIALBUS:SETUP1:LINBUS:REVISION? ->

:SERIALBUS:SETUP1:LINBUS:

REVISION LIN1\_3

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#### :SERialbus:SETup<x>:LINBus:SPOint

Function Sets the LIN bus setup sample point or queries the current setting.

Syntax :SERialbus:SETup<x>:LINBus:

SPOint {<NRf>}

:SERialbus:SETup<x>:LINBus:SPOint?

< x > = 1, 2

<NRf> = 18.8 to 90.6(%)

Example :SERIALBUS:SETUP1:LINBUS:SPOINT 18.8

:SERIALBUS:SETUP1:LINBUS:SPOINT? ->

:SERIALBUS:SETUP1:LINBUS:

SPOINT 18.8E+00

#### :SERialbus:SETup<x>:LINBus:TRACe

Function Sets the LIN bus setup trace or queries the current

setting.

Syntax :SERialbus:SETup<x>:LINBus:

TRACe {<NRf>|A<y>}

:SERialbus:SETup<x>:LINBus:TRACe?

<x> = 1, 2<NRf> = 1 to 8<y> = 0 to 7

Example :SERIALBUS:SETUP1:LINBUS:TRACE 1

:SERIALBUS:SETUP1:LINBUS:TRACE? ->
:SERIALBUS:SETUP1:LINBUS:TRACE 1

#### :SERialbus:SETup<x>:SPIBus?

Function Queries all settings related to the SPI bus setup.

Syntax :SERialbus:SETup<x>:SPIBus?

< x > = 1, 2

Example :SERIALBUS:SETUP1:SPIBUS? ->

:SERIALBUS:SETUP1:SPIBUS:

BITORDER LSBFIRST;CLOCK:POLARITY FALL; TRACE 1;:SERIALBUS:SETUP1:SPIBUS:CS: ACTIVE HIGH;TRACE 1;:SERIALBUS:SETUP1: SPIBUS:DATA1:ACTIVE HIGH;TRACE 1;: SERIALBUS:SETUP1:SPIBUS:DATA2:

ACTIVE HIGH; TRACE 3; :SERIALBUS:SETUP1:

SPIBUS:MODE WIRE3

# :SERialbus:SETup<x>:SPIBus:BITorder

Function Sets the SPI bus setup bit order or queries the current setting.

Syntax :SERialbus:SETup<x>:SPIBus:

BITorder {LSBFirst|MSBFirst}

:SERialbus:SETup<x>:SPIBus:BITorder?

< x > = 1, 2

Example :SERIALBUS:SETUP1:SPIBUS:

BITORDER LSBFIRST

:SERIALBUS:SETUP1:SPIBUS:BITORDER?

-> :SERIALBUS:SETUP1:SPIBUS:

BITORDER LSBFIRST

#### :SERialbus:SETup<x>:SPIBus:CLOCk?

Function Queries all settings related to the channel of the clock

signal of the SPI bus setup.

Syntax :SERialbus:SETup<x>:SPIBus:CLOCk?

< x > = 1.2

Example :SERIALBUS:SETUP1:SPIBUS:CLOCK? ->

:SERIALBUS:SETUP1:SPIBUS:CLOCK:

POLARITY FALL; TRACE 1

# :SERialbus:SETup<x>:SPIBus:CLOCk: POLarity

Function Sets the polarity of the channel of the clock signal of

the SPI bus setup.

Syntax :SERialbus:SETup<x>:SPIBus:CLOCk:

POLarity {FALL|RISE}

:SERialbus:SETup<x>:SPIBus:CLOCk:

POLarity? <x> = 1, 2

Example :SERIALBUS:SETUP1:SPIBUS:CLOCK:

POLARITY FALL

:SERIALBUS:SETUP1:SPIBUS:CLOCK:

POLARITY? -> :SERIALBUS:SETUP1:SPIBUS:

CLOCK: POLARITY FALL

#### :SERialbus:SETup<x>:SPIBus:CLOCk:TRACe

Function Sets the channel of the clock signal of the SPI bus

setup or queries the current setting.

Syntax :SERialbus:SETup<x>:SPIBus:CLOCk:
 TRACe {<NRf>|A<y>}

:SERialbus:SETup<x>:SPIBus:CLOCk:TRACe?

<x> = 1, 2<NRf> = 1 to 8<y> = 0 to 7

Example :SERIALBUS:SETUP1:SPIBUS:CLOCK:TRACE 1

:SERIALBUS:SETUP1:SPIBUS:CLOCK:TRACE?

-> :SERIALBUS:SETUP1:SPIBUS:CLOCK:

TRACE 1

#### :SERialbus:SETup<x>:SPIBus:CS?

Function Queries all settings related to the channel of the chip

select signal of the SPI bus setup.
Syntax :SERialbus:SETup<x>:SPIBus:CS?

<x> = 1, 2

Example :SERIALBUS:SETUP1:SPIBUS:CS? ->

:SERIALBUS:SETUP1:SPIBUS:CS:

ACTIVE HIGH; TRACE 1

#### :SERialbus:SETup<x>:SPIBus:CS:ACTive :SERialbus:SETup<x>:SPIBus:DATA<x>: Sets the active level of the channel of the chip select TRACe signal of the SPI bus setup or queries the current Function Sets each data channel of the SPI bus setup or setting. queries the current setting. Syntax :SERialbus:SETup<x>:SPIBus:CS: Syntax :SERialbus:SETup<x>:SPIBus:DATA<x>: ACTive {HIGH|LOW} TRACe {<NRf>|A<y>} :SERialbus:SETup<x>:SPIBus:CS:ACTive? :SERialbus:SETup<x>:SPIBus:DATA<x>: Example :SERIALBUS:SETUP1:SPIBUS:CS:ACTIVE HIGH <x> of SETup<x> = 1, 2 :SERIALBUS:SETUP1:SPIBUS:CS:ACTIVE? -> < x > of DATA < x > = 1, 2:SERIALBUS:SETUP1:SPIBUS:CS:ACTIVE HIGH <NRf> = 1 to 8 <y> = 0 to 7 :SERialbus:SETup<x>:SPIBus:CS:TRACe Example :SERIALBUS:SETUP1:SPIBUS:DATA1:TRACE 1 Sets the channel of the chip select signal of the SPI Function :SERIALBUS:SETUP1:SPIBUS:DATA1:TRACE? bus setup or queries the current setting. -> :SERIALBUS:SETUP1:SPIBUS:DATA1: :SERialbus:SETup<x>:SPIBus:CS: TRACE 1 Syntax TRACe {<NRf>|A<y>} :SERialbus:SETup<x>:SPIBus:CS:TRACe? :SERialbus:SETup<x>:SPIBus:MODE < x > = 1.2Function Sets the wiring method (3-wire/4-wire) of the SPI bus < NRf > = 1 to 8setup or queries the current setting. < v > = 0 to 7Syntax :SERialbus:SETup<x>:SPIBus: Example :SERIALBUS:SETUP1:SPIBUS:CS:TRACE 1 MODE {WIRE3 | WIRE4 } :SERIALBUS:SETUP1:SPIBUS:CS:TRACE? -> :SERialbus:SETup<x>:SPIBus:MODE? :SERIALBUS:SETUP1:SPIBUS:CS:TRACE 1 < x > = 1.2Example :SERIALBUS:SETUP1:SPIBUS:MODE WIRE3 :SERialbus:SETup<x>:SPIBus:DATA<x>? :SERIALBUS:SETUP1:SPIBUS:MODE? -> Queries all settings related to each data of the SPI :SERIALBUS:SETUP1:SPIBUS:MODE WIRE3 Function bus setup. :SERialbus:SETup<x>:SPIBus:DATA<x>? Syntax :SERialbus:SETup<x>:TRACe<x>? <x> of SETup<x> = 1, 2 Function Queries all settings related to each trace. < x > of DATA < x > = 1, 2:SERialbus:SETup<x>:TRACe<x>? Syntax Example :SERIALBUS:SETUP1:SPIBUS:DATA1? -> <x> of SETup<x> = 1, 2 :SERIALBUS:SETUP1:SPIBUS:DATA1: <x> of TRACe<x> = 1 to 8 ACTIVE HIGH; TRACE 1 Example :SERIALBUS:SETUP1:TRACE1? -> :SERIALBUS:SETUP1:TRACE1: :SERialbus:SETup<x>:SPIBus:DATA<x>: HYSTERESIS 1.0000000E+00; LEVEL 0.000000E+00 ACTive Function Sets the active level of each data of the SPI bus :SERialbus:SETup<x>:TRACe<x>: setup or queries the current setting. Syntax :SERialbus:SETup<x>:SPIBus:DATA<x>: HYSTeresis ACTive {HIGH|LOW} Function Sets the hysteresis of the threshold level of each :SERialbus:SETup<x>:SPIBus:DATA<x>: trace or queries the current setting. ACTive? :SERialbus:SETup<x>:TRACe<x>: Syntax <x> of SETup<x> = 1, 2 HYSTeresis {<NRf>} < x > of DATA < x > = 1, 2:SERialbus:SETup<x>:TRACe<x>: Example :SERIALBUS:SETUP1:SPIBUS:DATA1: HYSTeresis? ACTIVE HIGH <x> of SETup<x> = 1, 2 :SERIALBUS:SETUP1:SPIBUS:DATA1:ACTIVE? <x> of TRACe<x> = 1 to 8 -> :SERIALBUS:SETUP1:SPIBUS:DATA1: <NRf> = 0 to 4(div, 0.1 div step) ACTIVE HIGH Example :SERIALBUS:SETUP1:TRACE1:HYSTERESIS 1 :SERIALBUS:SETUP1:TRACE1:HYSTERESIS?

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-> :SERIALBUS:SETUP1:TRACE1:

HYSTERESIS 1.000E+00

# :SERialbus:SETup<x>:TRACe<x>:LEVel

Sets the threshold level of each trace or queries the current setting.

Syntax :SERialbus:SETup<x>:TRACe<x>:

> LEVel {<NRf>|<Voltage>|<Current>} :SERialbus:SETup<x>:TRACe<x>:LEVel?

<x> of SETup<x> = 1, 2 <x> of TRACe<x> = 1 to 8

<NRf>, <Voltage>, <Current> = See the SB5000

User's Manual

Example :SERIALBUS:SETUP1:TRACE1:LEVEL 0

:SERIALBUS:SETUP1:TRACE1:LEVEL? ->

: SERIALBUS: SETUP1: TRACE1:

LEVEL 0.000E+00

#### :SERialbus:SETup<x>:TYPE

Function Sets the serial bus setup type or queries the current

setting.

:SERialbus:SETup<x>:TYPE {CANBus| Syntax

FLEXray | I2CBus | LINBus | SPIBus | UART }

:SERialbus:SETup<x>:TYPE?

< x > = 1, 2

Example :SERIALBUS:SETUP1:TYPE CANBUS

:SERIALBUS:SETUP1:TYPE? -> :SERIALBUS:

SETUP1: TYPE CANBUS

#### :SERialbus:SETup<x>:UART?

Function Queries all settings related to the UART bus setup.

:SERialbus:SETup<x>:UART? Syntax

< x > = 1, 2

Example :SERIALBUS:SETUP1:UART? -> :SERIALBUS:

SETUP1: UART: BITORDER LSBFIRST; BRATE 19200; FORMAT BIT7PARITY;

PMODE EVEN; POLARITY NEGATIVE; TRACE 1;

SPOINT 18.8E+00

#### :SERialbus:SETup<x>:UART:BITorder

Function Sets the UART bus setup bit order or queries the current setting.

:SERialbus:SETup<x>:UART: Syntax

BITorder {LSBFirst | MSBFirst}

:SERialbus:SETup<x>:UART:BITorder?

< x > = 1, 2

Example :SERIALBUS:SETUP1:UART:BITORDER

LSBFIRST

:SERIALBUS:SETUP1:UART:BITORDER? ->

:SERIALBUS:SETUP1:UART: BITORDER LSBFIRST

#### :SERialbus:SETup<x>:UART:BRATe

Function Sets the UART bus setup bit rate (data transfer rate)

or queries the current setting.

:SERialbus:SETup<x>:UART: Syntax

BRATe { < NRf > | USER, < NRf > }

:SERialbus:SETup<x>:UART:BRATe?

< x > = 1, 2

<NRf> = 1200, 2400, 4800, 9600, 19200, 38400,

57600, 115200

Example :SERIALBUS:SETUP1:UART:BRATE 19200

:SERIALBUS:SETUP1:UART:BRATE? ->

:SERIALBUS:SETUP1:UART:BRATE 19200

### :SERialbus:SETup<x>:UART:FORMat

Sets the UART bus setup data format or queries the

current setting.

:SERialbus:SETup<x>:UART: Syntax

FORMat {BIT7parity|BIT8Noparity|

BIT8Parity}

:SERialbus:SETup<x>:UART:FORMat?

< x > = 1.2

Example :SERIALBUS:SETUP1:UART:

FORMAT BIT7PARITY

:SERIALBUS:SETUP1:UART:FORMAT? ->

:SERIALBUS:SETUP1:UART: FORMAT BIT7PARITY

## :SERialbus:SETup<x>:UART:PMODe

Function Sets the UART bus setup Parity mode or queries the

current setting.

:SERialbus:SETup<x>:UART: Syntax

PMODe {EVEN|ODD}

:SERialbus:SETup<x>:UART:PMODe?

< x > = 1.2

Example :SERIALBUS:SETUP1:UART:PMODE EVEN

:SERIALBUS:SETUP1:UART:PMODE? -> :SERIALBUS:SETUP1:UART:PMODE EVEN

## :SERialbus:SETup<x>:UART:POLarity

Sets the UART bus setup polarity or queries the

current setting.

:SERialbus:SETup<x>:UART: Syntax

POLarity {NEGative | POSitive}

:SERialbus:SETup<x>:UART:POLarity? < x > = 1.2

Example :SERIALBUS:SETUP1:UART:POLARITY

:SERIALBUS:SETUP1:UART:POLARITY? ->

:SERIALBUS:SETUP1:UART:

POLARITY NEGATIVE

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## :SERialbus:SETup<x>:UART:SPOint

Function Sets the UART bus setup sample point or queries the current setting.

Syntax :SERialbus:SETup<x>:UART:SPOint {<NRf>}
:SERialbus:SETup<x>:UART:SPOint?
<x> = 1, 2
<NRf> = 18.8 to 90.6(%)

Example :SERIALBUS:SETUP1:UART:SPOINT 18.8
:SERIALBUS:SETUP1:UART:SPOINT? ->
:SERIALBUS:SETUP1:UART:SPOINT 18.8E+00

## :SERialbus:SETup<x>:UART:TRACe

Function Sets the UART bus setup trace or queries the current setting.

Syntax :SERialbus:SETup<x>:UART:
TRACe {<NRf>|A<y>}
:SERialbus:SETup<x>:UART:TRACe?
<x> = 1, 2
<NRf> = 1 to 8
<y> = 0 to 7

Example :SERIALBUS:SETUP1:UART:TRACE 1
:SERIALBUS:SETUP1:UART:TRACE? ->
:SERIALBUS:SETUP1:UART:TRACE 1

#### :SERialbus:TLINk

Function Sets the serial bus setup trigger link or queries the current setting.

 $\verb|Syntax| : \verb|SERialbus:TLINk| \{ \verb|OFF| | \verb|SETUP1| | \verb|SETUP2| \}$ 

:SERialbus:TLINk?
Example :SERIALBUS:TLINK OFF

:SERIALBUS:TLINK? ->
:SERIALBUS:TLINK OFF

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# 5.24 SNAP Group

#### :SNAP

Function Executes the snapshot.

Syntax :SNAP Example :SNAP

# 5.25 SSTart Group

#### :SSTart?

Function Starts the waveform acquisition with the trigger mode

set to single. If the waveform acquisition stops within the specified time period, 0 is returned at that point.

If not, 1 is returned.

 $\verb"Syntax": SSTart? {<NRf>}$ 

<NRf> = 1 to 360000 (10 ms resolution: wait period,

START and wait)

0 (START only. No wait.)

-360000 to -1 (10 ms unit: wait time, do

not START and wait)

Example :SSTART? 100 -> :SSTART 0

Description • If the specified time period is positive, data acquisition is started in the SINGLE TRIGGER mode and waits for the operation to stop.

- If the specified time period is 0, data acquisition is started and 0 is returned without waiting for the operation to stop.
- If the specified time period is negative, the instrument simply waits for the operation to stop.
   Data acquisition is not started.

# 5.26 STARt Group

#### :STARt

Function Starts the waveform acquisition.

Syntax :STARt
Example :START

Description Use STOP to stop the waveform acquisition.

# 5.27 STATus Group

The commands in the STATus group are used to make settings and inquiries related to the communication status function. There are no front panel keys that correspond to the commands in this group. For a description of the status report, see chapter 6.

#### :STATus?

Function Queries all settings related to the communication status function.

Syntax :STATus?

Example :STATUS? -> :STATUS:EESE 0;

FILTER1 NEVER;FILTER2 NEVER;

FILTER3 NEVER;FILTER4 NEVER;

FILTER5 NEVER;FILTER6 NEVER;

FILTER7 NEVER;FILTER8 NEVER;

FILTER9 NEVER;FILTER10 NEVER;

FILTER11 NEVER;FILTER12 NEVER;

FILTER13 NEVER;FILTER14 NEVER;

QENABLE 1; QMESSAGE 1

### :STATus:CONDition?

Function Queries the contents of the condition register.

Syntax :STATus:CONDition?
Example :STATUS:CONDITION -> 16

Description For details on the condition register, see chapter 6, "Status Report."

FILTER15 NEVER; FILTER16 NEVER;

### :STATus:EESE

Function Sets the extended event enable register or queries

the current setting.

Syntax :STATus:EESE <Register>

:STATus:EESE?

<Register> = 0 to 65535

Example :STATUS:EESE 257

:STATUS:EESE? -> :STATUS:EESE 257

Description For details on the extended event enable register, see chapter 6, "Status Report."

### :STATus:EESR?

Function Queries the content of the extended event register

and clears the register.

Syntax :STATus:EESR?
Example :STATUS:EESR? -> 1

Description For details on the extended event register, see

chapter 6, "Status Report."

### :STATus:ERRor?

Function Queries the error code and message information (top

of the error queue).

Syntax :STATus:ERRor?
Example :STATUS:ERROR? ->

113, "Undefined header"

#### :STATus:FILTer<x>

Function Sets the transition filter or queries the current setting.

Syntax :STATus:FILTer<x> {RISE|FALL|BOTH|

NEVer}

:STATus:FILTer<x>?

< x > = 1 to 16

Example :STATUS:FILTER2 RISE

:STATUS:FILTER2? -> :STATUS:FILTER2

RISE

Description For details on the transition filter, see chapter 6,

"Status Report."

### :STATus:QENable

Function Sets whether to store messages other than errors to

the error queue or queries the current setting.

Syntax :STATus:QENable {<Boolean>}

:STATus:QENable?

Example :STATUS:QENABLE ON

:STATUS:QENABLE? -> :STATUS:QENABLE 1

## :STATus:QMESsage

Function Sets whether or not to attach message information

to the response to the "STATus:ERRor?" query or queries the current setting.

Syntax :STATus:QMESsage {<Boolean>}

:STATus:QMESsage?

Example :STATUS:QMESSAGE OFF

:STATUS:QMESSAGE? -> :STATUS:QMESSAGE 0

# :STATus:SPOL1? (Serial Pol1)

Function Executes serial polling.

Syntax :STATus:SPOL1?

Example :STATUS:SPOLL? -> STATUS:SPOLL 0

Description This command is dedicated to the Ethernet interface

(option).

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# 5.28 STOP Group

### :STOP

Function Stops the waveform acquisition.

Syntax :STOP
Example :STOP

Description Use STARt to start the waveform acquisition.

# 5.29 SYSTem Group

### :SYSTem?

Function Queries all settings related to the system.

Syntax :SYSTem?

Example :SYSTEM? -> :SYSTEM:CLICK 1;CLOCK:

DTIME "2007/01/06",

"11:37:32", "09:00"; MODE 1;:SYSTEM:
LANGUAGE JAPANESE; MFSIZE SMALL;

MLANGUAGE ENGLISH; USBKEYBOARD ENGLISH

#### :SYSTem:CLICk

Function Turns ON/OFF the click sound or queries the current

setting.

Syntax :SYSTem:CLICk {<Boolean>}

:SYSTem:CLICk?

Example :SYSTEM:CLICK ON

:SYSTEM:CLICK? -> :SYSTEM:CLICK 1

### :SYSTem:CLOCk?

Function Queries all settings related to the date, time, and time

difference with respect to GMT.

Syntax :SYSTem:CLOCk?

Example :SYSTEM:CLOCK? -> :SYSTEM:CLOCK:

DTIME "2007/01/06","11:37:32","09:00";

MODE 1

### :SYSTem:CLOCk:DTIMe

Function Sets the date, time, and time difference with respect

to GMT or queries the current setting.

 $\verb|Syntax| : \verb|SYSTem:CLOCk:DTIMe| { < String>, < String>,} \\$ 

<String>}

:SYSTem:CLOCk:DTIMe?

The left <String> = YYYY/MM/DD. See the SB5000

User's Manual.

The center <String> = HH:MM:SS. See the SB5000

User's Manual.

The right <String> = HH:MM. See the SB5000 User'

s Manual.

Example :SYSTEM:CLOCK:DTIME "2005/05/06",

"11:37:32","09:00"

:SYSTEM:CLOCK:DTIME? -> :SYSTEM:CLOCK:

DTIME "2005/05/06", "11:37:32","09:00"

### :SYSTem:CLOCk:MODE

Function  $\;\;$  Turns ON/OFF the date, time, and time difference

with respect to GMT or queries the current setting.

Syntax :SYSTem:CLOCk:MODE {<Boolean>}
:SYSTem:CLOCk:MODE?

Example :SYSTEM:CLOCK:MODE ON

:SYSTEM:CLOCK:MODE? -> :SYSTEM:CLOCK:

MODE 1

### :SYSTem:FORMat:IMEMory[:EXECute]

Function Formats the internal memory.

Syntax :SYSTem:FORMat:IMEMory[:EXECute]
Example :SYSTEM:FORMAT:IMEMORY:EXECUTE

### :SYSTem:FORMat:IHDD[:EXECute]

Function Formats the internal hard disk.

Syntax :SYSTem:FORMat:IHDD[:EXECute]
Example :SYSTEM:FORMAT:IHDD:EXECUTE

# :SYSTem:FORMat:SDELete[:EXECute] (Sure Delete)

Function Clears and formats the internal memory.

Syntax :SYSTem:FORMat:SDELete[:EXECute]

Example :SYSTEM:FORMAT:SDELETE:EXECUTE

# :SYSTem:LANGuage

Function Sets the message language or queries the current

setting.

Syntax :SYSTem:LANGuage {CHINese|ENGLish|

JAPANese | KORean }
:SYSTem:LANGuage?

Example :SYSTEM:LANGUAGE JAPANESE

:SYSTEM:LANGUAGE? -> :SYSTEM:

LANGUAGE JAPANESE

### :SYSTem:MFSize

Function Sets the menu font size or queries the current setting.

Syntax SYSTem:MFSize {LARGe|SMAL1}

Example :SYSTEM:MFSIZE LARGE

:SYSTEM:MFSIZE? -> :SYSTEM:MFSIZE LARGE

### :SYSTem:MLANguage

Function Sets the menu language or queries the current

setting.

Syntax :SYSTem:MLANguage {CHINese|ENGLish|

JAPANese|KORean}
:SYSTem:MLANguage?

Example :SYSTEM:MLANGUAGE ENGLISH

:SYSTEM:MLANGUAGE? -> :SYSTEM:

MLANGUAGE ENGLISH

### :SYSTem:OVERview

Function Displays system information.

Syntax :SYSTem:OVERview
Example :SYSTEM:OVERVIEW

### :SYSTem:USBKeyboard

Function Sets the USB keyboard type or queries the current

setting.

Syntax :SYSTem:USBKeyboard {ENGLish|JAPanese}

:SYSTem:USBKeyboard?

Example :SYSTEM:USBKEYBOARD ENGLISH

:SYSTEM:USBKEYBOARD? -> :SYSTEM:

USBKEYBOARD ENGLISH

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# 5.30 TIMebase Group

### :TIMebase?

Function Queries all settings related to the time base.

Syntax :TIMebase?

Example :TIMEBASE? -> :TIMEBASE:TDIV 1.000E-06

### :TIMebase:SRATe? (Sample RATE)

Function Queries the sample rate or queries the current

setting.

Syntax :TIMebase:SRATe?

Example :TIMEBASE:SRATE? -> :TIMEBASE:

SRATE 125.0E+06

### :TIMebase:TDIV

Function Sets the T/div value or queries the current setting.

Syntax :TIMebase:TDIV {<Time>}

:TIMebase:TDIV?

<Time> = 500 ps to 50 s

Example :TIMEBASE:TDIV 1NS

:TIMEBASE:TDIV? -> :TIMEBASE:

TDIV 1.000E-06

# 5.31 TRIGger Group

### :TRIGger?

```
Function Queries all settings related to the trigger.
Syntax
       :TRIGger?
Example :TRIGGER? -> :TRIGGER:ACTION:
       ACQCOUNT 1; BUZZER 0; HCOPY 0; MAIL:
       INTERVAL OFF; MODE 0;:TRIGGER:ACTION:
       MODE OFF; SAVE 0; :TRIGGER: TYPE CANBUS;
       CLOCK: SOURCE 1; POLARITY RISE; : TRIGGER:
       DELAY:EDGECOUNT:COUNT 1;:TRIGGER:DELAY:
       MODE 0; POLARITY RISE; SOURCE 1;
       TIME 0.0000000E+00; TYPE BYTIME;:
       TRIGGER: EINTERVAL: EVENT1: TYPE CANBUS;
       CANBUS: ACK DONTCARE; BRATE 500000; DATA:
       BORDER BIG; CONDITION DONTCARE;
       DATA1 0.0000000E+00;
       DATA2 255.00000E+00:DLC 8:MSBLSB 7.0:
       SIGN UNSIGN;:TRIGGER:EINTERVAL:EVENT1:
       XXXXXXXXXXX";:TRIGGER:EINTERVAL:
       EVENT1: CANBUS: IDOR: ID1: ACK DONTCARE;
       DATA: BORDER BIG; CONDITION BETWEEN;
       DATA1 0.000000E+00;
       DATA2 255.00000E+00; DLC 8; MSBLSB 7,0;
       SIGN UNSIGN;:TRIGGER:EINTERVAL:EVENT1:
       CANBUS: IDOR: ID1: FORMAT STD; IDEXT:
       XX";:TRIGGER:EINTERVAL:EVENT1:CANBUS:
       IDOR:ID1:IDSTD:PATTERN "XXXXXXXXXXX";:
       TRIGGER: EINTERVAL: EVENT1: CANBUS:
       IDOR:ID1:MODE 1;RTR DATA;:TRIGGER:
       EINTERVAL: EVENT1: CANBUS: IDOR: ID2:
       ACK DONTCARE; DATA: BORDER BIG;
       CONDITION DONTCARE;
       DATA1 0.000000E+00;
       DATA2 255.00000E+00;DLC 8;
       MSBLSB 7,0....
```

### :TRIGger:ACTion?

Function Queries all settings related to action-on-trigger. Svntax :TRIGger:ACTion? Example :TRIGGER:ACTION? -> :TRIGGER:ACTION:

ACQCOUNT 1; BUZZER 0; HCOPY 1; MAIL: INTERVAL OFF; MODE 0; :TRIGGER:ACTION:

MODE ACONDITION; SAVE 1

### :TRIGger:ACTion:ACQCount

Function Sets the action count of action-on-trigger or queries the current setting. Syntax :TRIGger:ACTion:ACQCount { < NRf > | INFinite} :TRIGger:ACTion:ACQCount? <NRf> = 1 to 1000000 Example :TRIGGER:ACTION:ACQCOUNT 10 :TRIGGER:ACTION:ACQCOUNT? -> :TRIGGER:

#### :TRIGger:ACTion:BUZZer

ACTION: ACQCOUNT 10

Function Sets whether to sound a buzzer when an action is activated or queries the current setting. :TRIGger:ACTion:BUZZer {<Boolean>} Syntax :TRIGger:ACTion:BUZZer? Example :TRIGGER:ACTION:BUZZER ON :TRIGGER:ACTION:BUZZER? -> :TRIGGER: ACTION: BUZZER 1

### :TRIGger:ACTion:HCOPy

Function Sets whether or not to output screen image data (ON/OFF) when an action is activated, or queries the current setting.

:TRIGger:ACTion:HCOPy {<Boolean>} Syntax :TRIGger:ACTion:HCOPy? Example :TRIGGER:ACTION:HCOPY ON :TRIGGER:ACTION:HCOPY? -> :TRIGGER: ACTION: HCOPY 1

### :TRIGger:ACTion:MAIL?

Queries all settings related to the mail transmission when an action is activated.

Syntax :TRIGger:ACTion:MAIL?

Example :TRIGGER:ACTION:MAIL? -> :TRIGGER: ACTION: MAIL: INTERVAL 10; MODE 1

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### :TRIGger:ACTion:MAIL:INTerval

Function Sets the interval at which to send mail when an action

is activated or queries the current setting.

Syntax :TRIGger:ACTion:MAIL:INTerval

{OFF | <NRf>}

:TRIGger:ACTion:MAIL:INTerval?

<NRf> = 1 to 1440 (min)

Example :TRIGGER:ACTION:MAIL:INTERVAL 10

:TRIGGER:ACTION:MAIL:INTERVAL?

-> :TRIGGER:ACTION:MAIL:INTERVAL 10

### :TRIGger:ACTion:MAIL:MODE

Function Sets whether to send mail when an action is activated

or queries the current setting.

Syntax :TRIGger:ACTion:MAIL:MODE {<Boolean>}

:TRIGger:ACTion:MAIL:MODE?

Example :TRIGGER:ACTION:MAIL:MODE ON:TRIGGER:

ACTION:MAIL:MODE? -> :TRIGGER:ACTION:

MAIL:MODE 1

### :TRIGger:ACTion:MODE

Function Sets the action-on-trigger mode or queries the current

setting.

Syntax :TRIGger:ACTion:MODE {ACONdition|OFF}

:TRIGger:ACTion:MODE?

Example :TRIGGER:ACTION:MODE ACONDITION

:TRIGGER:ACTION:MODE? -> :TRIGGER:

ACTION: MODE ACONDITION

# :TRIGger:ACTion:SAVE

Function Sets whether to save the waveform data to the

storage medium (ON/OFF) when an action is activated or queries the current setting.

Syntax :TRIGger:ACTion:SAVE {<Boolean>}

:TRIGger:ACTion:SAVE?

Example :TRIGGER:ACTION:SAVE ON

:TRIGGER:ACTION:SAVE? -> :TRIGGER:

ACTION:SAVE 1

### :TRIGger:ACTion:STARt

Function Starts the action-on-trigger.

Syntax :TRIGger:ACTion:STARt Example :TRIGGER:ACTION:START

### :TRIGger:ACTion:STOP

Function Stops the action-on-trigger.

Syntax :TRIGger:ACTion:STOP Example :TRIGGER:ACTION:STOP

### :TRIGger:CLOCk?

Function Queries all settings related to the clock channel.

Syntax :TRIGger:CLOCk?

Example :TRIGGER:CLOCK? -> :TRIGGER:CLOCK:

SOURCE 1; POLARITY RISE

### :TRIGger:CLOCk:POLarity

Function Sets the polarity of the clock channel or queries the

current setting.

Syntax :TRIGger:CLOCk:POLarity {FALL|RISE}

:TRIGger:CLOCk:POLarity?

Example :TRIGGER:CLOCK:POLARITY RISE

:TRIGGER:CLOCK:POLARITY? -> :TRIGGER:

CLOCK: POLARITY RISE

Description • This command is invalid when :TRIGger:CLOCk: SOURce NONE.

 For:TRIGger:SOURce:CHANnel<x>:WINDow ON, the choices in the SB5000 menu are Enter/Exit. {RISE} corresponds to Enter, and {FALL}

corresponds to Exit.

This command is valid when :TRIGger:TYPE

PSTAte|STATe.

# :TRIGger:CLOCk:SOURce

Function Sets the source waveform of the clock channel or

queries the current setting.

Syntax :TRIGger:CLOCk:SOURce {<NRf>|NONE}

:TRIGger:CLOCk:SOURce?

<NRf> = 1 to 4

Example :TRIGGER:CLOCK:SOURCE NONE

:TRIGGER:CLOCK:SOURCE? -> :TRIGGER:

CLOCK: SOURCE NONE

 $\label{lem:decomposition} \textbf{Description This command is valid when :} \textbf{TRIGger:} \textbf{TYPE}$ 

PSTAte|STATe.

### :TRIGger:DELay?

Function Queries all settings related to the trigger delay.

Syntax :TRIGger:DELay?

Example :TRIGGER:DELAY? -> :TRIGGER:DELAY:

EDGECOUNT:COUNT 1;:

TRIGGER:DELAY:MODE 1; POLARITY FALL; SOURCE 4; TIME 1.000E+00; TYPE EDGECOUNT

### :TRIGger:DELay:EDGecount?

Function Queries all settings related to edge count of the trigger delay.

Syntax :TRIGger:DELay:EDGecount?

Example :TRIGGER:DELAY:EDGECOUNT? -> :TRIGGER:

DELAY: EDGECOUNT: COUNT 1

### :TRIGger:DELay:EDGecount:COUNt

Function Sets the edge count value of the trigger delay or

queries the current setting.

Syntax :TRIGger:DELay:EDGecount:COUNt {<NRf>}

:TRIGger:DELay:EDGecount:COUNt?

<NRf> = 1 to 1000000000

Example :TRIGGER:DELAY:EDGECOUNT:COUNT 1

:TRIGGER:DELAY:EDGECOUNT:COUNT?

-> :TRIGGER:DELAY:EDGECOUNT:COUNT 1

### :TRIGger:DELay:MODE

Function Turns ON/OFF the trigger delay or queries the current setting.

Syntax :TRIGger:DELay:MODE {<Boolean>}

:TRIGger:DELay:MODE?

Example :TRIGGER:DELAY:MODE ON

:TRIGGER:DELAY:MODE? -> :TRIGGER:DELAY:

MODE 1

### :TRIGger:DELay:POLarity

Function Sets the edge polarity the trigger delay or queries the current setting.

Syntax :TRIGger:DELay:POLarity {FALL|RISE}

:TRIGger:DELay:POLarity?

Example :TRIGGER:DELAY:POLARITY RISE

:TRIGGER:DELAY:POLARITY? -> :TRIGGER:

DELAY: POLARITY RISE

Description This command is valid when :TRIGger:DELay:TYPE

EDGecount|FEADelay.

### :TRIGger:DELay:SOURce

Function Sets the edge source the trigger delay or queries the current setting.

Syntax :TRIGger:DELay:SOURce {<NRf>|EXTernal}

:TRIGger:DELay:SOURce?

< NRf > = 1 to 4

Example :TRIGGER:DELAY:SOURCE 1

:TRIGGER:DELAY:SOURCE? -> :TRIGGER:

DELAY:SOURCE 1

 $\label{lem:decomposition} \textbf{Description This command is valid when :} \textbf{TRIGger:} \textbf{DELay:} \textbf{TYPE}$ 

EDGecount|FEADelay.

# :TRIGger:DELay:TIME

Function Sets the delay value the trigger delay or queries the current setting.

Syntax :TRIGger:DELay:TIME {<Time>}

:TRIGger:DELay:TIME?

<Time> = 0 s to 10 s (5 ps steps)

Example :TRIGGER:DELAY:TIME 1S

:TRIGGER:DELAY:TIME? -> :TRIGGER:DELAY:

TIME 1.000E+00

Description This command is valid when :TRIGger:DELay:TYPE

BYTime|FEADelay.

### :TRIGger:DELay:TYPE

Function Sets the trigger delay type or queries the current setting

Syntax :TRIGger:DELay:TYPE {BYTime|EDGecount|

FEADelay}

:TRIGger:DELay:TYPE?

Example :TRIGGER:DELAY:TYPE BYTIME

:TRIGGER:DELAY:TYPE? -> :TRIGGER:DELAY:

TYPE BYTIME

### :TRIGger:EINTerval?

Function Queries all settings related to the event interval.

Syntax :TRIGger:EINTerval?

Example :TRIGGER:EINTERVAL? -> :TRIGGER:

EINTERVAL:EVENT1:TYPE CANBUS;CANBUS:

ACK DONTCARE; BRATE 500000; DATA: BORDER BIG; CONDITION DONTCARE;

DATA1 0.0000000E+00;

DATA2 255.00000E+00;DLC 8;MSBLSB 7, 0;

SIGN UNSIGN;:TRIGGER:EINTERVAL:

EVENT1: CANBUS: IDEXT:

X";:TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:ACK DONTCARE;DATA:

BORDER BIG; CONDITION BETWEEN;

DATA1 0.000000E+00;

DATA2 255.00000E+00; DLC 8; MSBLSB 7, 0;

SIGN UNSIGN;:TRIGGER:EINTERVAL:EVENT1:

CANBUS: IDOR: ID1: FORMAT STD; IDEXT:

X";:TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:IDSTD:PATTERN "XXXXXXXXXXX";:

TRIGGER: EINTERVAL: EVENT1: CANBUS:

IDOR:ID1:MODE 1;RTR DATA;:TRIGGER:

EINTERVAL:EVENT1:CANBUS:IDOR:ID2:

ACK DONTCARE; DATA: BORDER BIG; CONDITION DONTCARE;

DATA1 0.0000000E+00;

DATA2 255.00000E+00;DLC 8;

MSBLSB 7, 0....

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### :TRIGger:EINTerval:EVENt<x>?

Function Queries all settings related to the event. Syntax :TRIGger:EINTerval:EVENt<x>?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1? -> :TRIGGER: EINTERVAL:EVENT1:TYPE CANBUS;CANBUS: ACK DONTCARE; BRATE 500000; DATA: BORDER BIG; CONDITION DONTCARE; DATA1 0.000000E+00; DATA2 255.00000E+00; DLC 8; MSBLSB 7, 0; SIGN UNSIGN::TRIGGER:EINTERVAL: EVENT1: CANBUS: IDEXT: PATTERN "XXXXXXXXXX EINTERVAL:EVENT1:CANBUS:IDOR:ID1:

ACK DONTCARE; DATA: BORDER BIG; CONDITION BETWEEN; DATA1 0.000000E+00;

DATA2 255.00000E+00; DLC 8; MSBLSB 7, 0; SIGN UNSIGN;:TRIGGER:EINTERVAL:EVENT1: CANBUS: IDOR: ID1: FORMAT STD; IDEXT: X";:TRIGGER:EINTERVAL:EVENT1:CANBUS: IDOR:ID1:IDSTD:PATTERN "XXXXXXXXXXX";: TRIGGER: EINTERVAL: EVENT1: CANBUS: IDOR:ID1:MODE 1;RTR DATA;:TRIGGER: EINTERVAL:EVENT1:CANBUS:IDOR:ID2: ACK DONTCARE; DATA: BORDER BIG; CONDITION DONTCARE; DATA1 0.000000E+00;

Description EVENt2 is valid when :TRIGger:TYPE EIDelay|EISequence.

MSBLSB 7, 0....

DATA2 255.00000E+00; DLC 8;

# :TRIGger:EINTerval:EVENt<x>:CANBus?

Function Queries all settings related to the CAN bus signal trigger of the event.

:TRIGger:EINTerval:EVENt<x>:CANBus? Syntax

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS? -> :TRIGGER:EINTERVAL:EVENT1:CANBUS: ACK DONTCARE; BRATE 500000; DATA: BORDER BIG; CONDITION DONTCARE;

DATA1 0.0000000E+00:

DATA2 255.00000E+00; DLC 8; MSBLSB 7, 0; SIGN UNSIGN;:TRIGGER:EINTERVAL: EVENT1: CANBUS: IDEXT: PATTERN "XXXXXXXXXX

XXXXXXXXXXXXXXXXXXX";:TRIGGER: EINTERVAL: EVENT1: CANBUS: IDOR: ID1: ACK DONTCARE; DATA: BORDER BIG; CONDITION BETWEEN;

DATA1 0.0000000E+00; DATA2 255.00000E+00; DLC 8; MSBLSB 7, 0; PATTERN "XXXXXXXXXXXX XXXXXXXXXXXX";SIGN UNSIGN;:TRIGGER: EINTERVAL: EVENT1: CANBUS: IDOR: ID1: FORMAT STD; IDEXT: PATTERN "XXXXXXXXXXXXXX

XXXXXXXXXXXXXXXX";:TRIGGER:EINTERVAL:

EVENT1:CANBUS:IDOR:ID1:IDSTD: PATTERN "XXXXXXXXXXX";:TRIGGER: EINTERVAL:EVENT1:CANBUS:IDOR:ID1: MODE 1;RTR DATA....

### :TRIGger:EINTerval:EVENt<x>:CANBus:ACK

Function Sets the ACK condition of the CAN bus signal trigger or queries the current setting.

:TRIGger:EINTerval:EVENt<x>:CANBus: Syntax ACK {ACK|ACKBoth|DONTcare|NONack} :TRIGger:EINTerval:EVENt<x>:CANBus: ACK?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

ACK ACK

:TRIGGER:EINTERVAL:EVENT1:CANBUS: ACK? -> :TRIGGER:EINTERVAL:EVENT1:

CANBUS: ACK ACK

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Function Sets the bit rate (data transfer rate) of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

BRATe {<NRf>|USER,<NRf>}

:TRIGger:EINTerval:EVENt<x>:CANBus:

BRATe?

< x > = 1 or 2

<NRf> = 33300, 83300, 125000, 250000, 500000,

1000000

<NRf> of USER = See the User's Manual (IM701361-

01E).

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

BRATE 83300

:TRIGGER:EINTERVAL:EVENT1:CANBUS:
BRATE? -> :TRIGGER:EINTERVAL:EVENT1:

CANBUS: BRATE 83300

# :TRIGger:EINTerval:EVENt<x>:CANBus:DATA?

Function Queries all settings related to the CAN bus signal

trigger data.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

DATA?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

DATA? ->:TRIGGER:EINTERVAL:EVENT1:

CANBUS:DATA:BORDER BIG;
CONDITION DONTCARE;

DATA1 0.000000E+00;

DATA2 255.00000E+00;DLC 8;MSBLSB 7,0; PATTERN "11100101011100100011110001001

0011001010100010001000111111111111010"

;SIGN UNSIGN

### :TRIGger:EINTerval:EVENt<x>:CANBus:

### DATA: BORDer

Function Sets the byte order of the CAN bus signal trigger data

or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

DATA:BORDer {BIG|LITTle}

:TRIGger:EINTerval:EVENt<x>:CANBus:

DATA:BORDer?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

DATA:BORDER BIG:

TRIGGER:EINTERVAL:EVENT1:CANBUS:
DATA:BORDER? -> :TRIGGER:EINTERVAL:

EVENT1:CANBUS:DATA:BORDER BIG

# :TRIGger:EINTerval:EVENt<x>:CANBus:DATA:CONDition

Function Sets the data condition of the CAN bus signal trigger

or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

DATA:CONDition {BETWeen|DONTcare|
FALSe|GTHan|LTHan|ORANge|TRUE}
:TRIGger:EINTerval:EVENt<x>:CANBus:

DATA: CONDition?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

DATA: CONDITION BETWEEN

:TRIGGER:EINTERVAL:EVENT1:CANBUS:

DATA:CONDITION? -> TRIGGER:
EINTERVAL:EVENT1:CANBUS:DATA:

CONDITION BETWEEN

# :TRIGger:EINTerval:EVENt<x>:CANBus: DATA:DATA<x>

Function Sets the comparison data of the CAN bus signal trigger data or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

DATA:DATA<x> {<NRf>}

:TRIGger:EINTerval:EVENt<x>:CANBus:

DATA:DATA<x>?

<x> of EVENt<x> = 1 or 2

<x> of DATA<x> = 1 or 2

<NRf> = See the User's Manual (IM701361-01E).

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

DATA:DATA1 1

:TRIGGER:EINTERVAL:EVENT1:CANBUS:

DATA:DATA1? -> :TRIGGER:EINTERVAL:

EVENT1: CANBUS: DATA:

DATA1 1.000000E+00

• Use:TRIGger:EINTerval:EVENt<x>:
CANBus:DATA:DATA2 when:TRIGger:
EINTerval:EVENt<x>:CANBus:DATA:
CONDition LTHan is specified.

• Use:TRIGger:EINTerval:EVENt<x>:
CANBus:DATA:DATA1 to set the smaller value
and:TRIGger:EINTerval:EVENt<x>:
CANBus:DATA:DATA2 to set the larger value
when:TRIGger:EINTerval:EVENt<x>:
CANBus:DATA:CONDition BETWeen | ORANge
is specified.

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# :TRIGger:EINTerval:EVENt<x>:CANBus: DATA: DLC

Sets the number of valid bytes (DLC) of the Function CAN bus signal trigger data or queries the

current setting.

:TRIGger:EINTerval:EVENt<x>:CANBus: Syntax

DATA:DLC { < NRf > }

:TRIGger:EINTerval:EVENt<x>:CANBus:

DATA: DLC? < x > = 1 or 2<NRf> = 0 to 8

Example : TRIGGER: EINTERVAL: EVENT1: CANBUS:

DATA: DLC 0

:TRIGGER:EINTERVAL:EVENT1:CANBUS: DATA:DLC? -> :TRIGGER:EINTERVAL:

EVENT1:CANBUS:DATA:DLC 0

# :TRIGger:EINTerval:EVENt<x>:CANBus: DATA: HEXA

Function Sets the CAN bus signal trigger data in

hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

DATA:HEXA {<String>}

< x > = 1 or 2

<String> = Up to 16 characters by combining '0'

to 'F' and 'X' (in one-byte unit)

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

DATA:HEXA "A9"

# :TRIGger:EINTerval:EVENt<x>:CANBus: DATA: MSBLsb

Function Sets the MSB and LSB bits of the CAN bus signal trigger data or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

DATA:MSBLsb {<NRf>,<NRf>}

:TRIGger:EINTerval:EVENt<x>:CANBus:

DATA: MSBLsb? < x > = 1 or 2

<NRf> = See the User's Manual

(IM701361-01E).

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

DATA: MSBLSB 1,0

:TRIGGER:EINTERVAL:EVENT1:CANBUS: DATA:MSBLSB? -> :TRIGGER:EINTERVAL: EVENT1: CANBUS: DATA: MSBLSB 1,0

# :TRIGger:EINTerval:EVENt<x>:CANBus: DATA: PATTern

Function Sets the CAN bus signal trigger data in binary

notation or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

DATA:PATTern {<String>}

:TRIGger:EINTerval:EVENt<x>:CANBus:

DATA: PATTern? < x > = 1 or 2

<String> = Up to 64 characters by

combining '0,' '1,' and 'X' (in one-byte unit)

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

DATA: PATTERN "11011111"

:TRIGGER:EINTERVAL:EVENT1:CANBUS: DATA: PATTERN? -> :TRIGGER: EINTERVAL: EVENT1: CANBUS: DATA: PATTERN "11011111"

# :TRIGger:EINTerval:EVENt<x>:CANBus: DATA: SIGN

Function Sets the sign of the CAN bus signal trigger data or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

DATA:SIGN {SIGN|UNSign}

:TRIGger:EINTerval:EVENt<x>:CANBus:

DATA:SIGN? < x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

DATA: SIGN SIGN

:TRIGGER:EINTERVAL:EVENT1:CANBUS: DATA:SIGN? -> :TRIGGER:EINTERVAL: EVENT1: CANBUS: DATA: SIGN SIGN

# :TRIGger:EINTerval:EVENt<x>:CANBus: IDEXt?

Function Queries all settings related to the ID of the extended

format of the CAN bus signal trigger.

:TRIGger:EINTerval:EVENt<x>:CANBus: Syntax

IDEXt?

< x > = 1 or 2

Example : TRIGGER: EINTERVAL: EVENT1: CANBUS:

IDEXT? -> :TRIGGER:EINTERVAL:EVENT1: CANBUS:IDEXT:PATTERN "1100101101110000

1110111011111"

# :TRIGger:EINTerval:EVENt<x>:CANBus: IDEXt:HEXA

Function Sets the ID of the extended format of the CAN bus signal trigger in hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

IDEXt:HEXA {<String>}

< x > = 1 or 2

<String> = 8 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDEXT:HEXA "1AEF5906"

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# :TRIGger:EINTerval:EVENt<x>:CANBus: IDEXt:PATTern

Function Sets the ID of the extended format of the CAN bus

signal trigger in binary notation or queries the current

setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

IDEXt:PATTern {<String>}

:TRIGger:EINTerval:EVENt<x>:CANBus:

IDEXt:PATTern?
<x> = 1 or 2

<String> = 29 characters by combining '0,' '1,' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDEXT: PATTERN "1100101101110000111011

1011111"

:TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDEXT:PATTERN? -> :TRIGGER:EINTERVAL:
EVENT1:CANBUS:IDEXT:PATTERN "11001011

011100001110111011111"

# :TRIGger:EINTerval:EVENt<x>:CANBus: IDOR?

Function Queries all settings related to the OR condition of the CAN bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR?

< x > = 1 or 2

CANBUS:IDOR:ID1:ACK DONTCARE;DATA:

DODDED DIG CONDITION DONESTED

BORDER BIG; CONDITION DONTCARE;

DATA1 0.000000E+00;

DATA2 255.00000E+00;DLC 8;MSBLSB 7,0;

11";SIGN UNSIGN;:TRIGGER:EINTERVAL:

EVENT1: CANBUS: IDOR: ID1: FORMAT

STD; IDEXT: PATTERN"110101011111001101111

011110000?;:TRIGGER:EINTERVAL:EVENT1:

CANBUS: IDOR: ID1: IDSTD:

PATTERN "00100100011";:TRIGGER:

EINTERVAL:EVENT1:CANBUS:IDOR:ID1:

MODE 0;RTR DATA;:TRIGGER:EINTERVAL:

EVENT1:CANBUS:IDOR:ID2:ACK DONTCARE;

DATA: BORDER BIG; CONDITION DONTCARE;

DATA1 0.000000E+00;

DATA2 255.00000E+00;DLC 8;MSBLSB 7,0;

PATTERN ?1111111011011100101111010100

11000011101100101010000110010000100

00?;SIGN UNSIGN;:TRIGGER:EINTERVAL:

EVENT1:CANBUS:IDOR:ID2:FORMAT STD;

IDEXT: PATTERN"1001000110100010101100

1111000";:TRIGGER:EINTERVAL:EVENT1:

CANBUS: IDOR: ID2: IDSTD:

PATTERN "10001010110";:TRIGGER:

EINTERVAL:EVENT1:CANBUS:IDOR:ID2:

MODE 0;RTR DATA;:TRIGGER:EINTERVAL:

EVENT1:CANBUS:IDOR:ID3:ACK DONTCARE;

DATA: BORDER BIG; CONDITION DONTCARE;

DATA1 0.0000000E+00;

DATA2 255.00000E+00;DLC 8.....

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### IDOR: ID<x>?

Function Queries all settings related to each ID of the OR

condition of the CAN bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR: ID<x>?

<x> of EVENt<x> = 1 or 2

< x > of ID < x > = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1? -> :TRIGGER:EINTERVAL:
EVENT1:CANBUS:IDOR:ID1:ACK DONTCARE;
DATA:BORDER BIG;CONDITION DONTCARE;

DATA1 0.000000E+00;

CANBUS: IDOR: ID1: IDSTD:

PATTERN"00100100011";:TRIGGER: EINTERVAL:EVENT1:CANBUS:IDOR:ID1:

MODE 0;RTR DATA

### :TRIGger:EINTerval:EVENt<x>:CANBus:

#### IDOR:ID<x>:ACK

Function Sets each ACK condition of the OR condition of the

CAN bus signal trigger or queries the current setting. : TRIGger:EINTerval:EVENt<x>:CANBus:

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR:IDIDOR:ACK {ACK|ACKBoth|DONTcare|

NONack

:TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR: ID<x>: ACK? <x> of EVENt<x> = 1 or 2 <x> of ID<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR: ID1: ACK ACK

:TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:ACK? -> :TRIGGER:EINTERVAL:

EVENT1:CANBUS:IDOR:ID1:ACK ACK

### :TRIGger:EINTerval:EVENt<x>:CANBus:

### IDOR: ID<x>: DATA?

Function Queries all settings related to each data of the OR

condition of the CAN bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR: ID<x>: DATA? <x> of EVENt<x> = 1 or 2

< x > of ID < x > = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:DATA? -> :TRIGGER:EINTERVAL:

EVENT1:CANBUS:IDOR:ID1:DATA:
BORDER BIG;CONDITION DONTCARE;

DATA1 0.0000000E+00;

;SIGN UNSIGN

# :TRIGger:EINTerval:EVENt<x>:CANBus:

### IDOR: ID<x>:DATA: BORDer

Function Sets byte order of each data of the OR condition of the CAN bus signal trigger or queries the current

setting.

:TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR: ID<x>: DATA: BORDer? <x> of EVENt<x> = 1 or 2 <x> of ID<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:DATA:BORDER BIG

:TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:DATA:BORDER? -> :TRIGGER:
EINTERVAL:EVENT1:CANBUS:IDOR:ID1:

DATA:BORDER BIG

### :TRIGger:EINTerval:EVENt<x>:CANBus:

# IDOR:ID<x>:DATA:CONDition

Function Sets each data condition of the OR condition of the

CAN bus signal trigger or queries the current setting.

TRUE }

:TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR:ID<x>:DATA:CONDition?

<x> of EVENt<x> = 1 or 2

< x > of ID < x > = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:DATA:CONDITION BETWEEN
:TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:DATA:CONDITION? -> :TRIGGER:
EINTERVAL:EVENT1:CANBUS:IDOR:ID1:

DATA: CONDITION BETWEEN

### IDOR:ID<x>:DATA:DATA<x>

< x > of ID < x > = 1 to 4

Function Sets comparison data of each data of the OR condition of the CAN bus signal trigger or queries the current setting.

> <x> of DATA<x> = 1 or 2 <NRf> = See the User's Manual (IM701361-01E).

• Use :TRIGger:EINTerval:EVENt<x>:
 CANBus:IDOR:ID<x>:DATA:DATA2 when:
 TRIGger:EINTerval:EVENt<x>:CANBus:
 IDOR:ID<x>:DATA:CONDition LTHan is
 specified.

• Use:TRIGger:EINTerval:EVENt<x>:
CANBus:IDOR:ID<x>:DATA:DATA1 to set the
smaller value and :TRIGger:EINTerval:
EVENt<x>:CANBus:IDOR:ID<x>:DATA:
DATA2 to set the larger value when :TRIGger:
EINTerval:EVENt<x>:CANBus:IDOR:
ID<x>:DATA:CONDition BETWeen | ORANge
is specified.

# :TRIGger:EINTerval:EVENt<x>:CANBus:

### IDOR:ID<x>:DATA:DLC

Function Sets the number of valid bytes (DLC) of each data of the OR condition of the CAN bus signal trigger or queries the current setting.

IDOR: ID<x>: DATA: DLC? <x> of EVENt<x> = 1 or 2 <x> of ID<x> = 1 to 4 <NRf> = 0 to 8

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:DATA:DLC 0
:TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:DATA:DLC? -> :TRIGGER:

EINTERVAL: EVENT1: CANBUS: IDOR: ID1:

DATA:DLC 0

# :TRIGger:EINTerval:EVENt<x>:CANBus:

### IDOR: ID<x>: DATA: HEXA

Function Sets each data of the OR condition of the CAN bus signal trigger in hexadecimal notation.

<x> of EVENt<x> = 1 or 2 <x> of ID<x> = 1 to 4

<String> = Up to 16 characters by combining '0' to 'F'

and 'X' (in one-byte unit)

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:DATA:HEXA "A9"

# :TRIGger:EINTerval:EVENt<x>:CANBus:

#### IDOR: ID<x>:DATA: MSBLsb

Function Sets the MSB and LSB bits of each data of the OR condition of the CAN bus signal trigger or queries the current setting.

<x> of EVENt<x> = 1 or 2 <x> of ID<x> = 1 to 4

<NRf> = See the User's Manual (IM701361-01E).

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:DATA:MSBLSB 1,0
:TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:DATA:MSBLSB? -> :TRIGGER:
EINTERVAL:EVENT1:CANBUS:IDOR:ID1:

DATA:MSBLSB 1,0

### :TRIGger:EINTerval:EVENt<x>:CANBus:

### IDOR:ID<x>:DATA:PATTern

Function Sets each data of the OR condition of the CAN bus signal trigger in binary notation or queries the current setting.

> IDOR:ID<x>:DATA:PATTern? <x> of EVENt<x> = 1 or 2 <x> of ID<x> = 1 to 4

<String> = Up to 64 characters by combining '0,' '1,' and 'X' (in one-byte unit)

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

:TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:DATA:PATTERN "11011111"
:TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:DATA:PATTERN? -> :TRIGGER:
EINTERVAL:EVENT1:CANBUS:IDOR:ID1:

DATA:PATTERN "11011111"

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### IDOR: ID<x>: DATA: SIGN

Function Sets sign of each data of the OR condition of the

CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR:ID<x>:DATA:SIGN {SIGN|UNSign}
:TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR: ID<x>: DATA: SIGN? <x> of EVENt<x> = 1 or 2 <x> of ID<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:DATA:SIGN SIGN

:TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:DATA:SIGN? -> :TRIGGER:
EINTERVAL:EVENT1:CANBUS:IDOR:ID1:

DATA:SIGN SIGN

### :TRIGger:EINTerval:EVENt<x>:CANBus:

### IDOR:ID<x>:FORMat

Function Sets each message format (standard or extended) of the OR condition of the CAN bus signal trigger or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR:ID<x>:FORMat {STD | EXT}

:TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR: ID<x>: FORMat?
<x> of EVENt<x> = 1 or 2
<x> of ID<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:FORMAT STD

:TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:FORMAT? -> :TRIGGER:
EINTERVAL:EVENT1:CANBUS:IDOR:ID1:

FORMAT STD

# :TRIGger:EINTerval:EVENt<x>:CANBus:

### IDOR:ID<x>:IDEXt?

Function Queries all settings related to the ID of each extended

format of the OR condition of the CAN bus signal

rigger.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR: ID<x>: IDEXt? <x> of EVENt<x> = 1 or 2 <x> of ID<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:IDEXT? -> :TRIGGER:
EINTERVAL:EVENT1:CANBUS:IDOR:ID1:
IDEXT:PATTERN "1100101101110000111011

1011111"

### :TRIGger:EINTerval:EVENt<x>:CANBus:

### IDOR:ID<x>:IDEXt:HEXA

Function Sets the ID of each extended format of the OR condition of the CAN bus signal trigger in

hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR:ID<x>:IDEXt:HEXA {<String>}

<x> of EVENt<x> = 1 or 2 <x> of ID<x> = 1 to 4

<String> = 8 characters by combining '0' to 'F' and 'X'

### :TRIGger:EINTerval:EVENt<x>:CANBus:

#### IDOR: ID<x>: IDEXt: PATTern

Function Sets the ID of each extended format of the OR condition of the CAN bus signal trigger in binary

notation or queries the current setting.

 $\verb|Syntax| : \verb|TRIGger:EINTerval:EVENt<| x>:CANBus:$ 

IDOR:ID<x>:IDEXt:PATTern {<String>}
:TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR:ID<x>:IDEXt:PATTern?

<x> of EVENt<x> = 1 or 2

< x > of ID < x > = 1 to 4

<String> = 29 characters by combining '0,' '1,' and 'X'

 ${\tt Example : TRIGGER: EINTERVAL: EVENT1: CANBUS:}$ 

IDOR:ID1:IDEXT:PATTERN "1100101101110

0001110111011111"

:TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:IDEXT:PATTERN? -> :TRIGGER:

EINTERVAL:EVENT1:CANBUS:IDOR:ID1:

IDEXT:PATTERN "1100101101110000111011

1011111"

# :TRIGger:EINTerval:EVENt<x>:CANBus:

### IDOR:ID<x>:IDSTd?

Function Queries all settings related to the ID of each standard format of the OR condition of the CAN bus signal

trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR: ID<x>: IDSTd? <x> of EVENt<x> = 1 or 2 <x> of ID<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:IDSTD? -> :TRIGGER:
EINTERVAL:EVENT1:CANBUS:IDOR:ID1:

IDSTD:PATTERN "00011111101"

### IDOR:ID<x>:IDSTd:HEXA

Function Sets the ID of each standard format of the OR condition of the CAN bus signal trigger in

hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR:ID<x>:IDSTd:HEXA {<String>}

<x> of EVENt<x> = 1 or 2 <x> of ID<x> = 1 to 4

<String> = 3 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:IDSTD:HEXA "5DF"

# :TRIGger:EINTerval:EVENt<x>:CANBus:

#### IDOR:ID<x>:IDSTd:PATTern

Function Sets the ID of each standard format of the OR condition of the CAN bus signal trigger in binary

notation or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR:ID<x>:IDSTd:PATTern {<String>}
:TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR: ID<x>: IDSTd: PATTern?

<x> of EVENt<x> = 1 or 2

< x > of ID < x > = 1 to 4

<String> = 11 characters by combining '0,' '1,' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:IDSTD:PATTERN "10111011111"

:TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:IDSTD:PATTERN? -> :TRIGGER:

EINTERVAL: EVENT1: CANBUS: IDOR: ID1:

IDSTD:PATTERN "10111011111"

### :TRIGger:EINTerval:EVENt<x>:CANBus:

### IDOR:ID<x>:MODE

Function Enables or disables each condition of the OR

condition of the CAN bus signal trigger or queries the

current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

 $\label{eq:idox} \mbox{IDOR:ID<}x>:\mbox{MODE } \{<\mbox{Boolean}>\}$ 

 $: {\tt TRIGger:EINTerval:EVENt} < x > : {\tt CANBus:}$ 

IDOR:ID<x>:MODE?

<x> of EVENt<x> = 1 or 2

< x > of ID < x > = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:MODE ON

:TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:MODE? -> :TRIGGER:EINTERVAL:

EVENT1: CANBUS: IDOR: ID1: MODE 1

### :TRIGger:EINTerval:EVENt<x>:CANBus:

### IDOR:ID<x>:RTR

Function Sets each RTR of the OR condition of the CAN bus

signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR:ID<x>:RTR {DATA|DONTcare|REMote}
:TRIGger:EINTerval:EVENt<x>:CANBus:

IDOR:ID<x>:RTR?

<x> of EVENt<x> = 1 or 2

< x > of ID < x > = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDOR:ID1:RTR DATA

:TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:RTR? -> :TRIGGER:EINTERVAL:

EVENT1: CANBUS: IDOR: ID1: RTR DATA

# :TRIGger:EINTerval:EVENt<x>:CANBus:

### IDSTd?

Function Queries all settings related to the ID of the standard

format of the CAN bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

IDSTd?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDSTD? -> :TRIGGER:EINTERVAL:EVENT1:

CANBUS:IDSTD:PATTERN "00011111101"

# :TRIGger:EINTerval:EVENt<x>:CANBus: IDSTd:HEXA

Function Sets the ID of the standard format of the CAN bus

signal trigger in hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

IDSTd:HEXA {<String>}

< x > = 1 or 2

<String> = 8 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDSTD:HEXA "5DF"

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# :TRIGger:EINTerval:EVENt<x>:CANBus: IDSTd:PATTern

Function Sets the ID of the standard format of the CAN bus

signal trigger in binary notation or queries the current

setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

IDSTd:PATTern {<String>}

:TRIGger:EINTerval:EVENt<x>:CANBus:

IDSTd:PATTern?
<x> = 1 or 2

<String> = 11 characters by combining '0,' '1,' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

IDSTD:PATTERN "10111011111"

:TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDSTD:PATTERN? -> :TRIGGER:EINTERVAL:

EVENT1: CANBUS: IDSTD:
PATTERN "10111011111"

# :TRIGger:EINTerval:EVENt<x>:CANBus:

Function Sets the CAN bus signal trigger mode or queries the

current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

MODE {EFRame|IDEXt|IDOR|IDSTd|MSIGnal|

SOF }

:TRIGger:EINTerval:EVENt<x>:CANBus:

MODE? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

MODE EFRAME

:TRIGGER:EINTERVAL:EVENT1:CANBUS:
MODE? -> :TRIGGER:EINTERVAL:EVENT1:

CANBUS: MODE EFRAME

# :TRIGger:EINTerval:EVENt<x>:CANBus: MSIGnal?

Function Queries all settings related to the message signal of the CAN bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

MSIGnal? <x> = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

MSIGNAL? -> :TRIGGER:EINTERVAL:

EVENT1:CANBUS:MSIGNAL:MESSAGE1:MODE 1;:

TRIGGER:EINTERVAL:EVENT1:CANBUS:
MSIGNAL:MESSAGE2:MODE 0;:TRIGGER:
EINTERVAL:EVENT1:CANBUS:MSIGNAL:
MESSAGE3:MODE 0;:TRIGGER:EINTERVAL:
EVENT1:CANBUS:MSIGNAL:MESSAGE4:MODE 0;:

TRIGGER:EINTERVAL:EVENT1:CANBUS:
MSIGNAL:SELECT MESSAGE;SIGNAL1:

CONDITION BETWEEN;

DATA1 0.0000000E+00;

DATA2 255.00000E+00; MODE 1;:TRIGGER:

EINTERVAL:EVENT1:CANBUS:MSIGNAL:

SIGNAL2: CONDITION DONTCARE;

DATA1 0.000000E+00;

DATA2 255.00000E+00; MODE 0;:TRIGGER:

EINTERVAL:EVENT1:CANBUS:MSIGNAL:

SIGNAL3: CONDITION DONTCARE;

DATA1 0.0000000E+00;

DATA2 255.00000E+00; MODE 0;:TRIGGER: EINTERVAL:EVENT1:CANBUS:MSIGNAL:

SIGNAL4: CONDITION DONTCARE;

DATA1 0.000000E+00;

DATA2 255.00000E+00; MODE 0

# :TRIGger:EINTerval:EVENt<x>:CANBus:

### MSIGnal:MESSage<x>?

Function Queries all settings related to the message of the

CAN bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

MSIGnal:MESSage<x>? <x> of EVENt<x> = 1, 2

<x> of MESSage<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

MSIGNAL:MESSAGE1? -> :TRIGGER:EINTERVAL: EVENT1:CANBUS:MSIGNAL:MESSAGE1:MODE 1

# :TRIGger:EINTerval:EVENt<x>:CANBus: MSIGnal:MESSage<x>:ITEM

Function Sets the CAN bus signal trigger message item. :TRIGger:EINTerval:EVENt<x>:CANBus: Syntax

MSIGnal:MESSage<x>:ITEM {<string>}

<x> of EVENt<x> = 1, 2 <x> of MESSage<x> = 1 to 4 <string> = Up to 32 characters

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS: MSIGNAL: MESSAGE1: ITEM "TEST"

# :TRIGger:EINTerval:EVENt<x>:CANBus:

### MSIGnal:MESSage<x>:MODE

Function Turns ON/OFF the CAN bus signal trigger message or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

> MSIGnal:MESSage<x>:MODE {<Boolean>} :TRIGger:EINTerval:EVENt<x>:CANBus:

MSIGnal:MESSage<x>:MODE?

<x> of EVENt<x> = 1, 2 <x> of MESSage<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

MSIGNAL: MESSAGE1: MODE ON

:TRIGGER:EINTERVAL:EVENT1:CANBUS: MSIGNAL:MESSAGE1:MODE? -> :TRIGGER: EINTERVAL: EVENT1: CANBUS: MSIGNAL:

MESSAGE1: MODE 1

# :TRIGger:EINTerval:EVENt<x>:CANBus:

MSIGnal:SELect

Function Sets the message signal conditions for the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

> MSIGnal:SELect {MESSage|SIGNal} :TRIGger:EINTerval:EVENt<x>:CANBus:

MSIGnal:SELect?

< x > = 1.2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

MSIGNAL: SELECT MESSAGE

:TRIGGER:EINTERVAL:EVENT1:CANBUS:

MSIGNAL: SELECT? -> :TRIGGER: EINTERVAL:

EVENT1: CANBUS: MSIGNAL: SELECT MESSAGE

# :TRIGger:EINTerval:EVENt<x>:CANBus:

### MSIGnal:SIGNal<x>?

Queries all settings related to the signal of the CAN Function

bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

> MSIGnal:SIGNal<x>? <x> of EVENt<x> = 1, 2 <x> of SIGNal<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

MSIGNAL:SIGNAL1? -> :TRIGGER:EINTERVAL:

EVENT1: CANBUS: MSIGNAL: SIGNAL1:

CONDITION BETWEEN; DATA1 0.000000E+00: DATA2 255.00000E+00; MODE 1

### :TRIGger:EINTerval:EVENt<x>:CANBus:

### MSIGnal:SIGNal<x>:CONDition

Function Sets the signal data conditions for the CAN bus signal

trigger or queries the current setting.

:TRIGger:EINTerval:EVENt<x>:CANBus: Syntax

> MSIGnal:SIGNal<x>:CONDition {BETWeen| DONTcare | FALSe | GTHan | LTHan | ORANge | TRUE } :TRIGger:EINTerval:EVENt<x>:CANBus:

MSIGnal:SIGNal<x>:CONDition?

<x> of EVENt<x> = 1, 2

<x> of SIGNal<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

MSIGNAL:SIGNAL1:CONDITION BETWEEN :TRIGGER:EINTERVAL:EVENT1:CANBUS:

MSIGNAL:SIGNAL1:CONDITION? -> :TRIGGER:

EINTERVAL:EVENT1:CANBUS:MSIGNAL:

SIGNAL1: CONDITION BETWEEN

### :TRIGger:EINTerval:EVENt<x>:CANBus:

### MSIGnal:SIGNal<x>:DATA<x>

Function Sets the signal data comparison data for the CAN

bus signal trigger or queries the current setting. :TRIGger:EINTerval:EVENt<x>:CANBus:

Syntax MSIGnal:SIGNal<x>:DATA<x> {<NRf>}

:TRIGger:EINTerval:EVENt<x>:CANBus:

MSIGnal:SIGNal<x>:DATA<x>?

<x> of EVENt<x>= 1, 2

<x> of SIGNal<x>= 1 to 4

< x > of DATA < x > = 1, 2

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

MSIGNAL:SIGNAL1:DATA1 1

:TRIGGER:EINTERVAL:EVENT1:CANBUS: MSIGNAL:SIGNAL1:DATA1? -> :TRIGGER: EINTERVAL:EVENT1:CANBUS:MSIGNAL:

SIGNAL1:DATA1 1.0000000E+00

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# :TRIGger:EINTerval:EVENt<x>:CANBus: MSIGnal:SIGNal<x>:ITEM

Function Sets the CAN bus signal trigger signal item.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

MSIGnal:SIGNal<x>:

ITEM {<string>, <string>}

<x> of EVENt<x>= 1, 2 <x> of SIGNal<x>= 1 to 4 <string> = Up to 32 characters

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

MSIGNAL:SIGNAL1:ITEM "ENGINE", "TEST"

Description The first string sets the signal, and the next string sets the message.

# :TRIGger:EINTerval:EVENt<x>:CANBus: MSIGnal:SIGNal<x>:MODE

Function Turns ON/OFF the CAN bus signal trigger signal or queries the current setting.

> MSIGnal:SIGNal<x>:MODE? <x> of EVENt<x>= 1, 2 <x> of SIGNal<x>= 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

MSIGNAL:SIGNAL1:MODE ON

:TRIGGER:EINTERVAL:EVENT1:CANBUS:
MSIGNAL:SIGNAL1:MODE? -> :TRIGGER:
EINTERVAL:EVENT1:CANBUS:MSIGNAL:

SIGNAL1:MODE 1

# :TRIGger:EINTerval:EVENt<x>:CANBus: RECessive

Function Sets the recessive level (bus level) of the CAN bus

signal trigger or queries the current setting.
:TRIGger:EINTerval:EVENt<x>:CANBus:

RECessive {HIGH|LOW}

:TRIGger:EINTerval:EVENt<x>:CANBus:

RECessive? <x> = 1 or 2

Syntax

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

RECESSIVE HIGH

:TRIGGER:EINTERVAL:EVENT1:CANBUS:
RECESSIVE? -> :TRIGGER:EINTERVAL:
EVENT1:CANBUS:RECESSIVE HIGH

### :TRIGger:EINTerval:EVENt<x>:CANBus:RTR

Function Sets the RTR of the CAN bus signal trigger or queries

the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

RTR {DATA|DONTcare|REMote}

:TRIGger:EINTerval:EVENt<x>:CANBus:

RTR?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

RTR DATA

:TRIGGER:EINTERVAL:EVENT1:CANBUS: RTR? -> :TRIGGER:EINTERVAL:EVENT1:

CANBUS:RTR DATA

# :TRIGger:EINTerval:EVENt<x>:CANBus:

Function Sets the trigger source of the CAN bus signal trigger

or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

SOURce {<NRf>}

:TRIGger:EINTerval:EVENt<x>:CANBus:

SOURce? <x> = 1 or 2 <NRf> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

SOURCE 1

:TRIGGER:EINTERVAL:EVENT1:CANBUS: SOURCE? -> :TRIGGER:EINTERVAL:EVENT1:

CANBUS:SOURCE 1

# :TRIGger:EINTerval:EVENt<x>:CANBus: SPOint

Function Sets the sample point of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CANBus:

SPOint {<NRf>}

:TRIGger:EINTerval:EVENt<x>:CANBus:

SPOint? <x> = 1 or 2

<NRf> = 18.8 to 90.6(%)

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:

SPOINT 18.8

:TRIGGER:EINTERVAL:EVENT1:CANBUS:
SPOINT? -> :TRIGGER:EINTERVAL:EVENT1:

CANBUS:SPOINT 18.8E+00

### :TRIGger:EINTerval:EVENt<x>:CLOCk?

Function Queries all settings related to the clock channel of the

Syntax :TRIGger:EINTerval:EVENt<x>:CLOCk?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CLOCK?
-> :TRIGGER:EINTERVAL:EVENT1:CLOCK:

SOURCE 1; POLARITY FALL

# :TRIGger:EINTerval:EVENt<x>:CLOCk: POLarity

Function Sets the polarity of the clock channel of the event or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CLOCk:

POLarity {FALL | RISE}

:TRIGger:EINTerval:EVENt<x>:CLOCk:

POLarity? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CLOCK:

POLARITY FALL

:TRIGGER:EINTERVAL:EVENT1:CLOCK:

POLARITY? -> :TRIGGER:EINTERVAL:EVENT1:

CLOCK: POLARITY FALL

Description • This command in invalid if :TRIGger: EINTerval:EVENt<x>:CLOCk:SOURce NONE.

- For :TRIGger:SOURce:CHANnel<x>:WINDow ON, the choices in the SB5000 menu are Enter/Exit. {RISE} corresponds to Enter, and {FALL} corresponds to Exit.
- This command is valid when :TRIGger:EINTerval: EVENt<x>:TYPE PSTAte|STATe.

# :TRIGger:EINTerval:EVENt<x>:CLOCk: SOURce

Function Sets the source waveform of the clock channel of the event or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:CLOCk:

SOURce { < NRf > | NONE }

:TRIGger:EINTerval:EVENt<x>:CLOCk:

SOURce? <x> = 1 or 2 <NRf> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CLOCK:

SOURCE 1

:TRIGGER:EINTERVAL:EVENT1:CLOCK:SOURCE?

-> :TRIGGER:EINTERVAL:EVENT1:CLOCK:
SOURCE 1

Description This command is valid when :TRIGger:EINTerval: EVENt<x>:TYPE PSTAte|STATe.

### :TRIGger:EINTerval:EVENt<x>:ESTate?

Function Queries all settings related to the edge/state trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:ESTate?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:ESTATE?

-> :TRIGGER:EINTERVAL:EVENT1:ESTATE:

SOURCE 1; POLARITY FALL

# :TRIGger:EINTerval:EVENt<x>:ESTate: POLarity

Function Sets the polarity of the edge/state trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:ESTate:
 POLarity {ENTer|EXIT|FALL|RISE}

:TRIGger:EINTerval:EVENt<x>:ESTate:

POLarity? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:ESTATE:

POLARITY ENTER

:TRIGGER:EINTERVAL:EVENT1:ESTATE:
POLARITY? -> :TRIGGER:EINTERVAL:

EVENT1:ESTATE:POLARITY ENTER

Description • This command is valid when :TRIGger:EINTerval:

EVENt<x>:TYPE EDGE and :TRIGger:EINTerval:EVENt<x>:

ESTate:SOURce LINE.

 For :TRIGger:EINTerval:EVENt<x>:TYPE EDGE|EQUalify and :TRIGger:SOURce: CHANnel<x>:WINDow ON, the choices in the SB5000 menu are Enter/Exit.

{RISE} corresponds to Enter, and {FALL} corresponds to Exit.

• {ENTer|EXIT} is valid when :TRIGger:EINTerval: EVENt<x>:TYPE STATe.

# :TRIGger:EINTerval:EVENt<x>:ESTate: SOURce

Function Sets the trigger source of the edge/state trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:ESTate:

SOURce {<NRf>|EXTernal|LINE}

:TRIGger:EINTerval:EVENt<x>:ESTate:

SOURce?

< x > = 1 or 2

< NRf > = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:ESTATE:

SOURCE 1

:TRIGGER:EINTERVAL:EVENT1:ESTATE:
SOURCE? -> :TRIGGER:EINTERVAL:EVENT1:

ESTATE:SOURCE 1

Description • This command is valid when :TRIGger:EINTerval: EVENt<x>:TYPE EDGE|EQUalify.

- {<NRf>|EXTernal|LINE} is valid when :TRIGger: EINTerval:EVENt<x>:TYPE EDGE.
- {<NRf>|EXTernal} is valid when :TRIGger: EINTerval:EVENt<x>:TYPE EQUalify.

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### :TRIGger:EINTerval:EVENt<x>:FLEXray?

Function Queries all settings related to the FLEXRAY bus signal triggers of each event.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY? ->
 :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
 BRATE 5000000;ERROR:BSS 1;CHANNEL DUAL;

CRC 1;CRCBUS1 A;CRCBUS2 A;FES 1;

SOURCE1 1;SOURCE2 1;:TRIGGER:EINTERVAL:

EVENT1: FLEXRAY: IDDATA: CCOUNT:

CONDITION BETWEEN; COUNT1 10; COUNT2 63;: TRIGGER: EINTERVAL: EVENT1: FLEXRAY:

IDDATA:DATA:BORDER BIG;

CONDITION BETWEEN; DATA1 1.0000000E+00; DATA2 1.0000000E+00; DPOSITION 1; DSIZE 1;

MSBLSB 1, 0; PATTERN "11011111"; SIGN SIGN;:TRIGGER:EINTERVAL:EVENT1: FLEXRAY:IDDATA:FID:CONDITION BETWEEN;

ID1 100; ID2 2047; :TRIGGER: EINTERVAL:
EVENT1: FLEXRAY: IDDATA: INDICATOR:
CONDITION DONTCARE; NFRAME DONTCARE;
PPREAMBLE DONTCARE; STFRAME DONTCARE;
SYFRAME DONTCARE; :TRIGGER: EINTERVAL:

EVENT1:FLEXRAY:IDOR:DPOSITION 253;

DSIZE 1; IDDATA1: CCOUNT:

CONDITION BETWEEN; COUNT1 0; COUNT2 0;:
TRIGGER: EINTERVAL: EVENT1: FLEXRAY: IDOR:

IDDATA1:DATA:BORDER BIG....

# :TRIGger:EINTerval:EVENt<x>:FLEXray:

### BRATe

Function Sets the FLEXRAY bus signal trigger bit rate (data transfer rate) or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

BRATe {<NRf>}

:TRIGger:EINTerval:EVENt<x>:FLEXray:

BRATe? <x> = 1.2

< NRf > = 2500000, 5000000, 100000000

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

BRATE 5000000

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
BRATE? -> :TRIGGER:EINTERVAL:EVENT1:
FLEXRAY:BRATE 5000000

:TRIGger:EINTerval:EVENt<x>:FLEXray:

### ERRor?

Function Queries all settings related to the FLEXRAY bus signal trigger error.

 $\verb|Syntax| : \verb|TRIGger:EINTerval:EVENt<| x>: \verb|FLEX| ray| :$ 

ERRor? <x> = 1, 2

SOURCE1 1; SOURCE2 1

# :TRIGger:EINTerval:EVENt<x>:FLEXray: ERRor:BSS

Function Sets the FLEXRAY bus signal trigger BSS error or queries the current setting.

 $\verb|Syntax| : \verb|TRIGger:EINTerval:EVENt<| x>: \verb|FLEX| ray|:$ 

ERRor:BSS {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:FLEXray:

ERRor: BSS? < x > = 1.2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

ERROR: BSS ON

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY: ERROR:BSS? -> :TRIGGER:EINTERVAL: EVENT1:FLEXRAY:ERROR:BSS 1

### :TRIGger:EINTerval:EVENt<x>:FLEXray:

### ERRor: CHANnel

Function Sets the FLEXRAY bus signal trigger error channel or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

ERRor:CHANnel {DUAL|SINGle}

:TRIGger:EINTerval:EVENt<x>:FLEXray:

ERRor:CHANnel?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

ERROR: CHANNEL DUAL

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY: ERROR:CHANNEL? -> :TRIGGER:EINTERVAL: EVENT1:FLEXRAY:ERROR:CHANNEL DUAL

# :TRIGger:EINTerval:EVENt<x>:FLEXray: ERRor:CRC

Function Sets the FLEXRAY bus signal trigger CRC error or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

ERRor:CRC {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:FLEXray:

ERRor: CRC? <x> = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

ERROR: CRC ON

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY: ERROR:CRC? -> :TRIGGER:EINTERVAL:

EVENT1:FLEXRAY:ERROR:CRC 1

# :TRIGger:EINTerval:EVENt<x>:FLEXray: ERRor:CRCBus<x>

Function Sets the target channel of the FLEXRAY bus signal

trigger CRC error or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

ERRor:CRCBus<x> {A|B}

:TRIGger:EINTerval:EVENt<x>:FLEXray:

ERROR: CRCBus<x>? <x> of EVENt<x> = 1, 2 <x> of CRCBus<x> = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

ERROR: CRCBUS1 A

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY: ERROR:CRCBUS1? -> :TRIGGER:EINTERVAL: EVENT1:FLEXRAY:ERROR:CRCBUS1 A

# :TRIGger:EINTerval:EVENt<x>:FLEXray: ERRor:FES

Function Sets the FLEXRAY bus signal trigger FES error or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

ERRor:FES {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:FLEXray:

ERRor: FES? <x> = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

ERROR: FES ON

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY: ERROR:FES? -> :TRIGGER:EINTERVAL: EVENT1:FLEXRAY:ERROR:FES 1

# :TRIGger:EINTerval:EVENt<x>:FLEXray: ERRor:SOURce<x>

Function Sets the FLEXRAY bus signal trigger error source or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

ERRor:SOURce<x> {<NRf>}

:TRIGger:EINTerval:EVENt<x>:FLEXray:

ERROr: SOURCe<x>? <x> of EVENt<x> = 1, 2 <x> of SOURCe<x> = 1, 2 <NRf> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

ERROR: SOURCE1 1

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY: ERROR:SOURCE1? -> :TRIGGER:EINTERVAL: EVENT1:FLEXRAY:ERROR:SOURCE1 1

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData?

Function Queries all settings related to the IDData of the FLEXRAY bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData? <x> = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA? -> :TRIGGER:EINTERVAL:EVENT1:

FLEXRAY: IDDATA: CCOUNT:

CONDITION BETWEEN; COUNT1 10; COUNT2 63;:

TRIGGER: EINTERVAL: EVENT1: FLEXRAY:

IDDATA: DATA: BORDER BIG;

CONDITION BETWEEN; DATA1 1.0000000E+00;

 ${\tt DATA2 1.0000000E+00; DPOSITION 1;}$ 

DSIZE 1; MSBLSB 1, 0;

PATTERN "11011111"; SIGN SIGN; :TRIGGER:

EINTERVAL:EVENT1:FLEXRAY:IDDATA:

FID: CONDITION BETWEEN; ID1 100;

ID2 2047;:TRIGGER:EINTERVAL:EVENT1:

FLEXRAY: IDDATA: INDICATOR:

CONDITION DONTCARE; NFRAME DONTCARE;

PPREAMBLE DONTCARE; STFRAME DONTCARE;

SYFRAME DONTCARE

# :TRIGger:EINTerval:EVENt<x>:FLEXray:

# IDData:CCOunt?

Function Queries all settings related to the Cycle Count of the FLEXRAY bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData: CCOunt?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:CCOUNT? -> :TRIGGER:EINTERVAL:

EVENT1:FLEXRAY:IDDATA:CCOUNT:

CONDITION BETWEEN; COUNT1 10; COUNT2 63

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# :TRIGger:EINTerval:EVENt<x>:FLEXray:

### IDData: CCOunt: CONDition

Function Sets the Cycle Count data conditions of the FLEXRAY

bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:CCOunt:CONDition {BETWeen|

DONTcare|FALSe|GTHan|LTHan|ORANge|TRUE}
:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:CCOunt:CONDition?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:CCOUNT:CONDITION BETWEEN
:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDDATA:CCOUNT:CONDITION? -> :TRIGGER:
EINTERVAL:EVENT1:FLEXRAY:IDDATA:CCOUNT:

CONDITION BETWEEN

# :TRIGger:EINTerval:EVENt<x>:FLEXray:

### IDData:CCOunt:COUNt<x>

Function Sets the FLEXRAY bus signal trigger Cycle Count or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:CCOunt:COUNt<x> {<NRf>}
:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:CCOunt:COUNt<x>?
<x> of EVENt<x> = 1, 2
<x> of COUNt<x> = 1, 2

<NRf> = 0 to 63

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:CCOUNT:COUNT1 10

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:CCOUNT:COUNT1? -> :TRIGGER:

EINTERVAL:EVENT1:FLEXRAY:IDDATA:CCOUNT:

COUNT1 10

# Description • For :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:CCOunt:CONDition GTHan, set using: TRIGger:EINTerval:EVENt<x>:FLEXray:IDData: CCOunt:COUNt1.

- For :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:CCOunt:CONDition LTHan, set using: TRIGger:EINTerval:EVENt<x>:FLEXray:IDData: CCOunt:COUNt2.
- For:TRIGger:EINTerval:EVENt<x>:FLEXray:
   IDData:CCOunt:CONDition BETWeen|ORANge,
   set small values with: TRIGger:EINTerval:
   EVENt<x>:FLEXray:IDData:CCOunt:COUNt1, and
   large values with: TRIGger:EINTerval:EVENt<x>:
   FLEXray:IDData:CCOunt:COUNt2.

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:DATA?

Function Queries all settings related to the Data Field of the

FLEXRAY bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:DATA?
<x> = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:

FLEXRAY:IDDATA:DATA? -> :TRIGGER: EINTERVAL:EVENT1:FLEXRAY:IDDATA: DATA:BORDER BIG;CONDITION BETWEEN;

DATA1 1.0000000E+00;

DATA2 1.0000000E+00; DPOSITION 1;

DSIZE 1; MSBLSB 1, 0;

PATTERN "11011111"; SIGN SIGN

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:DATA:BORDer

Function Sets the byte order of the Data Field of the FLEXRAY

bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:DATA:BORDer {BIG|LITTle}
:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:DATA:BORDer?

< x > = 1.2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:DATA:BORDER BIG

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDDATA:DATA:BORDER? -> :TRIGGER:
EINTERVAL:EVENT1:FLEXRAY:IDDATA:DATA:

BORDER BIG

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:DATA:CONDition

Function Sets the data conditions of the Data Field of the FLEXRAY bus signal trigger or queries the current

setting.

DONTcare | FALSe | GTHan | LTHan | ORANge |

TRUE }

:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:DATA:CONDition?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:DATA:CONDITION BETWEEN
:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDDATA:DATA:CONDITION? -> :TRIGGER:
EINTERVAL:EVENT1:FLEXRAY:IDDATA:DATA:

CONDITION BETWEEN

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:DATA:DATA<x>

Function Sets the comparison data of the Data Field of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:DATA:DATA<x> {<NRf>}

:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:DATA:DATA<x>? <x> of EVENt<x> = 1, 2 <x> of DATA<x> = 1, 2

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:DATA:DATA1 1

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDDATA:DATA:DATA1? -> :TRIGGER:
EINTERVAL:EVENT1:FLEXRAY:IDDATA:DATA:

DATA1 1.000000E+00

Description • For :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:DATA:CONDition GTHan, set using: TRIGger:EINTerval:EVENt<x>:FLEXray:IDData: DATA:DATA1.

- For :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:DATA:CONDition LTHan, set using: TRIGger:EINTerval:EVENt<x>:FLEXray:IDData: DATA:DATA2.
- For:TRIGger:EINTerval:EVENt<x>:FLEXray:
   IDData:DATA:CONDition BETWeen|ORANge, set
   small values with: TRIGger:EINTerval:EVENt<x>:
   FLEXray:IDData:DATA:DATA1, and large values
   with: TRIGger:EINTerval:EVENt<x>:FLEXray:
   IDData:DATA:DATA2.

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:DATA:DPOSition

Function Sets the position for pattern comparison of the data of the Data Field of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

 ${\tt IDData:DATA:DPOSition \ \{<NRf>\}}$ 

:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:DATA:DPOSition?

< x > = 1.2

<NRf> = 0 to 253

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:DATA:DPOSITION 1

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDDATA:DATA:DPOSITION? -> :TRIGGER:
EINTERVAL:EVENT1:FLEXRAY:IDDATA:DATA:

DPOSITION 1

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:DATA:DSIZe

Function Sets the number of bytes of data in the Data Field of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:DATA:DSIZe {<NRf>}

:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:DATA:DSIZe?

< x > = 1, 2

<NRf> = 1 to 8

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA: DATA: DSIZE 1

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDDATA:DATA:DSIZE? -> :TRIGGER:
EINTERVAL:EVENT1:FLEXRAY:IDDATA:DATA:

DSIZE 1

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:DATA:HEXA

Function Sets the data in the Data Field of the FLEXRAY bus signal trigger in hexadecimal.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:DATA:HEXA {<string>}

< x > = 1.2

<string> = Up to 16 characters by combining '0' to 'F'

and 'X,' units of 1 byte

 ${\tt Example} \quad : {\tt TRIGGER:EINTERVAL:EVENT1:FLEXRAY:} \\$ 

IDDATA:DATA:HEXA "A9"

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:DATA:MSBLsb

Function Sets the MSB/LSB bit of data in the Data Field of the FLEXRAY bus signal trigger or queries the current setting

IDData:DATA:MSBLsb?

< x > = 1, 2

### <NRf> = See the SB5000 User's Manual

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:DATA:MSBLSB 1, 0

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDDATA:DATA:MSBLSB? -> :TRIGGER:
EINTERVAL:EVENT1:FLEXRAY:IDDATA:DATA:

MSBLSB 1, 0

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# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:DATA:PATTern

Function Sets the data of the Data Field of the FLEXRAY bus

signal trigger in binary or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:DATA:PATTern {<string>}

:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:DATA:PATTern?

< x > = 1, 2

<string> = Up to 64 characters by combining '0,' '1,'

and 'X,' units of 1 byte

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:DATA:PATTERN "11011111"
:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDDATA:DATA:PATTERN? -> :TRIGGER:
EINTERVAL:EVENT1:FLEXRAY:IDDATA:DATA:

PATTERN "11011111"

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:DATA:SIGN

Function Sets the data sign of the Data Field of the FLEXRAY

bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:DATA:SIGN {SIGN|UNSign}

:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:DATA:SIGN?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:DATA:SIGN SIGN

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDDATA:DATA:SIGN? -> :TRIGGER:EINTERVAL:
EVENT1:FLEXRAY:IDDATA:DATA:SIGN SIGN

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:FID?

Function Queries all settings related to the Frame ID of the FLEXRAY bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:FID?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:FID? -> :TRIGGER:EINTERVAL:

EVENT1:FLEXRAY:IDDATA:FID:

CONDITION BETWEEN; ID1 100; ID2 2047

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:FID:CONDition

Function Sets the Frame ID data conditions of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:FID:CONDition {BETWeen|DONTcare|

FALSe | GTHan | LTHan | ORANge | TRUE }

:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:FID:CONDition?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA: FID: CONDITION BETWEEN

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDDATA:FID:CONDITION? -> :TRIGGER:
EINTERVAL:EVENT1:FLEXRAY:IDDATA:FID:

CONDITION BETWEEN

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:FID:ID<x>

Function Sets the Frame ID value of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:FID:ID<x> {<NRf>}

:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:FID:ID<x>? <x> of EVENt<x> = 1, 2 <x> of ID<x> = 1, 2

< NRf > = 1 to 2047

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:FID:ID1 100

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDDATA:FID:ID1? -> :TRIGGER:EINTERVAL:
EVENT1:FLEXRAY:IDDATA:FID:ID1 100

Description • For :TRIGger:EINTerval:EVENt<x>:FLEXray:
IDData:FID:CONDition GTHan, set using: TRIGger:
EINTerval:EVENt<x>:FLEXray:IDData:FID:ID1.

- For :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:FID:CONDition LTHan, set using: TRIGger: EINTerval:EVENt<x>:FLEXray:IDData:FID:ID2.
- For:TRIGger:EINTerval:EVENt<x>:FLEXray:
   IDData:FID:CONDition BETWeen|ORANge, set
   small values with: TRIGger:EINTerval:EVENt<x>:
   FLEXray:IDData:FID:ID1, and large values with:
   TRIGger:EINTerval:EVENt<x>:FLEXray:IDData:
   FID:ID2.

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:INDicator?

Function Queries all settings related to the Indicator of the FLEXRAY bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData: INDicator?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:INDICATOR? -> :TRIGGER:
EINTERVAL:EVENT1:FLEXRAY:IDDATA:
INDICATOR:CONDITION DONTCARE;
NFRAME DONTCARE;PPREAMBLE DONTCARE;
STFRAME DONTCARE;SYFRAME DONTCARE

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:INDicator:CONDition

Function Sets the data conditions of the Indicator of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:INDicator:

CONDition {DONTcare|FALSe|TRUE}

:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:INDicator:CONDition?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:INDICATOR:CONDITION DONTCARE
:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDDATA:INDICATOR:CONDITION? ->

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDDATA:INDICATOR:CONDITION DONTCARE

# :TRIGger:EINTerval:EVENt<x>:FLEXray:

### IDData: INDicator: NFRame

Function Sets the Null frame of the Indicator of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:INDicator:

NFRame {DONTcare|OFF|ON}

 $: {\tt TRIGger:EINTerval:EVENt<} x \gt: {\tt FLEXray:}$ 

IDData:INDicator:NFRame?

< x > = 1.2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:INDICATOR:NFRAME DONTCARE
:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:INDICATOR:NFRAME? -> :TRIGGER:

EINTERVAL:EVENT1:FLEXRAY:IDDATA:

INDICATOR:NFRAME DONTCARE

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDData:INDicator:PPReamble

Function Sets the Payload preamble of the Indicator of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:INDicator:

PPReamble {DONTcare | OFF | ON }

:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:INDicator:PPReamble?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:INDICATOR:PPREAMBLE DONTCARE
:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDDATA:INDICATOR:PPREAMBLE? ->
:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDDATA:INDICATOR:PPREAMBLE DONTCARE

# :TRIGger:EINTerval:EVENt<x>:FLEXray:

### IDData: INDicator: STFRame

Function Sets the Start frame of the Indicator of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData: INDicator:

STFRame {DONTcare|OFF|ON}

:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:INDicator:STFRame?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:INDICATOR:STFRAME DONTCARE
:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:INDICATOR:STFRAME? -> :TRIGGER:

EINTERVAL: EVENT1: FLEXRAY: IDDATA: INDICATOR: STFRAME DONTCARE

# :TRIGger:EINTerval:EVENt<x>:FLEXray:

### IDData:INDicator:SYFRame

Function Sets the Sync frame of the Indicator of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData: INDicator:

SYFRame {DONTcare|OFF|ON}

:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDData:INDicator:SYFRame?

< x > = 1.2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDDATA:INDICATOR:SYFRAME DONTCARE

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDDATA:INDICATOR:SYFRAME? -> :TRIGGER:

EINTERVAL: EVENT1: FLEXRAY: IDDATA:

INDICATOR:SYFRAME DONTCARE

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# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR?

Function Queries all settings related to the OR condition of the FLEXRAY bus signal trigger.

< x > = 1.2

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR? -> :TRIGGER:EINTERVAL:EVENT1:FLEXRAY: IDOR:DPOSITION 253;DSIZE 1;IDDATA1: CCOUNT: CONDITION BETWEEN; COUNT1 10; COUNT2 63;:TRIGGER:EINTERVAL:EVENT1: FLEXRAY: IDOR: IDDATA1: DATA: BORDER BIG; CONDITION BETWEEN; DATA1 1.0000000E+00; DATA2 255.00000E+00; MSBLSB 1, 0; PATTERN "11011111"; SIGN SIGN; :TRIGGER: EINTERVAL:EVENT1:FLEXRAY:IDOR:IDDATA1: FID: CONDITION BETWEEN; ID1 100; ID2 100;: TRIGGER: EINTERVAL: EVENT1: FLEXRAY: IDOR: IDDATA1: INDICATOR: CONDITION DONTCARE; NFRAME DONTCARE; PPREAMBLE DONTCARE; STFRAME DONTCARE; SYFRAME DONTCARE;:TRIGGER:EINTERVAL: EVENT1:FLEXRAY:IDOR:IDDATA1:MODE 1;:

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:DPOSition

Function Sets the position for pattern comparison of the data of the Data Field of the OR condition of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDOR:DPOSition {<NRf>}

:TRIGger:EINTerval:EVENt<x>:FLEXray:

TRIGGER: EINTERVAL: EVENT1: FLEXRAY: IDOR:

IDDATA2:CCOUNT:CONDITION DONTCARE....

IDOR:DPOSition?

< x > = 1, 2

<NRf> = 0 to 253

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:

DPOSITION 1

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDOR:DPOSITION? -> :TRIGGER:EINTERVAL:
EVENT1:FLEXRAY:IDOR:DPOSITION 1

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:DSIZe

Function Sets the number of bytes of data in the Data Field of the OR condition of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDOR:DSIZe {<NRf>}

:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDOR:DSIZe? <x> = 1, 2 <NRf> = 1 to 8

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:

DSIZE 1

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:
DSIZE? -> :TRIGGER:EINTERVAL:EVENT1:

FLEXRAY: IDOR: DSIZE 1

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>?

Function Queries all settings related to each IDData of the OR condition of the FLEXRAY bus signal trigger

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDOR: IDData<x>? <x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4

FLEXRAY:IDOR:IDDATA1:CCOUNT:

CONDITION BETWEEN; COUNT1 10; COUNT2 63;:

TRIGGER: EINTERVAL: EVENT1: FLEXRAY: IDOR:

IDDATA1:DATA:BORDER BIG;

CONDITION BETWEEN; DATA1 1.0000000E+00;

DATA2 255.00000E+00; MSBLSB 1, 0;

PATTERN "11011111";SIGN SIGN;:TRIGGER:

EINTERVAL:EVENT1:FLEXRAY:IDOR:IDDATA1:

FID: CONDITION BETWEEN; ID1 100; ID2 100;:

TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:
IDDATA1:INDICATOR:CONDITION DONTCARE;

NFRAME DONTCARE; PPREAMBLE DONTCARE;

STFRAME DONTCARE; SYFRAME DONTCARE;:

 ${\tt TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:}$ 

IDDATA1:MODE 1

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:CCOunt?

Function Queries all settings related to the Cycle Count of each IDData of the OR condition of the FLEXRAY bus signal trigger

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDOR:IDData<x>:CCOunt?
<x> of EVENt<x> = 1, 2
<x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:

IDDATA1:CCOUNT? -> :TRIGGER:EINTERVAL: EVENT1:FLEXRAY:IDOR:IDDATA1:CCOUNT: CONDITION BETWEEN;COUNT1 10;COUNT2 63

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:CCOunt:CONDition

Function Sets each Cycle Count data condition of the OR condition of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDOR:IDData<x>:CCOunt:

CONDition {BETWeen|DONTcare|FALSe|

GTHan | LTHan | ORANge | TRUE }

:TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:CCOunt:CONDition?

<x> of EVENt<x> = 1, 2
<x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:

IDDATA1:CCOUNT:CONDITION BETWEEN

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:
IDDATA1:CCOUNT:CONDITION? -> :TRIGGER:

EINTERVAL: EVENT1: FLEXRAY: IDOR: IDDATA1:

CCOUNT: CONDITION BETWEEN

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:CCOunt:COUNt<x>

Function Sets each Cycle Count of the OR conditions of the FLEXRAY bus signal trigger or queries the current setting.

:TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:CCOunt:COUNt<x>?

<x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4 <x> of COUNt<x> = 1, 2

<NRf> = 0 to 63

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:

IDDATA1:CCOUNT:COUNT1 10

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:
IDDATA1:CCOUNT:COUNT1? -> :TRIGGER:
EINTERVAL:EVENT1:FLEXRAY:IDOR:IDDATA1:

CCOUNT: COUNT1 10

Description • For :TRIGger:EINTerval:EVENt<x>:FLEXray:IDOR: IDData<x>:CCOunt:CONDition GTHan, set using: TRIGger:EINTerval:EVENt<x>:FLEXray:IDOR: IDData<x>:CCOunt:COUNt1.

- For :TRIGger:EINTerval:EVENt<x>:FLEXray:IDOR: IDData<x>:CCOunt:CONDition LTHan, set using: TRIGger:EINTerval:EVENt<x>:FLEXray:IDOR: IDData<x>:CCOunt:COUNt2.
- For:TRIGger:EINTerval:EVENt<x>:FLEXray:
   IDOR:IDData<x>:CCOunt:CONDition
   BETWeen|ORANge, set small values with:
   TRIGger:EINTerval:EVENt<x>:FLEXray:IDOR:
   IDData<x>:CCOunt:COUNt1, and large values
   with: TRIGger:EINTerval:EVENt<x>:FLEXray:
   IDOR:IDData<x>:CCOunt:COUNt2.

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:DATA?

Function Queries all settings related to each Data Field of the OR condition of the FLEXRAY bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDOR:IDData<x>:DATA?
<x> of EVENt<x> = 1, 2

<x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:

IDDATA1:DATA? -> :TRIGGER:EINTERVAL:
EVENT1:FLEXRAY:IDOR:IDDATA1:DATA:

BORDER BIG; CONDITION BETWEEN;

DATA1 1.0000000E+00;

DATA2 255.00000E+00;MSBLSB 1, 0;

PATTERN "11011111"; SIGN SIGN

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# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:DATA:BORDer

Function Sets the byte order of the Data Field of each OR condition of the FLEXRAY bus signal trigger or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDOR:IDData<x>:DATA:BORDer {BIG|LITTle}
:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDOR:IDData<x>:DATA:BORDer?

<x> of EVENt<x> = 1, 2
<x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:

IDDATA1:DATA:BORDER BIG

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDOR:IDDATA1:DATA:BORDER? -> :TRIGGER:

EINTERVAL:EVENT1:FLEXRAY:IDOR:IDDATA1:

DATA:BORDER BIG

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:DATA:CONDition

Function Sets the data condition of the Data Field of each OR condition of the FLEXRAY bus signal trigger or queries the current setting.

DONTcare | FALSe | GTHan | LTHan | ORANge | TRUE }
:TRIGger:EINTerval:EVENt<x>:FLEXray:

<x> of EVENt<x> = 1, 2
<x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:

IDOR:IDData<x>:DATA:CONDition?

IDDATA1:DATA:CONDITION BETWEEN

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:
IDDATA1:DATA:CONDITION? -> :TRIGGER:
EINTERVAL:EVENT1:FLEXRAY:IDOR:IDDATA1:

DATA: CONDITION BETWEEN

:TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:DATA:DATA<x>

Function Sets the comparison data of the Data Field of each OR condition of the FLEXRAY bus signal trigger or queries the current setting.

IDOR:IDData<x>:DATA:DATA<x>?

<x> of EVENt<x> = 1, 2
<x> of IDData<x> = 1 to 4
<x> of DATA<x> = 1, 2

<NRf> = See the SB5000 User's Manual
Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:

IDDATA1:DATA:DATA1 1
:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDOR:IDDATA1:DATA:DATA1? -> :TRIGGER:
EINTERVAL:EVENT1:FLEXRAY:IDOR:IDDATA1:

DATA:DATA1 1.000000E+00

Description • For :TRIGger:EINTerval:EVENt<x>:FLEXray:IDOR: IDData<x>:DATA:CONDition GTHan, set using: TRIGger:EINTerval:EVENt<x>:FLEXray:IDOR: IDData<x>:DATA:DATA1.

- For :TRIGger:EINTerval:EVENt<x>:FLEXray:IDOR: IDData<x>:DATA:CONDition LTHan, set using: TRIGger:EINTerval:EVENt<x>:FLEXray:IDOR: IDData<x>:DATA:DATA2.
- For:TRIGger:EINTerval:EVENt<x>:FLEXray:IDOR: IDData<x>:DATA:CONDition BETWeen|ORANge, set small values with: TRIGger:EINTerval: EVENt<x>:FLEXray:IDOR:IDData<x>:DATA: DATA1, and large values with: TRIGger:EINTerval: EVENt<x>:FLEXray:IDOR:IDData<x>:DATA: DATA2.

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:DATA:HEXA

Function Sets the data in each Data Field of the OR condition of the FLEXRAY bus signal trigger in hexadecimal.

> <x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4

<string> = Up to 16 characters by combining '0' to 'F'

and 'X,' units of 1 byte

 ${\tt Example} \quad : {\tt TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:}$ 

IDDATA1:DATA:HEXA "A9"

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:DATA:MSBLsb

Function Sets the MSB/LSB bit of data in each Data Field of the OR condition of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDOR:IDData<x>:DATA:
MSBLsb {<NRf>, <NRf>}

:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDOR:IDData<x>:DATA:MSBLsb?

<x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:

IDDATA1:DATA:MSBLSB 1, 0

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:
IDOR:IDDATA1:DATA:MSBLSB? -> :TRIGGER:
EINTERVAL:EVENT1:FLEXRAY:IDOR:IDDATA1:

DATA: MSBLSB 1, 0

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:DATA:PATTern

Function Sets the data of each Data Field of the OR conditions of the FLEXRAY bus signal trigger or queries the current setting.

> :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:DATA:PATTern?

<x> of EVENt<x> = 1, 2

<x> of IDData<x> = 1 to 4

<string> = Up to 64 characters by combining '0,' '1,'

and 'X,' units of 1 byte)

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:

IDDATA1:DATA:PATTERN? -> :TRIGGER:

EINTERVAL: EVENT1: FLEXRAY: IDOR: IDDATA1:

DATA:PATTERN "11011111"

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:DATA:SIGN

Function Sets the data sign of the Data Field of each OR condition of the FLEXRAY bus signal trigger or queries the current setting.

IDOR:IDData<x>:DATA:SIGN?

<x> of EVENt<x> = 1, 2
<x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:

IDDATA1:DATA:SIGN SIGN

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDOR:IDDATA1:DATA:SIGN? -> :TRIGGER:

EINTERVAL:EVENT1:FLEXRAY:IDOR:IDDATA1:

DATA:SIGN SIGN

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:FID?

Function Queries all settings related to each Frame ID of the OR condition of the FLEXRAY bus signal trigger.

 $\verb|Syntax| : \verb|TRIGger:EINTerval:EVENt<| x>: \verb|FLEX| ray| :$ 

IDOR:IDData<x>:FID?
<x> of EVENt<x> = 1, 2

<x> of IDData<x> = 1 to 4

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:FID:CONDition

Function Sets each Frame ID data condition of the OR condition of the FLEXRAY bus signal trigger or queries the current setting.

IDOR:IDData<x>:FID:CONDition?

<x> of EVENt<x> = 1, 2
<x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:

IDDATA1:FID:CONDITION BETWEEN

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:
IDDATA1:FID:CONDITION? -> :TRIGGER:
EINTERVAL:EVENT1:FLEXRAY:IDOR:IDDATA1:

FID: CONDITION BETWEEN

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# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:FID:ID<x>

Function Sets each Frame ID value of the OR condition of the FLEXRAY bus signal trigger or queries the current

setting.

 $\verb|Syntax| : \verb|TRIGger:EINTerval:EVENt<| x>: \verb|FLEX| ray|:$ 

IDOR:IDData<x>:FID:ID<x> {<NRf>}
:TRIGger:EINTerval:EVENt<x>:FLEXray:

IDOR:IDData<x>:FID:ID<x>?

<x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4 <x> of ID<x> = 1, 2 <NRf> = 1 to 2047

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:

IDDATA1:FID:ID1 100

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:
IDDATA1:FID:ID1? -> :TRIGGER:EINTERVAL:
EVENT1:FLEXRAY:IDOR:IDDATA1:FID:ID1 100

Description • For :TRIGger:EINTerval:EVENt<x>:FLEXray:IDOR: IDData<x>:FID:CONDition GTHan, set using: TRIGger:EINTerval:EVENt<x>:FLEXray:IDOR: IDData<x>:FID:ID1.

- For :TRIGger:EINTerval:EVENt<x>:FLEXray:
   IDOR:IDData<x>:FID:CONDition LTHan, set using:
   TRIGger:EINTerval:EVENt<x>:FLEXray:IDOR:
   IDData<x>:FID:ID2.
- For:TRIGger:EINTerval:EVENt<x>:FLEXray:IDOR: IDData<x>:FID:CONDition BETWeen|ORANge, set small values with: TRIGger:EINTerval:EVENt<x>: FLEXray:IDOR:IDData<x>:FID:ID1, and large values with: TRIGger:EINTerval:EVENt<x>: FLEXray:IDOR:IDData<x>:FID:ID2.

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:INDicator?

Function Queries all settings related to each Indicator of the OR condition of the FLEXRAY bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDOR:IDData<x>:INDicator?

<x> of EVENt<x> = 1, 2
<x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:

IDOR:IDDATA1:INDICATOR? -> :TRIGGER: EINTERVAL:EVENT1:FLEXRAY:IDOR:IDDATA1:

INDICATOR: CONDITION DONTCARE:

NFRAME DONTCARE; PPREAMBLE DONTCARE; STFRAME DONTCARE; SYFRAME DONTCARE

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:INDicator:CONDition

Function Sets each Indicator data condition of the OR condition of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDOR:IDData<x>:INDicator:

CONDition {DONTcare|FALSe|TRUE}
:TRIGger:EINTerval:EVENt<x>:FLEXray:
IDOR:IDData<x>:INDicator:CONDition?

<x> of EVENt<x> = 1, 2
<x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:

IDDATA1:INDICATOR:CONDITION DONTCARE :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:

IDDATA1:INDICATOR:CONDITION? ->

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR: IDDATA1:INDICATOR:CONDITION DONTCARE

# :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:INDicator:NFRame

Function Sets each Indicator Null frame of the OR condition of the FLEXRAY bus signal trigger or queries the current setting

Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray:

IDOR:IDData<x>:INDicator:NFRame

{DONTcare|OFF|ON}

:TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:INDicator:NFRame?

<x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4

:TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR:
IDDATA1:INDICATOR:NFRAME? -> :TRIGGER:
EINTERVAL:EVENT1:FLEXRAY:IDOR:IDDATA1:

INDICATOR:NFRAME DONTCARE

#### :TRIGger:EINTerval:EVENt<x>:FLEXray: :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:INDicator:PPReamble IDOR:IDData<x>:MODE Sets each Indicator Payload preamble of the OR Enables (1) or disables (0) each condition for each Function condition of the FLEXRAY bus signal trigger or OR condition of the FLEXRAY bus signal trigger or queries the current setting. queries the current setting. :TRIGger:EINTerval:EVENt<x>:FLEXray: :TRIGger:EINTerval:EVENt<x>:FLEXray: Syntax Syntax IDOR:IDData<x>:INDicator: IDOR:IDData<x>:MODE {<Boolean>} PPReamble {DONTcare | OFF | ON } :TRIGger:EINTerval:EVENt<x>:FLEXray: :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR: IDData<x>: MODE? IDOR:IDData<x>:INDicator:PPReamble? <x> of EVENt<x> = 1, 2 <x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4 <x> of IDData<x> = 1 to 4 Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR: Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR: IDDATA1:MODE ON IDDATA1: INDICATOR: PPREAMBLE DONTCARE :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR: :TRIGGER:EINTERVAL:EVENT1:FLEXRAY: IDDATA1:MODE? -> :TRIGGER:EINTERVAL: IDOR:IDDATA1:INDICATOR:PPREAMBLE? -> EVENT1:FLEXRAY:IDOR:IDDATA1:MODE 1 :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR: IDDATA1:INDICATOR:PPREAMBLE DONTCARE :TRIGger:EINTerval:EVENt<x>:FLEXray: MODE :TRIGger:EINTerval:EVENt<x>:FLEXray: Function Sets the FLEXRAY bus signal trigger mode or queries IDOR:IDData<x>:INDicator:STFRame the current setting. Function Sets each Indicator Start frame of the OR condition of Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray: the FLEXRAY bus signal trigger or queries the current MODE {ERROr|FSTart|IDData|IDOR} :TRIGger:EINTerval:EVENt<x>:FLEXray: Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray: MODE? IDOR:IDData<x>:INDicator: < x > = 1, 2STFRame {DONTcare|OFF|ON} Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY: :TRIGger:EINTerval:EVENt<x>:FLEXray: MODE ERROR IDOR:IDData<x>:INDicator:STFRame? :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:MODE? <x> of EVENt<x> = 1, 2 -> :TRIGGER:EINTERVAL:EVENT1:FLEXRAY: MODE ERROR <x> of IDData<x> = 1 to 4 Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR: IDDATA1:INDICATOR:STFRAME DONTCARE :TRIGger:EINTerval:EVENt<x>:FLEXray: :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR: SOURce IDDATA1:INDICATOR:STFRAME? -> :TRIGGER: Sets the FLEXRAY bus signal trigger source or Function EINTERVAL:EVENT1:FLEXRAY:IDOR:IDDATA1: queries the current setting. INDICATOR: STFRAME DONTCARE :TRIGger:EINTerval:EVENt<x>:FLEXray: Svntax SOURce {<NRf>} :TRIGger:EINTerval:EVENt<x>:FLEXray: :TRIGger:EINTerval:EVENt<x>:FLEXray: IDOR:IDData<x>:INDicator:SYFRame SOURce? Function Sets each Indicator Synch frame of the OR condition < x > = 1.2of the FLEXRAY bus signal trigger or queries the < NRf > = 1 to 4:TRIGGER:EINTERVAL:EVENT1:FLEXRAY: current setting. Example Syntax :TRIGger:EINTerval:EVENt<x>:FLEXray: SOURCE 1 IDOR:IDData<x>:INDicator: :TRIGGER:EINTERVAL:EVENT1:FLEXRAY: SYFRame {DONTcare | OFF | ON } SOURCE? -> :TRIGGER:EINTERVAL:EVENT1: :TRIGger:EINTerval:EVENt<x>:FLEXray: FLEXRAY: SOURCE 1 IDOR:IDData<x>:INDicator:SYFRame? <x> of EVENt<x> = 1. 2 <x> of IDData<x> = 1 to 4 Example :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR: IDDATA1:INDICATOR:SYFRAME DONTCARE :TRIGGER:EINTERVAL:EVENT1:FLEXRAY:IDOR: IDDATA1:INDICATOR:SYFRAME? -> :TRIGGER:

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EINTERVAL:EVENT1:FLEXRAY:IDOR:IDDATA1:

INDICATOR: SYFRAME DONTCARE

# :TRIGger:EINTerval:EVENt<x>:I2CBus? Queries all settings related to the I<sup>2</sup>C bus trigger of the event. :TRIGger:EINTerval:EVENt<x>:I2CBus? Syntax < x > = 1 or 2Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS? -> :TRIGGER:EINTERVAL:EVENT1:I2CBUS: ADATA:BIT10ADDRESS: PATTERN "10111011111";: TRIGGER: EINTERVAL: EVENT1: 12CBUS: ADATA: BIT7ADDRESS:PATTERN "11011110";: TRIGGER: EINTERVAL: EVENT1: 12CBUS: ADATA: BIT7APSUB:ADDRESS:PATTERN "10101011";: TRIGGER: EINTERVAL: EVENT1: 12CBUS: ADATA: BIT7APSUB:SADDRESS:PATTERN "10101011";: TRIGGER: EINTERVAL: EVENT1: 12CBUS: ADATA: TYPE BIT10ADDRESS;:TRIGGER:EINTERVAL: EVENT1:I2CBUS:CLOCK:SOURCE 1;:TRIGGER: EINTERVAL:EVENT1:I2CBUS:DATA:BYTE 1; CONDITION TRUE; DPOSITION 1; MODE 1; PATTERN1 "10101011"; PATTERN2 "10101010"; PATTERN3 "10101111"; PATTERN4 "10101011"; PMODE DONTCARE; SOURCE 1;:TRIGGER:EINTERVAL:EVENT1: I2CBUS: GCALL: BIT7MADDRESS: PATTERN "1010101";:TRIGGER:EINTERVAL:

# :TRIGger:EINTerval:EVENt<x>:I2CBus: ADATa?

EVENT1: I2CBUS: GCALL:

Function Queries all settings related to the address of the I<sup>2</sup>C bus trigger.

SBYTE BIT7MADDRESS;:TRIGGER:EINTERVAL:

EVENT1:12CBUS:MODE ADATA; NAIGNORE:

EINTERVAL: EVENT1: I2CBUS: SBHSMODE:

HSMODE 1; RACCESS 1; SBYTE 1; :TRIGGER:

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

ADATa?

TYPE HSMODE

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA?
 -> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:
 ADATA:BIT10ADDRESS:
 DATTEDN "10111011111"..TRIGGER.

PATTERN "10111011111";:TRIGGER:
EINTERVAL:EVENT1:I2CBUS:ADATA:
BIT7ADDRESS:PATTERN "11011110";:
TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
BIT7APSUB:ADDRESS:PATTERN "10101011";:
TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
BIT7APSUB:SADDRESS:PATTERN "10101011";:
TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
TYPE BIT10ADDRESS

:TRIGger:EINTerval:EVENt<x>:I2CBus:

ADATa:BIT10address?

Function Queries all settings related to the 10-bit address of the I<sup>2</sup>C bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

ADATa:BIT10address?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
 BIT10ADDRESS? -> :TRIGGER:EINTERVAL:
 EVENT1:I2CBUS:ADATA:BIT10ADDRESS:
 PATTERN "10111011111"

# :TRIGger:EINTerval:EVENt<x>:12CBus:

#### ADATa:BIT10address:HEXA

Function Sets the 10-bit address of the I<sup>2</sup>C bus trigger in hexadecimal notation.

< x > = 1 or 2

<String> = 3 characters by combining '0' to 'F' and 'X' (bit 8 is the  $R/\overline{W}$  bit)

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
BIT10ADDRESS:HEXA "7AB"

### :TRIGger:EINTerval:EVENt<x>:I2CBus:

### ADATa:BIT10address:PATTern

Function Sets the 10-bit address of the I<sup>2</sup>C bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:12CBus:
 ADATa:BIT10address:PATTern {<String>}
 :TRIGger:EINTerval:EVENt<x>:12CBus:

ADATa:BIT10address:PATTern?

< x > = 1 or 2

<String> = 11 characters by combining '0', '1', and 'X' (bit 8 is the  $R/\overline{W}$  bit)

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
 BIT10ADDRESS:PATTERN "10111011111"
 :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
 BIT10ADDRESS:PATTERN? -> :TRIGGER:
 EINTERVAL:EVENT1:I2CBUS:ADATA:
 BIT10ADDRESS:PATTERN "10111011111"

# :TRIGger:EINTerval:EVENt<x>:I2CBus:

### ADATa:BIT7ADdress?

Function Queries all settings related to the 7-bit address of the  $I^2C$  bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

ADATa:BIT7ADdress?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
BIT7ADDRESS? -> :TRIGGER:EINTERVAL:
EVENT1:I2CBUS:ADATA:BIT7ADDRESS:

PATTERN "11011110"

### ADATa:BIT7ADdress:HEXA

hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

ADATa:BIT7ADdress:HEXA {<String>}

< x > = 1 or 2

<String> = 2 characters by combining '0' to 'F' and 'X'

(bit 0 is the R/W bit)

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:

BIT7ADDRESS:HEXA "DE"

# :TRIGger:EINTerval:EVENt<x>:I2CBus:

### ADATa:BIT7ADdress:PATTern

Function Sets the 7-bit address of the I<sup>2</sup>C bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

ADATa:BIT7ADdress:PATTern {<String>}
:TRIGger:EINTerval:EVENt<x>:I2CBus:

ADATa:BIT7ADdress:PATTern?

< x > = 1 or 2

<String> = 8 characters by combining '0', '1', and 'X'

(bit 0 is the R/W bit)

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:

BIT7ADDRESS:PATTERN "11011110"

 $: {\tt TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:}$ 

BIT7ADDRESS:PATTERN? -> :TRIGGER: EINTERVAL:EVENT1:I2CBUS:ADATA: BIT7ADDRESS:PATTERN "11011110"

### :TRIGger:EINTerval:EVENt<x>:I2CBus:

### ADATa:BIT7APsub?

Function Queries all settings related to the 7-bit + Sub address of the  $I^2C$  bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

ADATa:BIT7APsub?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:

ADATA:BIT7APSUB? -> :TRIGGER:EINTERVAL:
EVENT1:I2CBUS:ADATA:BIT7APSUB:ADDRESS:
PATTERN "10101011";:TRIGGER:EINTERVAL:
EVENT1:I2CBUS:ADATA:BIT7APSUB:SADDRESS:

PATTERN "10101011"

### :TRIGger:EINTerval:EVENt<x>:I2CBus:

### ADATa:BIT7APsub:ADDRess?

Function Queries all settings related to the 7-bit address of the

7-bit + Sub address of the I<sup>2</sup>C bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

ADATa:BIT7APsub:ADDRess?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:

BIT7APSUB:ADDRESS? -> :TRIGGER:
EINTERVAL:EVENT1:I2CBUS:ADATA:
BIT7APSUB:ADDRESS:PATTERN "10101011"

# :TRIGger:EINTerval:EVENt<x>:I2CBus:

### ADATa:BIT7APsub:ADDRess:HEXA

Function Sets the 7-bit address of the 7-bit + Sub address of the I<sup>2</sup>C bus trigger in hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

ADATa:BIT7APsub:ADDRess:HEXA {<String>}

<x> = 1 or 2 <String> = 2 characters by combining '0' to 'F' and 'X'

(bit 0 is the R/W bit)

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:

ADATA:BIT7APSUB:ADDRESS:HEXA "AB"

### :TRIGger:EINTerval:EVENt<x>:I2CBus:

### ADATa:BIT7APsub:ADDRess:PATTern

Function Sets the 7-bit address of the 7-bit + Sub address of the I<sup>2</sup>C bus trigger in binary notation or queries the

current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

ADATa:BIT7APsub:ADDRess:PATTern

{<String>}

:TRIGger:EINTerval:EVENt<x>:I2CBus: ADATa:BIT7APsub:ADDRess:PATTern?

< x > = 1 or 2

<String> = 8 characters by combining '0', '1', and 'X'

(bit 0 is the  $R/\overline{W}$  bit)

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:

BIT7APSUB:ADDRESS:PATTERN "10101011" :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:

BIT7APSUB:ADDRESS:PATTERN? -> :TRIGGER:

 $\verb"EINTERVAL: EVENT1: I2CBUS: ADATA:$ 

BIT7APSUB:ADDRESS:PATTERN "10101011"

### :TRIGger:EINTerval:EVENt<x>:I2CBus:

# ADATa:BIT7APsub:SADDress?

Function Queries all settings related to the Sub address of the 7-bit + Sub address of the I<sup>2</sup>C bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

ADATa:BIT7APsub:SADDress?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:

BIT7APSUB:SADDRESS? -> :TRIGGER:
EINTERVAL:EVENT1:I2CBUS:ADATA:

BIT7APSUB:SADDRESS:PATTERN "10101011"

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### ADATa:BIT7APsub:SADDress:HEXA

Function Sets the Sub address of the 7-bit + Sub address of

the I<sup>2</sup>C bus trigger in hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

ADATa:BIT7APsub:SADDress:HEXA

{<String>} <x> = 1 or 2

<String> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:

BIT7APSUB:SADDRESS:HEXA "EF"

### :TRIGger:EINTerval:EVENt<x>:I2CBus:

### ADATa:BIT7APsub:SADDress:PATTern

Function Sets the Sub address of the 7-bit + Sub address of

the I<sup>2</sup>C bus trigger in binary notation or queries the

current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

ADATa:BIT7APsub:SADDress:PATTern

 ${<$string>$}$ 

:TRIGger:EINTerval:EVENt<x>:I2CBus:

ADATa:BIT7APsub:SADDress:PATTern?

< x > = 1 or 2

<String> = 8 characters by combining '0,' '1,' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:

BIT7APSUB:SADDRESS:PATTERN "10101011"

:TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:

BIT7APSUB: SADDRESS: PATTERN?

-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:

ADATA:BIT7APSUB:SADDRESS:

PATTERN "10101011"

# :TRIGger:EINTerval:EVENt<x>:I2CBus:

### ADATa: TYPE

the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

ADATa:TYPE {BIT10address|BIT7ADdress|

BIT7APsub}

:TRIGger:EINTerval:EVENt<x>:I2CBus:

ADATa: TYPE?  $\langle x \rangle = 1 \text{ or } 2$ 

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:

ADATA: TYPE BIT10ADDRESS

:TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
TYPE? -> :TRIGGER:EINTERVAL:EVENT1:

I2CBUS:ADATA:TYPE BIT10ADDRESS

# :TRIGger:EINTerval:EVENt<x>:I2CBus:

#### CLOCk?

Function 

Queries all settings related to the clock of the I<sup>2</sup>C bus

trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

CLOCk? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:CLOCK?

-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:

CLOCK: SOURCE 1

# :TRIGger:EINTerval:EVENt<x>:I2CBus:

#### CLOCk:SOURce

Function Sets the clock trace of the I<sup>2</sup>C bus trigger or queries

the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

CLOCk:SOURce {<NRf>}

:TRIGger:EINTerval:EVENt<x>:I2CBus:

CLOCk: SOURce? <x> = 1 or 2 <NRf> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:CLOCK:

SOURCE 1

:TRIGGER:EINTERVAL:EVENT1:I2CBUS:CLOCK:

SOURCE? -> :TRIGGER:EINTERVAL:EVENT1:

I2CBUS:CLOCK:SOURCE 1

# :TRIGger:EINTerval:EVENt<x>:I2CBus:

### DATA?

Function Queries all settings related to the data of the I<sup>2</sup>C bus

trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

DATA?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:

DATA? -> :TRIGGER:EINTERVAL:EVENT1:
I2CBUS:DATA:BYTE 1;CONDITION TRUE;

DPOSITION 1; MODE 1; PATTERN1 "10101011";

PATTERN2 "10101010"; PATTERN3 "10101111";

PATTERN4 "10101011"; PMODE DONTCARE;

SOURCE 1

# :TRIGger:EINTerval:EVENt<x>:I2CBus: DATA:BYTE

Function Sets the number of data bytes of the I<sup>2</sup>C bus trigger

or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

DATA:BYTE {<NRf>}

:TRIGger:EINTerval:EVENt<x>:I2CBus:

DATA: BYTE? <x> = 1 or 2 <NRf> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:

BYTE 1

:TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:
BYTE? -> :TRIGGER:EINTERVAL:EVENT1:

I2CBUS:DATA:BYTE 1

# :TRIGger:EINTerval:EVENt<x>:I2CBus: DATA:CONDition

Function Sets the determination method (match or not match) of the data of the  $I^2C$  bus trigger or queries the

current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

DATA: CONDition {FALSe | TRUE}

:TRIGger:EINTerval:EVENt<x>:I2CBus:

DATA: CONDition?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:

CONDITION TRUE

:TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:
CONDITION? -> :TRIGGER:EINTERVAL:
EVENT1:I2CBUS:DATA:CONDITION TRUE

# :TRIGger:EINTerval:EVENt<x>:I2CBus: DATA:DPOSition

Function Sets the position for comparing the data pattern of the I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

DATA:DPOSition {<NRf>}

:TRIGger:EINTerval:EVENt<x>:I2CBus:

DATA:DPOSition?

< NRf > = 0 to 9999

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:

DPOSITION 1

:TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:
DPOSITION? -> :TRIGGER:EINTERVAL:

EVENT1:I2CBUS:DATA:DPOSITION 1

# :TRIGger:EINTerval:EVENt<x>:I2CBus: DATA:HEXA<x>

notation.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

DATA:HEXA<x> {<String>} <x> of EVENt<x> = 1 or 2 <x> of HEXA<x> = 1 to 4

<String> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:

HEXA1 "AB"

# :TRIGger:EINTerval:EVENt<x>:I2CBus: DATA:MODE

Function Enables/Disables the data conditions of the I<sup>2</sup>C bus

trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

DATA:MODE {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:I2CBus:

DATA: MODE? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:

MODE ON

:TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:
MODE? -> :TRIGGER:EINTERVAL:EVENT1:

I2CBUS:DATA:MODE 1

# :TRIGger:EINTerval:EVENt<x>:I2CBus:

## DATA: PATTern<x>

or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

DATA:PATTern<x> {<String>}

:TRIGger:EINTerval:EVENt<x>:I2CBus:

DATA: PATTern<x>?
<x> of EVENt<x> = 1 or 2
<x> of PATTern<x> = 1 to 4

<String> = 8 characters by combining '0,' '1,' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:

PATTERN1 "10101011"

:TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA: PATTERN1? -> :TRIGGER:EINTERVAL:EVENT1:

I2CBUS:DATA:PATTERN1 "10101011"

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# :TRIGger:EINTerval:EVENt<x>:I2CBus: DATA:PMODe

Function Sets the pattern comparison start position mode of the data of the I<sup>2</sup>C bus trigger or queries the current

setting.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

DATA:PMODe {DONTcare|SELect}

:TRIGger:EINTerval:EVENt<x>:I2CBus:

DATA: PMODe? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:

PMODE SELECT

:TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA: PMODE? -> :TRIGGER:EINTERVAL:EVENT1:

I2CBUS:DATA:PMODE SELECT

# :TRIGger:EINTerval:EVENt<x>:I2CBus: DATA:SOURce

Function Sets the data trace of the I<sup>2</sup>C bus trigger or queries

the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

DATA:SOURce {<NRf>}

:TRIGger:EINTerval:EVENt<x>:I2CBus:

DATA: SOURce? <x> = 1 or 2 <NRf> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:

DATA:SOURCE 1

:TRIGGER:EINTERVAL:EVENT1:I2CBUS:
DATA:SOURCE? -> :TRIGGER:EINTERVAL:

EVENT1:I2CBUS:DATA:SOURCE 1

# :TRIGger:EINTerval:EVENt<x>:12CBus:GCAL1?

Function Queries all settings related to the general call of the  $I^2C$  bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

GCAL1? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL?

-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:
GCALL:BIT7MADDRESS:PATTERN "1010101";
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL:

SBYTE BIT7MADDRESS

# :TRIGger:EINTerval:EVENt<x>:I2CBus: GCALl:BIT7maddress?

Function Queries all settings related to the 7-bit master address of the general call of the I<sup>2</sup>C bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

GCAL1:BIT7maddress?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL:

BIT7MADDRESS? -> :TRIGGER:EINTERVAL: EVENT1:I2CBUS:GCALL:BIT7MADDRESS:

PATTERN "1010101"

# :TRIGger:EINTerval:EVENt<x>:I2CBus: GCALl:BIT7maddress:HEXA

Function Sets the 7-bit master address of the general call of the I<sup>2</sup>C bus trigger in hexadecimal notation.

< x > = 1 or 2

<String> = 2 characters by combining '0' to 'F' and 'X'

(bit 0 is fixed 1)

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL:

BIT7MADDRESS:HEXA "AB"

# :TRIGger:EINTerval:EVENt<x>:I2CBus:

GCAL1:BIT7maddress:PATTern

Function Sets the 7-bit master address of the general call of the I<sup>2</sup>C bus trigger in binary notation or queries the

current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

GCALl:BIT7maddress:PATTern {<String>}
:TRIGger:EINTerval:EVENt<x>:I2CBus:

GCAL1:BIT7maddress:PATTern?

< x > = 1 or 2

<String> = 7 characters by combining '0,' '1,' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL:

BIT7MADDRESS:PATTERN "1010101"

:TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL:

BIT7MADDRESS:PATTERN? -> :TRIGGER:
EINTERVAL:EVENT1:I2CBUS:GCALL:

BIT7MADDRESS: PATTERN "1010101"

## :TRIGger:EINTerval:EVENt<x>:I2CBus: GCALl:SBYTe (Second Byte)

Function Sets the second byte type of the general call of the  $I^2C$  bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

GCAL1:SBYTe {BIT7maddress|DONTcare|H04|

H06}

:TRIGger:EINTerval:EVENt<x>:I2CBus:

GCAL1:SBYTe? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL:

SBYTE BIT7MADDRESS

:TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL: SBYTE? -> :TRIGGER:EINTERVAL:EVENT1: I2CBUS:GCALL:SBYTE BIT7MADDRESS

# :TRIGger:EINTerval:EVENt<x>:I2CBus: MODE

Function Sets the trigger mode of the I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:12CBus:
MODE {ADATa|ESTart|GCAL1|NAIGnore|

MODE {ADAIA|ESIATC|GCALI|NAIGHO

 ${\tt SBHSmode}\}$ 

:TRIGger:EINTerval:EVENt<x>:I2CBus:

MODE? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:

MODE ADATA

:TRIGGER:EINTERVAL:EVENT1:I2CBUS:MODE?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:

MODE ADATA

## :TRIGger:EINTerval:EVENt<x>:I2CBus: NAIGnore?

Function Queries all settings related to the NON ACK ignore mode of the I<sup>2</sup>C bus trigger.

 $\verb|Syntax| : \verb|TRIGger:EINTerval:EVENt<| x>: \verb|I2CBus:|$ 

NAIGnore?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:

NAIGNORE? -> :TRIGGER:EINTERVAL:EVENT1:

12CBUS:NAIGNORE:HSMODE 1;RACCESS 1;

SBYTE 1

## :TRIGger:EINTerval:EVENt<x>:I2CBus:

Function Sets whether to ignore NON ACK in high speed mode of the  $I^2C$  bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

NAIGnore:HSMode {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:I2CBus:

NAIGnore: HSMode?

< x > = 1 or 2

NAIGnore: HSMode

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:

NAIGNORE: HSMODE ON

:TRIGGER:EINTERVAL:EVENT1:I2CBUS:

NAIGNORE: HSMODE? -> :TRIGGER: EINTERVAL:

EVENT1: I2CBUS: NAIGNORE: HSMODE 1

## :TRIGger:EINTerval:EVENt<x>:I2CBus: NAIGnore:RACCess

Function Sets whether to ignore NON ACK in read access mode of the I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

NAIGnore:RACCess {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:I2CBus:

NAIGnore: RACCess?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:

NAIGNORE: RACCESS ON

:TRIGGER:EINTERVAL:EVENT1:I2CBUS:

NAIGNORE: RACCESS? -> :TRIGGER: EINTERVAL:

EVENT1:I2CBUS:NAIGNORE:RACCESS 1

# :TRIGger:EINTerval:EVENt<x>:I2CBus:

NAIGnore:SBYTe (Start Byte)

Function Sets whether to ignore NON ACK in the start byte of the I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

NAIGnore:SBYTe {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:I2CBus:

NAIGnore:SBYTe?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:

NAIGNORE:SBYTE ON

:TRIGGER:EINTERVAL:EVENT1:I2CBUS:

NAIGNORE:SBYTE? -> :TRIGGER:EINTERVAL:

EVENT1: I2CBUS: NAIGNORE: SBYTE 1

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## :TRIGger:EINTerval:EVENt<x>:I2CBus: SBHSmode?

Function Queries all settings related to the start byte and high speed mode of the I<sup>2</sup>C bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

SBHSmode? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:

SBHSMODE? -> :TRIGGER:EINTERVAL:EVENT1:

I2CBUS:SBHSMODE:TYPE HSMODE

## :TRIGger:EINTerval:EVENt<x>:I2CBus: SBHSmode:TYPE

Function Sets the type of the start byte or high speed mode of the I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:I2CBus:

SBHSmode: TYPE {HSMode | SBYTe}

:TRIGger:EINTerval:EVENt<x>:I2CBus:

SBHSmode: TYPE?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:

SBHSMODE: TYPE HSMODE

:TRIGGER:EINTERVAL:EVENT1:I2CBUS: SBHSMODE:TYPE? -> :TRIGGER:EINTERVAL: EVENT1:I2CBUS:SBHSMODE:TYPE HSMODE

#### :TRIGger:EINTerval:EVENt<x>:LINBus?

Function Queries all settings related to LIN bus signal triggers of each event

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus?

< x > = 1, 2

> SIGN UNSIGN;:TRIGGER:EINTERVAL:EVENT1: LINBUS:IDDATA:ID:PATTERN "XXXXXX";: TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:

DSIZE 8;IDDATA1:DATA:BORDER BIG;
CONDITION DONTCARE;DATA1 0.0000000E+00;

DATA2 0.0000000E+00; MSBLSB 7, 0;

LINBUS: IDOR: IDDATA1: ID:

PATTERN "XXXXXX";:TRIGGER:EINTERVAL: EVENT1:LINBUS:IDOR:IDDATA1:MODE 0;: TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:

IDDATA2:DATA:BORDER BIG.....

## :TRIGger:EINTerval:EVENt<x>:LINBus: BLENgth

Function Sets the LIN bus signal trigger Break length or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

BLENgth {<NRf>}

:TRIGger:EINTerval:EVENt<x>:LINBus:

BLENgth? <x> = 1, 2

<NRf> = 10 to 13

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:

BLENGTH 10

:TRIGGER:EINTERVAL:EVENT1:LINBUS:
BLENGTH? -> :TRIGGER:EINTERVAL:EVENT1:

LINBUS:BLENGTH 10

## :TRIGger:EINTerval:EVENt<x>:LINBus: BRATe

Function Sets the LIN bus signal trigger bitrate (data transfer rate) or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

BRATe {<NRf>|USER,<NRf>}

:TRIGger:EINTerval:EVENt<x>:LINBus:

BRATe? <x> = 1, 2

<NRf> = 1200, 2400, 4800, 9600, 19200

<NRf> for USER = See the main unit User's Manual.

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:

BRATE 19200

:TRIGGER:EINTERVAL:EVENT1:LINBUS:BRATE?

-> :TRIGGER:EINTERVAL:EVENT1:LINBUS:

BRATE 19200

## :TRIGger:EINTerval:EVENt<x>:LINBus:

#### ERRor?

Syntax

Function Queries all settings related to the LIN bus signal trigger error.

:TRIGger:EINTerval:EVENt<x>:LINBus:

ERRor?

< x > = 1, 2

## :TRIGger:EINTerval:EVENt<x>:LINBus:

#### ERRor: CHECksum

Function Sets the LIN bus signal trigger Checksum error or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

ERRor:CHECksum {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:LINBus:

ERRor: CHECksum?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:ERROR:

CHECKSUM ON

:TRIGGER:EINTERVAL:EVENT1:LINBUS:ERROR: CHECKSUM? -> :TRIGGER:EINTERVAL:EVENT1:

LINBUS: ERROR: CHECKSUM 1

## :TRIGger:EINTerval:EVENt<x>:LINBus: ERRor:DSIZe

Function Sets the number of error data bytes for the LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

ERROr:DSIZe {<NRf>}

:TRIGger:EINTerval:EVENt<x>:LINBus:

ERRor:DSIZe? <x> = 1, 2

<NRf> = 1 to 8

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:ERROR:

DSIZE 1

:TRIGGER:EINTERVAL:EVENT1:LINBUS:ERROR: DSIZE? -> :TRIGGER:EINTERVAL:EVENT1:

DSIZE: -> :IRIGGER:EINIERVAL:EVENII

LINBUS: ERROR: DSIZE 1

## :TRIGger:EINTerval:EVENt<x>:LINBus: ERRor:FRAMing

Function Sets the LIN bus signal trigger Framing error or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

ERRor:FRAMing {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:LINBus:

ERRor: FRAMing?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:ERROR:

FRAMING ON

:TRIGGER:EINTERVAL:EVENT1:LINBUS:ERROR: FRAMING? -> :TRIGGER:EINTERVAL:EVENT1:

LINBUS: ERROR: FRAMING 1

## :TRIGger:EINTerval:EVENt<x>:LINBus:

#### ERRor: PARity

Function Sets the LIN bus signal trigger Parity error or queries

the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

ERRor:PARity {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:LINBus:

ERRor: PARity?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:ERROR:

PARITY ON

:TRIGGER:EINTERVAL:EVENT1:LINBUS:ERROR: PARITY? -> :TRIGGER:EINTERVAL:EVENT1:

LINBUS: ERROR: PARITY 1

## :TRIGger:EINTerval:EVENt<x>:LINBus:

#### ERRor: SYNCh

Function Sets the LIN bus signal trigger Synch error or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

ERRor:SYNCh {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:LINBus:

ERRor:SYNCh?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:ERROR:

SYNCH ON

:TRIGGER:EINTERVAL:EVENT1:LINBUS:ERROR: SYNCH? -> :TRIGGER:EINTERVAL:EVENT1:

LINBUS: ERROR: SYNCH 1

## :TRIGger:EINTerval:EVENt<x>:LINBus:

#### ERRor: TOUT

Function Sets the LIN bus signal trigger Timeout error or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

ERRor:TOUT {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:LINBus:

ERRor: TOUT?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:ERROR:

TOUT ON

:TRIGGER:EINTERVAL:EVENT1:LINBUS:ERROR:

TOUT? -> :TRIGGER:EINTERVAL:EVENT1:

LINBUS: ERROR: TOUT 1

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## :TRIGger:EINTerval:EVENt<x>:LINBus: IDData?

Function Queries all settings related to the IDData of the LIN bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

IDData? <x> = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:

IDDATA? -> :TRIGGER:EINTERVAL:EVENT1:

LINBUS: IDDATA: DATA: BORDER BIG;

CONDITION DONTCARE; DATA1

EINTERVAL: EVENT1: LINBUS: IDDATA: ID:

PATTERN "XXXXXX"

## :TRIGger:EINTerval:EVENt<x>:LINBus: IDData:DATA?

Function Queries all settings related to the Data Field of the

LIN bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

IDData:DATA?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:

SIGN UNSIGN

## :TRIGger:EINTerval:EVENt<x>:LINBus: IDData:DATA:BORDer

Function Sets the data byte order of the LIN bus signal trigger or queries the current setting.

:TRIGger:EINTerval:EVENt<x>:LINBus:

IDData:DATA:BORDer?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:

IDDATA:DATA:BORDER BIG

:TRIGGER:EINTERVAL:EVENT1:LINBUS:

IDDATA:DATA:BORDER? -> :TRIGGER:

EINTERVAL:EVENT1:LINBUS:IDDATA:DATA:

BORDER BIG

## :TRIGger:EINTerval:EVENt<x>:LINBus: IDData:DATA:CONDition

Function Sets the data conditions of the Data Field of the LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

IDData:DATA:CONDition {BETWeen|

 ${\tt DONTcare} \,|\, {\tt FALSe} \,|\, {\tt GTHan} \,|\, {\tt LTHan} \,|\, {\tt ORANge} \,|\, {\tt TRUE} \big\}$ 

:TRIGger:EINTerval:EVENt<x>:LINBus:

IDData:DATA:CONDition?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:

IDDATA:DATA:CONDITION BETWEEN
:TRIGGER:EINTERVAL:EVENT1:LINBUS:
IDDATA:DATA:CONDITION? -> :TRIGGER:

EINTERVAL: EVENT1: LINBUS: IDDATA: DATA:

CONDITION BETWEEN

## :TRIGger:EINTerval:EVENt<x>:LINBus: IDData:DATA:DATA<x>

Function Sets the comparison data of the LIN bus signal trigger data or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

IDData:DATA:DATA<x> {<NRf>}

:TRIGger:EINTerval:EVENt<x>:LINBus:

IDData:DATA:DATA<x>? <x> of EVENt<x> = 1, 2 DATA<x>□<x> = 1. 2

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:

IDDATA:DATA:DATA1 1

:TRIGGER:EINTERVAL:EVENT1:LINBUS:
IDDATA:DATA:DATA1? -> :TRIGGER:
EINTERVAL:EVENT1:LINBUS:IDDATA:DATA:

DATA1 1.000000E+00

Description • For :TRIGger:EINTerval:EVENt<x>:LINBus:IDData: DATA:CONDition GTHan, set using: TRIGger: EINTerval:EVENt<x>:LINBus:IDData:DATA:DATA1.

- For :TRIGger:EINTerval:EVENt<x>:LINBus:IDData: DATA:CONDition LTHan, set using: TRIGger: EINTerval:EVENt<x>:LINBus:IDData:DATA:DATA2.
- For:TRIGger:EINTerval:EVENt<x>:LINBus:IDData: DATA:CONDition BETWeen|ORANge, set small values with: TRIGger:EINTerval:EVENt<x>:LINBus: IDData:DATA:DATA1, and large values with: TRIGger:EINTerval:EVENt<x>:LINBus:IDData: DATA:DATA2.

#### 5.31 TRIGger Group :TRIGger:EINTerval:EVENt<x>:LINBus: :TRIGger:EINTerval:EVENt<x>:LINBus: IDData:DATA:DSIZe IDData:DATA:PATTern Sets the number of bytes of data in the Data Field Sets the data of the Data Field of the LIN bus signal Function Function of the LIN bus signal trigger or queries the current trigger in binary or queries the current setting. setting. Syntax :TRIGger:EINTerval:EVENt<x>:LINBus: IDData:DATA:PATTern {<string>} Syntax :TRIGger:EINTerval:EVENt<x>:LINBus: IDData:DATA:DSIZe {<NRf>} :TRIGger:EINTerval:EVENt<x>:LINBus: :TRIGger:EINTerval:EVENt<x>:LINBus: IDData:DATA:PATTern? < x > = 1, 2IDData: DATA: DSIZe? <string> = Up to 64 characters by combining'0', '1', < x > = 1, 2<NRf> = 1 to 8 and 'X,' units of 1 byte Example :TRIGGER:EINTERVAL:EVENT1:LINBUS: Example :TRIGGER:EINTERVAL:EVENT1:LINBUS: IDDATA:DATA:DSIZE 1 IDDATA:DATA:PATTERN "11011111" :TRIGGER:EINTERVAL:EVENT1:LINBUS: :TRIGGER:EINTERVAL:EVENT1:LINBUS: IDDATA:DATA:DSIZE? -> :TRIGGER: IDDATA:DATA:PATTERN? -> :TRIGGER: EINTERVAL: EVENT1: LINBUS: IDDATA: DATA: EINTERVAL:EVENT1:LINBUS:IDDATA:DATA: DSIZE 1 PATTERN "11011111" :TRIGger:EINTerval:EVENt<x>:LINBus: :TRIGger:EINTerval:EVENt<x>:LINBus: IDData:DATA:HEXA IDData:DATA:SIGN Function Sets the data in the Data Field of the LIN bus signal Function Sets the data sign of the LIN bus signal trigger or trigger in hexadecimal. queries the current setting. :TRIGger:EINTerval:EVENt<x>:LINBus: :TRIGger:EINTerval:EVENt<x>:LINBus: Syntax Syntax IDData:DATA:HEXA {<string>} IDData:DATA:SIGN {SIGN|UNSign} :TRIGger:EINTerval:EVENt<x>:LINBus: < x > = 1.2<string> = Up to 16 characters by combining '0' to 'F', IDData:DATA:SIGN? and 'X,' units of 1 byte $\langle x \rangle = 1.2$ Example :TRIGGER:EINTERVAL:EVENT1:LINBUS: Example :TRIGGER:EINTERVAL:EVENT1:LINBUS: IDDATA:DATA:HEXA "A9" IDDATA: DATA: SIGN SIGN :TRIGGER:EINTERVAL:EVENT1:LINBUS: :TRIGger:EINTerval:EVENt<x>:LINBus: IDDATA:DATA:SIGN? -> :TRIGGER:EINTERVAL: EVENT1:LINBUS:IDDATA:DATA:SIGN SIGN IDData:DATA:MSBLsb Function Sets the MSB/LSB bit of the LIN bus signal trigger or :TRIGger:EINTerval:EVENt<x>:LINBus: queries the current setting. IDData: ID? Syntax :TRIGger:EINTerval:EVENt<x>:LINBus: IDData:DATA:MSBLsb {<NRf>, <NRf>} Queries all settings related to the ID of the LIN bus Function :TRIGger:EINTerval:EVENt<x>:LINBus: signal trigger. IDData:DATA:MSBLsb? Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

< x > = 1, 2

MSBLSB 1, 0

<NRf> = See the SB5000 User's Manual
Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:

IDDATA:DATA:MSBLSB 1, 0
:TRIGGER:EINTERVAL:EVENT1:LINBUS:
IDDATA:DATA:MSBLSB? -> :TRIGGER:
EINTERVAL:EVENT1:LINBUS:IDDATA:DATA:

IDData:ID?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:

IDDATA:ID? -> :TRIGGER:EINTERVAL:

EVENT1:LINBUS:IDDATA:ID:

PATTERN "101111"

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## :TRIGger:EINTerval:EVENt<x>:LINBus: IDData: ID: HEXA

Function Sets the LIN bus signal trigger ID in hexadecimal or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

IDData:ID:HEXA {<string>}

< x > = 1.2

<string> = 2 characters by combining'0' to 'F', and 'X

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:

IDDATA: ID: HEXA "2A"

## :TRIGger:EINTerval:EVENt<x>:LINBus:

#### IDData: ID: PATTern

Function Sets the LIN bus signal trigger ID in binary or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

IDData:ID:PATTern {<string>}

:TRIGger:EINTerval:EVENt<x>:LINBus:

IDData:ID:PATTern?

< x > = 1.2

<string> = 6 characters by combining'0' to 'F', and 'X

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:

IDDATA:ID:PATTERN "101111"

:TRIGGER:EINTERVAL:EVENT1:LINBUS: IDDATA:ID:PATTERN? -> :TRIGGER: EINTERVAL:EVENT1:LINBUS:IDDATA:ID:

PATTERN "101111"

## :TRIGger:EINTerval:EVENt<x>:LINBus: IDOR?

Function Queries all settings related to the OR condition of the LIN bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

> IDOR? < x > = 1.2

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS: IDOR? -> :TRIGGER:EINTERVAL:EVENT1: LINBUS: IDOR: DSIZE 8; IDDATA1: DATA: BORDER BIG; CONDITION DONTCARE; DATA1 0.0000000E+00; DATA2 0.000000E+00; MSBLSB 7, 0; PATTERN "XXXXXXXXXXXXXXXXXXX 

XXXXXXX"; SIGN UNSIGN; :TRIGGER:

EINTERVAL:EVENT1:LINBUS:IDOR:IDDATA1: ID:PATTERN "XXXXXX";:TRIGGER:EINTERVAL:

EVENT1:LINBUS:IDOR:IDDATA1:MODE 0;:

TRIGGER: EINTERVAL: EVENT1: LINBUS: IDOR:

IDDATA2:DATA:BORDER BIG; CONDITION DONTCARE; DATA1

0.000000E+00;DATA2 0.000000E+00;

MSBLSB 7, 0; PATTERN "XXXXXXXXXXXXXXXXXX

XXXXXXX";SIGN UNSIGN;:TRIGGER:

EINTERVAL: EVENT1: LINBUS: IDOR: IDDATA2:

ID:PATTERN "XXXXXX"....

## :TRIGger:EINTerval:EVENt<x>:LINBus: IDOR:DSIZe

Function Sets the number of bytes of data in the Data Field of the OR condition of the LIN bus signal trigger or queries the current setting.

:TRIGger:EINTerval:EVENt<x>:LINBus: Syntax

IDOR:DSIZe {<NRf>}

:TRIGger:EINTerval:EVENt<x>:LINBus:

IDOR: DSIZe? < x > = 1, 2<NRf> = 1 to 8

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:

DSIZE 1

:TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR: DSIZE? -> :TRIGGER:EINTERVAL:EVENT1:

LINBUS: IDOR: DSIZE 1

## :TRIGger:EINTerval:EVENt<x>:LINBus:

## IDOR:IDData<x>?

Function Queries all settings related to each IDData of the OR condition of the LIN bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

IDOR:IDData<x>? <x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS: IDOR:IDDATA1? -> :TRIGGER:EINTERVAL: EVENT1:LINBUS:IDOR:IDDATA1:DATA:BORDER

> BIG; CONDITION DONTCARE; DATA1 0.0000000E+00;

DATA2 0.0000000E+00; MSBLSB 7, 0;

SIGN UNSIGN;:TRIGGER:EINTERVAL: EVENT1:LINBUS:IDOR:IDDATA1:ID: PATTERN "XXXXXX";:TRIGGER:EINTERVAL: EVENT1:LINBUS:IDOR:IDDATA1:MODE 0

## :TRIGger:EINTerval:EVENt<x>:LINBus: IDOR:IDData<x>:DATA?

Function Queries all settings related to each Data Field of the OR condition of the LIN bus signal trigger.

:TRIGger:EINTerval:EVENt<x>:LINBus: Syntax

> IDOR:IDData<x>:DATA? <x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4

:TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR: Example IDDATA1:DATA? -> :TRIGGER:EINTERVAL:

EVENT1:LINBUS:IDOR:IDDATA1:DATA: CONDITION BETWEEN; PATTERN "11011111"

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## :TRIGger:EINTerval:EVENt<x>:LINBus:

#### IDOR:IDData<x>:DATA:BORDer

Function Sets the byte order of each data of the OR conditions of the LIN bus signal trigger or queries the current setting.

:TRIGger:EINTerval:EVENt<x>:LINBus:

IDOR:IDData<x>:DATA:BORDer?

<x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:

IDDATA1:DATA:BORDER BIG

 $: {\tt TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:}$ 

IDDATA1:DATA:BORDER? -> :TRIGGER: EINTERVAL:EVENT1:LINBUS:IDOR:IDDATA1:

DATA:BORDER BIG

## :TRIGger:EINTerval:EVENt<x>:LINBus:

#### IDOR:IDData<x>:DATA:CONDition

Function Sets the data condition of the Data Field of each OR condition of the LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

IDOR:IDData<x>:DATA:CONDition {BETWeen | DONTcare | FALSe | GTHan | LTHan | ORANge | TRUE }

:TRIGger:EINTerval:EVENt<x>:LINBus:
IDOR:IDData<x>:DATA:CONDition?

<x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:

IDDATA1:DATA:CONDITION BETWEEN

:TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:

IDDATA1:DATA:CONDITION? -> :TRIGGER: EINTERVAL:EVENT1:LINBUS:IDOR:IDDATA1:

DATA: CONDITION BETWEEN

## :TRIGger:EINTerval:EVENt<x>:LINBus: IDOR:IDData<x>:DATA:DATA<x>

Function Sets the comparison data of each data of the OR conditions of the LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

IDOR:IDData<x>:DATA:DATA<x> {<NRf>}
:TRIGger:EINTerval:EVENt<x>:LINBus:

IDOR:IDData<x>:DATA:DATA<x>?

<x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4

< x > of DATA < x > = 1, 2

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:

IDDATA1:DATA:DATA1 1

:TRIGGER:EINTERVAL:EVENT1:LINBUS:

IDOR:IDDATA1:DATA:DATA1? -> :TRIGGER:

EINTERVAL:EVENT1:LINBUS:IDOR:IDDATA1:

DATA:DATA1 1.000000E+00

Description • For :TRIGger:EINTerval:EVENt<x>:LINBus:IDOR: IDData<x>:DATA:CONDition GTHan, set using: TRIGger:EINTerval:EVENt<x>:LINBus:IDOR: IDData<x>:DATA:DATA1.

- For :TRIGger:EINTerval:EVENt<x>:LINBus:IDOR: IDData<x>:DATA:CONDition LTHan, set using: TRIGger:EINTerval:EVENt<x>:LINBus:IDOR: IDData<x>:DATA:DATA2.
- For :TRIGger:EINTerval:EVENt<x>:LINBus:IDOR:
   IDData<x>:DATA:CONDition BETWeen|ORANge,
   set small values with: TRIGger:EINTerval:
   EVENt<x>:LINBus:IDOR:IDData<x>:DATA:
   DATA1, and large values with: TRIGger:EINTerval:
   EVENt<x>:LINBus:IDOR:IDData<x>:DATA:DATA2.

#### :TRIGger:EINTerval:EVENt<x>:LINBus:

#### IDOR: IDData<x>: DATA: HEXA

Function Sets the data in each Data Field of the OR condition

of the LIN bus signal trigger in hexadecimal.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

IDOR:IDData<x>:DATA:HEXA {<string>}

<x> of EVENt<x> = 1, 2

<x> of IDData<x> = 1 to 4

<string> = Up to 16 characters by combining '0' to 'F'

and 'X,' units of 1 byte

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:

IDDATA1:DATA:HEXA "A9"

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## :TRIGger:EINTerval:EVENt<x>:LINBus: IDOR:IDData<x>:DATA:MSBLsb

Function Sets the MSB/LSB bit of each data of the OR

condition of the LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

Sylicax : IRIGGET: EINTELVAL: EVENC<X>: LINB

IDOR:IDData<x>:DATA:
MSBLsb {<NRf>, <NRf>}

:TRIGger:EINTerval:EVENt<x>:LINBus:

IDOR:IDData<x>:DATA:MSBLsb?

<x> of EVENt<x> = 1, 2
<x> of IDData<x> = 1 to 4

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:

IDDATA1:DATA:MSBLSB 1, 0

:TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:
IDDATA1:DATA:MSBLSB? -> :TRIGGER:

EINTERVAL:EVENT1:LINBUS:IDOR:IDDATA1:

DATA: MSBLSB 1, 0

## :TRIGger:EINTerval:EVENt<x>:LINBus:

#### IDOR:IDData<x>:DATA:PATTern

Function Sets the data of each Data Field of the OR conditions of the LIN bus signal trigger or queries the current

setting.

 $\verb|Syntax| : \verb|TRIGger:EINTerval:EVENt<| x>: \verb|LINBus:|$ 

 ${\tt IDOR:IDData<\!x>:DATA:PATTern } \left\{<\!\!\!\text{string}>\right\}$ 

:TRIGger:EINTerval:EVENt<x>:LINBus:

IDOR:IDData<x>:DATA:PATTern?

<x> of EVENt<x> = 1, 2

<x> of IDData<x> = 1 to 4

<string> =Up to 64 characters by combining 0', 1',

and 'X,' units of 1 byte

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:

IDDATA1:DATA:PATTERN "11011111"

:TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:

IDDATA1:DATA:PATTERN? -> :TRIGGER:

EINTERVAL: EVENT1: LINBUS: IDOR: IDDATA1:

DATA:PATTERN "11011111"

#### :TRIGger:EINTerval:EVENt<x>:LINBus:

#### IDOR:IDData<x>:DATA:SIGN

Function Sets the sign of each data of the OR conditions of the LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

IDOR:IDData<x>:DATA:SIGN {SIGN|UNSign}
:TRIGger:EINTerval:EVENt<x>:LINBus:

IDOR:IDData<x>:DATA:SIGN?

<x> of EVENt<x> = 1, 2

<x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:

IDDATA1:DATA:SIGN SIGN

:TRIGGER:EINTERVAL:EVENT1:LINBUS:

IDOR:IDDATA1:DATA:SIGN? -> :TRIGGER:

EINTERVAL:EVENT1:LINBUS:IDOR:IDDATA1:

DATA:SIGN SIGN

#### :TRIGger:EINTerval:EVENt<x>:LINBus:

#### IDOR:IDData<x>:ID?

Function Queries all settings related to each ID of the OR

condition of the LIN bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

IDOR: IDData<x>: ID?
<x> of EVENt<x> = 1, 2
<x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:

IDDATA1:ID? -> :TRIGGER:EINTERVAL:
EVENT1:LINBUS:IDOR:IDDATA1:ID:

PATTERN "101111"

## :TRIGger:EINTerval:EVENt<x>:LINBus:

#### IDOR:IDData<x>:ID:HEXA

Function Sets each ID of the OR conditions of the LIN bus

signal trigger in hexadecimal.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

IDOR:IDData<x>:ID:HEXA {<string>}

<x> of EVENt<x> = 1, 2
<x> of IDData<x> = 1 to 4

<string> = 2 characters by combining'0' to 'F', and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:

IDDATA1:ID:HEXA "2A"

#### :TRIGger:EINTerval:EVENt<x>:LINBus:

#### IDOR:IDData<x>:ID:PATTern

Function Sets each ID of the OR conditions of the LIN bus

signal trigger binary or queries the current setting.

:TRIGger:EINTerval:EVENt<x>:LINBus:

IDOR:IDData<x>:ID:PATTern?

<x> of EVENt<x> = 1, 2
<x> of IDData<x> = 1 to 4

<string> = 6 characters by combining '0', '1', and 'X'

 ${\tt Example} \quad : {\tt TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:}$ 

IDDATA1:ID:PATTERN "101111"

 $: {\tt TRIGGER:EINTERVAL:EVENT1:LINBUS:}$ 

IDOR:IDDATA1:ID:PATTERN? -> :TRIGGER:

EINTERVAL: EVENT1: LINBUS: IDOR: IDDATA1: ID: PATTERN "101111"

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## :TRIGger:EINTerval:EVENt<x>:LINBus:

#### IDOR:IDData<x>:MODE

Function Enables (1) or disables (0) each condition for each OR condition of the LIN bus signal trigger or queries

the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

IDOR:IDData<x>:MODE {<Boolean>}

 $: {\tt TRIGger:EINTerval:EVENt<} x {\gt :LINBus:}$ 

IDOR:IDData<x>:MODE?
<x> of EVENt<x> = 1, 2
<x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:

IDDATA1: MODE ON

:TRIGGER:EINTERVAL:EVENT1:LINBUS:IDOR:
IDDATA1:MODE? -> :TRIGGER:EINTERVAL:

EVENT1:LINBUS:IDOR:IDDATA1:MODE 1

# :TRIGger:EINTerval:EVENt<x>:LINBus:

Function Sets the LIN bus signal trigger mode or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

MODE {BSYNch|ERRor|IDData|IDOR}
:TRIGger:EINTerval:EVENt<x>:LINBus:

MODE? <x> = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:

MODE BSYNCH

:TRIGGER:EINTERVAL:EVENT1:LINBUS:MODE?
-> :TRIGGER:EINTERVAL:EVENT1:LINBUS:

MODE BSYNCH

## :TRIGger:EINTerval:EVENt<x>:LINBus: REVision

Function Sets the LIN bus signal trigger revision (1.3 or 2.0) or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

REVision {LIN1\_3|LIN2\_0}

:TRIGger:EINTerval:EVENt<x>:LINBus:REVision?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:

REVISION LIN1\_3

:TRIGGER:EINTERVAL:EVENT1:LINBUS:

REVISION? -> :TRIGGER:EINTERVAL:EVENT1:

LINBUS:REVISION LIN1 3

## :TRIGger:EINTerval:EVENt<x>:LINBus: SOURce

Function Sets the LIN bus signal trigger source or queries the

current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

SOURce {<NRf>}

:TRIGger:EINTerval:EVENt<x>:LINBus:

SOURce? <x> = 1, 2

<NRf> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:

SOURCE 1

:TRIGGER:EINTERVAL:EVENT1:LINBUS:
SOURCE? -> :TRIGGER:EINTERVAL:EVENT1:

LINBUS:SOURCE 1

## :TRIGger:EINTerval:EVENt<x>:LINBus: SPOint

Function Sets the LIN bus signal trigger sample point or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LINBus:

SPOint {<NRf>}

:TRIGger:EINTerval:EVENt<x>:LINBus:

SPOint?

< x > = 1, 2

<NRf> = 18.8 to 90.6(%)

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:

SPOINT 18.8

:TRIGGER:EINTERVAL:EVENT1:LINBUS:
SPOINT? -> :TRIGGER:EINTERVAL:EVENT1:

LINBUS:SPOINT 18.8E+00

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Function Queries all settings related to the logic trigger of the event.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC? ->

:TRIGGER:EINTERVAL:EVENT1:LOGIC:CLOCK:

POLARITY RISE; SOURCE A0; :TRIGGER: EINTERVAL: EVENT1: LOGIC: ESTATE:

POLARITY RISE; SOURCE A0; :TRIGGER:

EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATA:
BIT10ADDRESS:PATTERN "XXXXXXXXXXX";:

TRIGGER: EINTERVAL: EVENT1: LOGIC:

12CBUS:ADATA:BIT7ADDRESS:

PATTERN "XXXXXXXX";:TRIGGER:EINTERVAL: EVENT1:LOGIC:12CBUS:ADATA:BIT7APSUB:

ADDRESS: PATTERN "XXXXXXXX";:TRIGGER:

EINTERVAL: EVENT1: LOGIC: I2CBUS: ADATA:

BIT7APSUB:SADDRESS:PATTERN "XXXXXXXX";:

TRIGGER:EINTERVAL:EVENT1:LOGIC:12CBUS:
ADATA:TYPE BIT7ADDRESS;:TRIGGER:

EINTERVAL: EVENT1: LOGIC: I2CBUS: CLOCK:

SOURCE A0;:TRIGGER:EINTERVAL:EVENT1:

LOGIC:12CBUS:DATA:BYTE 1;

CONDITION TRUE; DPOSITION 0; MODE 0;

PATTERN1 "XXXXXXXX"; PATTERN2 "XXXXXXXX"; PATTERN3 "XXXXXXXXX"; PATTERN4 "XXXXXXXXX";

PMODE DONTCARE; SOURCE A1; :TRIGGER:

EINTERVAL: EVENT1: LOGIC: I2CBUS: GCALL:

BIT7MADDRESS:PATTERN "XXXXXXX1";:

TRIGGER: EINTERVAL: EVENT1: LOGIC: I2CBUS:

GCALL:SBYTE DONTCARE.....

# :TRIGger:EINTerval:EVENt<x>:LOGic:CLOCk?

Function Queries all settings related to the logic trigger clock.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

CLOCk?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

CLOCK? -> :TRIGGER:EINTERVAL:EVENT1:
LOGIC:CLOCK:POLARITY RISE;SOURCE A0

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### CLOCk: POLarity

Function Sets the polarity of the logic trigger clock or queries

the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

CLOCk:POLarity {FALL|RISE}

:TRIGger:EINTerval:EVENt<x>:LOGic:

CLOCk: POLarity?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

CLOCK: POLARITY FALL

:TRIGGER:EINTERVAL:EVENT1:LOGIC: CLOCK:POLARITY? -> :TRIGGER:EINTERVAL:

EVENT1:LOGIC:CLOCK:POLARITY FALL

## :TRIGger:EINTerval:EVENt<x>:LOGic: CLOCk:SOURce

Function Sets the clock source of the logic trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

 $\texttt{CLOCk:SOURce } \left\{ \texttt{A} < \texttt{y} > \left| \texttt{B} < \texttt{y} > \right| \texttt{C} < \texttt{y} > \left| \texttt{D} < \texttt{y} > \right| \right.$ 

DONTcare }

<y> = 0 to 7

:TRIGger:EINTerval:EVENt<x>:LOGic:

CLOCk:SOURce? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

CLOCK: SOURCE A0

:TRIGGER:EINTERVAL:EVENT1:LOGIC: CLOCK:SOURCE? -> :TRIGGER:EINTERVAL:

EVENT1:LOGIC:CLOCK:SOURCE A0

Description For the SB5310, only {A<y>|DONTcare} are valid.

## :TRIGger:EINTerval:EVENt<x>:LOGic: ESTate?

Function Queries all settings related to the edge/state trigger of the logic.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

ESTate? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

ESTATE? -> :TRIGGER:EINTERVAL:EVENT1:
LOGIC:ESTATE:POLARITY RISE;SOURCE A0

#### ESTate: POLarity

Function Sets the polarity of the edge/state trigger of the logic or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

ESTate:POLarity {ENTer|EXIT|FALL|RISE}

:TRIGger:EINTerval:EVENt<x>:LOGic:

ESTate: POLarity?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

ESTATE: POLARITY ENTER

:TRIGGER:EINTERVAL:EVENT1:LOGIC:

ESTATE:POLARITY? -> :TRIGGER:EINTERVAL:

EVENT1:LOGIC:

ESTATE: POLARITY ENTER

Description• {ENTer|EXIT} is valid if :TRIGger:EINTerval: EVENt<x>:TYPE LState.

• {FALL|RISE} is valid if not :TRIGger:EINTerval: EVENt<x>:TYPE LState.

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### ESTate: SOURce

Function Sets the edge/state trigger source of the logic or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

ESTate:SOURce {A<y>|B<y>|C<y>|D<y>}
:TRIGger:EINTerval:EVENt<x>:LOGic:

ESTate:SOURce? <x> = 1 or 2 <y> = 0 to 7

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

ESTATE: SOURCE A0

:TRIGGER:EINTERVAL:EVENT1:LOGIC:

ESTATE:SOURCE? -> :TRIGGER:EINTERVAL:

EVENT1:LOGIC:ESTATE:SOURCE A0

Description For the SB5310, only {A<y>} are valid.

## :TRIGger:EINTerval:EVENt<x>:LOGic: I2CBus?

Function Queries all settings related to the logic I<sup>2</sup>C bus trigger for each event.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:ADATA:BIT10ADDRESS:

PATTERN "10111011111";:TRIGGER:

EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATA:

BIT7ADDRESS:PATTERN "11011110";:

TRIGGER: EINTERVAL: EVENT1: LOGIC: I2CBUS:

ADATA:BIT7APSUB:ADDRESS:

PATTERN "10101011";:TRIGGER:EINTERVAL:

EVENT1:LOGIC:I2CBUS:ADATA:BIT7APSUB:

SADDRESS: PATTERN "10101011";:

TRIGGER: EINTERVAL: EVENT1: LOGIC: I2CBUS:

ADATA: TYPE BIT7ADDRESS; : TRIGGER:

EINTERVAL: EVENT1: LOGIC: I2CBUS: CLOCK:

SOURCE A0;:TRIGGER:EINTERVAL:EVENT1:

LOGIC:12CBUS:DATA:BYTE 1;

CONDITION FALSE; DPOSITION 1; MODE 1;

PATTERN1 "10101011";

PATTERN2 "XXXXXXXX";

PATTERN3 "XXXXXXXX";

PATTERN4 "XXXXXXXX"; PMODE DONTCARE;

SOURCE A0;:TRIGGER:EINTERVAL:EVENT1:

LOGIC:12CBUS:GCALL:BIT7MADDRESS:

PATTERN "1010101";:TRIGGER:EINTERVAL:

EVENT1:LOGIC:I2CBUS:GCALL:

SBYTE BIT7MADDRESS;:TRIGGER:EINTERVAL:

EVENT1:LOGIC:I2CBUS:MODE ADATA;

NAIGNORE: HSMODE 1; RACCESS 1; SBYTE 1;:

TRIGGER: EINTERVAL: EVENT1: LOGIC: I2CBUS:

SBHSMODE: TYPE HSMODE

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#### I2CBus: ADATa?

Queries all settings related to the address of the logic Function

I<sup>2</sup>C bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

> I2CBus:ADATa? < x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS: ADATA?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

12CBUS:ADATA:BIT10ADDRESS:

PATTERN "10111011111"; : TRIGGER:

EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATA:

BIT7ADDRESS:PATTERN "11011110";:

TRIGGER: EINTERVAL: EVENT1: LOGIC: I2CBUS:

ADATA:BIT7APSUB:ADDRESS:

PATTERN "10101011";:TRIGGER:EINTERVAL: EVENT1:LOGIC:I2CBUS:ADATA:BIT7APSUB: SADDRESS: PATTERN "10101011"; :TRIGGER: EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATA:

TYPE BIT7ADDRESS

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus: ADATa: BIT10address?

Function Queries all settings related to the 10-bit address of

the logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:ADATa:BIT10address?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

ADATA: BIT10ADDRESS?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS: ADATA: BIT10ADDRESS: PATTERN "10111011111"

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:ADATa:BIT10address:HEXA

Function Sets the 10-bit address of the logic I<sup>2</sup>C bus trigger in

hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:ADATa:BIT10address:HEXA

{<string>} < x > = 1 or 2

<string> = combination of 3 characters (0-F, and X),

where bit 8 is R/W bit.

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:ADATA:BIT10ADDRESS:HEXA "7AB"

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:ADATa:BIT10address:PATTern

Sets the 10-bit address of the logic I2C bus trigger in Function

binary notation or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:ADATa:BIT10address:PATTern

{<string>}

:TRIGger:EINTerval:EVENt<x>:LOGic: I2CBus:ADATa:BIT10address:PATTern?

< x > = 1 or 2

<string> = combination of 11 characters (0, 1, and X),

where bit 8 is R/W bit.

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

12CBUS:ADATA:BIT10ADDRESS:

PATTERN "10111011111"

:TRIGGER:EINTERVAL:EVENT1:LOGIC: 12CBUS:ADATA:BIT10ADDRESS:PATTERN? -> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

12CBUS:ADATA:BIT10ADDRESS: PATTERN "10111011111"

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:ADATa:BIT7ADdress?

Queries all settings related to the 7-bit address of the Function

logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:ADATa:BIT7ADdress?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS: ADATA: BIT7ADDRESS?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC: I2CBUS: ADATA: BIT7ADDRESS: PATTERN

"11011110"

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:ADATa:BIT7ADdress:HEXA

Function Sets the 7-bit address of the logic I<sup>2</sup>C bus trigger in

hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:ADATa:BIT7ADdress:HEXA

{<string>}

< x > = 1 or 2

<string> = combination of 2 characters (0-F, and X),

where bit 0 is  $R/\overline{W}$  bit.

:TRIGGER:EINTERVAL:EVENT1:LOGIC: Example

I2CBUS:ADATA:BIT7ADDRESS:HEXA "DE"

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#### I2CBus:ADATa:BIT7ADdress:PATTern

Function Sets the 7-bit address of the logic I<sup>2</sup>C bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:ADATa:BIT7ADdress:

PATTern {<string>}

:TRIGger:EINTerval:EVENt<x>:LOGic: I2CBus:ADATa:BIT7ADdress:PATTern?

< x > = 1 or 2

<string> = combination of 8 characters (0, 1, and X), where bit 0 is  $R\overline{W}$  bit.

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:ADATA:BIT7ADDRESS:PATTERN

"11011110"

:TRIGGER:EINTERVAL:EVENT1:LOGIC:
I2CBUS:ADATA:BIT7ADDRESS:PATTERN?
-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:ADATA:BIT7ADDRESS:

PATTERN "11011110"

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:ADATa:BIT7APsub?

Function Queries all settings related to the 7-bit + Sub address of the logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:ADATa:BIT7APsub?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

12CBUS:ADATA:BIT7APSUB?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC: I2CBUS:ADATA:BIT7APSUB:ADDRESS:

PATTERN "10101011";:TRIGGER:EINTERVAL: EVENT1:LOGIC:I2CBUS:ADATA:BIT7APSUB:

SADDRESS:PATTERN "10101011"

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:ADATa:BIT7APsub:ADDRess?

Function Queries all settings related to the 7-bit address of the

7-bit + Sub address of the logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:ADATa:BIT7APsub:ADDRess?

< x > = 1 or 2

Example : TRIGGER:EINTERVAL:EVENT1:LOGIC:

12CBUS:ADATA:BIT7APSUB:ADDRESS?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

12CBUS:ADATA:BIT7APSUB:ADDRESS:

PATTERN "10101011"

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:ADATa:BIT7APsub:ADDRess:HEXA

Function Sets the 7-bit address of the 7-bit + Sub address of the logic  $I^2C$  bus trigger in hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:ADATa:BIT7APsub:ADDRess:

HEXA {<string>}

< x > = 1 or 2

<string> = combination of 2 characters (0-F, and X),

where bit 0 is  $R/\overline{W}$  bit.

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

ADATA:BIT7APSUB:ADDRESS:HEXA "AB"

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:ADATa:BIT7APsub:ADDRess:PATTern

Function Sets the 7-bit address of the 7-bit + Sub address of the logic  $I^2C$  bus trigger in binary notation or queries

the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:ADATa:BIT7APsub:ADDRess:

PATTern {<string>}

:TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:ADATa:BIT7APsub:ADDRess:PATTern?

< x > = 1 or 2

<string> = combination of 8 characters (0, 1, and X),

where bit 0 is  $R/\overline{W}$  bit.

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:ADATA:BIT7APSUB:ADDRESS:

PATTERN "10101011"

:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

ADATA:BIT7APSUB:ADDRESS:PATTERN?
-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

12CBUS:ADATA:BIT7APSUB:ADDRESS:

PATTERN "10101011"

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:ADATa:BIT7APsub:SADDress?

Function Queries all settings related to the sub address of the 7-bit + Sub address of the logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:ADATa:BIT7APsub:SADDress?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

12CBUS:ADATA:BIT7APSUB:SADDRESS?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

12CBUS:ADATA:BIT7APSUB:SADDRESS:

PATTERN "10101011"

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#### I2CBus:ADATa:BIT7APsub:SADDress:HEXA

Function Sets the sub address of the 7-bit + Sub address of

the logic I<sup>2</sup>C bus trigger in hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:ADATa:BIT7APsub:SADDress:HEXA

{<string>} <x> = 1 or 2

<string> = Combination of up to 2 characters (0-F and

X)

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

ADATA:BIT7APSUB:SADDRESS:HEXA "EF"

# :TRIGger:EINTerval:EVENt<x>:LOGic: I2CBus:ADATa:BIT7APsub:SADDress: PATTern

Function Sets the sub address of the 7-bit + Sub address of the logic I<sup>2</sup>C bus trigger in binary notation or queries

the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:ADATa:BIT7APsub:SADDress:

PATTern {<string>}

:TRIGger:EINTerval:EVENt<x>:LOGic: I2CBus:ADATa:BIT7APsub:SADDress:

PATTern? <x> = 1 or 2

<string> = combination of 8 characters (0, 1, and X).

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

12CBUS:ADATA:BIT7APSUB:SADDRESS:

PATTERN "10101011"

 $: {\tt TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:}$ 

ADATA:BIT7APSUB:SADDRESS:PATTERN?
-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:
I2CBUS:ADATA:BIT7APSUB:SADDRESS:

PATTERN "10101011"

# :TRIGger:EINTerval:EVENt<x>:LOGic:

## I2CBus:ADATa:TYPE

Function Sets the address type of the logic I<sup>2</sup>C bus trigger or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:ADATa:TYPE {BIT10address|

BIT7ADdress | BIT7APsub }

:TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:ADATa:TYPE?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:ADATA:TYPE BIT10ADDRESS
:TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:ADATA:TYPE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC: I2CBUS:ADATA:TYPE BIT10ADDRESS

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:CLOCk?

Function Queries all settings related to the clock of the logic

I<sup>2</sup>C bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:CLOCk?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

CLOCK?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:CLOCK:SOURCE A0

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:CLOCk:SOURce

Function Sets the clock trace for the logic I<sup>2</sup>C bus trigger or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:CLOCk:SOURce {A<y>}

:TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:CLOCk:SOURce?

< x > = 1 or 2< y > = 0 to 7

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

CLOCK: SOURCE A0

:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

CLOCK: SOURCE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:CLOCK:SOURCE A0

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:DATA?

Function Queries all settings related to the data of the logic I<sup>2</sup>C

bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:DATA?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

DATA?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

12CBUS:DATA:BYTE 1;CONDITION FALSE;

DPOSITION 1; MODE 1; PATTERN1 "10101011";

PATTERN2 "XXXXXXXX";
PATTERN3 "XXXXXXXX";

PATTERN4 "XXXXXXXX"; PMODE DONTCARE;

SOURCE A0

#### I2CBus:DATA:BYTE

trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:DATA:BYTE {<NRf>}

:TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:DATA:BYTE?

< x > = 1 or 2< NRf > = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

DATA:BYTE 1

:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

DATA: BYTE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:DATA:BYTE 1

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:DATA:CONDition

Function Sets the determination method for the data of the

logic  $I^2C$  bus trigger (match / no match) or queries the

current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:DATA:CONDition {FALSe|TRUE}
:TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:DATA:CONDition?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

DATA: CONDITION FALSE

:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

DATA: CONDITION?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:DATA:CONDITION FALSE

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:DATA:DPOSition

Function Sets the pattern comparison position for the data of the logic I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:DATA:DPOSition {<NRf>}

:TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:DATA:DPOSition?

< x > = 1 or 2

<NRf>=0 to 9999

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

DATA:DPOSITION 1

:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

DATA: DPOSITION?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:DATA:DPOSITION 1

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:DATA:HEXA<x>

hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:DATA:HEXA<x> {<string>}

<x> of EVENt<x> = 1 or 2 <x> of HEXA<x> = 1 to 4

<string> = Combination of up to 2 characters (0-F and

X)

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

DATA:HEXA1 "AB"

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:DATA:MODE

Function Enables/disables the data conditions of the logic I<sup>2</sup>C

bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:DATA:MODE {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:DATA:MODE?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

DATA: MODE ON

:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

DATA: MODE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:DATA:MODE 1

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:DATA:PATTern<x>

Function Sets the data for the logic I<sup>2</sup>C bus trigger in binary

notation or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:DATA:PATTern<x> {<string>}

:TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:DATA:PATTern<x>?

<x> of EVENt<x> = 1 or 2

<x> of PATTern<x> = 1 to 4

<string> = combination of 8 characters (0, 1, and X).

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

DATA:PATTERN1 "10101011"

:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

DATA: PATTERN1?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:DATA:PATTERN1 "10101011"

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#### I2CBus:DATA:PMODe

Function Sets the pattern comparison start position for the

data of the logic I<sup>2</sup>C bus trigger or queries the current

setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:DATA:PMODe {DONTcare|SELect}
:TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:DATA:PMODe?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

DATA: PMODE DONTCARE

:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

DATA: PMODE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:DATA:PMODE DONTCARE

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:DATA:SOURce

Function Sets the data trace for the logic I<sup>2</sup>C bus trigger or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:DATA:SOURce {A<y>}

:TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:DATA:SOURce?

< x > = 1 or 2< y > = 0 to 7

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

DATA: SOURCE A0

:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

DATA:SOURCE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:DATA:SOURCE A0

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:GCAL1?

Function Queries all settings related to the general call of the

logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:GCAL1?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

GCALL?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:
I2CBUS:GCALL:BIT7MADDRESS:PATTERN
"1010101";:TRIGGER:EINTERVAL:EVENT1:
LOGIC:I2CBUS:GCALL:SBYTE BIT7MADDRESS

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:GCAL1:BIT7maddress?

Function Queries all settings related to the 7-bit master

address of the general call of the logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:GCAL1:BIT7maddress?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

GCALL:BIT7MADDRESS?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

12CBUS:GCALL:BIT7MADDRESS:

PATTERN "1010101"

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:GCAL1:BIT7maddress:HEXA

Function Sets the 7-bit master address of the general call of the logic  $l^2C$  bus trigger in hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:GCALl:BIT7maddress:

 $\texttt{HEXA} \ \{\texttt{<string>}\}$ 

< x > = 1 or 2

<string> = combination of 2 characters (0-F and X),

where bit 0 is fixed to '1.'

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

GCALL:BIT7MADDRESS:HEXA "AB"

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:GCAL1:BIT7maddress:PATTern

Function Sets the 7-bit master address of the general call of the logic I<sup>2</sup>C bus trigger in binary notation or queries

the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:GCAL1:BIT7maddress:PATTern

 $\{<\!\!\text{string}\!\!>\!\!\}$ 

:TRIGger:EINTerval:EVENt<x>:LOGic: I2CBus:GCALl:BIT7maddress:PATTern?

< x > = 1 or 2

 $\langle \text{string} \rangle = \text{combination of 7 characters } (0, 1, \text{ and } X).$ 

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

GCALL:BIT7MADDRESS:PATTERN "1010101"

:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

GCALL:BIT7MADDRESS:PATTERN?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

12CBUS:GCALL:BIT7MADDRESS:

PATTERN "1010101"

#### I2CBus:GCAL1:SBYTe (Second Byte)

Function Sets the type of the second byte of the general call of the logic I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:GCAL1:SBYTe {BIT7maddress|

DONTcare | H04 | H06 }

:TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:GCALl:SBYTe?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

12CBUS:GCALL:SBYTE BIT7MADDRESS
:TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:GCALL:SBYTE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:
I2CBUS:GCALL:SBYTE BIT7MADDRESS

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:MODE

Function Sets the trigger mode for the logic I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:MODE {ADATa|ESTart|GCAL1|

NAIGnore | SBHSmode }

:TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:MODE?

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

MODE ADATA

:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

MODE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:MODE ADATA

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:NAIGnore?

Function Queries all settings related to the NON-ACK Ignore mode of the logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:NAIGnore?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:NAIGNORE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC: I2CBUS:NAIGNORE:HSMODE 1;RACCESS 1;

SBYTE 1

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:NAIGnore:HSMode

Function Sets whether to ignore NON ACK in high speed mode of the logic I<sup>2</sup>C bus trigger or queries the current

setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

12CBus:NAIGnore:HSMode {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:NAIGnore:HSMode?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

NAIGNORE: HSMODE ON

:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

NAIGNORE: HSMODE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:NAIGNORE:HSMODE 1

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:NAIGnore:RACCess

Function Sets whether to ignore NON ACK in read access mode of the logic I<sup>2</sup>C bus trigger or queries the current setting.

 $\verb|Syntax| : \verb|TRIGger:EINTerval:EVENt<| x>: \verb|LOGic:|$ 

I2CBus:NAIGnore:RACCess {<Boolean>}
:TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:NAIGnore:RACCess?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

NAIGNORE: RACCESS ON

:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

NAIGNORE: RACCESS?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:NAIGNORE:RACCESS 1

## :TRIGger:EINTerval:EVENt<x>:LOGic:

## I2CBus:NAIGnore:SBYTe (Start Byte)

Function Sets whether to ignore NON ACK in the start byte of the logic I<sup>2</sup>C bus trigger or queries the current setting.

:TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:NAIGnore:SBYTe?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

NAIGNORE:SBYTE ON

:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

NAIGNORE: SBYTE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:NAIGNORE:SBYTE 1

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#### I2CBus:SBHSmode?

Function Queries all settings related to the start byte/high

speed mode of the logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:SBHSmode?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

SBHSMODE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:SBHSMODE:TYPE HSMODE

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### I2CBus:SBHSmode:TYPE

Function Sets the type of the start byte/high speed mode of the

logic I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

I2CBus:SBHSmode:TYPE {HSMode|SBYTe}
:TRIGger:EINTerval:EVENt<x>:LOGic:

12CBus:SBHSmode:TYPE?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

SBHSMODE: TYPE HSMODE

:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:

SBHSMODE: TYPE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

I2CBUS:SBHSMODE:TYPE HSMODE

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus?

Function Queries all settings related to the logic LIN bus signal

trigger of each event.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:
LINBUS:BLENGTH 11;BRATE 19200;ERROR:
CHECKSUM 0;DSIZE 8;FRAMING 0;PARITY 0;
SYNCH 0;TOUT 0;:TRIGGER:EINTERVAL:
EVENT1:LOGIC:LINBUS:IDDATA:DATA:
BORDER BIG;CONDITION DONTCARE;

DATA1 0.000000E+00;

DATA2 255.00000E+00;DSIZE 8;MSBLSB 7, 0;

EVENT1:LOGIC:LINBUS:IDDATA:ID:

PATTERN "XXXXXX";:TRIGGER:EINTERVAL:

EVENT1:LOGIC:LINBUS:IDOR:DSIZE 8;

IDDATA1:DATA:BORDER BIG;
CONDITION DONTCARE;

DATA1 0.0000000E+00;

DATA2 255.00000E+00; MSBLSB 7, 0;

LOGIC:LINBUS:IDOR:IDDATA1:ID:

PATTERN "XXXXXX";:TRIGGER:EINTERVAL:

EVENT1:LOGIC:LINBUS:IDOR:IDDATA1:

MODE 0....

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: BLENgth

Function Sets the logic LIN bus signal trigger Break length or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:BLENgth {<NRf>}

:TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: BLENgth?

< x > = 1, 2

<NRf> = 10 to 13

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

BLENGTH 10

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

BLENGTH? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC:LINBUS:BLENGTH 10

#### LINBus: BRATe

Function Sets the bit rate (data transfer rate) of the logic LIN

bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

> LINBus:BRATe { < NRf > | USER, < NRf > } :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: BRATe?

< x > = 1 or 2<NRf>=1200.2400.4800.9600.19200

<NRf> for USER = See the main unit user's manual.

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

BRATE 19200

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

LINBUS:BRATE 19200

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: ERRor?

Function Queries all settings related to the logic LIN bus signal

trigger error.

:TRIGger:EINTerval:EVENt<x>:LOGic: Syntax

LINBus: ERRor?

< x > = 1.2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

ERROR? -> :TRIGGER:EINTERVAL:EVENT1: LOGIC:LINBUS:ERROR:CHECKSUM 1;DSIZE 1;

FRAMING 1; PARITY 1; SYNCH 1; TOUT 1

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: ERRor: CHECksum

Function Sets the logic LIN bus signal trigger Checksum error

or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

> LINBus: ERRor: CHECksum { < Boolean > } :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: ERRor: CHECksum?

< x > = 1.2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

ERROR: CHECKSUM ON

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS: ERROR:CHECKSUM? -> :TRIGGER:EINTERVAL: EVENT1:LOGIC:LINBUS:ERROR:CHECKSUM 1

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: ERRor: DSIZe

Function Sets the number of error data bytes for the logic LIN

bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:ERRor:DSIZe {<NRf>}

:TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: ERRor: DSIZe?

< x > = 1, 2

< NRf > = 1 to 8

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

ERROR: DSIZE 1

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS: ERROR:DSIZE? -> :TRIGGER:EINTERVAL: EVENT1:LOGIC:LINBUS:ERROR:DSIZE 1

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: ERRor: FRAMing

Function Sets the logic LIN bus signal trigger Framing error or

queries the current setting

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

> LINBus: ERRor: FRAMing { < Boolean > } :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: ERRor: FRAMing?

< x > = 1.2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

ERROR: FRAMING ON

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS: ERROR:FRAMING? -> :TRIGGER:EINTERVAL: EVENT1:LOGIC:LINBUS:ERROR:FRAMING 1

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

## LINBus: ERRor: PARity

Sets the logic LIN bus signal trigger Parity error or Function

queries the current setting.

:TRIGger:EINTerval:EVENt<x>:LOGic: Syntax

> LINBus: ERRor: PARity { < Boolean > } :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: ERRor: PARity?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

ERROR: PARITY ON

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

ERROR:PARITY? -> :TRIGGER:EINTERVAL: EVENT1:LOGIC:LINBUS:ERROR:PARITY 1

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#### LINBus: ERRor: SYNCh

Function Sets the logic LIN bus signal trigger Synch error or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:ERRor:SYNCh {<Boolean>}
:TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: ERRor: SYNCh?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

ERROR: SYNCH ON

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS: ERROR:SYNCH? -> :TRIGGER:EINTERVAL:

EVENT1:LOGIC:LINBUS:ERROR:SYNCH 1

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: ERRor: TOUT

Function Sets the logic LIN bus signal trigger Timeout error or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:ERRor:TOUT {<Boolean>}
:TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: ERRor: TOUT?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

ERROR: TOUT ON

 $: {\tt TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:}$ 

ERROR:TOUT? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:LINBUS:ERROR:TOUT 1

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: IDData?

Function Queries all settings related to the IDData of the logic

LIN bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: IDData?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

LINBUS:IDDATA? -> :TRIGGER:EINTERVAL:

EVENT1:LOGIC:LINBUS:IDDATA:DATA:
BORDER BIG;CONDITION DONTCARE;

DATA1 0.0000000E+00;

SIGN UNSIGN;:TRIGGER:EINTERVAL:EVENT1:

LOGIC:LINBUS:IDDATA:ID:PATTERN "XXXXXX"

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: IDData: DATA?

Function Queries all settings related to the Data Field of the

logic LIN bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: IDData: DATA?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDDATA:DATA? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:LINBUS:IDDATA:DATA:

CONDITION BETWEEN; DSIZE 1;

PATTERN "11011111"

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus:IDData:DATA:BORDer

Function Sets the data byte order of the logic LIN bus signal

trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:IDData:DATA:BORDer {BIG|LITTle}

:TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:IDData:DATA:BORDer?

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDDATA:DATA:BORDER BIG

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDDATA:DATA:BORDER? -> :TRIGGER:

EINTERVAL:EVENT1:LOGIC:LINBUS:IDDATA:

DATA:BORDER BIG

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: IDData: DATA: CONDition

Function Sets the data conditions of the Data Field of the logic

LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:IDData:DATA:CONDition {BETWeen | DONTcare | FALSe | GTHan | LTHan | ORANge | TRUE }

:TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:IDData:DATA:CONDition?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDDATA: DATA: CONDITION BETWEEN

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDDATA:DATA:CONDITION? -> :TRIGGER: EINTERVAL:EVENT1:LOGIC:LINBUS:IDDATA:

DATA: CONDITION BETWEEN

#### 5.31 TRIGger Group :TRIGger:EINTerval:EVENt<x>:LOGic: :TRIGger:EINTerval:EVENt<x>:LOGic: LINBus:IDData:DATA:DATA<x> LINBus: IDData: DATA: HEXA Sets the data in the Data Field of the logic LIN bus Function Sets the comparison data of the logic LIN bus signal Function trigger data or queries the current setting. signal trigger in hexadecimal. Syntax :TRIGger:EINTerval:EVENt<x>:LOGic: Syntax :TRIGger:EINTerval:EVENt<x>:LOGic: LINBus:IDData:DATA:DATA<x> {<NRf>} LINBus:IDData:DATA:HEXA {<string>} :TRIGger:EINTerval:EVENt<x>:LOGic: < x > = 1.2<string> = Up to 64 characters by combining '0,' '1,' LINBus: IDData: DATA: DATA<x>? <x> of EVENt<x> = 1, 2 and 'X,' units of 1 byte < x > of DATA < x > = 1, 2Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS: <NRf> = See the SB5000 User's Manual IDDATA:DATA:HEXA "A9" Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS: IDDATA: DATA: DATA1 1 :TRIGger:EINTerval:EVENt<x>:LOGic: :TRIGGER:EINTERVAL:EVENT1:LOGIC: LINBus: IDData: DATA: MSBLsb LINBUS: IDDATA: DATA: DATA1? -> :TRIGGER: Sets the MSB/LSB bit of the logic LIN bus signal Function EINTERVAL:EVENT1:LOGIC:LINBUS:IDDATA: trigger or queries the current setting. DATA:DATA1 1.000000E+00 Syntax :TRIGger:EINTerval:EVENt<x>:LOGic: Description • For :TRIGger:EINTerval:EVENt<x>:LINBus:IDData: LINBus: IDData: DATA: DATA: CONDition GTHan, set using: TRIGger: MSBLsb {<NRf>, <NRf>} EINTerval:EVENt<x>:LINBus:IDData:DATA:DATA1. :TRIGger:EINTerval:EVENt<x>:LOGic: • For :TRIGger:EINTerval:EVENt<x>:LINBus:IDData: LINBus: IDData: DATA: MSBLsb? DATA: CONDition LTHan, set using: TRIGger: < x > = 1.2EINTerval:EVENt<x>:LINBus:IDData:DATA:DATA2. <NRf> = See the SB5000 User's Manual • For :TRIGger:EINTerval:EVENt<x>:LINBus:IDData: Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS: DATA:CONDition BETWeen|ORANge, set small IDDATA: DATA: MSBLSB 1, 0 values with: TRIGger:EINTerval:EVENt<x>:LINBus: :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS: IDData:DATA:DATA1, and large values with: IDDATA:DATA:MSBLSB? -> :TRIGGER: TRIGger:EINTerval:EVENt<x>:LINBus:IDData: EINTERVAL:EVENT1:LOGIC:LINBUS:IDDATA: DATA:DATA2. DATA:MSBLSB 1, 0 :TRIGger:EINTerval:EVENt<x>:LOGic: :TRIGger:EINTerval:EVENt<x>:LOGic: LINBus: IDData: DATA: DSIZe LINBus: IDData: DATA: PATTern Function Sets the number of bytes of data in the Data Field of Function Sets the data of the Data Field of the logic LIN bus the logic LIN bus signal trigger or queries the current signal trigger in binary or queries the current setting. setting. Syntax :TRIGger:EINTerval:EVENt<x>:LOGic: Syntax :TRIGger:EINTerval:EVENt<x>:LOGic: LINBus:IDData:DATA:PATTern {<string>} LINBus:IDData:DATA:DSIZe {<NRf>} :TRIGger:EINTerval:EVENt<x>:LOGic: :TRIGger:EINTerval:EVENt<x>:LOGic: LINBus: IDData: DATA: PATTern? LINBus: IDData: DATA: DSIZe? < x > = 1.2< x > = 1.2<string> =Up to 64 characters by combining '0,' '1,' < NRf > = 1 to 8and 'X,' units of 1 byte

IDDATA:DATA:DSIZE 1 IDDATA:DATA:PATTERN "11011111" :TRIGGER:EINTERVAL:EVENT1:LOGIC: :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS: LINBUS: IDDATA: DATA: DSIZE? -> : TRIGGER: IDDATA:DATA:PATTERN? -> :TRIGGER: EINTERVAL:EVENT1:LOGIC:LINBUS:IDDATA: EINTERVAL:EVENT1:LOGIC:LINBUS:IDDATA: DATA:DSIZE 1 DATA: PATTERN "11011111"

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

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#### LINBus: IDData: DATA: SIGN

Function Sets the data sign of the logic LIN bus signal trigger

or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:IDData:DATA:SIGN {SIGN|UNSign}
:TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: IDData: DATA: SIGN?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDDATA:DATA:SIGN SIGN

:TRIGGER:EINTERVAL:EVENT1:LOGIC:
LINBUS:IDDATA:DATA:SIGN? -> :TRIGGER:
EINTERVAL:EVENT1:LOGIC:LINBUS:IDDATA:

DATA:SIGN SIGN

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: IDData: ID?

Function Queries all settings related to the ID of the logic LIN

bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: IDData: ID?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDDATA:ID? -> :TRIGGER:EINTERVAL: EVENT1:LOGIC:LINBUS:IDDATA:ID:

PATTERN "101111"

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus:IDData:ID:HEXA

Function Sets the logic LIN bus signal trigger ID in

hexadecimal.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

 ${\tt LINBus:IDData:ID:HEXA} \ \{<\!\!\!\! \mathsf{string}\!\!\!> \}$ 

< x > = 1, 2

<string> =2 characters by combining '0,' to 'F,' and 'X,'

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDDATA: ID: HEXA "2A"

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: IDData: ID: PATTern

Function Sets the logic LIN bus signal trigger ID in binary or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:IDData:ID:PATTern {<string>}
:TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: IDData: ID: PATTern?

< x > = 1, 2

<string> = 6 characters by combining '0,' '1,' and 'X,'

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDDATA:ID:PATTERN "101111"
:TRIGGER:EINTERVAL:EVENT1:LOGIC:

LINBUS:IDDATA:ID:PATTERN? -> :TRIGGER: EINTERVAL:EVENT1:LOGIC:LINBUS:IDDATA:

ID:PATTERN "101111"

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: IDOR?

Function Queries all settings related to the OR condition of the

logic LIN bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:IDOR? <x> = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDOR? -> :TRIGGER:EINTERVAL:EVENT1:
LOGIC:LINBUS:IDOR:DSIZE 8;IDDATA1:DATA:

BORDER BIG; CONDITION DONTCARE;

DATA1 0.0000000E+00;

DATA2 255.00000E+00; MSBLSB 7, 0;

SIGN UNSIGN;:TRIGGER:EINTERVAL:EVENT1:

LOGIC:LINBUS:IDOR:IDDATA1:ID:

PATTERN "XXXXXX";:TRIGGER:EINTERVAL:

EVENT1:LOGIC:LINBUS:IDOR:IDDATA1:

MODE 0;:TRIGGER:EINTERVAL:EVENT1:

LOGIC:LINBUS:IDOR:IDDATA2:DATA:

BORDER BIG; CONDITION DONTCARE;

DATA1 0.0000000E+00;

DATA2 255.00000E+00; MSBLSB 7, 0;

SIGN UNSIGN....

#### LINBus: IDOR: DSIZe

Function Sets the number of bytes of data in the Data Field of the OR condition of the logic LIN bus signal trigger or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:IDOR:DSIZe {<NRf>}

:TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: IDOR: DSIZe?

<x> = 1, 2<NRf> = 1 to 8

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDOR:DSIZE 1

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:
IDOR:DSIZE? -> :TRIGGER:EINTERVAL:

EVENT1:LOGIC:LINBUS:IDOR:DSIZE 1

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus:IDOR:IDData<x>?

Function Queries all settings related to each IDData of the OR

condition of the logic LIN bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: IDOR: IDData<x>? <x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDOR:IDDATA1? -> :TRIGGER:EINTERVAL:

EVENT1:LOGIC:LINBUS:IDOR:IDDATA1:DATA:

BORDER BIG; CONDITION DONTCARE;

DATA1 0.0000000E+00;

DATA2 255.00000E+00; MSBLSB 7, 0;

SIGN UNSIGN;:TRIGGER:EINTERVAL:EVENT1:

LOGIC: LINBUS: IDOR: IDDATA1: ID:

PATTERN "XXXXXX";:TRIGGER:EINTERVAL:

EVENT1:LOGIC:LINBUS:IDOR:IDDATA1:

MODE 0

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: IDOR: IDData<x>: DATA?

Function Queries all settings related to each Data Field of the

OR condition of the logic LIN bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: IDOR: IDData<x>: DATA?

<x> of EVENt<x> = 1, 2
<x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

LINBUS:IDOR:IDDATA1:DATA? -> :TRIGGER:

EINTERVAL:EVENT1:LOGIC:LINBUS:IDOR:

IDDATA1:DATA:BORDER BIG;

CONDITION DONTCARE;

DATA1 0.000000E+00;

DATA2 255.00000E+00; MSBLSB 7, 0;

SIGN UNSIGN

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus:IDOR:IDData<x>:DATA:BORDer

Function Sets the byte order of each data of the OR conditions

of the logic LIN bus signal trigger or queries the

current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: IDOR: IDData<x>: DATA:

BORDer {BIG|LITTle}

:TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:IDOR:IDData<x>:DATA:BORDer?

<x> of EVENt<x> = 1, 2
<x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDOR:IDDATA1:DATA:BORDER BIG

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:
IDOR:IDDATA1:DATA:BORDER? -> :TRIGGER:

EINTERVAL: EVENT1: LOGIC: LINBUS: IDOR:

IDDATA1:DATA:BORDER BIG

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#### LINBus:IDOR:IDData<x>:DATA:CONDition

Sets the data condition of the Data Field of each OR Function condition of the logic LIN bus signal trigger or queries

the current setting.

:TRIGger:EINTerval:EVENt<x>:LOGic: Syntax

LINBus: IDOR: IDData<x>: DATA:

CONDition {BETWeen | DONTcare | FALSe |

GTHan | LTHan | ORANge | TRUE }

:TRIGger:EINTerval:EVENt<x>:LOGic: LINBus:IDOR:IDData<x>:DATA:CONDition?

<x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDOR: IDDATA1: DATA: CONDITION BETWEEN :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDOR: IDDATA1: DATA: CONDITION? ->

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDOR: IDDATA1: DATA: CONDITION BETWEEN

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: IDOR: IDData<x>: DATA: DATA<x>

Sets the comparison data of each data of the OR Function

conditions of the logic LIN bus signal trigger or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:IDOR:IDData<x>:DATA:

DATA<x> {<NRf>}

:TRIGger:EINTerval:EVENt<x>:LOGic: LINBus:IDOR:IDData<x>:DATA:DATA<x>?

<x> of EVENt<x> = 1. 2 <x> of IDData<x> = 1 to 4 < x > of DATA < x > = 1.2

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDOR:IDDATA1:DATA:DATA1 1

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS: IDOR:IDDATA1:DATA:DATA1? -> :TRIGGER: EINTERVAL:EVENT1:LOGIC:LINBUS:IDOR: IDDATA1:DATA:DATA1 1.0000000E+00

Description • For :TRIGger:EINTerval:EVENt<x>:LINBus:IDData: DATA: CONDition GTHan, set using: TRIGger: EINTerval:EVENt<x>:LINBus:IDData:DATA:DATA1.

- For :TRIGger:EINTerval:EVENt<x>:LINBus:IDData: DATA: CONDition LTHan, set using: TRIGger: EINTerval:EVENt<x>:LINBus:IDData:DATA:DATA2.
- For :TRIGger:EINTerval:EVENt<x>:LINBus: IDData:DATA:CONDition BETWeen|ORANge, set small values with: TRIGger:EINTerval:EVENt<x>: LINBus:IDData:DATA:DATA1, and large values with: TRIGger:EINTerval:EVENt<x>:LINBus: IDData:DATA:DATA2.

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: IDOR: IDData<x>: DATA: HEXA

Sets the data in each Data Field of the OR condition Function of the logic LIN bus signal trigger in hexadecimal.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: IDOR: IDData<x>: DATA:

HEXA {<string>} <x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4

<string> = Up to 16 characters by combining '0' to 'F'

and 'X,' units of 1 byte

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDOR:IDDATA1:DATA:HEXA "A9"

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus:IDOR:IDData<x>:DATA:MSBLsb

Function Sets the MSB/LSB bit of each data of the OR condition of the logic LIN bus signal trigger or queries the current setting.

:TRIGger:EINTerval:EVENt<x>:LOGic: Syntax

LINBus: IDOR: IDData<x>:DATA:

MSBLsb {<NRf>, <NRf>}

:TRIGger:EINTerval:EVENt<x>:LOGic: LINBus: IDOR: IDData<x>: DATA: MSBLsb?

<x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDOR:IDDATA1:DATA:MSBLSB 1, 0

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS: IDOR:IDDATA1:DATA:MSBLSB? -> :TRIGGER: EINTERVAL:EVENT1:LOGIC:LINBUS:IDOR:

IDDATA1:DATA:MSBLSB 1, 0

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: IDOR: IDData<x>: DATA: PATTern

Function Sets the data of each Data Field of the OR conditions of the logic LIN bus signal trigger or queries the current setting.

:TRIGger:EINTerval:EVENt<x>:LOGic: Syntax

LINBus: IDOR: IDData<x>:DATA:

PATTern {<string>}

:TRIGger:EINTerval:EVENt<x>:LOGic: LINBus: IDOR: IDData<x>: DATA: PATTern?

<x> of EVENt<x> = 1, 2

<x> of IDData<x> = 1 to 4

<string> = Up to 64 characters by combining '0,' '1,' and 'X.' units of 1 byte

Example

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDOR: IDDATA1: DATA: PATTERN "11011111" :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS: IDOR:IDDATA1:DATA:PATTERN? -> :TRIGGER: EINTERVAL:EVENT1:LOGIC:LINBUS:IDOR: IDDATA1:DATA:PATTERN "11011111"

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#### LINBus:IDOR:IDData<x>:DATA:SIGN

Sets the sign of each data of the OR conditions of Function the logic LIN bus signal trigger or queries the current

setting.

:TRIGger:EINTerval:EVENt<x>:LOGic: Syntax

LINBus: IDOR: IDData<x>: DATA:

SIGN {SIGN|UNSign}

:TRIGger:EINTerval:EVENt<x>:LOGic: LINBus: IDOR: IDData<x>: DATA: SIGN?

<x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDOR:IDDATA1:DATA:SIGN SIGN

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS: IDOR:IDDATA1:DATA:SIGN? -> :TRIGGER: EINTERVAL:EVENT1:LOGIC:LINBUS:IDOR:

IDDATA1:DATA:SIGN SIGN

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: IDOR: IDData<x>: ID?

Function Queries all settings related to each ID of the OR condition of the logic LIN bus signal trigger.

:TRIGger:EINTerval:EVENt<x>:LOGic: Syntax

LINBus: IDOR: IDData<x>: ID?

<x> of EVENt<x> = 1, 2 < x > of IDData < x > = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDOR:IDDATA1:ID? -> :TRIGGER:EINTERVAL: EVENT1:LOGIC:LINBUS:IDOR:IDDATA1:ID:

PATTERN "101010"

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus:IDOR:IDData<x>:ID:HEXA

Function Sets each ID of the OR conditions of the logic LIN bus signal trigger in hexadecimal.

:TRIGger:EINTerval:EVENt<x>:LOGic: Syntax

LINBus: IDOR: IDData<x>: ID:

HEXA {<string>} <x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4

<string> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDOR:IDDATA1:ID:HEXA "2A"

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus:IDOR:IDData<x>:ID:PATTern

Sets each ID of the OR conditions of the logic LIN bus Function signal trigger binary or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:IDOR:IDData<x>:ID:

PATTern {<string>}

:TRIGger:EINTerval:EVENt<x>:LOGic: LINBus:IDOR:IDData<x>:ID:PATTern?

<x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4

<string> = 6 characters by combining '0,' '1,' and 'X.'

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDOR:IDDATA1:ID:PATTERN "101111"

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS: IDOR:IDDATA1:ID:PATTERN? -> :TRIGGER: EINTERVAL:EVENT1:LOGIC:LINBUS:IDOR:

IDDATA1:ID:PATTERN "101111"

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: IDOR: IDData<x>: MODE

Function Enables (1) or disables (0) each condition for each OR condition of the logic LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic: LINBus:IDOR:IDData<x>:MODE {<Boolean>} :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: IDOR: IDData<x>: MODE?

<x> of EVENt<x> = 1, 2 <x> of IDData<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

IDOR: IDDATA1: MODE ON

:TRIGGER:EINTERVAL:EVENT1:LOGIC: LINBUS: IDOR: IDDATA1: MODE? -> : TRIGGER: EINTERVAL:EVENT1:LOGIC:LINBUS:IDOR:

IDDATA1:MODE 1

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus: MODE

Function Sets the logic LIN bus signal trigger mode or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: MODE {BSYNch|ERRor|IDData|IDOR} :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:MODE?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

MODE BSYNCH

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

MODE? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC:LINBUS:MODE BSYNCH

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#### LINBus: REVision

Function Sets the logic LIN bus signal trigger revision (1.3 or

2.0) or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:REVision {LIN1\_3|LIN2\_0} :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus: REVision?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

REVISION LIN1 3

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS: REVISION? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC:LINBUS:REVISION LIN1\_3

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus:SOURce

Function Sets the trigger source of the logic LIN bus signal

trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:SOURce {A<y>}

:TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:SOURce? <x> = 1 or 2

<y> = 0 to 7

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

SOURCE A0

 $: {\tt TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:}$ 

SOURCE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

LINBUS:SOURCE A0

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### LINBus:SPOint

Function Sets the logic LIN bus signal trigger sample point or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:SPOint {<NRf>}

:TRIGger:EINTerval:EVENt<x>:LOGic:

LINBus:SPOint?

< x > = 1, 2

<NRf> = 18.8 to 90.6(%)

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

SPOINT 18.8

:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:

SPOINT? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC:LINBUS:SPOINT 18.8E+00

## :TRIGger:EINTerval:EVENt<x>:LOGic: SPATtern? (Serial Pattern)

Function Queries all settings related to the logic serial pattern

trigger of each event.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

SPATtern? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN:BITRATE 1.0000000E+03;
CLOCK:MODE 1; POLARITY FALL; SOURCE A0;:

TRIGGER:EINTERVAL:EVENT1:LOGIC:
SPATTERN:CS 1;DATA:ACTIVE HIGH;

SOURCE A0;:TRIGGER:EINTERVAL:EVENT1:
LOGIC:SPATTERN:LATCH:SOURCE A0;

POLARITY FALL;:TRIGGER:EINTERVAL:

EVENT1:LOGIC:SPATTERN:
PATTERN "11001101111111"

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### SPATtern:BITRate

Function Sets the bit rate for the logic serial pattern trigger or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

SPATtern:BITRate {<NRf>}

:TRIGger:EINTerval:EVENt<x>:LOGic:

SPATtern:BITRate?

< x > = 1 or 2

<NRf>=1 to 50M(bps)

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN:BITRATE 1

:TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN:BITRATE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN:BITRATE 1.000E+00

Description This command is valid when :TRIGger:

EINTerval:EVENt<x>:LOGic:SPATtern:

CLOCk:MODE OFF.

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### SPATtern:CLEar

Function Clears (set to don't care) all patterns of the logic

serial pattern trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

SPATtern:CLEar
<x> = 1 or 2

<x> =

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN: CLEAR

## 5.31 TRIGger Group :TRIGger:EINTerval:EVENt<x>:LOGic: SPATtern: CLOCk? Function Queries all settings related to the clock for the logic serial pattern trigger. Syntax :TRIGger:EINTerval:EVENt<x>:LOGic: SPATtern:CLOCk? < x > = 1 or 2Example :TRIGGER:EINTERVAL:EVENT1:LOGIC: SPATTERN: CLOCK? -> :TRIGGER:EINTERVAL:EVENT1:LOGIC: SPATTERN: CLOCK: MODE 1; POLARITY FALL; SOURCE A0 :TRIGger:EINTerval:EVENt<x>:LOGic: SPATtern:CLOCk:MODE Function Enables/disables the clock for the logic serial analysis pattern trigger or queries the current setting. :TRIGger:EINTerval:EVENt<x>:LOGic: Syntax SPATtern:CLOCk:MODE {<Boolean>} :TRIGger:EINTerval:EVENt<x>:LOGic: SPATtern:CLOCk:MODE? < x > = 1 or 2Example :TRIGGER:EINTERVAL:EVENT1:LOGIC: SPATTERN: CLOCK: MODE ON :TRIGGER:EINTERVAL:EVENT1:LOGIC: SPATTERN: CLOCK: MODE? -> :TRIGGER:EINTERVAL:EVENT1:LOGIC: SPATTERN: CLOCK: MODE 1 :TRIGger:EINTerval:EVENt<x>:LOGic: SPATtern:CLOCk:POLarity Function Sets the polarity of the clock trace of the logic serial pattern trigger or queries the current setting. Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

:TRIGGER:EINTERVAL:EVENT<
x>:LOGic:
SPATTERN:CLOCK:POLARITY?

<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:
SPATTERN:CLOCK:POLARITY FALL
:TRIGGER:EINTERVAL:EVENT1:LOGIC:
SPATTERN:CLOCK:POLARITY?
-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN: CLOCK: POLARITY FALL

SPATtern:CLOCk:POLarity {FALL|RISE}

Description This command is valid when :TRIGger: EINTerval:EVENt<x>:LOGic:SPATtern: CLOCk:MODE ON.

```
:TRIGger:EINTerval:EVENt<x>:LOGic:
SPATtern:CLOCk:SOURce
         Sets the clock trace for the logic serial pattern trigger
Function
         or queries the current setting.
Syntax
         :TRIGger:EINTerval:EVENt<x>:LOGic:
         SPATtern:CLOCk:SOURce {A<y>}
         :TRIGger:EINTerval:EVENt<x>:LOGic:
         SPATtern:CLOCk:SOURce?
         < x > = 1 \text{ or } 2
         <y> = 0 to 7
Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:
         SPATTERN: CLOCK: SOURCE A0
         :TRIGGER:EINTERVAL:EVENT1:LOGIC:
         SPATTERN: CLOCK: SOURCE?
         -> :TRIGGER:EINTERVAL:EVENT1:LOGIC:
         SPATTERN: CLOCK: SOURCE A0
Description • This command is valid when :TRIGger:
```

## :TRIGger:EINTerval:EVENt<x>:LOGic: SPATtern:CS

Function Enables/disables the chip select for the logic serial

CLOCk:MODE ON.

EINTerval:EVENt<x>:LOGic:SPATtern:

	analysis pattern trigger or queries the current setting
Syntax	:TRIGger:EINTerval:EVENt <x>:LOGic:</x>
	<pre>SPATtern:CS {<boolean>}</boolean></pre>
	:TRIGger:EINTerval:EVENt <x>:LOGic:</x>
	SPATtern: CS?
	< x > = 1  or  2
Example	:TRIGGER:EINTERVAL:EVENT1:LOGIC:
	SPATTERN:CS ON
	:TRIGGER:EINTERVAL:EVENT1:LOGIC:
	SPATTERN: CS?
	-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:
	SPATTERN:CS 1

Description This command is valid when :TRIGger: EINTerval:EVENt<x>:LOGic:SPATtern: CLOCk:MODE ON

## :TRIGger:EINTerval:EVENt<x>:LOGic: SPATtern:DATA?

SPATtern:DATA?	
Function	Queries all settings related to the data for the logic
	serial pattern trigger.
Syntax	:TRIGger:EINTerval:EVENt <x>:LOGic:</x>
	SPATtern:DATA?
	< x > = 1  or  2
Example	:TRIGGER:EINTERVAL:EVENT1:LOGIC:
	SPATTERN: DATA?
	-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:
	SPATTERN: DATA: ACTIVE HIGH; SOURCE A0

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## :TRIGger:EINTerval:EVENt<x>:LOGic: SPATtern:DATA:ACTive

Function Sets the active level of the data for the logic serial

pattern trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

SPATtern:DATA:ACTive {HIGH|LOW}
:TRIGger:EINTerval:EVENt<x>:LOGic:

SPATtern:DATA:ACTive?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN: DATA: ACTIVE HIGH

:TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN: DATA: ACTIVE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN: DATA: ACTIVE HIGH

## :TRIGger:EINTerval:EVENt<x>:LOGic: SPATtern:DATA:SOURce

Function Sets the data rate for the logic serial pattern trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

SPATtern:DATA:SOURce {A<y>}

:TRIGger:EINTerval:EVENt<x>:LOGic:

SPATtern:DATA:SOURce?

< x > = 1 or 2< y > = 0 to 7

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN:DATA:SOURCE A0

 $: {\tt TRIGGER:EINTERVAL:EVENT1:LOGIC:}$ 

SPATTERN: DATA: SOURCE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN:DATA:SOURCE A0

## :TRIGger:EINTerval:EVENt<x>:LOGic: SPATtern:HEXA

Function Sets the pattern of the logic serial pattern trigger in

hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

SPATtern:HEXA {<string>}

< x > = 1 or 2

<string> = combination of up to 32 characters (0-F

and X)

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN: HEXA "ABCD"

## :TRIGger:EINTerval:EVENt<x>:LOGic: SPATtern:LATCh?

Function Queries all settings related to the latch for the logic serial pattern trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

SPATtern:LATCh?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN: LATCH?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC: SPATTERN:LATCH:SOURCE A0;POLARITY FALL

## :TRIGger:EINTerval:EVENt<x>:LOGic: SPATtern:LATCh:POLarity

Function Sets the polarity of the latch trace of the logic serial pattern trigger or queries the current setting.

:TRIGger:EINTerval:EVENt<x>:LOGic:

SPATtern:LATCh:POLarity?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN:LATCH:POLARITY FALL
:TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN:LATCH:POLARITY?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN:LATCH:POLARITY FALL

Description • This command is valid when :TRIGger:

EINTerval:EVENt<x>:LOGic:SPATtern:

CLOCk:MODE ON

• This command is valid when :TRIGger:

EINTerval:EVENt<x>:LOGic:SPATtern:

LATCh:SOURce DONTcare

## :TRIGger:EINTerval:EVENt<x>:LOGic: SPATtern:LATCh:SOURce

Function Sets the latch trace for the logic serial pattern trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

SPATtern:LATCh:SOURce {A<y>|DONTcare}
:TRIGger:EINTerval:EVENt<x>:LOGic:

SPATtern:LATCh:SOURce?

< x > = 1 or 2< y > = 0 to 7

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN:LATCH:SOURCE A0

:TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN: LATCH: SOURCE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN:LATCH:SOURCE A0

Description • This command is valid when :TRIGger:

EINTerval:EVENt<x>:LOGic:SPATtern:

CLOCk:MODE ON

## :TRIGger:EINTerval:EVENt<x>:LOGic: SPATtern:PATTern

Function Sets the pattern of the logic serial pattern trigger in

binary notation, or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

SPATtern:PATTern {<string>}

:TRIGger:EINTerval:EVENt<x>:LOGic:

SPATtern: PATTern?

< x > = 1 or 2

<string> = combination of up to 128 characters (0, 1,

and X)

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN: PATTERN "1100110111101111"

:TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPATTERN: PATTERN?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC: SPATTERN:PATTERN "11001101111101111"

## :TRIGger:EINTerval:EVENt<x>:LOGic: SPIBus?

Function Queries all settings related to the logic SPI bus trigger for each event.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

SPIBus? < x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPIBUS?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPIBUS:BITORDER LSBFIRST; CLOCK:

POLARITY FALL; SOURCE A0; : TRIGGER:

EINTERVAL:EVENT1:LOGIC:SPIBUS:CS:

ACTIVE HIGH; SOURCE A0; : TRIGGER:

EINTERVAL:EVENT1:LOGIC:SPIBUS:DATA1:

BYTE 1; CONDITION FALSE; DPOSITION 1;

PATTERN1 "10101011";

PATTERN2 "XXXXXXXX";

PATTERN3 "XXXXXXXX";

PATTERN4 "XXXXXXXX"; SOURCE A0;:

TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:

DATA2:BYTE 1; CONDITION TRUE;

DPOSITION 0; PATTERN1 "XXXXXXXX";

PATTERN2 "XXXXXXXX";

PATTERN3 "XXXXXXXX";

PATTERN4 "XXXXXXXX"; SOURCE A2;:

TRIGGER: EINTERVAL: EVENT1: LOGIC: SPIBUS:

MODE WIRE3

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### SPIBus:BITorder

Function Sets the bit order for the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

SPIBus:BITorder {LSBFirst|MSBFirst}

:TRIGger:EINTerval:EVENt<x>:LOGic:

SPIBus:BITorder?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:

BITORDER LSBFIRST

:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:

BITORDER?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPIBUS:BITORDER LSBFIRST

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#### SPIBus: CLOCk?

Function Queries all settings related to the clock of the logic

SPI bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

SPIBus:CLOCk?

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:

CLOCK?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC: SPIBUS:CLOCK:POLARITY FALL;SOURCE A0

## :TRIGger:EINTerval:EVENt<x>:LOGic: SPIBus:CLOCk:POLarity

Function Sets the polarity of the clock trace for the logic SPI

bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

SPIBus:CLOCk:POLarity {FALL|RISE}
:TRIGger:EINTerval:EVENt<x>:LOGic:

SPIBus:CLOCk:POLarity?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPIBUS:CLOCK:POLARITY FALL

:TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPIBUS:CLOCK:POLARITY?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPIBUS:CLOCK:POLARITY FALL

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### SPIBus:CLOCk:SOURce

Function Sets the clock trace for the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

 ${\tt SPIBus:CLOCk:SOURce} \ \, \big\{ {\tt A< y>} \big\} \\$ 

:TRIGger:EINTerval:EVENt<x>:LOGic:

SPIBus:CLOCk:SOURce?

<x> = 1 or 2<y> = 0 to 7

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:

CLOCK: SOURCE A0

:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:

CLOCK:SOURCE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPIBUS:CLOCK:SOURCE A0

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### SPIBus:CS?

Function Queries all settings related to the chip select of the logic SPI bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

SPIBus: CS? < x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:

CS?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC: SPIBUS:CS:ACTIVE HIGH;SOURCE A0

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### SPIBus:CS:ACTive

Function Sets the active level of the chip select for the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

SPIBus:CS:ACTive {HIGH|LOW}

:TRIGger:EINTerval:EVENt<x>:LOGic:

SPIBus:CS:ACTive?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:

CS:ACTIVE HIGH

:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:

CS:ACTIVE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPIBUS:CS:ACTIVE HIGH

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### SPIBus:CS:SOURce

Function Sets the chip select trace for the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

SPIBus:CS:SOURce  $\{A < y > \}$ 

:TRIGger:EINTerval:EVENt<x>:LOGic:

SPIBus:CS:SOURce?

< x > = 1 or 2< y > = 0 to 7

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:

CS:SOURCE A0

:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:

CS:SOURCE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPIBUS:CS:SOURCE A0

#### :TRIGger:EINTerval:EVENt<x>:LOGic: :TRIGger:EINTerval:EVENt<x>:LOGic: SPIBus:DATA<x>? SPIBus:DATA<x>:DPOSition Queries all settings related to each data of the logic Sets the pattern comparison start position for the Function Function SPI bus trigger. data of the logic SPI bus trigger or queries the current Syntax :TRIGger:EINTerval:EVENt<x>:LOGic: setting. SPIBus:DATA<x>? :TRIGger:EINTerval:EVENt<x>:LOGic: Syntax <x> of EVENt<x> = 1 or 2 SPIBus:DATA<x>:DPOSition {<NRf>} <x> of DATA<x> = 1 or 2 :TRIGger:EINTerval:EVENt<x>:LOGic: Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS: SPIBus:DATA<x>:DPOSition? <x> of EVENt<x> = 1 or 2 DATA1? -> :TRIGGER:EINTERVAL:EVENT1:LOGIC: <x> of DATA<x> = 1 or 2 SPIBUS: DATA1: BYTE 1; CONDITION FALSE; < NRf > = 0 to 9999Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS: DPOSITION 1; PATTERN1 "10101011"; PATTERN2 "XXXXXXXX"; DATA1:DPOSITION 1 PATTERN3 "XXXXXXXX"; :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS: PATTERN4 "XXXXXXXX"; SOURCE A0 DATA1:DPOSITION? Description DATA2 is only valid when :TRIGger: -> :TRIGGER:EINTERVAL:EVENT1:LOGIC: EINTerval:EVENt<x>:LOGic:SPIBus: SPIBUS: DATA1: DPOSITION 1 MODE WIRE4 :TRIGger:EINTerval:EVENt<x>:LOGic: :TRIGger:EINTerval:EVENt<x>:LOGic: SPIBus:DATA<x>:HEXA<x> SPIBus:DATA<x>:BYTE Function Sets the data of the logic SPI bus trigger in Sets the number of settings for each data of the logic hexadecimal notation. Function :TRIGger:EINTerval:EVENt<x>:LOGic: SPI bus trigger or queries the current setting. Syntax Syntax :TRIGger:EINTerval:EVENt<x>:LOGic: SPIBus:DATA<x>:HEXA<x> {<string>} SPIBus:DATA<x>:BYTE {<NRf>} <x> of EVENt<x> = 1 or 2 :TRIGger:EINTerval:EVENt<x>:LOGic: <x> of DATA<x> = 1 or 2 <x> of HEXA<x> = 1 to 4 SPIBus:DATA<x>:BYTE? <x> of EVENt<x> = 1 or 2 <string> = Combination of up to 2 characters (0-F and <x> of DATA<x> = 1 or 2 Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS: <NRf> = 1 to 4 Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS: DATA1:HEXA1 "AB" DATA1:BYTE 1 :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS: :TRIGger:EINTerval:EVENt<x>:LOGic: DATA1: BYTE? SPIBus:DATA<x>:PATTern<x> -> :TRIGGER:EINTERVAL:EVENT1:LOGIC: Sets each data of the logic SPI bus trigger in binary SPIBUS:DATA1:BYTE 1 notation or queries the current setting. Syntax :TRIGger:EINTerval:EVENt<x>:LOGic: :TRIGger:EINTerval:EVENt<x>:LOGic: SPIBus:DATA<x>:PATTern<x> {<string>} SPIBus:DATA<x>:CONDition :TRIGger:EINTerval:EVENt<x>:LOGic: Function Sets the determination method for the data of the SPIBus:DATA<x>:PATTern<x>? logic SPI bus trigger (match / no match) or queries <x> of EVENt<x> = 1 or 2 the current setting. <x> of DATA<x> = 1 or 2 Syntax :TRIGger:EINTerval:EVENt<x>:LOGic: <x> of PATTern<x> = 1 to 4 SPIBus:DATA<x>:CONDition {FALSe|TRUE} $\langle \text{string} \rangle = \text{combination of 8 characters (0, 1, and X)}.$ :TRIGger:EINTerval:EVENt<x>:LOGic: Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS: SPIBus:DATA<x>:CONDition? DATA1:PATTERN1 "10101011" <x> of EVENt<x> = 1 or 2 :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS: <x> of DATA<x> = 1 or 2 DATA1: PATTERN1? Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS: -> :TRIGGER:EINTERVAL:EVENT1:LOGIC: DATA1: CONDITION FALSE SPIBUS:DATA1:PATTERN1 "10101011" :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS: DATA1: CONDITION?

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-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPIBUS: DATA1: CONDITION FALSE

## :TRIGger:EINTerval:EVENt<x>:LOGic: SPIBus:DATA<x>:SOURce

Function Sets the trace of each data of the logic SPI bus

trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

SPIBus:DATA<x>:SOURce {A<y>}
:TRIGger:EINTerval:EVENt<x>:LOGic:

SPIBus:DATA<x>:SOURce? <x> of EVENt<x> = 1 or 2 <x> of DATA<x> = 1 or 2

<y> = 0 to 7

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:

DATA1:SOURCE A0

:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:

DATA1:SOURCE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPIBUS:DATA1:SOURCE A0

## :TRIGger:EINTerval:EVENt<x>:LOGic: SPIBus:MODE

Function Sets the wiring method (3-wire/4-wire) of the logic

SPI bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

SPIBus:MODE {WIRE3 | WIRE4}

:TRIGger:EINTerval:EVENt<x>:LOGic:

SPIBus:MODE? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:

MODE WIRES

:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:

MODE?

-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:

SPIBUS:MODE WIRE3

## :TRIGger:EINTerval:EVENt<x>:LOGic: STATe?

Function Queries all settings related to the logic state trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

STATe?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

STATE? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC:STATE:BIT:

A0 DONTCARE; A1 DONTCARE; A2 DONTCARE;

A3 DONTCARE; A4 DONTCARE; A5 DONTCARE;

A6 DONTCARE; A7 DONTCARE; B0 DONTCARE;

B1 DONTCARE; B2 DONTCARE; B3 DONTCARE;

B4 DONTCARE; B5 DONTCARE; B6 DONTCARE;

B7 DONTCARE; C0 DONTCARE; C1 DONTCARE;

C2 DONTCARE; C3 DONTCARE; C4 DONTCARE;

CZ DONICARE; C3 DONICARE; C4 DONICARE

C5 DONTCARE; C6 DONTCARE; C7 DONTCARE; D0 DONTCARE; D1 DONTCARE; D2 DONTCARE;

D3 DONTCARE;D4 DONTCARE;D5 DONTCARE;
D6 DONTCARE;D7 DONTCARE;LOGIC AND;

:TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE:

GROUP1: CONDITION DONTCARE;

PATTERN "XXXXXXXX";

:TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE:

GROUP2:CONDITION TRUE;
PATTERN "XXXXXXXX";

:TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE:

GROUP3:CONDITION TRUE;
PATTERN "XXXXXXXX";

:TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE:

GROUP4:CONDITION TRUE;
PATTERN "XXXXXXXX";

:TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE:

GROUP5: CONDITION DONTCARE;

PATTERN "";

:TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE:

TYPE BIT

## 

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE:
BIT? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC:STATE:

BIT:A0 DONTCARE;A1 DONTCARE;

A2 DONTCARE; A3 DONTCARE; A4 DONTCARE;

A5 DONTCARE; A6 DONTCARE; A7 DONTCARE;

B0 DONTCARE; B1 DONTCARE; B2 DONTCARE;

B3 DONTCARE; B4 DONTCARE; B5 DONTCARE;

B6 DONTCARE; B7 DONTCARE; C0 DONTCARE;

C1 DONTCARE; C2 DONTCARE; C3 DONTCARE;

C4 DONTCARE; C5 DONTCARE; C6 DONTCARE;

C7 DONTCARE; D0 DONTCARE; D1 DONTCARE;

D2 DONTCARE; D3 DONTCARE; D4 DONTCARE;

D5 DONTCARE; D6 DONTCARE; D7 DONTCARE;

LOGIC AND

## :TRIGger:EINTerval:EVENt<x>:LOGic: STATe:BIT:{A<y>|B<y>|C<y>|D<y>}

Function Sets the condition to be satisfied for the bit of the logic state trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

STATe:BIT:{A<y>|B<y>|C<y>|
D<y>}
{DONTcare|HIGH|LOW}

:TRIGger:EINTerval:EVENt<x>:LOGic: STATe:BIT:{A<y>|B<y>|C<y>|D<y>}?

<x> = 1 or 2<y> = 0 to 7

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE:

BIT:A0 DONTCARE

:TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE: BIT:A0? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC:STATE: BIT:A0 DONTCARE

Description For the SB5310, only {A<y>} are valid.

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### STATe:BIT:CLEar

Function Clears the entire condition to be satisfied for the bit of

the logic state trigger (set to don't care) or queries the

current setting.

 $\verb|Syntax| : \verb|TRIGger:EINTerval:EVENt<| x>: \verb|LOGic:|$ 

STATe:BIT:CLEar

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

STATE:BIT:CLEAR

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### STATe:BIT:LOGic

Function Sets the logic of the logic state trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

STATe:BIT:LOGic {AND | OR }

:TRIGger:EINTerval:EVENt<x>:LOGic:

STATe:BIT:LOGic?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE:

BIT:LOGIC AND

:TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE:

BIT:LOGIC? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:STATE:BIT:LOGIC AND

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### STATe: GROup < x > ?

Function Queries all settings related to the group of the logic state trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

STATe: GROup<x>? <x> of EVENt<x> = 1 or 2 <x> of GROup<x> = 1 to 5

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

STATE:GROUP1? -> :TRIGGER:EINTERVAL:

EVENT1:LOGIC:STATE:GROUP1:

CONDITION DONTCARE; PATTERN "11110000111

100001111000011110000"

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### STATe:GROup<x>:CLEar

Function Clears the entire condition to be satisfied for the group of the logic state trigger (set to don't care) or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

STATe:GROup<x>:CLEar <x> of EVENt<x> = 1 or 2 <x> of GROup<x> = 1 to 5

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE:

GROUP1:CLEAR

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## :TRIGger:EINTerval:EVENt<x>:LOGic: STATe:GROup<x>:CONDition

Function Sets the determination condition for the group of the logic state trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

STATe:GROup<x>:CONDition {DONTcare|

TRUE }

:TRIGger:EINTerval:EVENt<x>:LOGic:

STATe:GROup<x>:CONDition?
<x> of EVENt<x> = 1 or 2

<x> of GROup<x> = 1 to 5

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE:

GROUP1: CONDITION DONTCARE

:TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE:
GROUP1:CONDITION? -> :TRIGGER:EINTERVAL:

EVENT1:LOGIC:STATE:GROUP1:

CONDITION DONTCARE

## :TRIGger:EINTerval:EVENt<x>:LOGic: STATe:GROup<x>:HEXA

Function Sets the condition to be satisfied for the group of the

logic state trigger in hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

STATe:GROup<x>:HEXA {<String>}

<x> of EVENt<x> = 1 or 2
<x> of GROup<x> = 1 to 5

<String> = Up to 8 characters by combining '0' to 'F'

and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

STATE: GROUP1: HEXA "1A3F24CD"

Description If the number of bit mappings specified with :LOGic: GROup<x>:MAPPing is too large, the lower bits are set to X. If the number is too small, the top bits are

set.

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### STATe:GROup<x>:PATTern

Function Sets the condition to be satisfied for the group of the

logic state trigger in binary notation or queries the

current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

STATe:GROup<x>:PATTern {<String>}
:TRIGger:EINTerval:EVENt<x>:LOGic:

STATe: GROup<x>: PATTern?

<x> of EVENt<x> = 1 or 2

<x> of GROup<x> = 1 to 5

<String> = Up to 32 characters by combining '0', '1',

and 'X'

 ${\tt Example} \quad : {\tt TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE:}$ 

GROUP1:PATTERN "11110000111100001111

000011110000"

 $: {\tt TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE:}$ 

GROUP1:PATTERN? -> :TRIGGER:EINTERVAL:

EVENT1:LOGIC:STATE:GROUP1

:PATTERN "11110000111100001111000011110

000"

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### STATe: GROup < x > : SYMBol

Function Sets the symbol item for each group of the logic state

trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

STATe:GROup<x>:SYMBol {<string>}

<x> of EVENt<x> = 1, 2 <x> of GROup<x> = 1 to 5 <string> = Up to 16 characters

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE:

GROUP1:SYMBOL "TEST"

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### STATe: TYPE

Function Sets the setup type of the logic state trigger or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

STATe:TYPE {BIT|GROup}

:TRIGger:EINTerval:EVENt<x>:LOGic:

STATe: TYPE? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE:

TYPE BIT

:TRIGGER:EINTERVAL:EVENT1:LOGIC:STATE:

TYPE? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC:STATE:TYPE BIT

#### :TRIGger:EINTerval:EVENt<x>:LOGic:

#### UART?

Function Queries all settings related to the logic UART bus

signal trigger of each event.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:UART?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

UART? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC:UART:BRATE 19200;DATA: BITORDER LSBFIRST;DSIZE 1;

PATTERN "X0101001";:TRIGGER:EINTERVAL: EVENT1:LOGIC:UART:ERROR:FRAMING 1;

PARITY 1; PMODE EVEN; :TRIGGER: EINTERVAL: EVENT1:LOGIC:UART: FORMAT BIT7PARITY;

MODE DATA; POLARITY NEGATIVE; SOURCE A0; SPOINT 18.8E+00

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## :TRIGger:EINTerval:EVENt<x>:LOGic: UART:BRATe

Function Sets the logic UART bus signal trigger bit rate (data transfer rate) or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:UART:

BRATe {<NRf>|USER, <NRf>}

:TRIGger:EINTerval:EVENt<x>:LOGic:UART:

BRATe? <x> = 1, 2

<NRf> = 1200, 2400, 4800, 9600, 19200, 38400,

57600, 115200

<NRf> of USER = See the SB5000 User's Manual

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:UART:

BRATE 19200

:TRIGGER:EINTERVAL:EVENT1:LOGIC:UART: BRATE? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC:UART:BRATE 19200

## :TRIGger:EINTerval:EVENt<x>:LOGic: UART:DATA?

Function Queries all settings related to data of the logic UART bus signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:UART:

DATA? < x > = 1.2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:UART:

DATA? -> :TRIGGER:EINTERVAL:EVENT1:
LOGIC:UART:DATA:BITORDER LSBFIRST;
DSIZE 1;PATTERN "X0101001"

## :TRIGger:EINTerval:EVENt<x>:LOGic: UART:DATA:BITorder

Function Sets the data bit order of the logic UART bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:UART:

DATA:BITorder {LSBFirst | MSBFirst}
:TRIGger:EINTerval:EVENt<x>:LOGic:UART:

DATA:BITorder?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:UART:

DATA:BITORDER LSBFIRST

:TRIGGER:EINTERVAL:EVENT1:LOGIC:UART: DATA:BITORDER? -> :TRIGGER:EINTERVAL:

EVENT1:LOGIC:UART:DATA:

BITORDER LSBFIRST

## :TRIGger:EINTerval:EVENt<x>:LOGic: UART:DATA:DSIZe

Function Sets the number of data bytes of the logic UART bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:UART:

DATA:DSIZe {<NRf>}

:TRIGger:EINTerval:EVENt<x>:LOGic:UART:

DATA:DSIZe? <x> = 1, 2 <NRf> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:UART:

DATA:DSIZE 1

:TRIGGER:EINTERVAL:EVENT1:LOGIC:UART: DATA:DSIZE? -> :TRIGGER:EINTERVAL: EVENT1:LOGIC:UART:DATA:DSIZE 1

## :TRIGger:EINTerval:EVENt<x>:LOGic: UART:DATA:HEXA

Function Sets the logic UART bus signal trigger data in hexadecimal.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:UART:

DATA:HEXA {<string>}

< x > = 1.2

<string> = Up to 8 characters by combining '0' to 'F'

and 'X,' units of 1 byte

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:UART:

DATA:HEXA "A9"

## :TRIGger:EINTerval:EVENt<x>:LOGic: UART:DATA:PATTern

Function Sets the data of the logic UART bus signal trigger in binary or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:UART:

DATA:PATTern {<string>}

:TRIGger:EINTerval:EVENt<x>:LOGic:UART:

DATA:PATTern?

< x > = 1, 2

<string> = Up to 32 characters by combining '0,' 'F,'

and 'X,' units of 1 byte

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:UART:

DATA:PATTERN "11011111"

:TRIGGER:EINTERVAL:EVENT1:LOGIC:UART: DATA:PATTERN? -> :TRIGGER:EINTERVAL:

EVENT1:LOGIC:UART:DATA:PATTERN

"11011111"

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## :TRIGger:EINTerval:EVENt<x>:LOGic: UART:ERRor?

Function Queries all settings related to the logic UART bus signal trigger error.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:UART:

ERRor? <x> = 1.2

 ${\tt Example} \quad : {\tt TRIGGER:EINTERVAL:EVENT1:LOGIC:UART:}$ 

ERROR? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC:UART:ERROR:FRAMING 1; PARITY 1;PMODE EVEN

## :TRIGger:EINTerval:EVENt<x>:LOGic: UART:ERRor:FRAMing

Function Sets the logic UART bus signal trigger Framing error or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:UART:

ERRor:FRAMing {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:LOGic:UART:

ERRor:FRAMing?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:UART:

ERROR: FRAMING ON

:TRIGGER:EINTERVAL:EVENT1:LOGIC:UART: ERROR:FRAMING? -> :TRIGGER:EINTERVAL: EVENT1:LOGIC:UART:ERROR:FRAMING 1

## :TRIGger:EINTerval:EVENt<x>:LOGic: UART:ERRor:PARity

Function Sets the logic UART bus signal trigger Parity error or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:UART:

ERRor:PARity {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:LOGic:UART:

ERRor:PARity?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:UART:

ERROR: PARITY ON

:TRIGGER:EINTERVAL:EVENT1:LOGIC:UART: ERROR:PARITY? -> :TRIGGER:EINTERVAL: EVENT1:LOGIC:UART:ERROR:PARITY 1

## :TRIGger:EINTerval:EVENt<x>:LOGic:

#### UART: ERRor: PMODe

Function Sets the logic UART bus signal trigger Parity mode or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:UART:

ERRor:PMODe {EVEN|ODD}

:TRIGger:EINTerval:EVENt<x>:LOGic:UART:

ERRor: PMODe?

 $\langle x \rangle = 1, 2$ 

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:UART:

ERROR: PMODE EVEN

:TRIGGER:EINTERVAL:EVENT1:LOGIC:UART: ERROR:PMODE? -> :TRIGGER:EINTERVAL: EVENT1:LOGIC:UART:ERROR:PMODE EVEN

## :TRIGger:EINTerval:EVENt<x>:LOGic: UART:FORMat

Function Sets the logic UART bus signal trigger format or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:UART:

FORMat {BIT7parity|BIT8Noparity|

BIT8Parity}

:TRIGger:EINTerval:EVENt<x>:LOGic:UART:

FORMat? <x> = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:UART:

FORMAT BIT7PARITY

:TRIGGER:EINTERVAL:EVENT1:LOGIC:UART: FORMAT? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC: UART: FORMAT BIT7PARITY

## :TRIGger:EINTerval:EVENt<x>:LOGic: UART:MODE

Function Sets the logic UART bus signal trigger mode or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:UART:

MODE {DATA|ERROr}

:TRIGger:EINTerval:EVENt<x>:LOGic:UART:

MODE?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:UART:

MODE DATA

:TRIGGER:EINTERVAL:EVENT1:LOGIC:UART:
MODE? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC: UART: MODE DATA

# :TRIGger:EINTerval:EVENt<x>:LOGic: UART:POLarity

Function Sets the logic UART bus signal trigger polarity or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:UART:

POLarity {NEGative | POSitive}

:TRIGger:EINTerval:EVENt<x>:LOGic:UART:

POLarity? <x> = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:UART:

POLARITY NEGATIVE

:TRIGGER:EINTERVAL:EVENT1:LOGIC:UART:
POLARITY? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC: UART: POLARITY NEGATIVE

# :TRIGger:EINTerval:EVENt<x>:LOGic: UART:SOURce

Function Sets the logic UART bus signal trigger source or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:UART:

SOURce {A<y>}

:TRIGger:EINTerval:EVENt<x>:LOGic:UART:

SOURce? <x> = 1, 2 <y> = 0 to 7

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:UART:

SOURCE A0

:TRIGGER:EINTERVAL:EVENT1:LOGIC:UART: SOURCE? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC: UART: SOURCE A0

# :TRIGger:EINTerval:EVENt<x>:LOGic: UART:SPOint

Function Sets the logic UART bus signal trigger sample point

or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:UART:

SPOint {<NRf>}

:TRIGger:EINTerval:EVENt<x>:LOGic:UART:

SPOint? <x> = 1, 2

<NRf> = 18.8 to 90.6(%)

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:UART:

SPOINT 18.8

 $: {\tt TRIGGER:EINTERVAL:EVENT1:LOGIC:UART:}$ 

SPOINT? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC:UART:SPOINT 18.8E+00

# :TRIGger:EINTerval:EVENt<x>:LOGic: WIDTh?

Function Queries all settings related to the logic pulse width

trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

WIDTh? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

WIDTH? -> :TRIGGER:EINTERVAL:EVENT1:
LOGIC:WIDTH:MODE OUT;POLARITY POSITIVE;

SOURCE A0; TIME1 1.0000000E-09;

TIME2 1.0000000E-09

# :TRIGger:EINTerval:EVENt<x>:LOGic: WIDTh:MODE

Function Sets the determination mode of the logic pulse width trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

WIDTh: MODE {BETWeen | IN | NOTBetween |

OUT | TIMeout }

:TRIGger:EINTerval:EVENt<x>:LOGic:

WIDTh: MODE? < x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:WIDTH:

MODE BETWEEN

:TRIGGER:EINTERVAL:EVENT1:LOGIC:WIDTH:
MODE? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC:WIDTH:MODE BETWEEN

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# :TRIGger:EINTerval:EVENt<x>:LOGic: WIDTh:POLarity

Function Sets the polarity of the logic pulse width trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

WIDTh: POLarity {FALSe | NEGative |

POSitive | TRUE }

:TRIGger:EINTerval:EVENt<x>:LOGic:

WIDTh: POLarity?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:WIDTH:

POLARITY FALSE

:TRIGGER:EINTERVAL:EVENT1:LOGIC:WIDTH:
POLARITY? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC: WIDTH: POLARITY FALSE

Description • {FALSe|TRUE} is valid if :TRIGger:EINTerval: EVENt<x>:TYPE LPState.

 {NEGative|POSitive} is valid if :TRIGger:EINTerval: EVENt<x>:TYPE LPULse.

# :TRIGger:EINTerval:EVENt<x>:LOGic:

### WIDTh: SOURce

Function Sets the trigger source of the logic pulse width trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

WIDTh:SOURce {A<y>|B<y>|C<y>|D<y>}
:TRIGger:EINTerval:EVENt<x>:LOGic:

WIDTh: SOURce? <x> = 1 or 2 <y> = 0 to 7

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:WIDTH:

SOURCE A0

:TRIGGER:EINTERVAL:EVENT1:LOGIC:WIDTH:
SOURCE? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC: WIDTH: SOURCE A0

Description For the SB5310, only {A<y>} are valid.

## :TRIGger:EINTerval:EVENt<x>:LOGic:

### WIDTh:TIME<x>

Function Sets the logic pulse width of the pulse width trigger or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:LOGic:

WIDTh:TIME<x> {<Time>}

:TRIGger:EINTerval:EVENt<x>:LOGic:

WIDTh:TIME<x>? <x> of EVENt<x> = 1 or 2 <x> of TIME<x> = 1 or 2

<Time> = 1 ns to 10 s (500 ps steps)

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:

WIDTH:TIME1 1S

:TRIGGER:EINTERVAL:EVENT1:LOGIC:WIDTH:
TIME1? -> :TRIGGER:EINTERVAL:EVENT1:

LOGIC:WIDTH:TIME1 1.000E+00

Description TIME2 is valid if :TRIGger:EINTerval:

EVENt<x>:WIDTh:MODE BETWeen|NOTBetween.

# :TRIGger:EINTerval:EVENt<x>:SPATtern? (Serial Pattern)

Function Queries all settings related to the serial pattern trigger

of the event.

Syntax :TRIGger:EINTerval:EVENt<x>:SPATtern?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPATTERN?

-> :TRIGGER:EINTERVAL:EVENT1:SPATTERN:

BITRATE 1.000E+00; CLOCK: MODE 1;
POLARITY FALL; SOURCE 1;:TRIGGER:
EINTERVAL: EVENT1: SPATTERN: CS 1; DATA:

ACTIVE HIGH; SOURCE 1; :TRIGGER: EINTERVAL: EVENT1: SPATTERN: LATCH: SOURCE 1; POLARITY FALL; :TRIGGER:

EINTERVAL: EVENT1: SPATTERN: PATTERN "110011011111011111"

# :TRIGger:EINTerval:EVENt<x>:SPATtern: BITRate

Function Sets the bit rate of the serial pattern trigger or queries

the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:SPATtern:

BITRate {<NRf>}

:TRIGger:EINTerval:EVENt<x>:SPATtern:

BITRate? <x> = 1 or 2

<NRf> = 1 to 50M (bps)

Example :TRIGGER:EINTERVAL:EVENT1:SPATTERN:

BITRATE 1

:TRIGGER:EINTERVAL:EVENT1:SPATTERN:
BITRATE? -> :TRIGGER:EINTERVAL:EVENT1:

SPATTERN:BITRATE 1.000E+00

Description This command is valid when :TRIGger:EINTerval:

EVENt<x>:SPATtern:CLOCk:

MODE OFF.

# :TRIGger:EINTerval:EVENt<x>:SPATtern: CLEar

Clears the entire pattern of the serial pattern trigger (to Function don't care).

Syntax :TRIGger:EINTerval:EVENt<x>:SPATtern:

> CLEar < x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPATTERN:

CLEAR

# :TRIGger:EINTerval:EVENt<x>:SPATtern: CLOCk?

Function Queries all settings related to clock of the serial pattern trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:SPATtern:

CLOCk?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPATTERN:

CLOCK? -> :TRIGGER:EINTERVAL:EVENT1: SPATTERN: CLOCK: MODE 1; POLARITY FALL; SOURCE 1

# :TRIGger:EINTerval:EVENt<x>:SPATtern: CLOCk: MODE

Function Enables/Disables the clock of the serial pattern trigger or gueries the current setting.

:TRIGger:EINTerval:EVENt<x>:SPATtern: Syntax

CLOCk: MODE { < Boolean > }

:TRIGger:EINTerval:EVENt<x>:SPATtern:

CLOCk: MODE?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPATTERN:

CLOCK: MODE ON

:TRIGGER:EINTERVAL:EVENT1:SPATTERN: CLOCK: MODE? -> :TRIGGER:EINTERVAL: EVENT1:SPATTERN:CLOCK:MODE 1

# :TRIGger:EINTerval:EVENt<x>:SPATtern: CLOCk: POLarity

Function Sets the polarity of the clock trace of the serial pattern trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:SPATtern:

CLOCk: POLarity {FALL | RISE}

:TRIGger:EINTerval:EVENt<x>:SPATtern:

CLOCk: POLarity?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPATTERN:

CLOCK: POLARITY FALL

:TRIGGER:EINTERVAL:EVENT1:SPATTERN: CLOCK: POLARITY? -> :TRIGGER: EINTERVAL: EVENT1:SPATTERN:CLOCK:POLARITY FALL

Description This command is valid when :TRIGger:EINTerval: EVENt<x>:SPATtern:CLOCk:

MODE ON.

# :TRIGger:EINTerval:EVENt<x>:SPATtern: CLOCk: SOURce

Sets the clock trace of the serial pattern trigger or Function queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:SPATtern:

CLOCk:SOURce {<NRf>}

:TRIGger:EINTerval:EVENt<x>:SPATtern:

CLOCk: SOURce? < x > = 1 or 2

 $\langle NRf \rangle = 1 \text{ to } 4$ 

Example :TRIGGER:EINTERVAL:EVENT1:SPATTERN:

CLOCK: SOURCE 1

:TRIGGER:EINTERVAL:EVENT1:SPATTERN: CLOCK:SOURCE? -> :TRIGGER:EINTERVAL: EVENT1:SPATTERN:CLOCK:SOURCE 1

Description This command is valid when :TRIGger:EINTerval:

EVENt<x>:SPATtern:CLOCk:

MODE ON

# :TRIGger:EINTerval:EVENt<x>:SPATtern: CS

Function Enables/Disables the chip select of the serial pattern trigger or queries the current setting.

:TRIGger:EINTerval:EVENt<x>:SPATtern: Syntax

CS {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:SPATtern:

CS?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPATTERN:

:TRIGGER:EINTERVAL:EVENT1:SPATTERN:CS? -> :TRIGGER:EINTERVAL:EVENT1:SPATTERN:

Description This command is valid when :TRIGger:EINTerval:

EVENt<x>:SPATtern:CLOCk:

MODE ON.

# :TRIGger:EINTerval:EVENt<x>:SPATtern: כ בדבת

Queries all settings related to data of the serial Function pattern trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:SPATtern: DATA?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPATTERN: DATA? -> :TRIGGER:EINTERVAL:EVENT1: SPATTERN: DATA: ACTIVE HIGH; SOURCE 1

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# :TRIGger:EINTerval:EVENt<x>:SPATtern: DATA:ACTive

Function Sets the active level of the data of the serial pattern trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:SPATtern:

DATA:ACTive {HIGH|LOW}

:TRIGger:EINTerval:EVENt<x>:SPATtern:

DATA:ACTive? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPATTERN:

DATA: ACTIVE HIGH

:TRIGGER:EINTERVAL:EVENT1:SPATTERN:
DATA:ACTIVE? -> :TRIGGER:EINTERVAL:
EVENT1:SPATTERN:DATA:ACTIVE HIGH

# :TRIGger:EINTerval:EVENt<x>:SPATtern: DATA:SOURce

Function Sets the data trace of the serial pattern trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:SPATtern:

DATA:SOURce {<NRf>}

:TRIGger:EINTerval:EVENt<x>:SPATtern:

DATA: SOURce? <x> = 1 or 2 <NRf> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:SPATTERN:

DATA:SOURCE 1

:TRIGGER:EINTERVAL:EVENT1:SPATTERN:
DATA:SOURCE? -> :TRIGGER:EINTERVAL:
EVENT1:SPATTERN:DATA:SOURCE 1

# :TRIGger:EINTerval:EVENt<x>:SPATtern: HEXA

Function Sets the pattern of the serial pattern trigger in hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENt<x>:SPATtern:

HEXA {<String>}
<x> = 1 or 2

<String> = Up to 32 characters by combining '0' to 'F'

and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:SPATTERN:

HEXA "ABCD"

# :TRIGger:EINTerval:EVENt<x>:SPATtern:LATCh?

Function Queries all settings related to latch of the serial pattern trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:SPATtern:

LATCh? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPATTERN:

LATCH? -> :TRIGGER:EINTERVAL:EVENT1:
SPATTERN:LATCH:SOURCE 1;POLARITY FALL

# :TRIGger:EINTerval:EVENt<x>:SPATtern: LATCh:POLarity

Function Sets the polarity of the latch trace of the serial pattern trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:SPATtern:

LATCh: POLarity {FALL | RISE}

:TRIGger:EINTerval:EVENt<x>:SPATtern:

LATCh: POLarity?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPATTERN:

LATCH: POLARITY FALL

:TRIGGER:EINTERVAL:EVENT1:SPATTERN:
LATCH:POLARITY? -> :TRIGGER:EINTERVAL:
EVENT1:SPATTERN:LATCH:POLARITY FALL

Description • This command is valid when :TRIGger:EINTerval: EVENt<x>:SPATtern:CLOCk:MODE ON.

 This command in invalid if :TRIGger:EINTerval: EVENt<x>:SPATtern:LATCh:SOURce NONE.

# :TRIGger:EINTerval:EVENt<x>:SPATtern:LATCh:SOURce

Function Sets the latch trace of the serial pattern trigger or gueries the current setting.

TDIG.... BINE..... BURNE

Syntax :TRIGger:EINTerval:EVENt<x>:SPATtern:

LATCh:SOURce { < NRf > | NONE}

:TRIGger:EINTerval:EVENt<x>:SPATtern:

LATCh: SOURce? <x> = 1 or 2

< NRf > = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:SPATTERN:

LATCH:SOURCE 1

:TRIGGER:EINTERVAL:EVENT1:SPATTERN: LATCH:SOURCE? -> :TRIGGER:EINTERVAL: EVENT1:SPATTERN:LATCH:SOURCE 1

EVENt<x>:SPATtern:CLOCk:

MODE ON.

# :TRIGger:EINTerval:EVENt<x>:SPATtern:PATTern

Function Sets the pattern of the serial pattern trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:SPATtern:

PATTern {<String>}

:TRIGger:EINTerval:EVENt<x>:SPATtern:

PATTern? <x> = 1 or 2

<String> = Up to 128 characters by combining '0', '1',

and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:SPATTERN:

PATTERN "1100110111101111"

:TRIGGER:EINTERVAL:EVENT1:SPATTERN:
PATTERN? -> :TRIGGER:EINTERVAL:EVENT1:
SPATTERN:PATTERN "1100110111101111"

### :TRIGger:EINTerval:EVENt<x>:SPIBus?

Function Queries all settings related to the SPI bus trigger of the event

Syntax :TRIGger:EINTerval:EVENt<x>:SPIBus?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS?

-> :TRIGGER:EINTERVAL:EVENT1:SPIBUS: BITORDER LSBFIRST;CLOCK:POLARITY FALL;

SOURCE 1;:TRIGGER:EINTERVAL:EVENT1:
SPIBUS:CS:ACTIVE HIGH;SOURCE 1;:

TRIGGER: EINTERVAL: EVENT1: SPIBUS: DATA1:

BYTE 1; CONDITION TRUE; DPOSITION 1;

PATTERN1 "00010010";

PATTERN2 "00110100";

PATTERN3 "01010110";

PATTERN4 "00010010"; SOURCE 3; :TRIGGER:

EINTERVAL:EVENT1:SPIBUS:DATA2:BYTE 4;

CONDITION TRUE; DPOSITION 1;

PATTERN1 "00010010";

PATTERN2 "00110100";

PATTERN3 "01010110";

PATTERN4 "00010010"; SOURCE 3;: TRIGGER:

EINTERVAL: EVENT1: SPIBUS: MODE WIRE3

# :TRIGger:EINTerval:EVENt<x>:SPIBus:

# **BITorder**

Function Sets the bit order of the SPI bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:SPIBus:

BITorder {LSBFirst | MSBFirst}

:TRIGger:EINTerval:EVENt<x>:SPIBus:

BITorder?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:

BITORDER LSBFIRST

:TRIGGER:EINTERVAL:EVENT1:SPIBUS: BITORDER? -> :TRIGGER:EINTERVAL:

EVENT1:SPIBUS:BITORDER LSBFIRST

# :TRIGger:EINTerval:EVENt<x>:SPIBus:CLOCk?

Function Queries all settings related to the clock of the SPI bus

Syntax :TRIGger:EINTerval:EVENt<x>:SPIBus:

CLOCk?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:CLOCK?
-> :TRIGGER:EINTERVAL:EVENT1:SPIBUS:

CLOCK: POLARITY FALL; SOURCE 1

# :TRIGger:EINTerval:EVENt<x>:SPIBus: CLOCk:POLarity

Function Sets the polarity of the clock trace of the SPI bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:SPIBus:

CLOCk:POLarity {FALL|RISE}

:TRIGger:EINTerval:EVENt<x>:SPIBus:

CLOCk: POLarity?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:CLOCK:

POLARITY FALL

:TRIGGER:EINTERVAL:EVENT1:SPIBUS:CLOCK:
POLARITY? -> :TRIGGER:EINTERVAL:EVENT1:

SPIBUS:CLOCK:POLARITY FALL

# :TRIGger:EINTerval:EVENt<x>:SPIBus:

## CLOCk:SOURce

Function Sets the clock trace of the SPI bus trigger or queries the current setting.

the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:SPIBus:

CLOCk:SOURce {<NRf>}

:TRIGger:EINTerval:EVENt<x>:SPIBus:

CLOCk:SOURce?

<NRf> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:CLOCK:

SOURCE 1

:TRIGGER:EINTERVAL:EVENT1:SPIBUS:CLOCK:
SOURCE? -> :TRIGGER:EINTERVAL:EVENT1:

SPIBUS:CLOCK:SOURCE 1

# :TRIGger:EINTerval:EVENt<x>:SPIBus:CS?

Function Queries all settings related to the chip select of the SPI bus trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:SPIBus:CS?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:CS?

-> :TRIGGER:EINTERVAL:EVENT1:SPIBUS:CS:

ACTIVE HIGH; SOURCE 1

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# :TRIGger:EINTerval:EVENt<x>:SPIBus:CS: ACTive

Function Sets the active level of the chip select of the SPI bus

trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:SPIBus:CS:

ACTive {HIGH|LOW}

:TRIGger:EINTerval:EVENt<x>:SPIBus:CS:

ACTive? <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:CS:

ACTIVE HIGH

:TRIGGER:EINTERVAL:EVENT1:SPIBUS:CS:
ACTIVE? -> :TRIGGER:EINTERVAL:EVENT1:

SPIBUS:CS:ACTIVE HIGH

# :TRIGger:EINTerval:EVENt<x>:SPIBus:CS: SOURce

Function Sets the chip select trace of the SPI bus trigger or

queries the current setting.

 $\verb|Syntax| : \verb|TRIGger:EINTerval:EVENt<| x>: \verb|SPIBus:CS:| \\$ 

SOURce {<NRf>}

:TRIGger:EINTerval:EVENt<x>:SPIBus:CS:

SOURce? <x> = 1 or 2 <NRf> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:CS:

SOURCE 1

:TRIGGER:EINTERVAL:EVENT1:SPIBUS:CS:
SOURCE? -> :TRIGGER:EINTERVAL:EVENT1:

SPIBUS:CS:SOURCE 1

# :TRIGger:EINTerval:EVENt<x>:SPIBus: DATA<x>?

Function Queries all settings related to the data of the SPI bus

trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:SPIBus:

DATA<x>?

<x> of EVENt<x> = 1 or 2 <x> of DATA<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:DATA1?

-> :TRIGGER:EINTERVAL:EVENT1:SPIBUS:

DATA1:BYTE 1; CONDITION TRUE;
DPOSITION 1; PATTERN1 "00010010";

PATTERN2 "00110100"; PATTERN3 "01010110";

PATTERN4 "00010010"; SOURCE 3

Description DATA2 is valid when :TRIGger:EINTerval:EVENt<x>: SPIBus:MODE WIRE4.

# :TRIGger:EINTerval:EVENt<x>:SPIBus:

### DATA<x>:BYTE

Function Sets the number of bytes of the data of the SPI bus

trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:SPIBus:

DATA<x>:BYTE {<NRf>}

:TRIGger:EINTerval:EVENt<x>:SPIBus:

DATA<x>:BYTE?

<x> of EVENt<x> = 1 or 2 <x> of DATA<x> = 1 or 2

<NRf> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:DATA1:

BYTE 1

:TRIGGER:EINTERVAL:EVENT1:SPIBUS:DATA1: BYTE? -> :TRIGGER:EINTERVAL:EVENT1:

SPIBUS:DATA1:BYTE 1

# :TRIGger:EINTerval:EVENt<x>:SPIBus:

### DATA<x>:CONDition

Function Sets the determination method (match or not match) of the data of the SPI bus trigger or queries the current setting.

current setting

> DATA<x>: CONDition? <x> of EVENt<x> = 1 or 2 <x> of DATA<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:DATA1:

CONDITION TRUE

:TRIGGER:EINTERVAL:EVENT1:SPIBUS:DATA1: CONDITION? -> :TRIGGER:EINTERVAL: EVENT1:SPIBUS:DATA1:CONDITION TRUE

# :TRIGger:EINTerval:EVENt<x>:SPIBus:

### DATA<x>:DPOSition

Function Sets the pattern comparison start position of the data of the SPI bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:SPIBus:

DATA<x>:DPOSition {<NRf>}

:TRIGger:EINTerval:EVENt<x>:SPIBus:

DATA<x>:DPOSition? <x> of EVENt<x> = 1 or 2 <x> of DATA<x> = 1 or 2 <NRf> = 0 to 9999

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:DATA1:

DPOSITION 1

:TRIGGER:EINTERVAL:EVENT1:SPIBUS:DATA1:

DPOSITION? -> :TRIGGER:EINTERVAL:
EVENT1:SPIBUS:DATA1:DPOSITION 1

# :TRIGger:EINTerval:EVENt<x>:SPIBus:

### DATA<x>: HEXA<x>

Function Sets the data of the SPI bus trigger in hexadecimal

notation.

Syntax :TRIGger:EINTerval:EVENt<x>:SPIBus:

DATA<x>:HEXA<x> {<String>} <x> of EVENt<x> = 1 or 2

<x> of DATA<x> = 1 or 2 <x> of HEXA<x> = 1 to 4

<String> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:DATA1:

HEXA1 "AB"

# :TRIGger:EINTerval:EVENt<x>:SPIBus:

#### DATA<x>: PATTern<x>

Function Sets the data of the SPI bus trigger in binary notation

or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:SPIBus:

DATA<x>:PATTern<x> {<String>}

:TRIGger:EINTerval:EVENt<x>:SPIBus:

DATA<x>: PATTern<x>? <x> of EVENt<x> = 1 or 2 <x> of DATA<x> = 1 or 2

<x> of PATTern<x> = 1 to 4

<String> = 8 characters by combining '0,' '1,' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:DATA1:

PATTERN1 "10101011"

:TRIGGER:EINTERVAL:EVENT1:SPIBUS:DATA1: PATTERN1? -> :TRIGGER:EINTERVAL:EVENT1:

SPIBUS:DATA1:PATTERN1 "10101011"

# :TRIGger:EINTerval:EVENt<x>:SPIBus:

### DATA<x>:SOURce

Function Sets the trace of the data of the SPI bus trigger or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:SPIBus:

DATA<x>:SOURce {<NRf>}

:TRIGger:EINTerval:EVENt<x>:SPIBus:

DATA<x>:SOURce? <x> of EVENt<x> = 1 or 2

(DATA 4

<x> of DATA<x> = 1 or 2

< NRf > = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:DATA1:

SOURCE 1

:TRIGGER:EINTERVAL:EVENT1:SPIBUS:DATA1:

SOURCE? -> :TRIGGER:EINTERVAL:EVENT1:

SPIBUS:DATA1:SOURCE 1

# :TRIGger:EINTerval:EVENt<x>:SPIBus:MODE

Function Sets the wiring system of the SPI bus trigger (three-wire or four-wire) or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:SPIBus:

MODE {WIRE3 | WIRE4 }

:TRIGger:EINTerval:EVENt<x>:SPIBus:

MODE?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:

MODE WIRE3

:TRIGGER:EINTERVAL:EVENT1:SPIBUS:MODE?

-> :TRIGGER:EINTERVAL:EVENT1:SPIBUS:

MODE WIRE3

# :TRIGger:EINTerval:EVENt<x>:STATe?

Function Queries all settings related to condition to be satisfied

Syntax :TRIGger:EINTerval:EVENt<x>:STATe?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:STATE?

-> :TRIGGER:EINTERVAL:EVENT1:STATE: CHANNEL1 DONTCARE;CHANNEL2 DONTCARE;

CHANNEL3 DONTCARE; CHANNEL4 DONTCARE;

LOGIC AND

# :TRIGger:EINTerval:EVENt<x>:STATe:

# CHANnel<x>

Function Sets the condition to be satisfied of the channel or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:STATe:

CHANnel<x> {DONTcare|HIGH|LOW}

:TRIGger:EINTerval:EVENt<x>:STATe:

CHANnel<x>?

<x> of EVENt<x> = 1 or 2

<x> of CHANnel<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:STATE:

CHANNEL1 HIGH

 $: {\tt TRIGGER:EINTERVAL:EVENT1:STATE:}$ 

CHANNEL1? -> :TRIGGER:EINTERVAL:EVENT1:

STATE: CHANNEL1 HIGH

I2CBus|PQUalify|PSTAte|SPATtern|STATe.

• {HIGH|LOW} is valid when :TRIGger:EINTerval: EVENt<x>:TYPE I2CBus|

SPATtern.

 For :TRIGger:EINTerval:EVENt<x>:TYPE EQUalify|PQUalify|PSTAte|STATe and TRIGger: SOURce:CHANnel<x>:WINDow ON, the choices in the SB5000 menu are IN/OUT.

 $\{\mbox{HIGH}\}$  corresponds to IN, and  $\{\mbox{LOW}\}$  corresponds to OUT.

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# :TRIGger:EINTerval:EVENt<x>:STATe: LOGic

Function Sets the logic of the condition to be satisfied or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:STATe:

LOGic {AND | OR }

:TRIGger:EINTerval:EVENt<x>:STATe:

LOGic?  $\langle x \rangle = 1 \text{ or } 2$ 

Example :TRIGGER:EINTERVAL:EVENT1:STATE:

LOGIC AND

:TRIGGER:EINTERVAL:EVENT1:STATE:LOGIC?
-> :TRIGGER:EINTERVAL:EVENT1:STATE:

LOGIC AND

Description This command is valid when :TRIGger:EINTerval:

EVENt<x>:TYPE EQUalify|

I2CBus|PQUalify|PSTAte|SPATtern|STATe.

## :TRIGger:EINTerval:EVENt<x>:TYPE

Function Sets the trigger type of the event or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:

TYPE {CANBUS | EDGE | EQUALIFY | FLEXray |
I2CBUS | LEDGE | LINBUS | LI2CBUS | LLINBUS |
LSPAttern | LSPIbuS | LPSTate | LPULSE |
LQUALIFY | LSTate | LUART | PQUALIFY | PSTate |
PULSE | SPATTERN | SPIBUS | STATE | UART }
:TRIGger:EINTerval:EVENt<x>:TYPE?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:TYPE CANBUS

:TRIGGER:EINTERVAL:EVENT1:TYPE?
-> :TRIGGER:EINTERVAL:EVENT1:
TYPE CANBUS

# :TRIGger:EINTerval:EVENt<x>:UART?

Function Queries all settings related to the UART bus signal trigger of each event.

Syntax :TRIGger:EINTerval:EVENt<x>:UART?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:UART? ->
 :TRIGGER:EINTERVAL:EVENT1:UART:

BRATE 19200;DATA:BITORDER LSBFIRST;
DSIZE 1;PATTERN "X0101001";:TRIGGER:

EINTERVAL:EVENT1:UART:ERROR:
FRAMING 1;PARITY 1;PMODE EVEN;:
TRIGGER:EINTERVAL:EVENT1:UART:
FORMAT BIT7PARITY;MODE DATA;P
OLARITY NEGATIVE;SOURCE 1;

SPOINT 18.8E+00

# :TRIGger:EINTerval:EVENt<x>:UART:BRATe

Function Sets the UART bus signal trigger bit rate (data transfer rate) or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:UART:

BRATE {<NRf>| USER, <NRf>}

:TRIGger:EINTerval:EVENt<x>:UART:BRATe?

< x > = 1, 2

<NRf> = 1200, 2400, 4800, 9600, 19200, 38400,

57600, 115200

<NRf> of USER = See the SB5000 User's Manual

Example :TRIGGER:EINTERVAL:EVENT1:UART:

BRATE 19200

:TRIGGER:EINTERVAL:EVENT1:UART:BRATE?
-> :TRIGGER:EINTERVAL:EVENT1:UART:

BRATE 19200

### :TRIGger:EINTerval:EVENt<x>:UART:DATA?

Function Queries all settings related to data of the UART bus

signal trigger.

Syntax :TRIGger:EINTerval:EVENt<x>:UART:DATA?

< x > = 1.2

Example :TRIGGER:EINTERVAL:EVENT1:UART:DATA? ->

:TRIGGER:EINTERVAL:EVENT1:UART:
DATA:BITORDER LSBFIRST;DSIZE 1;

PATTERN "X0101001"

# :TRIGger:EINTerval:EVENt<x>:UART:DATA: BITorder

Function Sets the data bit order of the UART bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:UART:DATA:

BITorder {LSBFirst|MSBFirst}

:TRIGger:EINTerval:EVENt<x>:UART:DATA:

BITorder? <x> = 1.2

Example :TRIGGER:EINTERVAL:EVENT1:UART:DATA:

BITORDER LSBFIRST

:TRIGGER:EINTERVAL:EVENT1:UART:DATA:
BITORDER? -> :TRIGGER:EINTERVAL:EVENT1:

UART:DATA:BITORDER LSBFIRST

# :TRIGger:EINTerval:EVENt<x>:UART:DATA: DSIZe

Function Sets the number of data bytes of the UART bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:UART:DATA:

DSIZe {<NRf>}

:TRIGger:EINTerval:EVENt<x>:UART:DATA:

DSIZe? <x> = 1, 2 <NRf> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:UART:DATA:

DSIZE 1

:TRIGGER:EINTERVAL:EVENT1:UART:DATA: DSIZE? -> :TRIGGER:EINTERVAL:EVENT1:

UART:DATA:DSIZE 1

# :TRIGger:EINTerval:EVENt<x>:UART:DATA: HEXA

Function Sets the UART bus signal trigger data in hexadecimal.

Syntax :TRIGger:EINTerval:EVENt<x>:UART:DATA:

HEXA {<string>}

< x > = 1.2

<string> = Up to 8 characters by combining '0' to 'F'

and 'X,' units of 1 byte

Example :TRIGGER:EINTERVAL:EVENT1:UART:DATA:

HEXA "A9"

# :TRIGger:EINTerval:EVENt<x>:UART:DATA: PATTern

Function Sets the data of the UART bus signal trigger in binary or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:UART:DATA:

PATTern {<string>}
:TRIGger:EINTerval:EVENt<x>:UART:DATA:

PATTern? <x> = 1.2

<string> = Up to 32 characters by combining '0,' '1,'

and 'X,' units of 1 byte

Example :TRIGGER:EINTERVAL:EVENT1:UART:DATA:

PATTERN "11011111"

 $: {\tt TRIGGER:EINTERVAL:EVENT1:UART:DATA:}$ 

PATTERN? -> :TRIGGER:EINTERVAL:EVENT1:

UART:DATA:PATTERN "11011111"

# :TRIGger:EINTerval:EVENt<x>:UART:

### ERRor?

Function Queries all settings related to the UART bus signal

trigger error.

Syntax :TRIGger:EINTerval:EVENt<x>:UART:ERRor?

< x > = 1.2

Example :TRIGGER:EINTERVAL:EVENT1:UART:ERROR?

-> :TRIGGER:EINTERVAL:EVENT1:UART: ERROR:FRAMING 1;PARITY 1;PMODE EVEN

# :TRIGger:EINTerval:EVENt<x>:UART:

### ERRor: FRAMing

Function Sets the UART bus signal trigger Framing error or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:UART:ERRor:

FRAMing {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:UART:ERRor:

FRAMing?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:UART:ERROR:

FRAMING ON

:TRIGGER:EINTERVAL:EVENT1:UART:ERROR:

FRAMING? -> :TRIGGER:EINTERVAL:EVENT1:

UART: ERROR: FRAMING 1

# :TRIGger:EINTerval:EVENt<x>:UART:

### ERRor: PARity

Function Sets the UART bus signal trigger Parity error or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:UART:ERRor:

PARity {<Boolean>}

:TRIGger:EINTerval:EVENt<x>:UART:ERRor:

PARity?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:UART:ERROR:

PARITY ON

:TRIGGER:EINTERVAL:EVENT1:UART:ERROR:

PARITY? -> :TRIGGER:EINTERVAL:EVENT1:

UART: ERROR: PARITY 1

# :TRIGger:EINTerval:EVENt<x>:UART:

### ERRor: PMODe

Function Sets the UART bus signal trigger Parity mode or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:UART:ERRor:

PMODe {EVEN|ODD}

:TRIGger:EINTerval:EVENt<x>:UART:ERRor:

PMODe?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:UART:ERROR:

PMODE EVEN

 $: {\tt TRIGGER:EINTERVAL:EVENT1:UART:ERROR:}$ 

PMODE? -> :TRIGGER:EINTERVAL:EVENT1:

UART: ERROR: PMODE EVEN

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# :TRIGger:EINTerval:EVENt<x>:UART:

#### FORMat

Function Sets the UART bus signal trigger format or queries the current setting.

BIT8Parity}

:TRIGger:EINTerval:EVENt<x>:UART:

FORMat? < x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:UART:

FORMAT BIT7PARITY

:TRIGGER:EINTERVAL:EVENT1:UART:FORMAT?
-> :TRIGGER:EINTERVAL:EVENT1:UART:
FORMAT BIT7PARITY

### :TRIGger:EINTerval:EVENt<x>:UART:MODE

Function Sets the UART bus signal trigger mode or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:UART:

MODE {DATA | ERROr}

:TRIGger:EINTerval:EVENt<x>:UART:MODE?

< x > = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:UART:

MODE DATA

:TRIGGER:EINTERVAL:EVENT1:UART:MODE? ->

 $: {\tt TRIGGER:EINTERVAL:EVENT1:UART:}$ 

MODE DATA

# :TRIGger:EINTerval:EVENt<x>:UART:

### POLarity

Function Sets the UART bus signal trigger polarity or queries the current setting.

:TRIGger:EINTerval:EVENt<x>:UART:

POLarity? <x> = 1, 2

Example :TRIGGER:EINTERVAL:EVENT1:UART:

POLARITY NEGATIVE

:TRIGGER:EINTERVAL:EVENT1:UART:

POLARITY? -> :TRIGGER:EINTERVAL:EVENT1:

UART: POLARITY NEGATIVE

# :TRIGger:EINTerval:EVENt<x>:UART:

#### SOURce

Function Sets the UART bus signal trigger source or queries

the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:UART:

SOURce {<NRf>}

:TRIGger:EINTerval:EVENt<x>:UART:

SOURce? <x> = 1, 2 <NRf> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:UART:SOURCE 1

:TRIGGER:EINTERVAL:EVENT1:UART:SOURCE?
-> :TRIGGER:EINTERVAL:EVENT1:UART:

SOURCE 1

# :TRIGger:EINTerval:EVENt<x>:UART: SPOint

Function Sets the UART bus signal trigger sample point or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:UART:

SPOint {<NRf>}

:TRIGger:EINTerval:EVENt<x>:UART:

SPOint? <x> = 1, 2

<NRf> = 18.8 to 90.6(%)

Example :TRIGGER:EINTERVAL:EVENT1:UART:

SPOINT 18.8

:TRIGGER:EINTERVAL:EVENT1:UART:SPOINT?
-> :TRIGGER:EINTERVAL:EVENT1:UART:

SPOINT 18.8E+00

# :TRIGger:EINTerval:EVENt<x>:WIDTh?

Function Queries all settings related to the pulse width trigger of the event.

Syntax :TRIGger:EINTerval:EVENt<x>:WIDTh?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:WIDTH?

-> :TRIGGER:EINTERVAL:EVENT1:WIDTH:
MODE TIMEOUT; POLARITY POSITIVE;
SOURCE EXTERNAL; TIME1 1.000E+00;

TIME2 1.000E+00

# :TRIGger:EINTerval:EVENt<x>:WIDTh: MODE

Function Sets the determination mode of the pulse width

trigger or queries the current setting.

 $\verb|Syntax| : \verb|TRIGger:EINTerval:EVENt<| x> : \verb|WIDTh:|$ 

MODE {BETWeen | IN | NOTBetween | OUT |

TIMeout }

:TRIGger:EINTerval:EVENt<x>:WIDTh:MODE?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:WIDTH:MODE

TIMEOUT

:TRIGGER:EINTERVAL:EVENT1:WIDTH:MODE?

-> :TRIGGER:EINTERVAL:EVENT1:WIDTH:

MODE TIMEOUT

# :TRIGger:EINTerval:EVENt<x>:WIDTh: POLarity

Function Sets the polarity of the pulse width trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:WIDTh:

POLarity {FALSe|NEGative|POSitive|TRUE}

:TRIGger:EINTerval:EVENt<x>:WIDTh:

POLarity?

< x > = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:WIDTH:

POLARITY POSITIVE

:TRIGGER:EINTERVAL:EVENT1:WIDTH:

POLARITY? -> :TRIGGER:EINTERVAL:EVENT1:

WIDTH: POLARITY POSITIVE

Description • For :TRIGger:EINTerval:EVENt<x>:TYPE

PQUalify|PULSe and :TRIGger:SOURce:

CHANnel<x>:WINDow ON, the choices in the

SB5000 menu are IN/OUT.

 $\{ POSitive \} \ corresponds \ to \ IN, \ and \ \{ NEGative \}$ 

corresponds to OUT.

 {FALSe|TRUE} is valid when :TRIGger:EINTerval: EVENt<x>:TYPE PSTAte.

# :TRIGger:EINTerval:EVENt<x>:WIDTh: SOURce

Function Sets the trigger source of the pulse width trigger or

queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:WIDTh:

SOURce {<NRf>|EXTernal}

:TRIGger:EINTerval:EVENt<x>:WIDTh:

SOURce?

< x > = 1 or 2

< NRf > = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:WIDTH:

SOURCE EXTERNAL

:TRIGGER:EINTERVAL:EVENT1:WIDTH:SOURCE?

-> :TRIGGER:EINTERVAL:EVENT1:WIDTH:

SOURCE EXTERNAL

Description This command is valid when :TRIGger:EINTerval:

EVENt<x>:TYPE PQUalify|PULSe.

# :TRIGger:EINTerval:EVENt<x>:WIDTh: TIME<x>

Function Sets the pulse width of the pulse width trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENt<x>:WIDTh:

TIME<x> {<Time>}

:TRIGger:EINTerval:EVENt<x>:WIDTh

:TIME<x>?

<x> of EVENt<x> = 1 or 2

<x> of TIME<x> = 1 or 2

<Time> = 1 ns to 10 s (500 ps steps)

Example :TRIGGER:EINTERVAL:EVENT1:WIDTH:

TIME1 1S

:TRIGGER:EINTERVAL:EVENT1:WIDTH:TIME1?

-> :TRIGGER:EINTERVAL:EVENT1:WIDTH:

TIME1 1.000E+00

Description TIME2 is valid when :TRIGger:EINTerval:EVENt<x>:

WIDTh:MODE BETWeen|NOTBetween.

# :TRIGger:EINTerval:MODE

Function Sets the determination mode of the event interval or queries the current setting.

Syntax :TRIGger:EINTerval:MODE {BETWeen | IN |

NOTBetween|OUT|TIMeout}
:TRIGger:EINTerval:MODE?

Example :TRIGGER:EINTERVAL:MODE BETWEEN

:TRIGGER:EINTERVAL:MODE? -> :TRIGGER:

EINTERVAL: MODE BETWEEN

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### :TRIGger:EINTerval:TIME<x>

Function Sets the interval time of the event interval or queries the current setting.

Syntax :TRIGger:EINTerval:TIME<x> {<Time>}

:TRIGger:EINTerval:TIME<x>?

< x > = 1 or 2

<Time> = 1.5 ns to 10 s (500 ps steps)

Example :TRIGGER:EINTERVAL:TIME1 1S

:TRIGGER:EINTERVAL:TIME1? -> :TRIGGER:

EINTERVAL:TIME1 1.000E+00

Description• TIME2 is valid when :TRIGger:EINTerval: MODE BETWeen|NOTBetween.

 If you specify EIDelay or EISequence with the :TRIGger:TYPE command and mix an analog signal trigger and logic signal trigger with EVENT1 and EVENT2 of the :TRIGger:EINTerval: EVENt<x>:TYPE command, the minimum interval time setting is 1. 5 ns to 20 ns.

#### :TRIGger:EINTerval:TRY?

Function Queries all settings related to the event interval trial.

Syntax :TRIGger:EINTerval:TRY?

Example :TRIGGER:EINTERVAL:TRY? -> :TRIGGER:

EINTERVAL:TRY:MODE 0;SELECT 1

## :TRIGger:EINTerval:TRY:MODE

Function Sets the trial mode or queries the current setting.

Syntax :TRIGger:EINTerval:TRY:MODE {<Boolean>}

:TRIGger:EINTerval:TRY:MODE?

Example :TRIGGER:EINTERVAL:TRY:MODE ON

:TRIGGER:EINTERVAL:TRY:MODE?

-> :TRIGGER:EINTERVAL:TRY:MODE 1

Description This command is valid when :TRIGger:EINTerval: MODE BETWeen|NOTBetween.

# :TRIGger:EINTerval:TRY:SELect

Function Sets the source event of the trial mode or queries the current setting.

Syntax :TRIGger:EINTerval:TRY:SELect {<NRf>}

:TRIGger:EINTerval:TRY:SELect?

<NRf> = 1 or 2

Example :TRIGGER:EINTERVAL:TRY:SELECT 1

:TRIGGER:EINTERVAL:TRY:SELECT?

-> :TRIGGER:EINTERVAL:TRY:SELECT 1

Description This command is valid when :TRIGger:EINTerval: MODE BETWeen|NOTBetween.

### :TRIGger:ENHanced?

Function Queries all settings related to the enhanced trigger.

Syntax :TRIGger:ENHanced?

Example :TRIGGER:ENHANCED? -> :TRIGGER:

ENHANCED:CANBUS:ACK DONTCARE;

BRATE 500000; DATA: BORDER BIG;

CONDITION DONTCARE; DATA1 0.0000000E+00;

DATA2 255.00000E+00;DLC 8;MSBLSB 7, 0;

SIGN UNSIGN;:TRIGGER:ENHANCED:

 $\verb|XXXXXXXXXXX|| ; : \verb|TRIGGER: ENHANCED: CANBUS: |$ 

IDOR:ID1:ACK DONTCARE;DATA:BORDER BIG;

CONDITION BETWEEN; DATA1 0.0000000E+00; DATA2 255.00000E+00; DLC 8; MSBLSB 7, 0;

SIGN UNSIGN;:TRIGGER:ENHANCED:CANBUS:

IDOR:ID1:FORMAT STD;IDEXT:

;:TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

IDSTD:PATTERN "XXXXXXXXXX";:TRIGGER:

ENHANCED:CANBUS:IDOR:ID1:MODE 1;

RTR DATA;:TRIGGER:ENHANCED:CANBUS:

IDOR:ID2:ACK DONTCARE;DATA:BORDER BIG;

CONDITION DONTCARE; DATA1 0.0000000E+00; DATA2 255.00000E+00; DLC 8; MSBLSB 7, 0;

SIGN UNSIGN....

# :TRIGger:ENHanced:CANBus?

Function Queries all settings related to the CAN bus signal trigger.

Syntax :TRIGger:ENHanced:CANBus?

Example :TRIGGER:ENHANCED:CANBUS? -> :TRIGGER:

ENHANCED: CANBUS: ACK DONTCARE; BRATE 500000; DATA: BORDER BIG;

CONDITION DONTCARE; DATA1 0.0000000E+00; DATA2 255.00000E+00; DLC 8; MSBLSB 7, 0;

SIGN UNSIGN;:TRIGGER:ENHANCED:CANBUS:

XXXXX";:TRIGGER:ENHANCED:CANBUS:

IDOR:ID1:ACK DONTCARE;DATA:BORDER BIG;

CONDITION BETWEEN; DATA1 0.0000000E+00; DATA2 255.00000E+00; DLC 8; MSBLSB 7, 0;

SIGN UNSIGN;:TRIGGER:ENHANCED:CANBUS:

IDOR:ID1:FORMAT STD;IDEXT:PATTERN "XXXX

 $\verb|XXXXXXXXXXXXXXXXXXXX"|; : \verb|TRIGGER:|$ 

ENHANCED:CANBUS:IDOR:ID1:IDSTD:
PATTERN "XXXXXXXXXXX";:TRIGGER:

ENHANCED:CANBUS:IDOR:ID1:MODE 1;

RTR DATA;:TRIGGER:ENHANCED:CANBUS:IDOR:

ID2:ACK DONTCARE....

## :TRIGger:ENHanced:CANBus:ACK

Function Sets the ACK condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:ACK {ACK|

ACKBoth | DONTcare | NONack }

:TRIGger:ENHanced:CANBus:ACK?

Example :TRIGGER:ENHANCED:CANBUS:ACK ACK

:TRIGGER:ENHANCED:CANBUS:ACK?

-> :TRIGGER:ENHANCED:CANBUS:ACK ACK

### :TRIGger:ENHanced:CANBus:BRATe

Function Sets the bit rate (data transfer rate) of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:BRATe

{ <NRf > | USER, <NRf > }

:TRIGger:ENHanced:CANBus:BRATe?

<NRf> = 33300, 83300, 125000, 250000, 500000,

1000000

<NRf> of USER = See the User's Manual (IM701361-

01E).

Example :TRIGGER:ENHANCED:CANBUS:BRATE 83300

:TRIGGER:ENHANCED:CANBUS:BRATE?

-> :TRIGGER:ENHANCED:CANBUS:BRATE 83300

## :TRIGger:ENHanced:CANBus:DATA?

Function Queries all settings related to the CAN bus signal trigger data.

Syntax :TRIGger:ENHanced:CANBus:DATA?

Example :TRIGGER:ENHANCED:CANBUS:DATA?
-> :TRIGGER:ENHANCED:CANBUS:DATA:

-> :IRIGGER:ENHANCED:CANBOS:DATA

BORDER BIG; CONDITION DONTCARE;

DATA1 0.000000E+00;

;SIGN UNSIGN

# :TRIGger:ENHanced:CANBus:DATA:BORDer

Function Sets the byte order of the CAN bus signal trigger data or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:DATA:BORDer

{BIG|LITTle}

:TRIGger:ENHanced:CANBus:DATA:BORDer?

Example :TRIGGER:ENHANCED:CANBUS:DATA:

BORDER BIG

:TRIGGER:ENHANCED:CANBUS:DATA:

BORDER? -> :TRIGGER:ENHANCED:CANBUS:

DATA:BORDER BIG

# :TRIGger:ENHanced:CANBus:DATA:

### CONDition

Function Sets the data condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:DATA:

CONDition {BETWeen|DONTcare|FALSe|

GTHan | LTHan | ORANge | TRUE }

:TRIGger:ENHanced:CANBus:DATA:

CONDition?

Example :TRIGGER:ENHANCED:CANBUS:DATA:

CONDITION BETWEEN

:TRIGGER:ENHANCED:CANBUS:DATA:
CONDITION? -> :TRIGGER:ENHANCED:
CANBUS:DATA:CONDITION BETWEEN

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### :TRIGger:ENHanced:CANBus:DATA:DATA<x>

Function Sets the comparison data of the CAN bus signal trigger data or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:DATA:

DATA<x> {<NRf>}

:TRIGger:ENHanced:CANBus:DATA:DATA<x>? <x> = 1, 2

<NRf> = See the User's Manual (IM701361-01E).

Example :TRIGGER:ENHANCED:CANBUS:DATA:DATA1 1

:TRIGGER:ENHANCED:CANBUS:DATA:
DATA1? -> :TRIGGER:ENHANCED:CANBUS:
DATA:DATA1 1.0000000E+00

Description • Use :TRIGger:ENHANCED:CANBus:DATA:

DATA1 when :TRIGger:ENHANCED:CANBus:

DATA:CONDition GTHan is specified.

- Use:TRIGger:ENHANCED:CANBus:DATA:
  DATA2 when:TRIGger:ENHANCED:CANBus:
  DATA:CONDition LTHan is specified.
- Use :TRIGger:ENHANCED:CANBus:DATA:

  DATA1 to set the smaller value and :TRIGger:
  ENHANCED:CANBus:DATA:DATA2 to set the
  larger value when :TRIGger:ENHANCED:
  CANBus:DATA:CONDition BETWeen | ORANge
  is specified.

# :TRIGger:ENHanced:CANBus:DATA:DLC

Function Sets the number of valid bytes (DLC) of the CAN bus signal trigger data or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:DATA:DLC

{<NRf>}
:TRIGger:ENHanced:CANBus:DATA:DLC?

<NRf> = 0 to 8

Example :TRIGGER:ENHANCED:CANBUS:DATA:DLC 0

:TRIGGER:ENHANCED:CANBUS:DATA:DLC?
-> :TRIGGER:ENHANCED:CANBUS:DATA:DLC 0

# :TRIGger:ENHanced:CANBus:DATA:HEXA

Function Sets the CAN bus signal trigger data in hexadecimal notation.

Syntax :TRIGger:ENHanced:CANBus:DATA:

 $\texttt{HEXA} \ \{\texttt{<String>}\}$ 

<String> = Up to 16 characters by combining '0' to 'F' and 'X' (in one-byte unit)

Example :TRIGGER:ENHANCED:CANBUS:DATA:

HEXA "A9"

#### :TRIGger:ENHanced:CANBus:DATA:MSBLsb

Function Sets the MSB and LSB bits of the CAN bus signal trigger data or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:DATA:MSBLsb

{ <NRf > , <NRf > }

:TRIGger:ENHanced:CANBus:DATA:MSBLsb? <NRf> = See the User's Manual (IM701361-01E).

Example :TRIGGER:ENHANCED:CANBUS:DATA:

MSBLSB 1,0

:TRIGGER:ENHANCED:CANBUS:DATA:
MSBLSB? -> :TRIGGER:ENHANCED:CANBUS:

DATA:MSBLSB 1,0

### :TRIGger:ENHanced:CANBus:DATA:PATTern

Function Sets the CAN bus signal trigger data in binary notation or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:DATA:PATTern

{<String>}

:TRIGger:ENHanced:CANBus:DATA:PATTern? <String> = Up to 64 characters by combining '0,' '1,'

and 'X' (in one-byte unit)

Example :TRIGGER:ENHANCED:CANBUS:DATA:

PATTERN "11011111"

:TRIGGER:ENHANCED:CANBUS:DATA:

PATTERN? -> :TRIGGER:ENHANCED:CANBUS:

DATA: PATTERN "11011111"

# :TRIGger:ENHanced:CANBus:DATA:SIGN

Function Sets the sign of the CAN bus signal trigger data or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:DATA:

SIGN {SIGN|UNSign}

:TRIGger:ENHanced:CANBus:DATA:SIGN?

Example :TRIGGER:ENHANCED:CANBUS:DATA:SIGN SIGN

:TRIGGER:ENHANCED:CANBUS:DATA: SIGN? -> :TRIGGER:ENHANCED:CANBUS:

DATA:SIGN SIGN

### :TRIGger:ENHanced:CANBus:IDEXt?

Function Queries all settings related to the ID of the extended format of the CAN bus signal trigger.

Syntax :TRIGger:ENHanced:CANBUS:IDEXt?
Example :TRIGGER:ENHANCED:CANBUS:IDEXT?
 -> :TRIGGER:ENHANCED:CANBUS:IDEXT:
 PATTERN "11001011011100001110111011111"

### :TRIGger:ENHanced:CANBus:IDEXt:HEXA

Function Sets the ID of the extended format of the CAN bus

signal trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:CANBus:IDEXt:

HEXA { < String > }

<String> = 8 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:ENHANCED:CANBUS:IDEXT:

HEXA "1AEF5906"

### :TRIGger:ENHanced:CANBus:IDEXt:PATTern

Function Sets the ID of the extended format of the CAN bus

signal trigger in binary notation or queries the current

setting.

Syntax :TRIGger:ENHanced:CANBus:IDEXt:

PATTern {<String>}

:TRIGger:ENHanced:CANBus:IDEXt:

PATTern?

<String> = 29 characters by combining '0,' '1,' and 'X'

Example :TRIGGER:ENHANCED:CANBUS:IDEXT:

PATTERN "11001011011100001110111011111"

:TRIGGER:ENHANCED:CANBUS:IDEXT:

PATTERN? -> :TRIGGER:ENHANCED:CANBUS:
IDEXT:PATTERN "1100101101110000111011

1011111"

### :TRIGger:ENHanced:CANBus:IDOR?

Function Queries all settings related to the OR condition of the CAN bus signal trigger.

Syntax :TRIGger:ENHanced:CANBus:IDOR?
Example :TRIGGER:ENHANCED:CANBUS:IDOR?

-> :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

ACK DONTCARE; DATA: BORDER BIG;

CONDITION DONTCARE; DATA1 0.0000000E+00; DATA2 255.00000E+00; DLC 8; MSBLSB 7,0; PATTERN "00000001001000110100010101

1001111000100110101011111001101111101
111";SIGN UNSIGN;:TRIGGER:ENHANCED:

CANBUS: IDOR: ID1: FORMAT STD; IDEXT:

PATTERN "110101011111001101111101111000 0";:TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

IDSTD:PATTERN "00100100011";:TRIGGER:

ENHANCED: CANBUS: IDOR: ID1:

MODE 0; RTR DATA; :TRIGGER: ENHANCED:

CANBUS: IDOR: ID2: ACK DONTCARE; DATA:

BORDER BIG; CONDITION DONTCARE;

DATA1 0.000000E+00;

DATA2 255.00000E+00;DLC 8;MSBLSB 7,0; PATTERN "111111101101110010111101010

01100001110110010101000011001000010

000";SIGN UNSIGN;:TRIGGER:ENHANCED:

CANBUS:IDOR:ID2:FORMAT STD;IDEXT:

PATTERN "10010001101000101100111100 0";:TRIGGER:ENHANCED:CANBUS:IDOR:ID2:

IDSTD:PATTERN "10001010110";:TRIGGER:

ENHANCED: CANBUS: IDOR: ID2:

MODE 0;RTR DATA;:TRIGGER:ENHANCED:

CANBUS: IDOR: ID3: ACK DONTCARE; DATA:

BORDER BIG; CONDITION DONTCARE;

DATA1 0.000000E+00;

DATA2 255.00000E+00;DLC 8....

# :TRIGger:ENHanced:CANBus:IDOR:ID<x>?

Function Queries all settings related to each ID of the OR condition of the CAN bus signal trigger.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1?

-> :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

ACK DONTCARE; DATA: BORDER BIG;

CONDITION DONTCARE; DATA1 0.0000000E+00;

DATA2 255.00000E+00;DLC 8;MSBLSB 7,0; PATTERN "0000001001000110100010101

1001111000100110101011111001101111101
111";SIGN UNSIGN;:TRIGGER:ENHANCED:

CANBUS:IDOR:ID1:FORMAT STD;IDEXT:

PATTERN "110101011111001101111101111000

0";:TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
IDSTD:PATTERN "00100100011";:TRIGGER:

ENHANCED:CANBUS:IDOR:ID1:MODE 0;

RTR DATA

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# :TRIGger:ENHanced:CANBus:IDOR:ID<x>: ACK

Function Sets each ACK condition of the OR condition of the

CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:

ACK {ACK|ACKBoth|DONTcare|NONack}
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:

ACK?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

ACK ACK

:TRIGGER:ENHANCED:CANBUS:IDOR:ID1: ACK? -> :TRIGGER:ENHANCED:CANBUS:

IDOR:ID1:ACK ACK

# :TRIGger:ENHanced:CANBus:IDOR:ID<x>: DATA?

Function Queries all settings related to each data of the OR

condition of the CAN bus signal trigger.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:

DATA?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

DATA? -> :TRIGGER:ENHANCED:CANBUS:

IDOR:ID1:DATA:BORDER BIG;

;SIGN UNSIGN

# :TRIGger:ENHanced:CANBus:IDOR:ID<x>: DATA:BORDer

Function Sets byte order of each data of the OR condition of the CAN bus signal trigger or queries the current

setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:

DATA:BORDer {BIG|LITTle}

:TRIGger:ENHanced:CANBus:IDOR:ID<x>:

DATA:BORDer?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

DATA:BORDER BIG

:TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
DATA:BORDER? -> :TRIGGER:ENHANCED:
CANBUS:IDOR:ID1:DATA:BORDER BIG

# :TRIGger:ENHanced:CANBus:IDOR:ID<x>: DATA:CONDition

Function Sets each data condition of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:

DATA:CONDition {BETWeen|DONTcare|
FALSe|GTHan|LTHan|ORANge|TRUE}

:TRIGger:ENHanced:CANBus:IDOR:ID<x>:

DATA: CONDition?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

DATA: CONDITION BETWEEN

:TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
DATA:CONDITION? -> :TRIGGER:ENHANCED:

CANBUS: IDOR: ID1: DATA: CONDITION BETWEEN

# :TRIGger:ENHanced:CANBus:IDOR:ID<x>: DATA:DATA<x>

Function Sets comparison data of each data of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:

DATA:DATA<x> {<NRf>}

:TRIGger:ENHanced:CANBus:IDOR:ID<x>:

DATA: DATA<x>? <x> of ID<x> = 1 to 4 <x> of DATA<x> = 1 or 2

<NRf> = See the User's Manual (IM701361-01E).

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

DATA:DATA1 1

is specified.

:TRIGGER:ENHANCED:CANBUS:IDOR:ID1: DATA:DATA1? -> :TRIGGER:ENHANCED: CANBUS:IDOR:ID1:DATA:

DATA1 1.000000E+00

> • Use :TRIGger:ENHANCED:CANBus:IDOR: ID<x>:DATA:DATA2 when :TRIGger: ENHANCED:CANBus:IDOR:ID<x>:DATA:

CONDition LTHan is specified.

• Use :TRIGger:ENHANCED:CANBus:IDOR:
 ID<x>:DATA:DATA1 to set the smaller value
 and :TRIGger:ENHANCED:CANBus:IDOR:
 ID<x>:DATA:DATA2 to set the larger value
 when :TRIGger:ENHANCED:CANBus:IDOR:
 ID<x>:DATA:CONDition BETWeen | ORANge

# :TRIGger:ENHanced:CANBus:IDOR:ID<x>: DATA: DLC

Function Sets the number of valid bytes (DLC) of each data of the OR condition of the CAN bus signal trigger or

queries the current setting.

:TRIGger:ENHanced:CANBus:IDOR:ID<x>: Syntax

DATA:DLC { < NRf > }

:TRIGger:ENHanced:CANBus:IDOR:ID<x>:

DATA: DLC? < x > = 1 to 4< NRf > = 0 to 8

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

DATA: DLC 0

:TRIGGER:ENHANCED:CANBUS:IDOR:ID1: DATA:DLC? -> :TRIGGER:ENHANCED: CANBUS:IDOR:ID1:DATA:DLC 0

# :TRIGger:ENHanced:CANBus:IDOR:ID<x>: DATA: HEXA

Function Sets each data of the OR condition of the CAN bus

signal trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:

DATA: HEXA { < String > }

< x > = 1 to 4

<String> = Up to 16 characters by combining '0' to 'F'

and 'X' (in one-byte unit)

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

DATA:HEXA "A9"

# :TRIGger:ENHanced:CANBus:IDOR:ID<x>: DATA: MSBLsb

Function Sets the MSB and LSB bits of each data of the OR condition of the CAN bus signal trigger or queries the

current setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:

DATA:MSBLsb {<NRf>,<NRf>}

:TRIGger:ENHanced:CANBus:IDOR:ID<x>:

DATA: MSBLsb?

< x > = 1 to 4

<NRf> = See the User's Manual (IM701361-01E).

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

DATA: MSBLSB 1,0

:TRIGGER:ENHANCED:CANBUS:IDOR:ID1: DATA:MSBLSB? -> :TRIGGER:ENHANCED: CANBUS:IDOR:ID1:DATA:MSBLSB 1,0

# :TRIGger:ENHanced:CANBus:IDOR:ID<x>: DATA: PATTern

Function Sets each data of the OR condition of the CAN bus

signal trigger in binary notation or queries the current

setting.

:TRIGger:ENHanced:CANBus:IDOR:ID<x>: Syntax

DATA:PATTern {<String>}

:TRIGger:ENHanced:CANBus:IDOR:ID<x>:

DATA: PATTern?

< x > = 1 to 4

<String> = Up to 64 characters by combining '0,' '1,'

and 'X' (in one-byte unit)

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

DATA:PATTERN "11011111"

:TRIGGER:ENHANCED:CANBUS:IDOR:ID1: DATA: PATTERN? -> :TRIGGER: ENHANCED: CANBUS: IDOR: ID1: DATA: PATTERN

"11011111"

# :TRIGger:ENHanced:CANBus:IDOR:ID<x>: DATA: SIGN

Function Sets sign of each data of the OR condition of the CAN bus signal trigger or queries the current setting.

:TRIGger:ENHanced:CANBus:IDOR:ID<x>: Syntax

DATA:SIGN {SIGN|UNSign}

:TRIGger:ENHanced:CANBus:IDOR:ID<x>:

DATA: SIGN?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

DATA:SIGN SIGN

:TRIGGER:ENHANCED:CANBUS:IDOR:ID1: DATA:SIGN? -> :TRIGGER:ENHANCED: CANBUS: IDOR: ID1: DATA: SIGN SIGN

# :TRIGger:ENHanced:CANBus:IDOR:ID<x>: **FORMat**

Function Sets each message format (standard or extended) of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:

FORMat {STD|EXT}

:TRIGger:ENHanced:CANBus:IDOR:ID<x>:

FORMat?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

FORMAT STD

:TRIGGER:ENHANCED:CANBUS:IDOR:ID1: FORMAT? -> :TRIGGER:ENHANCED:CANBUS:

IDOR: ID1: FORMAT STD

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# :TRIGger:ENHanced:CANBus:IDOR:ID<x>:IDEXt?

Function Queries all settings related to the ID of each extended

format of the OR condition of the CAN bus signal

trigger.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:

IDEXt?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

IDEXT? -> :TRIGGER:ENHANCED:CANBUS:
IDOR:ID1:IDEXT:PATTERN "11001011101110

0001110111011111"

# :TRIGger:ENHanced:CANBus:IDOR:ID<x>: TDEXt:HEXA

Function Sets the ID of each extended format of the

OR condition of the CAN bus signal trigger in

hexadecimal notation.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:

IDEXt:HEXA {<String>}

< x > = 1 to 4

<String> = 8 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

IDEXT:HEXA "1AEF5906"

# :TRIGger:ENHanced:CANBus:IDOR:ID<x>: IDEXt:PATTern

Function Sets the ID of each extended format of the OR

condition of the CAN bus signal trigger in binary

notation or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:

IDEXt:PATTern {<String>}

:TRIGger:ENHanced:CANBus:IDOR:ID<x>:

IDEXt:PATTern?
<x> = 1 to 4

<String> = 29 characters by combining '0,' '1,' and 'X'

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

IDEXT:PATTERN "1100101101110000111011

1011111"

:TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

IDEXT:PATTERN? -> :TRIGGER:ENHANCED:

CANBUS:IDOR:ID1:IDEXT:PATTERN "110010

11011100001110111011111"

# :TRIGger:ENHanced:CANBus:IDOR:ID<x>: IDSTd?

Function Queries all settings related to the ID of each standard

format of the OR condition of the CAN bus signal

trigger.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:

IDSTd?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

IDSTD? -> :TRIGGER:ENHANCED:CANBUS:
IDOR:ID1:IDSTD:PATTERN "00011111101"

# :TRIGger:ENHanced:CANBus:IDOR:ID<x>: IDSTd:HEXA

Function Sets the ID of each standard format of the

OR condition of the CAN bus signal trigger in

hexadecimal notation.

 $\verb|Syntax| : \verb|TRIGger:ENHanced:CANBus:IDOR:ID<|x>|:$ 

IDSTd:HEXA {<String>}

< x > = 1 to 4

<String> = 3 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

IDSTD:HEXA "5DF"

# :TRIGger:ENHanced:CANBus:IDOR:ID<x>: IDSTd:PATTern

Function Sets the ID of each standard format of the OR

condition of the CAN bus signal trigger in binary

notation or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:

IDSTd:PATTern {<String>}

:TRIGger:ENHanced:CANBus:IDOR:ID<x>:

IDSTd:PATTern?

< x > = 1 to 4

<String> = 11 characters by combining '0,' '1,' and 'X'

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

IDSTD:PATTERN "10111011111"

:TRIGGER:ENHANCED:CANBUS:IDOR:ID1: IDSTD:PATTERN? -> :TRIGGER:ENHANCED:

CANBUS: IDOR: ID1: IDSTD: PATTERN

"10111011111"

# :TRIGger:ENHanced:CANBus:IDOR:ID<x>: MODE

Function Enables or disables each condition of the OR

condition of the CAN bus signal trigger or queries the

current setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:

MODE {<Boolean>}

:TRIGger:ENHanced:CANBus:IDOR:ID<x>:

MODE? <x> = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

MODE ON

:TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
MODE? -> :TRIGGER:ENHANCED:CANBUS:

IDOR:ID1:MODE 1

# :TRIGger:ENHanced:CANBus:IDOR:ID<x>: RTR

Function Sets each RTR of the OR condition of the CAN bus

signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:

RTR {DATA|DONTcare|REMote}

:TRIGger:ENHanced:CANBus:IDOR:ID<x>:

RTR?

Syntax

< x > = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:

RTR DATA

:TRIGGER:ENHANCED:CANBUS:IDOR:ID1: RTR? -> :TRIGGER:ENHANCED:CANBUS:

IDOR:ID1:RTR DATA

# :TRIGger:ENHanced:CANBus:IDSTd?

Function Queries all settings related to the ID of the standard

:TRIGger:ENHanced:CANBus:IDSTd?

format of the CAN bus signal trigger.

Example :TRIGGER:ENHANCED:CANBUS:IDSTD?

-> :TRIGGER:ENHANCED:CANBUS:IDSTD:

PATTERN "00011111101"

## :TRIGger:ENHanced:CANBus:IDSTd:HEXA

Function Sets the ID of the standard format of the CAN bus

signal trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:CANBus:IDSTd:HEXA

 $\{<String>\}$ 

<String> = 3 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:ENHANCED:CANBUS:IDSTD:

HEXA "5DF"

### :TRIGger:ENHanced:CANBus:IDSTd:PATTern

Function Sets the ID of the standard format of the CAN bus signal trigger in binary notation or queries the current

setting.

Syntax :TRIGger:ENHanced:CANBus:IDSTd:

PATTern {<String>}

:TRIGger:ENHanced:CANBus:IDSTd:

PATTern?

<String> = 11 characters by combining '0,' '1,' and 'X'

Example :TRIGGER:ENHANCED:CANBUS:IDSTD:

PATTERN "10111011111"

:TRIGGER:ENHANCED:CANBUS:IDSTD:

PATTERN? -> :TRIGGER:ENHANCED:CANBUS:

IDSTD:PATTERN "10111011111"

# :TRIGger:ENHanced:CANBus:MODE

Function Sets the CAN bus signal trigger mode or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:MODE {EFRame|

IDEXt|IDOR|IDSTd|MSIGnal|SOF}
:TRIGger:ENHanced:CANBus:MODE?

Example :TRIGGER:ENHANCED:CANBUS:MODE EFRAME

:TRIGGER:ENHANCED:CANBUS:MODE?

-> :TRIGGER:ENHANCED:CANBUS:MODE EFRAME

## :TRIGger:ENHanced:CANBus:MSIGnal?

Function Queries all settings related to the message signal of the CAN bus signal trigger .

Syntax :TRIGger:ENHanced:CANBus:MSIGnal?

Example :TRIGGER:ENHANCED:CANBUS:MSIGNAL? ->

:TRIGGER:ENHANCED:CANBUS:MSIGNAL:

MESSAGE1:MODE 1;:TRIGGER:ENHANCED:

CANBUS:MSIGNAL:MESSAGE2:MODE 0;:

TRIGGER: ENHANCED: CANBUS: MSIGNAL:

MESSAGE3:MODE 0;:TRIGGER:ENHANCED:
CANBUS:MSIGNAL:MESSAGE4:MODE 0;:

TRIGGER: ENHANCED: CANBUS: MSIGNAL:

IRIGGER: ENHANCED: CANBUS: MSIGNAL

SELECT MESSAGE; SIGNAL1:

CONDITION BETWEEN; DATA1 0.0000000E+00;

DATA2 255.00000E+00; MODE 1;:TRIGGER:

ENHANCED: CANBUS: MSIGNAL: SIGNAL2:

CONDITION DONTCARE; DATA1 0.0000000E+00;

DATA2 255.00000E+00; MODE 0;:TRIGGER:

ENHANCED: CANBUS: MSIGNAL: SIGNAL3:

CONDITION DONTCARE; DATA1 0.0000000E+00;

DATA2 255.00000E+00; MODE 0;:TRIGGER:

ENHANCED: CANBUS: MSIGNAL: SIGNAL4:

CONDITION DONTCARE; DATA1 0.0000000E+00;

DATA2 255.00000E+00; MODE 0

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# :TRIGger:ENHanced:CANBus:MSIGnal:

# MESSage<x>?

Function Queries all settings related to the message of the

CAN bus signal trigger.

Syntax :TRIGger:ENHanced:CANBus:MSIGnal:

MESSage<x>?

Example :TRIGGER:ENHANCED:CANBUS:MSIGNAL:

MESSAGE1? -> :TRIGGER:ENHANCED:CANBUS:

MSIGNAL:MESSAGE1:MODE 1

# :TRIGger:ENHanced:CANBus:MSIGnal:

## MESSage<x>:ITEM

Function Sets the CAN bus signal trigger message item.

Syntax :TRIGger:ENHanced:CANBus:MSIGnal:

MESSage<x>:ITEM {<string>}

< x > = 1 to 4

<string> = Up to 32 characters

Example :TRIGGER:ENHANCED:CANBUS:MSIGNAL:

MESSAGE1:ITEM "TEST"

### :TRIGger:ENHanced:CANBus:MSIGnal:

### MESSage<x>:MODE

Function Turns ON/OFF the CAN bus signal trigger message

or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:MSIGnal:

MESSage<x>:MODE {<Boolean>}

 $: {\tt TRIGger:ENHanced:CANBus:MSIGnal:}$ 

MESSage<x>:MODE?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:MSIGNAL:

MESSAGE1:MODE ON

:TRIGGER:ENHANCED:CANBUS:MSIGNAL:
MESSAGE1:MODE? -> :TRIGGER:ENHANCED:

CANBUS:MSIGNAL:MESSAGE1:MODE 1

# :TRIGger:ENHanced:CANBus:MSIGnal:

# SELect

Function Sets the message signal conditions for the CAN bus

signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:MSIGnal:

SELect {MESSage|SIGNal}

:TRIGger:ENHanced:CANBus:MSIGnal:

SELect?

Example :TRIGGER:ENHANCED:CANBUS:MSIGNAL:

SELECT MESSAGE

:TRIGGER:ENHANCED:CANBUS:MSIGNAL: SELECT? -> :TRIGGER:ENHANCED:CANBUS:

MSIGNAL: SELECT MESSAGE

## :TRIGger:ENHanced:CANBus:MSIGnal:

### SIGNal<x>?

Function Queries all settings related to the signal of the CAN

bus signal trigger.

Syntax :TRIGger:ENHanced:CANBus:MSIGnal:

SIGNal < x > ? < x > = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:MSIGNAL:

SIGNAL1? -> :TRIGGER:ENHANCED:CANBUS:
MSIGNAL:SIGNAL1:CONDITION BETWEEN;

DATA1 0.000000E+00;

DATA2 255.00000E+00; MODE 1

## :TRIGger:ENHanced:CANBus:MSIGnal:

### SIGNal<x>:CONDition

Function Sets the signal data conditions for the CAN bus signal

trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:MSIGnal:

SIGNal<x>:CONDition {BETWeen|DONTcare|

FALSe|GTHan|LTHan|ORANge|TRUE}
:TRIGger:ENHanced:CANBus:MSIGnal:

SIGNal<x>: CONDition?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:MSIGNAL:

SIGNAL1: CONDITION BETWEEN

:TRIGGER:ENHANCED:CANBUS:MSIGNAL: SIGNAL1:CONDITION? -> :TRIGGER: ENHANCED:CANBUS:MSIGNAL:SIGNAL1:

CONDITION BETWEEN

### :TRIGger:ENHanced:CANBus:MSIGnal:

### SIGNal<x>:DATA<x>

Function Sets the signal data comparison data for the CAN

bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:MSIGnal:

 $SIGNal< x>:DATA< x> {<NRf>}$ 

:TRIGger:ENHanced:CANBus:MSIGnal:

SIGNal<x>: DATA<x>? <x> of SIGNal<x> = 1 to 4 <x> of DATA<x> = 1, 2

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:ENHANCED:CANBUS:MSIGNAL:

SIGNAL1:DATA1 1

:TRIGGER:ENHANCED:CANBUS:MSIGNAL: SIGNAL1:DATA1? -> :TRIGGER:ENHANCED:

CANBUS:MSIGNAL:SIGNAL1:
DATA1 1.0000000E+00

# :TRIGger:ENHanced:CANBus:MSIGnal:

### SIGNal<x>:ITEM

Function Sets the CAN bus signal trigger signal item.

Syntax :TRIGger:ENHanced:CANBus:MSIGnal:

SIGNal<x>:ITEM {<string>, <string>}

< x > = 1 to 4

<string> = Up to 32 characters

Description The first string sets the signal, and the next string sets the message.

# :TRIGger:ENHanced:CANBus:MSIGnal: SIGNal<x>:MODE

Function Turns ON/OFF the CAN bus signal trigger signal or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:MSIGnal:

SIGNal<x>:MODE {<Boolean>}

:TRIGger:ENHanced:CANBus:MSIGnal:

SIGNal<x>:MODE?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:MSIGNAL:

SIGNAL1:MODE ON

:TRIGGER:ENHANCED:CANBUS:MSIGNAL: SIGNAL1:MODE? -> :TRIGGER:ENHANCED: CANBUS:MSIGNAL:SIGNAL1:MODE 1

### :TRIGger:ENHanced:CANBus:RECessive

Function Sets the recessive level (bus level) of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:

RECessive {HIGH|LOW}

:TRIGger:ENHanced:CANBus:RECessive?

Example :TRIGGER:ENHANCED:CANBUS:

RECESSIVE HIGH

:TRIGGER:ENHANCED:CANBUS:RECESSIVE?

-> :TRIGGER:ENHANCED:CANBUS:

RECESSIVE HIGH

# :TRIGger:ENHanced:CANBus:RTR

Function Sets the RTR of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:

RTR {DATA|DONTcare|REMote}
:TRIGger:ENHanced:CANBus:RTR?

Example :TRIGGER:ENHANCED:CANBUS:RTR DATA

:TRIGGER:ENHANCED:CANBUS:RTR?

-> :TRIGGER:ENHANCED:CANBUS:RTR DATA

### :TRIGger:ENHanced:CANBus:SOURce

Function Sets the trigger source of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:SOURce

 $\{ < NRf > \}$ 

:TRIGger:ENHanced:CANBus:SOURce?

<NRf> = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:SOURCE 1

:TRIGGER:ENHANCED:CANBUS:SOURCE?

-> :TRIGGER:ENHANCED:CANBUS:SOURCE 1

# :TRIGger:ENHanced:CANBus:SPOint

Function Sets the sample point of the CAN bus signal trigger

or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:SPOint

{ < NRf > }

:TRIGger:ENHanced:CANBus:SPOint?

<NRf> = 18.8 to 90.6(%)

Example :TRIGGER:ENHANCED:CANBUS:SPOINT 18.8

:TRIGGER:ENHANCED:CANBUS:

SPOINT? -> :TRIGGER:ENHANCED:CANBUS:

SPOINT 18.8E+00

# :TRIGger:ENHanced:FLEXray?

Function Queries all settings related to the FLEXRAY bus signal trigger.

Syntax :TRIGger:ENHanced:FLEXray?

Example :TRIGGER:ENHANCED:FLEXRAY? -> :TRIGGER:

ENHANCED: FLEXRAY: BRATE 5000000; ERROR:

BSS 1; CHANNEL DUAL; CRC 1; CRCBUS1 A;

CRCBUS2 A;FES 1;SOURCE1 1;SOURCE2 1;:
TRIGGER:ENHANCED:FLEXRAY:IDDATA:

CCOUNT: CONDITION BETWEEN; COUNT1 10;

COUNT2 63;:TRIGGER:ENHANCED:FLEXRAY:

IDDATA: DATA: BORDER BIG;

CONDITION BETWEEN; DATA1 1.0000000E+00;

 ${\tt DATA2 1.0000000E+00; DPOSITION 1;}$ 

DSIZE 1; MSBLSB 1, 0;

PATTERN "10101001"; SIGN SIGN;:

 ${\tt TRIGGER:ENHANCED:FLEXRAY:IDDATA:FID:}$ 

CONDITION BETWEEN; ID1 100; ID2 2047;:

TRIGGER: ENHANCED: FLEXRAY: IDDATA:

INDICATOR:CONDITION DONTCARE;

NFRAME DONTCARE; PPREAMBLE DONTCARE;

STFRAME DONTCARE; SYFRAME DONTCARE;:

 ${\tt TRIGGER:ENHANCED:FLEXRAY:IDOR:}$ 

DPOSITION 0;DSIZE 1;IDDATA1:CCOUNT:

CONDITION BETWEEN; COUNT1 0; COUNT2 0;: TRIGGER: ENHANCED: FLEXRAY: IDOR: IDDATA1:

DATA:BORDER BIG; CONDITION BETWEEN;

DATA1 1.0000000E+00;

DATA2 255.00000E+00; MSBLSB 1, 0.....

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### :TRIGger:ENHanced:FLEXray:BRATe

Sets the FLEXRAY bus signal trigger bit rate (data transfer rate) or queries the current setting.

:TRIGger:ENHanced:FLEXray:BRATe {<NRf>} Syntax

> :TRIGger:ENHanced:FLEXray:BRATe? <NRf> = 2500000, 5000000, 10000000

Example :TRIGGER:ENHANCED:FLEXRAY:BRATE 5000000

:TRIGGER:ENHANCED:FLEXRAY:BRATE? -> :TRIGGER:ENHANCED:FLEXRAY:BRATE 5000000

### :TRIGger:ENHanced:FLEXray:ERRor?

Function Queries all settings related to the FLEXRAY bus signal trigger error.

Syntax :TRIGger:ENHanced:FLEXray:ERRor? Example :TRIGGER:ENHANCED:FLEXRAY:ERROR? -> :TRIGGER:ENHANCED:FLEXRAY:ERROR:BSS 1; CHANNEL DUAL; CRC 1; CRCBUS1 A; CRCBUS2 A; FES 1; SOURCE1 1; SOURCE2 1

#### :TRIGger:ENHanced:FLEXray:ERRor:BSS

Function Sets the FLEXRAY bus signal trigger BSS error or queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:ERRor:BSS

{<Boolean>}

:TRIGger:ENHanced:FLEXray:ERRor:BSS? Example :TRIGGER:ENHANCED:FLEXRAY:ERROR:BSS ON

:TRIGGER:ENHANCED:FLEXRAY:ERROR:BSS? ->

:TRIGGER:ENHANCED:FLEXRAY:ERROR:BSS 1

# :TRIGger:ENHanced:FLEXray:ERRor: CHANnel

Function Sets the FLEXRAY bus signal trigger error channel or queries the current setting.

:TRIGger:ENHanced:FLEXray:ERRor: Syntax

CHANnel {DUAL|SINGle}

:TRIGger:ENHanced:FLEXray:ERRor:

CHANnel?

Example :TRIGGER:ENHANCED:FLEXRAY:ERROR:

CHANNEL DUAL

:TRIGGER:ENHANCED:FLEXRAY:ERROR: CHANNEL? -> :TRIGGER:ENHANCED:FLEXRAY:

ERROR: CHANNEL DUAL

# :TRIGger:ENHanced:FLEXray:ERRor:CRC

Function Sets the FLEXRAY bus signal trigger CRC error or queries the current setting.

:TRIGger:ENHanced:FLEXray:ERRor: Syntax

CRC {<Boolean>}

Example :TRIGGER:ENHANCED:FLEXRAY:ERROR:CRC ON

:TRIGGER:ENHANCED:FLEXRAY:ERROR:CRC 1

# :TRIGger:ENHanced:FLEXray:ERRor:

### CRCBus<x>

Function Sets the target channel of the FLEXRAY bus signal trigger CRC error or queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:ERRor:

CRCBus<x> {A|B}

:TRIGger:ENHanced:FLEXray:ERRor:

CRCBus<x>? < x > = 1.2

Example :TRIGGER:ENHANCED:FLEXRAY:ERROR:

CRCBUS1 A

:TRIGGER:ENHANCED:FLEXRAY:ERROR:

CRCBUS1? -> :TRIGGER:ENHANCED:FLEXRAY:

ERROR: CRCBUS1 A

### :TRIGger:ENHanced:FLEXray:ERRor:FES

Function Sets the FLEXRAY bus signal trigger FES error or queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:ERRor:

FES {<Boolean>}

:TRIGger:ENHanced:FLEXray:ERRor:FES?

Example :TRIGGER:ENHANCED:FLEXRAY:ERROR:FES ON :TRIGGER:ENHANCED:FLEXRAY:ERROR:FES? ->

:TRIGGER:ENHANCED:FLEXRAY:ERROR:FES 1

# :TRIGger:ENHanced:FLEXray:ERRor:

### SOURce<x>

Function Sets the FLEXRAY bus signal trigger error source or queries the current setting.

:TRIGger:ENHanced:FLEXray:ERRor: Syntax

SOURce<x> {<NRf>}

:TRIGger:ENHanced:FLEXray:ERRor:

SOURce<x>? < x > = 1.2< NRf > = 1 to 4

:TRIGGER:ENHANCED:FLEXRAY:ERROR:

SOURCE1 1

:TRIGGER:ENHANCED:FLEXRAY:ERROR:

SOURCE1? -> :TRIGGER:ENHANCED:FLEXRAY:

ERROR: SOURCE1 1

:TRIGger:ENHanced:FLEXray:ERRor:CRC?

:TRIGGER:ENHANCED:FLEXRAY:ERROR:CRC? ->

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## :TRIGger:ENHanced:FLEXray:IDData?

Function Queries all settings related to the IDData of the FLEXRAY bus signal trigger.

CONDITION BETWEEN; DATA1 1.0000000E+00;
DATA2 1.0000000E+00; DPOSITION 1; DSIZE 1;
MSBLSB 1, 0; PATTERN "10101001";
SIGN SIGN;: TRIGGER: ENHANCED: FLEXRAY:
IDDATA: FID: CONDITION BETWEEN; ID1 100;
ID2 2047;: TRIGGER: ENHANCED: FLEXRAY:
IDDATA: INDICATOR: CONDITION DONTCARE;

NFRAME DONTCARE; PPREAMBLE DONTCARE; STFRAME DONTCARE; SYFRAME DONTCARE

# :TRIGger:ENHanced:FLEXray:IDData:CCOunt?

Function Queries all settings related to the Cycle Count of the FLEXRAY bus signal trigger.

Syntax :TRIGger:ENHanced:FLEXray:IDData:

CCOunt?

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:

CCOUNT? -> :TRIGGER:ENHANCED:FLEXRAY:

IDDATA:CCOUNT:CONDITION BETWEEN;

COUNT1 10; COUNT2 63

## :TRIGger:ENHanced:FLEXray:IDData:

## CCOunt:CONDition

Function Sets the Cycle Count data conditions of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:IDData:

CCOunt:CONDition {BETWeen|DONTcare|
FALSe|GTHan|LTHan|ORANge|TRUE}
:TRIGger:ENHanced:FLEXray:IDData:

CCOunt: CONDition?

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:

CCOUNT: CONDITION BETWEEN

 $: {\tt TRIGGER:ENHANCED:FLEXRAY:IDDATA:}$ 

CCOUNT:CONDITION? -> :TRIGGER:ENHANCED: FLEXRAY:IDDATA:CCOUNT:CONDITION BETWEEN

## :TRIGger:ENHanced:FLEXray:IDData:

### CCOunt:COUNt<x>

Function Sets the FLEXRAY bus signal trigger Cycle Count or queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:IDData:

CCOunt:COUNt<x> {<NRf>}

:TRIGger:ENHanced:FLEXray:IDData:

CCOunt:COUNt<x>?

< x > = 1, 2

< NRf > = 0 to 63

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:

CCOUNT: COUNT1 10

:TRIGGER:ENHANCED:FLEXRAY:IDDATA:
CCOUNT:COUNT1? -> :TRIGGER:ENHANCED:

FLEXRAY: IDDATA: CCOUNT: COUNT1 10

Description • For :TRIGger:ENHanced:FLEXray:IDData: CCOunt:CONDition GTHan, set using: TRIGger: ENHanced:FLEXray:IDData:CCOunt:COUNt1.

- For :TRIGger:ENHanced:FLEXray:IDData:CCOunt: CONDition LTHan, set using: TRIGger:ENHanced: FLEXray:IDData:CCOunt:COUNt2.
- For :TRIGger:ENHanced:FLEXray:IDData: CCOunt:CONDition BETWeen|ORANge, set small values with: TRIGger:ENHanced:FLEXray:IDData: CCOunt:COUNt1, and large values with: TRIGger: ENHanced:FLEXray:IDData:CCOunt:COUNt2.

# :TRIGger:ENHanced:FLEXray:IDData:DATA?

Function Queries all settings related to the Data Field of the FLEXRAY bus signal trigger.

Syntax :TRIGger:ENHanced:FLEXray:IDData:DATA?

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:

DATA? -> :TRIGGER:ENHANCED:FLEXRAY:

IDDATA: DATA: BORDER BIG; CONDITION

BETWEEN; DATA1 1.0000000E+00; DATA2 1.0000000E+00; DPOSITION 1;

DSIZE 1; MSBLSB 1, 0; PATTERN "10101001";

SIGN SIGN

# :TRIGger:ENHanced:FLEXray:IDData:

### DATA:BORDer

Function Sets the byte order of the Data Field of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:IDData:DATA:

BORDer {BIG|LITTle}

 $: {\tt TRIGger:ENHanced:FLEXray:IDData:DATA:}$ 

BORDer?

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:DATA:

BORDER BIG

:TRIGGER:ENHANCED:FLEXRAY:IDDATA:DATA:
BORDER? -> :TRIGGER:ENHANCED:FLEXRAY:

IDDATA:DATA:BORDER BIG

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### DATA: CONDition

Function Sets the data conditions of the Data Field of the FLEXRAY bus signal trigger or queries the current

setting.

Syntax :TRIGger:ENHanced:FLEXray:IDData:DATA:

CONDition {BETWeen|DONTcare|FALSe|

GTHan | LTHan | ORANge | TRUE }

:TRIGger:ENHanced:FLEXray:IDData:DATA:

CONDition?

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:DATA:

CONDITION BETWEEN

:TRIGGER:ENHANCED:FLEXRAY:IDDATA:
DATA:CONDITION? -> :TRIGGER:ENHANCED:
FLEXRAY:IDDATA:DATA:CONDITION BETWEEN

# :TRIGger:ENHanced:FLEXray:IDData: DATA:DATA<x>

Function Sets the comparison data of the Data Field of the FLEXRAY bus signal trigger or queries the current

setting.

Syntax :TRIGger:ENHanced:FLEXray:IDData:DATA:

DATA<x> {<NRf>}

:TRIGger:ENHanced:FLEXray:IDData:DATA:

DATA<x>? < x> = 1, 2

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:DATA:

ATA1 1

:TRIGGER:ENHANCED:FLEXRAY:IDDATA:DATA:
DATA1? -> :TRIGGER:ENHANCED:FLEXRAY:
IDDATA:DATA:DATA1 1.0000000E+00

Description • For :TRIGger:ENHanced:FLEXray:IDData:DATA:
CONDition GTHan, set using: TRIGger:ENHanced:
FLEXray:IDData:DATA:DATA1.

- For :TRIGger:ENHanced:FLEXray:IDData:DATA: CONDition LTHan, set using: TRIGger:ENHanced: FLEXray:IDData:DATA:DATA2.
- For :TRIGger:ENHanced:FLEXray:IDData:DATA: CONDition BETWeen|ORANge, set small values with: TRIGger:ENHanced:FLEXray:IDData:DATA: DATA1, and large values with: TRIGger:ENHanced: FLEXray:IDData:DATA:DATA2.

# :TRIGger:ENHanced:FLEXray:IDData:DATA: DPOSition

Function Sets the position for pattern comparison of the data of the Data Field of the FLEXRAY bus signal trigger or queries the current setting.

:TRIGger:ENHanced:FLEXray:IDData:DATA:

DPOSition {<NRf>}

:TRIGger:ENHanced:FLEXray:IDData:DATA:

DPOSition? <NRf> = 0 to 253

Syntax

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:DATA:

DPOSITION 1

:TRIGGER:ENHANCED:FLEXRAY:IDDATA:
DATA:DPOSITION? -> :TRIGGER:ENHANCED:
FLEXRAY:IDDATA:DATA:DPOSITION 1

# :TRIGger:ENHanced:FLEXray:IDData: DATA:DSIZe

Function Sets the number of bytes of data in the Data Field of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:IDData:DATA:

DSIZe {<NRf>}

:TRIGger:ENHanced:FLEXray:IDData:DATA:

DSIZe?

<NRf> = 1 to 8

 ${\tt Example} \quad : {\tt TRIGGER:ENHANCED:FLEXRAY:IDDATA:DATA:}$ 

DSIZE 1

:TRIGGER:ENHANCED:FLEXRAY:IDDATA:DATA:DSIZE? -> :TRIGGER:ENHANCED:FLEXRAY:

IDDATA:DATA:DSIZE 1

# :TRIGger:ENHanced:FLEXray:IDData: DATA:HEXA

Function Sets the data in the Data Field of the FLEXRAY bus signal trigger in hexadecimal.

Syntax :TRIGger:ENHanced:FLEXray:IDData:DATA:

HEXA {<string>}

<string> = Up to 16 characters by combining '0' to 'F,'

and 'X,' units of 1 byte

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:DATA:

HEXA "A9"

# :TRIGger:ENHanced:FLEXray:IDData: DATA: MSBLsb

Function Sets the MSB/LSB bit of data in the Data Field of the FLEXRAY bus signal trigger or queries the current

:TRIGger:ENHanced:FLEXray:IDData:DATA: Syntax

MSBLsb {<NRf>, <NRf>}

:TRIGger:ENHanced:FLEXray:IDData:DATA:

MSBLsb?

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:DATA:

MSBLSB 1, 0

:TRIGGER:ENHANCED:FLEXRAY:IDDATA:DATA: MSBLSB? -> :TRIGGER:ENHANCED:FLEXRAY:

IDDATA:DATA:MSBLSB 1, 0

# :TRIGger:ENHanced:FLEXray:IDData: DATA: PATTern

Function Sets the data of the Data Field of the FLEXRAY bus signal trigger in binary or queries the current setting.

:TRIGger:ENHanced:FLEXray:IDData:DATA: Syntax

PATTern {<string>}

:TRIGger:ENHanced:FLEXray:IDData:DATA:

PATTern?

<string> = Up to 32 characters by combining '0,' '1,' and 'X,' units of 1 byte

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:DATA:

PATTERN "11011111"

:TRIGGER:ENHANCED:FLEXRAY:IDDATA:DATA: PATTERN? -> :TRIGGER:ENHANCED:FLEXRAY:

IDDATA:DATA:PATTERN "11011111"

# :TRIGger:ENHanced:FLEXray:IDData:

# DATA: SIGN

Sets the data sign of the Data Field of the FLEXRAY Function bus signal trigger or queries the current setting.

:TRIGger:ENHanced:FLEXray:IDData:DATA: Syntax

SIGN {SIGN|UNSign}

:TRIGger:ENHanced:FLEXray:IDData:DATA:

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:DATA:

SIGN SIGN

:TRIGGER:ENHANCED:FLEXRAY:IDDATA:DATA:

SIGN? -> :TRIGGER:ENHANCED:FLEXRAY:

IDDATA:DATA:SIGN SIGN

## :TRIGger:ENHanced:FLEXray:IDData:FID?

Function Queries all settings related to the Frame ID of the FLEXRAY bus signal trigger.

:TRIGger:ENHanced:FLEXray:IDData:FID?

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:FID?

-> :TRIGGER:ENHANCED:FLEXRAY:IDDATA:

FID: CONDITION BETWEEN; ID1 100; ID2 2047

# :TRIGger:ENHanced:FLEXray:IDData: FID: CONDition

Sets the Frame ID data conditions of the FLEXRAY Function bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:IDData:FID:

CONDition {BETWeen|DONTcare|FALSe|

GTHan | LTHan | ORANge | TRUE }

:TRIGger:ENHanced:FLEXray:IDData:FID:

CONDition?

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:FID:

CONDITION BETWEEN

:TRIGGER:ENHANCED:FLEXRAY:IDDATA: FID:CONDITION? -> :TRIGGER:ENHANCED: FLEXRAY: IDDATA: FID: CONDITION BETWEEN

:TRIGger:ENHanced:FLEXray:IDData:

# FID: ID<x>

Function Sets the Frame ID data conditions of the FLEXRAY bus signal trigger or queries the current setting.

:TRIGger:ENHanced:FLEXray:IDData:FID: Syntax

 $ID < x > \{ < NRf > \}$ 

:TRIGger:ENHanced:FLEXray:IDData:FID:

ID<x>?

< x > = 1.2

<NRf> = 1 to 2047

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:FID:

ID1 100

:TRIGGER:ENHANCED:FLEXRAY:IDDATA:FID:

ID1? -> :TRIGGER:ENHANCED:FLEXRAY:

IDDATA:FID:ID1 100

Description • For :TRIGger:ENHanced:FLEXray:IDData:FID: CONDition GTHan, set using: TRIGger:ENHanced: FLEXray:IDData:FID:ID1.

- For :TRIGger:ENHanced:FLEXray:IDData:FID: CONDition LTHan, set using: TRIGger:ENHanced: FLEXray:IDData:FID:ID2.
- For :TRIGger:ENHanced:FLEXray:IDData:FID: CONDition BETWeen|ORANge, set small values with: TRIGger:ENHanced:FLEXray:IDData:FID: ID1, and large values with: TRIGger:ENHanced: FLEXray:IDData:FID:ID2.

# :TRIGger:ENHanced:FLEXray:IDData: INDicator?

Function Queries all settings related to the Indicator of the FLEXRAY bus signal trigger.

Syntax :TRIGger:ENHanced:FLEXray:IDData: INDicator?

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:

INDICATOR? -> :TRIGGER:ENHANCED:

FLEXRAY: IDDATA: INDICATOR:

CONDITION DONTCARE; NFRAME DONTCARE; PPREAMBLE DONTCARE; STFRAME DONTCARE;

SYFRAME DONTCARE

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# :TRIGger:ENHanced:FLEXray:IDData: INDicator:CONDition

Function Sets the data conditions of the Indicator of the FLEXRAY bus signal trigger or queries the current

setting.

Syntax :TRIGger:ENHanced:FLEXray:

IDData:INDicator:

CONDition {DONTcare|FALSe|TRUE}
:TRIGger:ENHanced:FLEXray:IDData:

INDicator:CONDition?

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:

INDICATOR:CONDITION DONTCARE
:TRIGGER:ENHANCED:FLEXRAY:IDDATA:
INDICATOR:CONDITION? -> :TRIGGER:
ENHANCED:FLEXRAY:IDDATA:INDICATOR:

CONDITION DONTCARE

# :TRIGger:ENHanced:FLEXray:IDData:

### INDicator:NFRame

Function Sets the Null frame of the Indicator of the FLEXRAY

bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:IDData:

INDicator:NFRame {DONTcare|OFF|ON}
:TRIGger:ENHanced:FLEXray:IDData:

INDicator:NFRame?

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:

INDICATOR:NFRAME DONTCARE

 $: {\tt TRIGGER:ENHANCED:FLEXRAY:IDDATA:}$ 

INDICATOR:NFRAME? -> :TRIGGER:ENHANCED:

FLEXRAY: IDDATA: INDICATOR: NFRAME

DONTCARE

# :TRIGger:ENHanced:FLEXray:IDData:

# INDicator: PPReamble

Function Sets the Payload preamble of the Indicator of the FLEXRAY bus signal trigger or queries the current

setting.

Syntax :TRIGger:ENHanced:FLEXray:IDData:

INDicator:PPReamble {DONTcare|OFF|ON}

 $: {\tt TRIGger:ENHanced:FLEXray:IDData:}$ 

INDicator:PPReamble?

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:

INDICATOR:PPREAMBLE DONTCARE
:TRIGGER:ENHANCED:FLEXRAY:IDDATA:
INDICATOR:PPREAMBLE? -> :TRIGGER:
ENHANCED:FLEXRAY:IDDATA:INDICATOR:

PPREAMBLE DONTCARE

## :TRIGger:ENHanced:FLEXray:IDData:

### INDicator:STFRame

Function Sets the Start frame of the Indicator of the FLEXRAY

bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:IDData:

INDicator:STFRame {DONTcare|OFF|ON}
:TRIGger:ENHanced:FLEXray:IDData:

INDicator:STFRame?

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:

INDICATOR:STFRAME DONTCARE

:TRIGGER:ENHANCED:FLEXRAY:IDDATA: INDICATOR:STFRAME? -> :TRIGGER: ENHANCED:FLEXRAY:IDDATA:INDICATOR:

STFRAME DONTCARE

# :TRIGger:ENHanced:FLEXray:IDData:

#### INDicator: SYFRame

Function Sets the Sync frame of the Indicator of the FLEXRAY

bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:IDData:

INDicator:SYFRame {DONTcare|OFF|ON}

:TRIGger:ENHanced:FLEXray:IDData:

INDicator:SYFRame?

Example :TRIGGER:ENHANCED:FLEXRAY:IDDATA:

INDICATOR: SYFRAME DONTCARE

:TRIGGER:ENHANCED:FLEXRAY:IDDATA:
INDICATOR:SYFRAME? -> :TRIGGER:
ENHANCED:FLEXRAY:IDDATA:INDICATOR:

SYFRAME DONTCARE

# :TRIGger:ENHanced:FLEXray:IDOR?

Function Queries all settings related to the OR condition of the FLEXRAY bus signal trigger.

Syntax :TRIGger:ENHanced:FLEXray:IDOR?

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR? ->

:TRIGGER:ENHANCED:FLEXRAY:IDOR:
DPOSITION 0;DSIZE 1;IDDATA1:CCOUNT:

CONDITION BETWEEN; COUNT1 10; COUNT2 10;:

TRIGGER: ENHANCED: FLEXRAY: IDOR: IDDATA1:

DATA:BORDER BIG; CONDITION BETWEEN; DATA1

1.0000000E+00;DATA2 255.00000E+00;

MSBLSB 1, 0; PATTERN "10101001";

SIGN SIGN;:TRIGGER:ENHANCED:FLEXRAY:

IDOR:IDDATA1:FID:CONDITION BETWEEN;

ID1 100;ID2 1;:TRIGGER:ENHANCED:

FLEXRAY: IDOR: IDDATA1: INDICATOR:

CONDITION DONTCARE; NFRAME DONTCARE;

PPREAMBLE DONTCARE; STFRAME DONTCARE;

SYFRAME DONTCARE;:TRIGGER:ENHANCED:

FLEXRAY:IDOR:IDDATA1:MODE 1;:TRIGGER: ENHANCED:FLEXRAY:IDOR:IDDATA2:CCOUNT:

CONDITION DONTCARE; COUNT1 10;

COUNT2 10....

# :TRIGger:ENHanced:FLEXray:IDOR: DPOSition

Function Sets the position for pattern comparison of the data of the Data Field of the OR condition of the FLEXRAY

bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

DPOSition {<NRf>}

:TRIGger:ENHanced:FLEXray:IDOR:

DPOSition? <NRf> = 0 to 253

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:

DPOSITION 1

:TRIGGER:ENHANCED:FLEXRAY:IDOR:
DPOSITION? -> :TRIGGER:ENHANCED:
FLEXRAY:IDOR:DPOSITION 1

# :TRIGger:ENHanced:FLEXray:IDOR:DSIZe

Function Sets the number of bytes of data in the Data Field of the OR condition of the FLEXRAY bus signal trigger

or queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

DSIZe {<NRf>}

:TRIGger:ENHanced:FLEXray:IDOR:DSIZe?

< NRf > = 1 to 8

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:DSIZE 1

:TRIGGER:ENHANCED:FLEXRAY:IDOR:DSIZE?
-> :TRIGGER:ENHANCED:FLEXRAY:IDOR:

DSIZE 1

# :TRIGger:ENHanced:FLEXray:IDOR:

### IDData<x>?

Function Queries all settings related to each IDData of the OR

condition of the FLEXRAY bus signal trigger.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1?

-> :TRIGGER:ENHANCED:FLEXRAY:IDOR:

IDDATA1:CCOUNT:CONDITION BETWEEN;

COUNT1 10; COUNT2 10; :TRIGGER:

ENHANCED:FLEXRAY:IDOR:IDDATA1:

DATA: BORDER BIG; CONDITION BETWEEN;

DATA1 1.0000000E+00; DATA2 255.00000E+00;

MSBLSB 1, 0; PATTERN "10101001";

SIGN SIGN;:TRIGGER:ENHANCED:FLEXRAY:

IDOR:IDDATA1:FID:CONDITION BETWEEN;

ID1 100;ID2 1;:TRIGGER:ENHANCED:

FLEXRAY: IDOR: IDDATA1: INDICATOR:

CONDITION DONTCARE; NFRAME DONTCARE;

PPREAMBLE DONTCARE; STFRAME DONTCARE;

SYFRAME DONTCARE;:TRIGGER:ENHANCED:

FLEXRAY: IDOR: IDDATA1: MODE 1

## :TRIGger:ENHanced:FLEXray:IDOR:

### IDData<x>:CCOunt?

Function Queries all settings related to the Cycle Count of

each IDData of the OR condition of the FLEXRAY bus

signal trigger.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:CCOunt?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:

IDDATA1:CCOUNT? -> :TRIGGER:ENHANCED:

FLEXRAY: IDOR: IDDATA1: CCOUNT:

CONDITION BETWEEN; COUNT1 10; COUNT2 10

## :TRIGger:ENHanced:FLEXray:IDOR:

### IDData<x>:CCOunt:CONDition

Function Sets each Cycle Count data condition of the OR condition of the FLEXRAY bus signal trigger or

queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:CCOunt:CONDition {BETWeen|
DONTcare|FALSe|GTHan|LTHan|ORANge|TRUE}

:TRIGger:ENHanced:FLEXray:IDOR: IDData<x>:CCOunt:CONDition?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

CCOUNT: CONDITION BETWEEN

:TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1: CCOUNT:CONDITION? -> :TRIGGER:ENHANCED:

FLEXRAY: IDOR: IDDATA1: CCOUNT:

CONDITION BETWEEN

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### IDData<x>:CCOunt:COUNt<x>

Function Sets each Cycle Count of the OR conditions of the

FLEXRAY bus signal trigger or queries the current

setting.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:CCOunt:COUNt<x> {<NRf>}
:TRIGger:ENHanced:FLEXray:IDOR:
IDData<x>:CCOunt:COUNt<x>?

<x> of IDData<x> = 1 to 4 <x> of COUNt<x> = 1, 2 <NRf> = 0 to 63

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

CCOUNT: COUNT1 10

:TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1: CCOUNT:COUNT1? -> :TRIGGER:ENHANCED: FLEXRAY:IDOR:IDDATA1:CCOUNT:COUNT1 10

Description • For :TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:CCOunt:CONDition GTHan, set using: TRIGger:ENHanced:FLEXray:IDOR:IDData<x>: CCOunt:COUNt1.

- For :TRIGger:ENHanced:FLEXray: IDOR:IDData<x>:CCOunt:CONDition BETWeen|ORANge, set small values with: TRIGger:ENHanced:FLEXray:IDOR:IDData<x>: CCOunt:COUNt1, and large values with: TRIGger: ENHanced:FLEXray:IDOR:IDData<x>:CCOunt: COUNt2.

## :TRIGger:ENHanced:FLEXray:IDOR:

# IDData<x>:DATA?

Function Queries all settings related to each Data Field of the OR condition of the FLEXRAY bus signal trigger.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:DATA?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

DATA? -> :TRIGGER:ENHANCED:FLEXRAY:

IDOR:IDDATA1:DATA:BORDER BIG;

CONDITION BETWEEN; DATA1 1.000000E+00;

DATA2 255.00000E+00;MSBLSB 1, 0; PATTERN "10101001";SIGN SIGN

## :TRIGger:ENHanced:FLEXray:IDOR:

### IDData<x>:DATA:BORDer

Function Sets the byte order of the Data Field of each OR condition of the FLEXRAY bus signal trigger or

queries the current setting.

:TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:DATA:BORDer?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

DATA:BORDER BIG

:TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:
DATA:BORDER? -> :TRIGGER:ENHANCED:
FLEXRAY:IDOR:IDDATA1:DATA:BORDER BIG

### :TRIGger:ENHanced:FLEXray:IDOR:

#### IDData<x>:DATA:CONDition

Function Sets the data condition of the Data Field of each
OR condition of the FLEXRAY bus signal trigger or

queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:DATA:CONDition {BETWeen|
DONTcare|FALSe|GTHan|LTHan|ORANge|TRUE}

:TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:DATA:CONDition?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

DATA: CONDITION BETWEEN

:TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

DATA: CONDITION? -> :TRIGGER: ENHANCED:

FLEXRAY: IDOR: IDDATA1: DATA:

CONDITION BETWEEN

### IDData<x>:DATA:DATA<x>

Function Sets the comparison data of the Data Field of each OR condition of the FLEXRAY bus signal trigger or queries the current setting.

:TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:DATA:DATA<x>? <x> of IDData<x> = 1 to 4 <x> of DATA<x> = 1, 2

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

DATA:DATA1 1

:TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:
DATA:DATA1? -> :TRIGGER:ENHANCED:
FLEXRAY:IDOR:IDDATA1:DATA:DATA1

1.000000E+00

DATA:DATA1.

Description • For :TRIGger:ENHanced:FLEXray:IDOR: IDData<x>:DATA:CONDition GTHan, set using: TRIGger:ENHanced:FLEXray:IDOR:IDData<x>:

 For :TRIGger:ENHanced:FLEXray:IDOR: IDData<x>:DATA:CONDition LTHan, set using: TRIGger:ENHanced:FLEXray:IDOR:IDData<x>: DATA:DATA2.

 For :TRIGger:ENHanced:FLEXray:IDOR: IDData<x>:DATA:CONDition BETWeen|ORANge, set small values with: TRIGger:ENHanced: FLEXray:IDOR:IDData<x>:DATA:DATA1, and large values with: TRIGger:ENHanced:FLEXray:IDOR: IDData<x>:DATA:DATA2.

## :TRIGger:ENHanced:FLEXray:IDOR:

# IDData<x>:DATA:HEXA

Function Sets the data in each Data Field of the OR condition of the FLEXRAY bus signal trigger in hexadecimal.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:DATA:HEXA {<string>}

<string> = Up to 16 characters by combining '0' to 'F,' and 'X,' units of 1 byte

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

DATA:HEXA "A9"

## :TRIGger:ENHanced:FLEXray:IDOR:

### IDData<x>:DATA:MSBLsb

Function Sets the MSB/LSB bit of data in each Data Field of the OR condition of the FLEXRAY bus signal trigger or queries the current setting.

:TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:DATA:MSBLsb?

< x > = 1 to 4

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

DATA: MSBLSB 1, 0

:TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:
DATA:MSBLSB? -> :TRIGGER:ENHANCED:

FLEXRAY: IDOR: IDDATA1: DATA: MSBLSB 1, 0

# :TRIGger:ENHanced:FLEXray:IDOR:

#### IDData<x>:DATA:PATTern

Function Sets the data of each Data Field of the OR conditions of the FLEXRAY bus signal trigger or queries the current setting.

> :TRIGger:ENHanced:FLEXray:IDOR: IDData<x>:DATA:PATTern?

< x > = 1 to 4

<string> = Up to 64 characters by combining '0,' '1,' and 'X,' units of 1 byte

and A, drins or i byte

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

DATA:PATTERN "11011111"

:TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:DATA:PATTERN? -> :TRIGGER:ENHANCED:

FLEXRAY: IDOR: IDDATA1: DATA:

PATTERN "11011111"

# :TRIGger:ENHanced:FLEXray:IDOR:

# IDData<x>:DATA:SIGN

Function Sets the data sign of the Data Field of each OR condition of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:DATA:SIGN {SIGN|UNSign}
:TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:DATA:SIGN?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

DATA:SIGN SIGN

:TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

DATA:SIGN? -> :TRIGGER:ENHANCED: FLEXRAY:IDOR:IDDATA1:DATA:SIGN SIGN

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### IDData<x>:FID?

Function Queries all settings related to each Frame ID of the OR condition of the FLEXRAY bus signal trigger.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:FID?<br/><x> = 1 to 4

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

FID? -> :TRIGGER:ENHANCED:FLEXRAY:
IDOR:IDDATA1:FID:CONDITION BETWEEN;

ID1 100; ID2 1

# :TRIGger:ENHanced:FLEXray:IDOR:

### IDData<x>:FID:CONDition

Function Sets each Frame ID data condition of the OR

condition of the FLEXRAY bus signal trigger or

queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:FID:CONDition {BETWeen|

 ${\tt DONTcare} \,|\, {\tt FALSe} \,|\, {\tt GTHan} \,|\, {\tt LTHan} \,|\, {\tt ORANge} \,|\, {\tt TRUE} \big\}$ 

:TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:FID:CONDition?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

FID: CONDITION BETWEEN

 $: {\tt TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:}$ 

FID:CONDITION? -> :TRIGGER:ENHANCED:

FLEXRAY:IDOR:IDDATA1:FID:

CONDITION BETWEEN

## :TRIGger:ENHanced:FLEXray:IDOR:

### IDData<x>:FID:ID<x>

Function Sets each Frame ID value of the OR condition of the FLEXRAY bus signal trigger or queries the current

setting.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:FID:ID<x> {<NRf>}

:TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:FID:ID<x>?
<x> of IDData<x> = 1 to 4

< x > of ID < x > = 1, 2

<NRf> = 1 to 2047

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

FID:ID1 100

:TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

FID:ID1? -> :TRIGGER:ENHANCED:FLEXRAY:

IDOR:IDDATA1:FID:ID1 100

> For:TRIGger:ENHanced:FLEXray:IDOR: IDData<x>:FID:CONDition LTHan, set using: TRIGger:ENHanced:FLEXray:IDOR:IDData<x>: FID:ID2.

For :TRIGger:ENHanced:FLEXray:IDOR:
 IDData<x>:FID:CONDition BETWeen|ORANge, set
 small values with: TRIGger:ENHanced:FLEXray:
 IDOR:IDData<x>:FID:ID1, and large values with:
 TRIGger:ENHanced:FLEXray:IDOR:IDData<x>:
 FID:ID2

# :TRIGger:ENHanced:FLEXray:IDOR:

# IDData<x>:INDicator?

Function Queries all settings related to each Indicator of the OR condition of the FLEXRAY bus signal trigger.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:INDicator?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

INDICATOR? -> :TRIGGER:ENHANCED:
FLEXRAY:IDOR:IDDATA1:INDICATOR:
CONDITION DONTCARE;NFRAME DONTCARE;
PPREAMBLE DONTCARE;STFRAME DONTCARE;

SYFRAME DONTCARE

### IDData<x>:INDicator:CONDition

Function Sets each Indicator data condition of the OR condition

of the FLEXRAY bus signal trigger or queries the

current setting.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:INDicator:

CONDition {DONTcare|FALSe|TRUE}
:TRIGger:ENHanced:FLEXray:IDOR:
IDData<x>:INDicator:CONDition?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

INDICATOR:CONDITION DONTCARE
:TRIGGER:ENHANCED:FLEXRAY:IDOR:
IDDATA1:INDICATOR:CONDITION? ->

:TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

INDICATOR: CONDITION DONTCARE

# :TRIGger:ENHanced:FLEXray:IDOR:

### IDData<x>:INDicator:NFRame

Function Sets each Indicator Null frame of the OR condition of the FLEXRAY bus signal trigger or queries the current

setting.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:INDicator:
NFRame {DONTcare|OFF|ON}

:TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:INDicator:NFRame?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

INDICATOR:NFRAME DONTCARE

:TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1: INDICATOR:NFRAME? -> :TRIGGER:ENHANCED:

 $\verb|FLEXRAY:IDOR:IDDATA1:INDICATOR:|\\$ 

NFRAME DONTCARE

# :TRIGger:ENHanced:FLEXray:IDOR:

# IDData<x>:INDicator:PPReamble

Function Sets each Indicator Payload preamble of the OR

condition of the FLEXRAY bus signal trigger or

queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:INDicator:

PPReamble {DONTcare|OFF|ON}
:TRIGger:ENHanced:FLEXray:IDOR:
IDData<x>:INDicator:PPReamble?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

INDICATOR:PPREAMBLE DONTCARE
:TRIGGER:ENHANCED:FLEXRAY:IDOR:
IDDATA1:INDICATOR:PPREAMBLE? ->

:TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

INDICATOR: PPREAMBLE DONTCARE

## :TRIGger:ENHanced:FLEXray:IDOR:

### IDData<x>:INDicator:STFRame

Function Sets each Indicator Start frame of the OR condition of

the FLEXRAY bus signal trigger or queries the current

setting.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:IDData<x>:

INDicator:STFRame {DONTcare|OFF|ON} :TRIGger:ENHanced:FLEXray:IDOR:IDData<x>:

INDicator:STFRame?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

INDICATOR:STFRAME DONTCARE

:TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1: INDICATOR:STFRAME? -> :TRIGGER:ENHANCED: FLEXRAY:IDOR:IDDATA1:INDICATOR:STFRAME

DONTCARE

### :TRIGger:ENHanced:FLEXray:IDOR:

### IDData<x>:INDicator:SYFRame

Function Sets each Indicator Synch frame of the OR condition of the FLEXRAY bus signal trigger or queries the

current setting.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:INDicator:
SYFRame {DONTcare|OFF|ON}
:TRIGger:ENHanced:FLEXray:IDOR:
IDData<x>:INDicator:SYFRame?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

INDICATOR: SYFRAME DONTCARE

 $: {\tt TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:}$ 

INDICATOR:SYFRAME? -> :TRIGGER: ENHANCED:FLEXRAY:IDOR:IDDATA1: INDICATOR:SYFRAME DONTCARE

# :TRIGger:ENHanced:FLEXray:IDOR:

# IDData<x>:MODE

Function Enables (1) or disables (0) each condition for each

OR condition of the FLEXRAY bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:MODE {<Boolean>}

:TRIGger:ENHanced:FLEXray:IDOR:

IDData<x>:MODE?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:FLEXRAY:IDOR:IDDATA1:

MODE ON

 $\verb:TRIGGER: ENHANCED: FLEXRAY: IDOR: IDDATA1:$ 

MODE? -> :TRIGGER:ENHANCED:FLEXRAY:

IDOR:IDDATA1:MODE 1

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### :TRIGger:ENHanced:FLEXray:MODE

Function Sets the FLEXRAY bus signal trigger mode or queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:MODE {ERRor|

FSTart | IDData | IDOR }

:TRIGger:ENHanced:FLEXray:MODE?

Example :TRIGGER:ENHANCED:FLEXRAY:MODE ERROR

:TRIGGER:ENHANCED:FLEXRAY:MODE? ->
:TRIGGER:ENHANCED:FLEXRAY:MODE ERROR

### :TRIGger:ENHanced:FLEXray:SOURce

Function Sets the FLEXRAY bus signal trigger source or

queries the current setting.

Syntax :TRIGger:ENHanced:FLEXray:

SOURce {<NRf>}

:TRIGger:ENHanced:FLEXray:SOURce?

< NRf > = 1 to 4

Example :TRIGGER:ENHANCED:FLEXRAY:SOURCE 1

:TRIGGER:ENHANCED:FLEXRAY:SOURCE? ->
:TRIGGER:ENHANCED:FLEXRAY:SOURCE 1

## :TRIGger:ENHanced:I2CBus?

Function Queries all settings related to the I<sup>2</sup>C bus trigger.

Syntax :TRIGger:ENHanced:I2CBus?

Example :TRIGGER:ENHANCED:I2CBUS? -> :TRIGGER:

ENHANCED: I2CBUS: ADATA: BIT10ADDRESS:
PATTERN "10111011111"; :TRIGGER:

ENHANCED: I2CBUS: ADATA: BIT7ADDRESS:
PATTERN "11011110";:TRIGGER: ENHANCED:

I2CBUS: ADATA: BIT7APSUB: ADDRESS:

PATTERN "10101011";:TRIGGER:ENHANCED:

12CBUS:ADATA:BIT7APSUB:SADDRESS:

PATTERN "10101011";:TRIGGER:ENHANCED:

12CBUS:ADATA:TYPE BIT10ADDRESS;:
TRIGGER:ENHANCED:12CBUS:CLOCK:

TRIGORIC BRITANCED : 12 CDOB : CLOCK :

SOURCE 1;:TRIGGER:ENHANCED:I2CBUS:DATA:

BYTE 1; CONDITION TRUE; DPOSITION 1;

MODE 1; PATTERN1 "10101011";

PATTERN2 "10101010";

PATTERN3 "10101111";

PATTERN4 "10101011"; PMODE DONTCARE;

SOURCE 1;:TRIGGER:ENHANCED:I2CBUS:

GCALL:BIT7MADDRESS:PATTERN "1010101";:

TRIGGER: ENHANCED: 12CBUS: GCALL:

SBYTE BIT7MADDRESS;:TRIGGER:ENHANCED:

12CBUS:MODE ADATA;NAIGNORE:HSMODE 1;

RACCESS 1;SBYTE 1;:TRIGGER:ENHANCED:

12CBUS:SBHSMODE:TYPE HSMODE

### :TRIGger:ENHanced:I2CBus:ADATa?

bus trigger.

TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7ADDRESS:PATTERN "11011110";:
TRIGGER:ENHANCED:I2CBUS:ADATA:

BIT7APSUB:ADDRESS:PATTERN "10101011";:

TRIGGER: ENHANCED: 12CBUS: ADATA:

BIT7APSUB:SADDRESS:PATTERN "10101011";:

TRIGGER: ENHANCED: 12CBUS: ADATA:

TYPE BIT10ADDRESS

# :TRIGger:ENHanced:I2CBus:ADATa:

### BIT10address?

Function Queries all settings related to the 10-bit address of

the I<sup>2</sup>C bus trigger.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:

BIT10address?

Example :TRIGGER:ENHANCED:12CBUS:ADATA:

BIT10ADDRESS? -> :TRIGGER:ENHANCED:

12CBUS:ADATA:BIT10ADDRESS:
PATTERN "1011110111111"

# :TRIGger:ENHanced:I2CBus:ADATa:

# BIT10address:HEXA

Function Sets the 10-bit address of the I<sup>2</sup>C bus trigger in

hexadecimal notation.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:

BIT10address:HEXA {<String>}

<String> = 3 characters by combining '0' to 'F' and 'X'

(bit 8 is the R/W bit)

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:

BIT10ADDRESS:HEXA "7AB"

# :TRIGger:ENHanced:I2CBus:ADATa:

# BIT10address:PATTern

Function Sets the 10-bit address of the  $I^2C$  bus trigger in binary

notation or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:

BIT10address:PATTern {<String>}

:TRIGger:ENHanced:I2CBus:ADATa:

BIT10address: PATTern?

<String> = 11 characters by combining '0', '1', and 'X'

(bit 8 is the R/W bit)

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:

BIT10ADDRESS:PATTERN "10111011111" :TRIGGER:ENHANCED:I2CBUS:ADATA:

BIT10ADDRESS:PATTERN? -> :TRIGGER:

ENHANCED: I2CBUS: ADATA:

BIT10ADDRESS:PATTERN "10111011111"

# :TRIGger:ENHanced:I2CBus:ADATa:

BIT7ADdress?

Function Queries all settings related to the 7-bit address of the

I<sup>2</sup>C bus trigger.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:

BIT7ADdress?

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:

BIT7ADDRESS? -> :TRIGGER:ENHANCED:

12CBUS:ADATA:BIT7ADDRESS:

PATTERN "11011110"

# :TRIGger:ENHanced:I2CBus:ADATa:

#### BIT7ADdress:HEXA

Function Sets the 7-bit address of the I<sup>2</sup>C bus trigger in

hexadecimal notation.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:

BIT7ADdress:HEXA {<String>}

<String> = 2 characters by combining '0' to 'F' and 'X'

(bit 0 is the R/W bit)

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:

BIT7ADDRESS:HEXA "DE"

### :TRIGger:ENHanced:I2CBus:ADATa:

## BIT7ADdress:PATTern

notation or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:

BIT7ADdress:PATTern {<String>}
:TRIGger:ENHanced:I2CBus:ADATa:

BIT7ADdress:PATTern?

<String> = 8 characters by combining '0', '1', and 'X'

(bit 0 is the  $R/\overline{W}$  bit)

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:

BIT7ADDRESS:PATTERN "11011110"
:TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7ADDRESS:PATTERN? -> :TRIGGER:
ENHANCED:I2CBUS:ADATA:BIT7ADDRESS:

PATTERN "11011110"

# :TRIGger:ENHanced:I2CBus:ADATa:

### BIT7APsub?

Function Queries all settings related to the 7-bit + Sub address

of the I2C bus trigger.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:

BIT7APsub?

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:

BIT7APSUB? -> :TRIGGER:ENHANCED:I2CBUS:

ADATA:BIT7APSUB:ADDRESS:

PATTERN "10101011";:TRIGGER:ENHANCED:

12CBUS:ADATA:BIT7APSUB:SADDRESS:

PATTERN "10101011"

## :TRIGger:ENHanced:I2CBus:ADATa:

## BIT7APsub: ADDRess?

Function Queries all settings related to the 7-bit address of the

7-bit + Sub address of the I<sup>2</sup>C bus trigger.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:

BIT7APsub:ADDRess?

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:

BIT7APSUB:ADDRESS? -> :TRIGGER:ENHANCED:

12CBUS:ADATA:BIT7APSUB:ADDRESS:

PATTERN "10101011"

## :TRIGger:ENHanced:I2CBus:ADATa:

### BIT7APsub:ADDRess:HEXA

Function Sets the 7-bit address of the 7-bit + Sub address of

the I<sup>2</sup>C bus trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:

BIT7APsub:ADDRess:HEXA {String>}

<String> = 2 characters by combining '0' to 'F' and 'X'

(bit 0 is the R/W\_bit)

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:

BIT7APSUB:ADDRESS:HEXA "AB"

### :TRIGger:ENHanced:I2CBus:ADATa:

## BIT7APsub:ADDRess:PATTern

Function Sets the 7-bit address of the 7-bit + Sub address of

the  $I^2C$  bus trigger in binary notation or queries the

current setting.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:

BIT7APsub:ADDRess:PATTern {<String>}

:TRIGger:ENHanced:I2CBus:ADATa:

BIT7APsub:ADDRess:PATTern?

<String> = 8 characters by combining '0', '1', and 'X'

(bit 0 is the R/W\_ bit)

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:

BIT7APSUB:ADDRESS:PATTERN "10101011"

 $: {\tt TRIGGER:ENHANCED:I2CBUS:ADATA:}$ 

BIT7APSUB:ADDRESS:PATTERN? -> :TRIGGER:

ENHANCED: I2CBUS: ADATA: BIT7APSUB:

ADDRESS:PATTERN "10101011"

# :TRIGger:ENHanced:I2CBus:ADATa:

# BIT7APsub: SADDress?

Function Queries all settings related to the Sub address of the

7-bit + Sub address of the I<sup>2</sup>C bus trigger.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:

BIT7APsub:SADDress?

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:

BIT7APSUB:SADDRESS? -> :TRIGGER:

ENHANCED: I2CBUS: ADATA: BIT7APSUB:

SADDRESS:PATTERN "10101011"

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# :TRIGger:ENHanced:I2CBus:ADATa: BIT7APsub:SADDress:HEXA

Function Sets the Sub address of the 7-bit + Sub address of

the  $I^2C$  bus trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:

BIT7APsub:SADDress:HEXA {<String>}
<String> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7APSUB:SADDRESS:HEXA "EF"

# :TRIGger:ENHanced:I2CBus:ADATa:

### BIT7APsub:SADDress:PATTern

Function Sets the Sub address of the 7-bit + Sub address of

the I<sup>2</sup>C bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:

BIT7APsub:SADDress:PATTern {<String>}

:TRIGger:ENHanced:I2CBus:ADATa: BIT7APsub:SADDress:PATTern?

<String> = 8 characters by combining '0,' '1,' and 'X'

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:

BIT7APSUB:SADDRESS:PATTERN "10101011"

:TRIGGER:ENHANCED:I2CBUS:ADATA: BIT7APSUB:SADDRESS:PATTERN?

-> :TRIGGER:ENHANCED:I2CBUS:ADATA: BIT7APSUB:SADDRESS:PATTERN "10101011"

### :TRIGger:ENHanced:I2CBus:ADATa:TYPE

Function Sets the address type of the I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:

TYPE {BIT10address|BIT7ADdress|

BIT7APsub}

:TRIGger:ENHanced:I2CBus:ADATa:TYPE?

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:

TYPE BIT10ADDRESS

:TRIGGER:ENHANCED:I2CBUS:ADATA:TYPE?
-> :TRIGGER:ENHANCED:I2CBUS:ADATA:

TYPE BIT10ADDRESS

## :TRIGger:ENHanced:I2CBus:CLOCk?

Function Queries all settings related to the clock of the I<sup>2</sup>C bus trigger.

Syntax :TRIGger:ENHanced:I2CBus:CLOCk?
Example :TRIGGER:ENHANCED:I2CBUS:CLOCK?

-> :TRIGGER:ENHANCED:I2CBUS:CLOCK:

SOURCE 1

## :TRIGger:ENHanced:I2CBus:CLOCk:SOURce

Function Sets the clock trace of the I<sup>2</sup>C bus trigger or queries

the current setting.

Syntax :TRIGger:ENHanced:I2CBus:CLOCk:

SOURce {<NRf>}

:TRIGger:ENHanced:I2CBus:CLOCk:SOURce?

<NRf> = 1 to 4

Example :TRIGGER:ENHANCED:I2CBUS:CLOCK:SOURCE 1

:TRIGGER:ENHANCED:I2CBUS:CLOCK:SOURCE?
-> :TRIGGER:ENHANCED:I2CBUS:CLOCK:

SOURCE 1

### :TRIGger:ENHanced:I2CBus:DATA?

Function Queries all settings related to the data of the I<sup>2</sup>C bus

Syntax :TRIGger:ENHanced:I2CBus:DATA?

< x > = 1 or 2

Example :TRIGGER:ENHANCED:I2CBUS:DATA?

-> :TRIGGER:ENHANCED:I2CBUS:DATA:BYTE 1;

CONDITION TRUE; DPOSITION 1; MODE 1;

PATTERN1 "10101011"; PATTERN2 "10101010"; PATTERN3 "10101111";

PATTERN4 "10101011"; PMODE DONTCARE;

SOURCE 1

# :TRIGger:ENHanced:I2CBus:DATA:BYTE

Function Sets the number of data bytes of the I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:DATA:

BYTE {<NRf>}

:TRIGger:ENHanced:I2CBus:DATA:BYTE?

<NRf> = 1 to 4

Example :TRIGGER:ENHANCED:I2CBUS:DATA:BYTE 1

:TRIGGER:ENHANCED:I2CBUS:DATA:BYTE?

-> :TRIGGER:ENHANCED:I2CBUS:DATA:BYTE 1

# :TRIGger:ENHanced:I2CBus:DATA:

# CONDition

Function Sets the determination method (match or not match) of the data of the I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:DATA:

CONDition {FALSe | TRUE}

:TRIGger:ENHanced:I2CBus:DATA:

CONDition?

Example :TRIGGER:ENHANCED:I2CBUS:DATA:

CONDITION TRUE

:TRIGGER:ENHANCED:I2CBUS:DATA:

CONDITION? -> :TRIGGER:ENHANCED:12CBUS:

DATA: CONDITION TRUE

# :TRIGger:ENHanced:I2CBus:DATA: DPOSition

Function Sets the position for comparing the data pattern of the I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:DATA:

DPOSition {<NRf>}

:TRIGger:ENHanced:I2CBus:DATA:

DPOSition? <NRf> = 0 to 9999

Example :TRIGGER:ENHANCED:I2CBUS:DATA:

DPOSITION 1

:TRIGGER:ENHANCED:I2CBUS:DATA:

DPOSITION? -> :TRIGGER:ENHANCED:I2CBUS:

DATA: DPOSITION 1

# :TRIGger:ENHanced:I2CBus:DATA:HEXA<x>

Function Sets the data of the I<sup>2</sup>C bus trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:I2CBus:DATA:

HEXA<x> {<String>}

< x > = 1 to 4

<String> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:ENHANCED:I2CBUS:DATA:

HEXA1 "AB"

## :TRIGger:ENHanced:I2CBus:DATA:MODE

Function Enables/Disables the data conditions of the I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:DATA:

MODE {<Boolean>}

:TRIGger:ENHanced:I2CBus:DATA:MODE?

Example :TRIGGER:ENHANCED:I2CBUS:DATA:MODE ON

:TRIGGER:ENHANCED:I2CBUS:DATA:MODE?

-> :TRIGGER:ENHANCED:I2CBUS:DATA:MODE 1

# :TRIGger:ENHanced:I2CBus:DATA:

# PATTern<x>

Function Sets the data of the I<sup>2</sup>C bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:DATA:

PATTern<x> {<String>}

:TRIGger:ENHanced:I2CBus:DATA:

PATTern<x>?

< x > = 1 to 4

<String> = 8 characters by combining '0,' '1,' and 'X'

Example :TRIGGER:ENHANCED:I2CBUS:DATA:

PATTERN1 "10101011"

:TRIGGER:ENHANCED:I2CBUS:DATA:PATTERN1?

-> :TRIGGER:ENHANCED:I2CBUS:DATA:

PATTERN1 "10101011"

### :TRIGger:ENHanced:I2CBus:DATA:PMODe

Function Sets the pattern comparison start position mode of the data of the I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:DATA:

PMODe {DONTcare|SELect}

:TRIGger:ENHanced:I2CBus:DATA:PMODe?

Example :TRIGGER:ENHANCED:I2CBUS:DATA:

PMODE SELECT

:TRIGGER:ENHANCED:I2CBUS:DATA:PMODE?
-> :TRIGGER:ENHANCED:I2CBUS:DATA:

PMODE SELECT

# :TRIGger:ENHanced:I2CBus:DATA:SOURce

Function Sets the data trace of the I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:DATA:

SOURce {<NRf>}

:TRIGger:ENHanced:I2CBus:DATA:SOURce?

< NRf > = 1 to 4

Example :TRIGGER:ENHANCED:I2CBUS:DATA:SOURCE 1

:TRIGGER:ENHANCED:I2CBUS:DATA:SOURCE?

-> :TRIGGER:ENHANCED:I2CBUS:DATA:

SOURCE 1

# :TRIGger:ENHanced:I2CBus:GCAL1?

Function Queries all settings related to the general call of the  $\mbox{\rm I}^2\mbox{\rm C}$  bus trigger.

Syntax :TRIGger:ENHanced:I2CBus:GCALl?

< x > = 1 or 2

Example :TRIGGER:ENHANCED:I2CBUS:GCALL?

-> :TRIGGER:ENHANCED:I2CBUS:GCALL: BIT7MADDRESS:PATTERN "10101011";

:TRIGGER:ENHANCED:12CBUS:GCALL:

SBYTE BIT7MADDRESS

## :TRIGger:ENHanced:I2CBus:GCAL1:

# BIT7maddress?

Function Queries all settings related to the 7-bit master address of the general call of the I<sup>2</sup>C bus trigger.

Syntax :TRIGger:ENHanced:I2CBus:GCALl:

 ${\tt BIT7maddress?}$ 

< x > = 1 or 2

Example :TRIGGER:ENHANCED:I2CBUS:GCALL:

BIT7MADDRESS? -> :TRIGGER:ENHANCED:

12CBUS:GCALL:BIT7MADDRESS:

PATTERN "1010101"

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# :TRIGger:ENHanced:I2CBus:GCAL1:

### BIT7maddress:HEXA

Function Sets the 7-bit master address of the general call of

the I<sup>2</sup>C bus trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:I2CBus:GCAL1:

BIT7maddress:HEXA {<String>}

< x > = 1 or 2

<String> = 2 characters by combining '0' to 'F' and 'X'

(bit 0 is fixed 1)

Example :TRIGGER:ENHANCED:I2CBUS:GCALL:

BIT7MADDRESS:HEXA "AB"

# :TRIGger:ENHanced:I2CBus:GCAL1:

### BIT7maddress: PATTern

Function Sets the 7-bit master address of the general call of

the  $I^2C$  bus trigger in binary notation or queries the

current setting.

Syntax :TRIGger:ENHanced:I2CBus:GCALl:

BIT7maddress:PATTern {<String>}
:TRIGger:ENHanced:I2CBus:GCALl:

BIT7maddress: PATTern?

< x > = 1 or 2

<String> = 7 characters by combining '0,' '1,' and 'X'

Example :TRIGGER:ENHANCED:12CBUS:GCALL:

BIT7MADDRESS:PATTERN "1010101"
:TRIGGER:ENHANCED:I2CBUS:GCALL:
BIT7MADDRESS:PATTERN? -> :TRIGGER:
ENHANCED:I2CBUS:GCALL:BIT7MADDRESS:

PATTERN "1010101"

# :TRIGger:ENHanced:I2CBus:GCAL1:SBYTe (Second Byte)

Function Sets the second byte type of the general call of the

I<sup>2</sup>C bus trigger or queries the current setting.

:TRIGger:ENHanced:I2CBus:GCALl:SBYTe?

Example :TRIGGER:ENHANCED:I2CBUS:GCALL:

SBYTE BIT7MADDRESS

:TRIGGER:ENHANCED:I2CBUS:GCALL:SBYTE?

-> :TRIGGER:ENHANCED:I2CBUS:GCALL:

SBYTE BIT7MADDRESS

### :TRIGger:ENHanced:I2CBus:MODE

Function Sets the trigger mode of the I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:MODE {ADATa|

ESTart | GCAL1 | NAIGnore | SBHSmode }
:TRIGger: ENHanced: I2CBus: MODE?

Example :TRIGGER:ENHANCED:I2CBUS:MODE ADATA

:TRIGGER:ENHANCED:I2CBUS:MODE?

-> :TRIGGER:ENHANCED:I2CBUS:MODE ADATA

# :TRIGger:ENHanced:I2CBus:NAIGnore?

Function Queries all settings related to the NON ACK ignore

mode of the I<sup>2</sup>C bus trigger.

HSMODE 1; RACCESS 1; SBYTE 1

### :TRIGger:ENHanced:I2CBus:NAIGnore:

#### **HSMode**

Function Sets whether to ignore NON ACK in high speed mode of the I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:NAIGnore:

HSMode {<Boolean>}

:TRIGger:ENHanced:I2CBus:NAIGnore:

HSMode?

Example :TRIGGER:ENHANCED:I2CBUS:NAIGNORE:

HSMODE ON

:TRIGGER:ENHANCED:I2CBUS:NAIGNORE:
HSMODE? -> :TRIGGER:ENHANCED:I2CBUS:

NAIGNORE: HSMODE 1

## :TRIGger:ENHanced:I2CBus:NAIGnore:

#### **RACCess**

Function Sets whether to ignore NON ACK in read access mode of the I<sup>2</sup>C bus trigger or queries the current setting.

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Syntax :TRIGger:ENHanced:I2CBus:NAIGnore:

RACCess {<Boolean>}

:TRIGger:ENHanced:I2CBus:NAIGnore:

RACCess?

Example :TRIGGER:ENHANCED:I2CBUS:NAIGNORE:

RACCESS ON

:TRIGGER:ENHANCED:I2CBUS:NAIGNORE: RACCESS? -> :TRIGGER:ENHANCED:I2CBUS:

NAIGNORE: RACCESS 1

# :TRIGger:ENHanced:I2CBus:NAIGnore:

## SBYTe (Start Byte)

Function Sets whether to ignore NON ACK in the start byte of the I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:NAIGnore:

SBYTe {<Boolean>}

:TRIGger:ENHanced:I2CBus:NAIGnore:

SBYTe?

Example :TRIGGER:ENHANCED:I2CBUS:NAIGNORE:

SBYTE ON

:TRIGGER:ENHANCED:I2CBUS:NAIGNORE: SBYTE? -> :TRIGGER:ENHANCED:I2CBUS:

NAIGNORE:SBYTE 1

# :TRIGger:ENHanced:I2CBus:SBHSmode?

Function Queries all settings related to the start byte and high speed mode of the I<sup>2</sup>C bus trigger.

#### :TRIGger:ENHanced:I2CBus:SBHSmode:TYPE

Function Sets the type of the start byte or high speed mode of the I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:SBHSmode:

TYPE {HSMode|SBYTe}

:TRIGger:ENHanced:I2CBus:SBHSmode:TYPE?

Example :TRIGGER:ENHANCED:I2CBUS:SBHSMODE:

TYPE HSMODE

:TRIGGER:ENHANCED:I2CBUS:SBHSMODE:TYPE?
-> :TRIGGER:ENHANCED:I2CBUS:SBHSMODE:
TYPE HSMODE

#### :TRIGger:ENHanced:LINBus?

Function Queries all settings related to the LIN bus trigger or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus?

ERROR:CHECKSUM 0;DSIZE 8;FRAMING 0;
PARITY 0;SYNCH 0;TOUT 0;:TRIGGER:

ENHANCED:LINBUS:IDDATA:DATA:

BORDER BIG; CONDITION DONTCARE; DATA1 0.0000000E+00;

DATA2 255.00000E+00;DSIZE 8;MSBLSB 7, 0;

SIGN UNSIGN;:TRIGGER:ENHANCED:LINBUS: IDDATA:ID:PATTERN "XXXXXX";:TRIGGER:

ENHANCED:LINBUS:IDOR:DSIZE 8;IDDATA1: DATA:BORDER BIG;CONDITION DONTCARE;

DATA1 0.000000E+00;

DATA2 0.0000000E+00; MSBLSB 7, 0;

SIGN UNSIGN;:TRIGGER:ENHANCED:LINBUS:

IDOR:IDDATA1:ID:PATTERN "XXXXXX";:

TRIGGER: ENHANCED: LINBUS: IDOR: IDDATA1:

MODE 0;:TRIGGER:ENHANCED:LINBUS:IDOR:

IDDATA2:DATA:BORDER BIG;

CONDITION DONTCARE; DATA1

0.0000000E+00;DATA2 0.000000E+00;

MSBLSB 7, 0....

#### TRIGger: ENHanced: LINBus: BLENgth

Function Sets the LIN bus signal trigger Break length or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:

BLENgth {<NRf>}

:TRIGger:ENHanced:LINBus:BLENgth?

<NRf> = 10 to 13

Example :TRIGGER:ENHANCED:LINBUS:BLENGTH 10

:TRIGGER:ENHANCED:LINBUS:BLENGTH? ->

:TRIGGER:ENHANCED:LINBUS:BLENGTH 10

# :TRIGger:ENHanced:LINBus:BRATe

Function Sets the LIN bus signal trigger bitrate (data transfer rate) or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:BRATe {<NRf>|

USER, <NRf>}

:TRIGger:ENHanced:LINBus:BRATe?

<NRf> = 1200, 2400, 4800, 9600, 19200

:TRIGGER:ENHANCED:LINBUS:BRATE?

<NRf> for USER = See the main unit User's Manual.

Example :TRIGGER:ENHANCED:LINBUS:BRATE 19200

-> :TRIGGER:ENHANCED:LINBUS:BRATE 19200

#### :TRIGger:ENHanced:LINBus:ERRor?

Function Queries all settings related to the LIN bus signal trigger error .

# :TRIGger:ENHanced:LINBus:ERRor:

PARITY 1; SYNCH 1; TOUT 1

## CHECksum

Function Sets the LIN bus signal trigger Checksum error or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:ERRor:

CHECksum {<Boolean>}

:TRIGger:ENHanced:LINBus:ERRor:

CHECksum?

Example :TRIGGER:ENHANCED:LINBUS:ERROR:

CHECKSUM ON

:TRIGGER:ENHANCED:LINBUS:ERROR:

CHECKSUM? -> :TRIGGER:ENHANCED:LINBUS:

ERROR: CHECKSUM 1

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## :TRIGger:ENHanced:LINBus:ERRor:DSIZe

Function Sets the number of error data bytes for the LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:ERRor:

DSIZe {<NRf>}

:TRIGger:ENHanced:LINBus:ERRor:DSIZe?

<NRf> = 1 to 8

Example :TRIGGER:ENHANCED:LINBUS:ERROR:DSIZE 1

:TRIGGER:ENHANCED:LINBUS:ERROR:DSIZE?
-> :TRIGGER:ENHANCED:LINBUS:ERROR:

DSIZE 1

#### :TRIGger:ENHanced:LINBus:ERRor:FRAMing

Function Sets the LIN bus signal trigger Framing error or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:ERRor:

FRAMing {<Boolean>}

:TRIGger:ENHanced:LINBus:ERRor:FRAMing?

Example :TRIGGER:ENHANCED:LINBUS:ERROR:

FRAMING ON

:TRIGGER:ENHANCED:LINBUS:ERROR:FRAMING?

-> :TRIGGER:ENHANCED:LINBUS:ERROR:

FRAMING 1

#### :TRIGger:ENHanced:LINBus:ERRor:PARity

Function Sets the LIN bus signal trigger Parity error or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:ERRor:

PARity {<Boolean>}

:TRIGger:ENHanced:LINBus:ERRor:PARity?

Example : TRIGGER: ENHANCED: LINBUS: ERROR:

PARITY ON

:TRIGGER:ENHANCED:LINBUS:ERROR:PARITY?
-> :TRIGGER:ENHANCED:LINBUS:ERROR:

PARITY 1

## :TRIGger:ENHanced:LINBus:ERRor:SYNCh

Function Sets the LIN bus signal trigger Synch error or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:ERRor:

SYNCh {<Boolean>}

:TRIGger:ENHanced:LINBus:ERRor:SYNCh?

Example :TRIGGER:ENHANCED:LINBUS:ERROR:

SYNCH ON

:TRIGGER:ENHANCED:LINBUS:ERROR:SYNCH?

-> :TRIGGER:ENHANCED:LINBUS:ERROR:

SYNCH 1

#### :TRIGger:ENHanced:LINBus:ERRor:TOUT

Function Sets the LIN bus signal trigger Timeout error or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:ERRor:

TOUT {<Boolean>}

:TRIGger:ENHanced:LINBus:ERRor:TOUT?

Example :TRIGGER:ENHANCED:LINBUS:ERROR:TOUT ON
 :TRIGGER:ENHANCED:LINBUS:ERROR:TOUT? ->

:TRIGGER:ENHANCED:LINBUS:ERROR:TOUT 1

## :TRIGger:ENHanced:LINBus:IDData?

Function Queries all settings related to the IDData of the LIN bus signal trigger.

BORDER BIG; CONDITION DONTCARE;

DATA1 0.000000E+00;

IDDATA:ID:PATTERN "XXXXXX"

#### :TRIGger:ENHanced:LINBus:IDData:DATA?

Function Queries all settings related to the Data Field of the LIN bus signal trigger.

DATA: BORDER BIG; CONDITION DONTCARE;

DATA1 0.0000000E+00;

SIGN UNSIGN

# :TRIGger:ENHanced:LINBus:IDData:

# DATA:BORDer

Function Sets the data byte order of the LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:IDData:DATA:

BORDer {BIG|LITTle}

:TRIGger:ENHanced:LINBus:IDData:DATA:

BORDer?

Example :TRIGGER:ENHANCED:LINBUS:IDDATA:DATA:

BORDER BIG

:TRIGGER:ENHANCED:LINBUS:IDDATA:DATA:
BORDER? -> :TRIGGER:ENHANCED:LINBUS:

IDDATA:DATA:BORDER BIG

# :TRIGger:ENHanced:LINBus:IDData:

#### DATA: CONDition

Function Sets the data conditions of the Data Field of the LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:IDData:DATA:

CONDition {BETWeen|DONTcare|FALSe|

GTHan | LTHan | ORANge | TRUE }

:TRIGger:ENHanced:LINBus:IDData:DATA:

CONDition?

Example :TRIGGER:ENHANCED:LINBUS:IDDATA:DATA:

CONDITION BETWEEN

:TRIGGER:ENHANCED:LINBUS:IDDATA:DATA:
CONDITION? -> :TRIGGER:ENHANCED:LINBUS:

IDDATA: DATA: CONDITION BETWEEN

# :TRIGger:ENHanced:LINBus:IDData:

#### DATA:DATA<x>

Function Sets the comparison data of the LIN bus signal trigger data or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:IDData:DATA:

DATA<x> {<NRf>}

:TRIGger:ENHanced:LINBus:IDData:DATA:

DATA<x>?

< x > = 1, 2

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:ENHANCED:LINBUS:IDDATA:DATA:

DATA1 1

:TRIGGER:ENHANCED:LINBUS:IDDATA:DATA:
DATA1? -> :TRIGGER:ENHANCED:LINBUS:

IDDATA:DATA:DATA1 1.000000E+00

Description • For :TRIGger:ENHanced:LINBus:IDData:DATA:
CONDition GTHan, set using: TRIGger:ENHanced:
LINBus:IDData:DATA:DATA1.

- For :TRIGger:ENHanced:LINBus:IDData:DATA: CONDition LTHan, set using: TRIGger:ENHanced: LINBus:IDData:DATA:DATA2.
- For:TRIGger:ENHanced:LINBus:IDData:DATA: CONDition BETWeen|ORANge, set small values with: TRIGger:ENHanced:LINBus:IDData:DATA: DATA1, and large values with: TRIGger:ENHanced: LINBus:IDData:DATA:DATA2.

#### :TRIGger:ENHanced:LINBus:IDData:

#### DATA: DSIZe

Function Sets the number of bytes of data in the Data Field of the LIN bus signal trigger or queries the current setting.

:TRIGger:ENHanced:LINBus:IDData:DATA:

DSIZe?

<NRf> = 1 to 8

Example :TRIGGER:ENHANCED:LINBUS:IDDATA:DATA:

DSIZE 1

:TRIGGER:ENHANCED:LINBUS:IDDATA:DATA:
DSIZE? -> :TRIGGER:ENHANCED:LINBUS:

IDDATA:DATA:DSIZE 1

#### :TRIGger:ENHanced:LINBus:IDData:

#### DATA: HEXA

Function Sets the data in the Data Field of the LIN bus signal trigger in hexadecimal.

Syntax :TRIGger:ENHanced:LINBus:IDData:DATA:

HEXA {<string>}

<string> = Up to 16 characters by combining '0' to 'F,'

and 'X,' units of 1 byte

Example :TRIGGER:ENHANCED:LINBUS:IDDATA:DATA:

HEXA "A9"

# :TRIGger:ENHanced:LINBus:IDData:

# DATA: MSBLsb

Function Sets the MSB/LSB bit of the LIN bus signal trigger or

queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:IDData:DATA:

 $\texttt{MSBLsb} \ \big\{ \texttt{<NRf>,} \ \texttt{<NRf>} \big\}$ 

:TRIGger:ENHanced:LINBus:IDData:DATA:

MSBLsb?

# <NRf> = See the SB5000 User's Manual

Example :TRIGGER:ENHANCED:LINBUS:IDDATA:DATA:

MSBLSB 1, 0

:TRIGGER:ENHANCED:LINBUS:IDDATA:DATA:

MSBLSB? -> :TRIGGER:ENHANCED:LINBUS:

IDDATA:DATA:MSBLSB 1, 0

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# :TRIGger:ENHanced:LINBus:IDData: DATA:PATTern

Function Sets the data of the Data Field of the LIN bus signal trigger in binary or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:IDData:DATA:

PATTern {<string>}

:TRIGger:ENHanced:LINBus:IDData:DATA:

PATTern?

<string> = Up to 32 characters by combining '0,' '1,'

and 'X,' units of 1 byte

Example :TRIGGER:ENHANCED:LINBUS:IDDATA:DATA:

PATTERN "11011111"

:TRIGGER:ENHANCED:LINBUS:IDDATA:DATA:PATTERN? -> :TRIGGER:ENHANCED:LINBUS:

IDDATA:DATA:PATTERN "11011111"

# :TRIGger:ENHanced:LINBus:IDData: DATA:SIGN

Function Sets the data sign of the LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:IDData:DATA:

SIGN {SIGN|UNSign}

:TRIGger:ENHanced:LINBus:IDData:DATA:

SIGN?

Example :TRIGGER:ENHANCED:LINBUS:IDDATA:DATA:

SIGN SIGN

:TRIGGER:ENHANCED:LINBUS:IDDATA:DATA: SIGN? -> :TRIGGER:ENHANCED:LINBUS:

IDDATA:DATA:SIGN SIGN

#### :TRIGger:ENHanced:LINBus:IDData:ID?

Function Queries all settings related to the ID of the LIN bus signal trigger.

Syntax :TRIGger:ENHanced:LINBus:IDData:ID?
Example :TRIGGER:ENHANCED:LINBUS:IDDATA:ID? ->
:TRIGGER:ENHANCED:LINBUS:IDDATA:ID:

PATTERN "101010"

# :TRIGger:ENHanced:LINBus:IDData: ID:HEXA

Function Sets the LIN bus signal trigger ID in hexadecimal.

Syntax :TRIGger:ENHanced:LINBus:IDData:ID:

HEXA {<string>}

<string> = 2 characters by combining '0' to 'F,' and 'X'

Example :TRIGGER:ENHANCED:LINBUS:IDDATA:ID:

HEXA "2A"

# :TRIGger:ENHanced:LINBus:IDData: ID:PATTern

Function Sets the LIN bus signal trigger ID in binary or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:IDData:ID:

Example :TRIGGER:ENHANCED:LINBUS:IDDATA:ID:

PATTern {<string>}

:TRIGger:ENHanced:LINBus:IDData:ID:

PATTern?

<string> = 6 characters by combining '0,' '1,' and 'X'

PATTERN "101111"

:TRIGGER:ENHANCED:LINBUS:IDDATA:ID:
PATTERN? -> :TRIGGER:ENHANCED:LINBUS:

IDDATA: ID: PATTERN "101111"

#### :TRIGger:ENHanced:LINBus:IDOR?

Function Queries all settings related to the OR condition of the LIN bus signal trigger.

Syntax :TRIGger:ENHanced:LINBus:IDOR?
Example :TRIGGER:ENHANCED:LINBUS:IDOR? ->
:TRIGGER:ENHANCED:LINBUS:IDOR:DSIZE 8;

IDDATA1:DATA:BORDER BIG;

CONDITION DONTCARE; DATA1 0.000000E+00;

DATA2 0.0000000E+00; MSBLSB 7, 0;

TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:
MODE 0;:TRIGGER:ENHANCED:LINBUS:IDOR:

IDDATA2:DATA:BORDER BIG;

CONDITION DONTCARE; DATA1 0.0000000E+00;

DATA2 0.0000000E+00; MSBLSB 7, 0;

SIGN UNSIGN;:TRIGGER:ENHANCED:LINBUS:
IDOR:IDDATA2:ID:PATTERN "XXXXXX";:
TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA2:

MODE 0....

# :TRIGger:ENHanced:LINBus:IDOR:DSIZe

Function Sets the number of bytes of data in the Data Field of the OR condition of the LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:IDOR:

DSIZe {<NRf>}

:TRIGger:ENHanced:LINBus:IDOR:DSIZe?

<NRf> = 1 to 8

Example :TRIGGER:ENHANCED:LINBUS:IDOR:DSIZE 1

:TRIGGER:ENHANCED:LINBUS:IDOR:DSIZE? ->

:TRIGGER:ENHANCED:LINBUS:IDOR:DSIZE 1

# :TRIGger:ENHanced:LINBus:IDOR:

IDData<x>?

Function Queries all settings related to each IDData of the OR condition of the LIN bus signal trigger.

Syntax :TRIGger:ENHanced:LINBus:IDOR:

IDData<x>?

Example :TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1?

-> :TRIGGER:ENHANCED:LINBUS:IDOR:

IDDATA1:DATA:BORDER BIG;

CONDITION DONTCARE; DATA1 0.000000E+00;

DATA2 0.0000000E+00; MSBLSB 7, 0;

SIGN UNSIGN;:TRIGGER:ENHANCED:LINBUS:

IDOR:IDDATA1:ID:PATTERN "XXXXXX";:
TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:

MODE 0

#### :TRIGger:ENHanced:LINBus:IDOR:

## IDData<x>:DATA?

Function Queries all settings related to each Data Field of the

OR condition of the LIN bus signal trigger.

Syntax :TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:DATA?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:

DATA? -> :TRIGGER:ENHANCED:LINBUS:

IDOR:IDDATA1:DATA:BORDER BIG;

CONDITION DONTCARE; DATA1 0.0000000E+00;

DATA2 0.0000000E+00; MSBLSB 7, 0;

SIGN UNSIGN

# :TRIGger:ENHanced:LINBus:IDOR:

# IDData<x>:DATA:BORDer

Function Sets the byte order of each data of the OR conditions

of the LIN bus signal trigger or queries the current

setting.

Syntax :TRIGger:ENHanced:LINBus:IDOR:

 $\label{eq:def:def:def:def:def:def:def:def} $$ IDData< x>: DATA: BORDer $$ \{BIG|LITTle\}$$ 

:TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:DATA:BORDer?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:

DATA:BORDER BIG

:TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:
DATA:BORDER? -> :TRIGGER:ENHANCED:
LINBUS:IDOR:IDDATA1:DATA:BORDER BIG

# :TRIGger:ENHanced:LINBus:IDOR:

#### IDData<x>:DATA:CONDition

Function Sets the data condition of the Data Field of each OR condition of the LIN bus signal trigger or queries the

current setting.

Syntax :TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:DATA:CONDition {BETWeen|

DONTcare | FALSe | GTHan | LTHan | ORANge | TRUE }

:TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:DATA:CONDition?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:

DATA: CONDITION BETWEEN

:TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:

DATA: CONDITION? -> :TRIGGER: ENHANCED:

LINBUS: IDOR: IDDATA1: DATA:

CONDITION BETWEEN

#### :TRIGger:ENHanced:LINBus:IDOR:

#### IDData<x>:DATA:DATA<x>

Function Sets the comparison data of each data of the OR conditions of the LIN bus signal trigger or queries the

current setting.

Syntax :TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:DATA:DATA<x> {<NRf>}

:TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:DATA:DATA<x>?

<x> of IDData<x> = 1 to 4

<x> of DATA<x> = 1, 2

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:

DATA:DATA1 1

:TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:

DATA:DATA1? -> :TRIGGER:ENHANCED:

LINBUS: IDOR: IDDATA1: DATA:

DATA1 1.000000E+00

> For :TRIGger:ENHanced:LINBus:IDOR:IDData<x>: DATA:CONDition LTHan, set using: TRIGger: ENHanced:LINBus:IDOR:IDData<x>:DATA:DATA2.

> For :TRIGger:ENHanced:LINBus:IDOR:IDData<x>:
>  DATA:CONDition BETWeen|ORANge, set small
>  values with: TRIGger:ENHanced:LINBus:IDOR:
>  IDData<x>:DATA:DATA1, and large values with:
>  TRIGger:ENHanced:LINBus:IDOR:IDData<x>:
>  DATA:DATA2.

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## :TRIGger:ENHanced:LINBus:IDOR:

#### IDData<x>:DATA:HEXA

Function Sets the data in each Data Field of the OR condition

of the LIN bus signal trigger in hexadecimal.

Syntax :TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:DATA:HEXA {<string>}

< x > = 1 to 4

<string> = Up to 16 characters by combining '0' to 'F,'

and 'X,' units of 1 byte

Example :TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:

DATA:HEXA "A9"

## :TRIGger:ENHanced:LINBus:IDOR:

#### IDData<x>:DATA:MSBLsb

Function Sets the MSB/LSB bit of each data of the OR

condition of the LIN bus signal trigger or queries the

current setting.

Syntax :TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:DATA:MSBLsb {<NRf>, <NRf>}

:TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:DATA:MSBLsb?

< x > = 1 to 4

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:

DATA: MSBLSB 1, 0

:TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1: DATA:MSBLSB? -> :TRIGGER:ENHANCED:

LINBUS:IDOR:IDDATA1:DATA:MSBLSB 1, 0

# :TRIGger:ENHanced:LINBus:IDOR:

# IDData<x>:DATA:PATTern

Function Sets the data of each Data Field of the OR conditions

of the LIN bus signal trigger or queries the current

setting.

Syntax :TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:DATA:PATTern {<string>}
:TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:DATA:PATTern?

< x > = 1 to 4

<string> = Up to 64 characters by combining '0,' '1,'

and 'X,' units of 1 byte

Example :TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:

DATA:PATTERN "11011111"

:TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:

DATA:PATTERN? -> :TRIGGER:ENHANCED:

LINBUS: IDOR: IDDATA1: DATA:

PATTERN "11011111"

## :TRIGger:ENHanced:LINBus:IDOR:

#### IDData<x>:DATA:SIGN

Function Sets the sign of each data of the OR conditions of the

LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:DATA:SIGN {SIGN|UNSign}
:TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:DATA:SIGN?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:

DATA:SIGN SIGN

:TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:
DATA:SIGN? -> :TRIGGER:ENHANCED:LINBUS:

IDOR:IDDATA1:DATA:SIGN SIGN

# :TRIGger:ENHanced:LINBus:IDOR:

#### IDData<x>:ID?

Function Queries all settings related to each ID of the OR

condition of the LIN bus signal trigger.

Syntax :TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:ID?

Example :TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:

ID? -> :TRIGGER:ENHANCED:LINBUS:IDOR:

IDDATA1:ID:PATTERN "101010"

# :TRIGger:ENHanced:LINBus:IDOR:

## IDData<x>:ID:HEXA

Function Sets each ID of the OR conditions of the LIN bus

signal trigger in hexadecimal.

Syntax :TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:ID:HEXA {<string>}

< x > = 1 to 4

<string> = 2 characters by combining ' 0'

to `F,' and `X'

Example :TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:

ID:HEXA "2A"

## :TRIGger:ENHanced:LINBus:IDOR:

# IDData<x>:ID:PATTern

Function Sets each ID of the OR conditions of the LIN bus

signal trigger binary or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:ID:PATTern {<string>}

:TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:ID:PATTern?

< x > = 1 to 4

<string> =6 characters by combining '0,' '1,' and 'X'

Example :TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:

ID:PATTERN "101111"

:TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:

ID:PATTERN? -> :TRIGGER:ENHANCED:

LINBUS:IDOR:IDDATA1:ID:PATTERN "101111"

## :TRIGger:ENHanced:LINBus:IDOR:

#### IDData<x>:MODE

Function Enables (1) or disables (0) each condition for each OR condition of the LIN bus signal trigger or queries

the current setting.

Syntax :TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:MODE {<Boolean>}

:TRIGger:ENHanced:LINBus:IDOR:

IDData<x>:MODE?

< x > = 1 to 4

Example :TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:

MODE ON

:TRIGGER:ENHANCED:LINBUS:IDOR:IDDATA1:
MODE? -> :TRIGGER:ENHANCED:LINBUS:IDOR:

IDDATA1:MODE 1

#### :TRIGger:ENHanced:LINBus:MODE

Function Sets the LIN bus signal trigger mode or queries the

current setting.

Syntax :TRIGger:ENHanced:LINBus:MODE {BSYNch|

ERRor | IDData | IDOR }

:TRIGger:ENHanced:LINBus:MODE?

Example :TRIGGER:ENHANCED:LINBUS:MODE BSYNCH

:TRIGGER:ENHANCED:LINBUS:MODE? ->
:TRIGGER:ENHANCED:LINBUS:MODE BSYNCH

# :TRIGger:ENHanced:LINBus:REVision

Function Sets the LIN bus signal trigger revision (1.3 or 2.0) or

queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:

REVision {LIN1\_3|LIN2\_0}

:TRIGger:ENHanced:LINBus:REVision?

Example :TRIGGER:ENHANCED:LINBUS:

REVISION LIN1\_3

:TRIGGER:ENHANCED:LINBUS:REVISION? ->

:TRIGGER:ENHANCED:LINBUS:

REVISION LIN1\_3

# :TRIGger:ENHanced:LINBus:SOURce

Function Sets the LIN bus signal trigger source or queries the

current setting.

Syntax :TRIGger:ENHanced:LINBus:SOURce {<NRf>}

:TRIGger:ENHanced:LINBus:SOURce?

< NRf > = 1 to 4

Example :TRIGGER:ENHANCED:LINBUS:SOURCE 1

:TRIGGER:ENHANCED:LINBUS:SOURCE?

-> :TRIGGER:ENHANCED:LINBUS:SOURCE 1

#### :TRIGger:ENHanced:LINBus:SPOint

Function Sets the LIN bus signal trigger sample

point or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:SPOint {<NRf>}

:TRIGger:ENHanced:LINBus:SPOint?

< NRf > = 18.8 to 90.6(%)

Example :TRIGGER:ENHANCED:LINBUS:SPOINT 18.8

:TRIGGER:ENHANCED:LINBUS:SPOINT? -> :

TRIGGER: ENHANCED: LINBUS: SPOINT 18.8E+00

# :TRIGger:ENHanced:SPATtern?

# (Serial Pattern)

Function Queries all settings related to the serial pattern

trigger.

Syntax :TRIGger:ENHanced:SPATtern?

Example :TRIGGER:ENHANCED:SPATTERN?

-> :TRIGGER:ENHANCED:SPATTERN:

BITRATE 1.000E+00; CLOCK: MODE 1;

POLARITY FALL; SOURCE 1; :TRIGGER:

ENHANCED: SPATTERN: CS 1; DATA:

ACTIVE HIGH; SOURCE 1; :TRIGGER: ENHANCED:

SPATTERN:LATCH:SOURCE 1; POLARITY FALL;:

TRIGGER: ENHANCED: SPATTERN:
PATTERN "11001101111111"

## :TRIGger:ENHanced:SPATtern:BITRate

Function Sets the bit rate of the serial pattern trigger or queries

the current setting.

Syntax :TRIGger:ENHanced:SPATtern:

BITRate {<NRf>}

:TRIGger:ENHanced:SPATtern:BITRate?

 $\langle NRf \rangle = 1 \text{ to } 50M \text{ (bps)}$ 

Example :TRIGGER:ENHANCED:SPATTERN:BITRATE 1

:TRIGGER:ENHANCED:SPATTERN:BITRATE?

-> :TRIGGER:ENHANCED:SPATTERN:

BITRATE 1.000E+00

Description This command is valid when :TRIGger:ENHanced:

SPATtern:CLOCk:MODE OFF.

# :TRIGger:ENHanced:SPATtern:CLEar

Function Clears the entire pattern of the serial pattern trigger (to

don't care).

Syntax :TRIGger:ENHanced:SPATtern:CLEar

Example :TRIGGER:ENHANCED:SPATTERN:CLEAR

# :TRIGger:ENHanced:SPATtern:CLOCk?

Function Queries all settings related to clock of the serial pattern trigger.

Syntax :TRIGger:ENHanced:SPATtern:CLOCk?

Example :TRIGGER:ENHANCED:SPATTERN:CLOCK?

-> :TRIGGER:ENHANCED:SPATTERN:CLOCK:

MODE 1; POLARITY FALL; SOURCE 1

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# :TRIGger:ENHanced:SPATtern:CLOCk:MODE

Enables/Disables the clock of the serial pattern trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPATtern:CLOCk:

MODE {<Boolean>}

:TRIGger:ENHanced:SPATtern:CLOCk:MODE?

Example :TRIGGER:ENHANCED:SPATTERN:CLOCK:

MODE ON

:TRIGGER:ENHANCED:SPATTERN:CLOCK:MODE? -> :TRIGGER:ENHANCED:SPATTERN:CLOCK:

MODE 1

# :TRIGger:ENHanced:SPATtern:CLOCk: POLarity

Sets the polarity of the clock trace of the serial pattern Function trigger or queries the current setting.

:TRIGger:ENHanced:SPATtern:CLOCk: Syntax

POLarity {FALL | RISE}

:TRIGger:ENHanced:SPATtern:CLOCk:

POLarity?

Example :TRIGGER:ENHANCED:SPATTERN:CLOCK:

POLARITY FALL

:TRIGGER:ENHANCED:SPATTERN:CLOCK: POLARITY? -> :TRIGGER:ENHANCED: SPATTERN: CLOCK: POLARITY FALL

Description This command is valid if :TRIGger:ENHanced: SPATtern:CLOCk:MODE ON.

# :TRIGger:ENHanced:SPATtern:CLOCk: SOURce

Function Sets the clock trace of the serial pattern trigger or

queries the current setting.

Syntax :TRIGger:ENHanced:SPATtern:CLOCk:

SOURce {<NRf>}

:TRIGger:ENHanced:SPATtern:CLOCk:

SOURce? < NRf > = 1 to 4

Example :TRIGGER:ENHANCED:SPATTERN:CLOCK:

SOURCE 1

:TRIGGER:ENHANCED:SPATTERN:CLOCK: SOURCE? -> :TRIGGER:ENHANCED: SPATTERN:CLOCK:SOURCE 1

Description This command is valid when :TRIGger:ENHanced: SPATtern:CLOCk:MODE ON.

# :TRIGger:ENHanced:SPATtern:CS

Enables/Disables the chip select of the serial pattern

trigger or queries the current setting.

:TRIGger:ENHanced:SPATtern: Syntax

CS {<Boolean>}

:TRIGger:ENHanced:SPATtern:CS?

Example :TRIGGER:ENHANCED:SPATTERN:CS ON :TRIGGER:ENHANCED:SPATTERN:CS?

-> :TRIGGER:ENHANCED:SPATTERN:CS 1

Description This command is valid when :TRIGger:ENHanced: SPATtern:CLOCk:MODE ON.

## :TRIGger:ENHanced:SPATtern:DATA?

Function Queries all settings related to data of the serial pattern trigger.

Syntax :TRIGger:ENHanced:SPATtern:DATA? Example :TRIGGER:ENHANCED:SPATTERN:DATA? -> :TRIGGER:ENHANCED:SPATTERN:DATA:

ACTIVE HIGH; SOURCE 1

#### :TRIGger:ENHanced:SPATtern:DATA:ACTive

Sets the active level of the data of the serial pattern Function trigger or queries the current setting.

:TRIGger:ENHanced:SPATtern:DATA: Syntax

ACTive {HIGH|LOW}

:TRIGger:ENHanced:SPATtern:DATA:ACTive?

Example :TRIGGER:ENHANCED:SPATTERN:DATA:

ACTIVE HIGH

:TRIGGER:ENHANCED:SPATTERN:DATA:ACTIVE? -> :TRIGGER:ENHANCED:SPATTERN:DATA:

ACTIVE HIGH

## :TRIGger:ENHanced:SPATtern:DATA:SOURce

Sets the data trace of the serial pattern trigger or queries the current setting.

:TRIGger:ENHanced:SPATtern:DATA: Syntax

SOURce {<NRf>}

:TRIGger:ENHanced:SPATtern:DATA:SOURce?

< NRf > = 1 to 4

Example :TRIGGER:ENHANCED:SPATTERN:DATA:

SOURCE 1

:TRIGGER:ENHANCED:SPATTERN:DATA:SOURCE?

-> :TRIGGER:ENHANCED:SPATTERN:DATA:

SOURCE 1

#### :TRIGger:ENHanced:SPATtern:HEXA

Function Sets the pattern of the serial pattern trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:SPATtern:

HEXA {<String>}

<String> = Up to 32 characters by combining '0' to 'F'

and 'X'

Example :TRIGGER:ENHANCED:SPATTERN:HEXA "ABCD"

# :TRIGger:ENHanced:SPATtern:LATCh?

Function Queries all settings related to latch of the serial pattern trigger.

Syntax :TRIGger:ENHanced:SPATtern:LATCh? Example :TRIGGER:ENHANCED:SPATTERN:LATCH? -> :TRIGGER:ENHANCED:SPATTERN:LATCH:

SOURCE 1; POLARITY FALL

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# :TRIGger:ENHanced:SPATtern:LATCh: POLarity

Function Sets the polarity of the latch trace of the serial pattern

trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPATtern:LATCh:

POLarity {FALL|RISE}

:TRIGger:ENHanced:SPATtern:LATCh:

POLarity?

Example :TRIGGER:ENHANCED:SPATTERN:LATCH:

POLARITY FALL

:TRIGGER:ENHANCED:SPATTERN:LATCH: POLARITY? -> :TRIGGER:ENHANCED: SPATTERN:LATCH:POLARITY FALL

Description• This command is valid when :TRIGger:ENHanced: SPATtern:CLOCk:MODE ON.

 This command in invalid if :TRIGger:ENHanced: SPATtern:LATCh:SOURce NONE.

# :TRIGger:ENHanced:SPATtern:LATCh: SOURce

Function Sets the latch trace of the serial pattern trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPATtern:LATCh:

SOURce { < NRf > | NONE }

:TRIGger:ENHanced:SPATtern:LATCh:

SOURCe? < NRf > = 1 to 4

Example :TRIGGER:ENHANCED:SPATTERN:LATCH:

SOURCE 1

:TRIGGER:ENHANCED:SPATTERN:LATCH:
SOURCE? -> :TRIGGER:ENHANCED:SPATTERN:
LATCH:SOURCE 1

Description This command is valid when :TRIGger:ENHanced: SPATtern:CLOCk:MODE ON.

# :TRIGger:ENHanced:SPATtern:PATTern

Function Sets the pattern of the serial pattern trigger in binary notation or queries the current setting.

Syntax :TRIGger:ENHanced:SPATtern:

 ${\tt PATTern} \ \{{\tt <String>}\}$ 

:TRIGger:ENHanced:SPATtern:PATTern? <String> = Up to 128 characters by combining '0', '1',

Example :TRIGGER:ENHANCED:SPATTERN:PATTERN

"1100110111101111"

and 'X'

:TRIGGER:ENHANCED:SPATTERN:PATTERN?

-> :TRIGGER:ENHANCED:SPATTERN: PATTERN "110011011111011111"

#### :TRIGger:ENHanced:SPIBus?

Function Queries all settings related to the SPI bus trigger.

Syntax :TRIGger:ENHanced:SPIBus?

Example :TRIGGER:ENHANCED:SPIBUS? -> :TRIGGER:

ENHANCED: SPIBUS: BITORDER LSBFIRST;

CLOCK: POLARITY FALL; SOURCE 1; :TRIGGER:

ENHANCED:SPIBUS:CS:ACTIVE HIGH;

SOURCE 1;:TRIGGER:ENHANCED:SPIBUS:

DATA1:BYTE 1; CONDITION TRUE;

DPOSITION 1; PATTERN1 "00010010";

PATTERN2 "00110100"; PATTERN3 "01010110";

PATTERN4 "00010010"; SOURCE 3;:TRIGGER:

ENHANCED:SPIBUS:DATA2:BYTE 4;
CONDITION TRUE;DPOSITION 1;

CONDITION TRUE; DPOSITION 1
PATTERN1 "00010010";

PATTERN2 "00110100";

PATTERN3 "01010110";

PATTERN4 "00010010"; SOURCE 3; :TRIGGER:

ENHANCED: SPIBUS: MODE WIRE3

## :TRIGger:ENHanced:SPIBus:BITorder

Function Sets the bit order of the SPI bus trigger or queries the

current setting.

Syntax :TRIGger:ENHanced:SPIBus:

BITorder {LSBFirst|MSBFirst}

:TRIGger:ENHanced:SPIBus:BITorder?

Example :TRIGGER:ENHANCED:SPIBUS:

BITORDER LSBFIRST

:TRIGGER:ENHANCED:SPIBUS:BITORDER?

-> :TRIGGER:ENHANCED:SPIBUS:

BITORDER LSBFIRST

## :TRIGger:ENHanced:SPIBus:CLOCk?

Function Queries all settings related to the clock of the SPI bus

trigger.

Syntax :TRIGger:ENHanced:SPIBus:CLOCk?
Example :TRIGGER:ENHANCED:SPIBUS:CLOCK?

-> :TRIGGER:ENHANCED:SPIBUS:CLOCK:

POLARITY FALL; SOURCE 1

# :TRIGger:ENHanced:SPIBus:CLOCk:

# POLarity

Function Sets the polarity of the clock trace of the SPI bus

trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:CLOCk:

POLarity {FALL | RISE}

 $: {\tt TRIGger:ENHanced:SPIBus:CLOCk:}$ 

POLarity?

Example :TRIGGER:ENHANCED:SPIBUS:CLOCK:

POLARITY FALL

:TRIGGER:ENHANCED:SPIBUS:CLOCK:

POLARITY? -> :TRIGGER:ENHANCED:SPIBUS:

CLOCK: POLARITY FALL

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#### :TRIGger:ENHanced:SPIBus:CLOCk:SOURce

Function Sets the clock trace of the SPI bus trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:CLOCk:

SOURce {<NRf>}

:TRIGger:ENHanced:SPIBus:CLOCk:SOURce?

<NRf> = 1 to 4

Example :TRIGGER:ENHANCED:SPIBUS:CLOCK:SOURCE 1
 :TRIGGER:ENHANCED:SPIBUS:CLOCK:SOURCE?
 -> :TRIGGER:ENHANCED:SPIBUS:CLOCK:

SOURCE 1

## :TRIGger:ENHanced:SPIBus:CS?

Function Queries all settings related to the chip select of the SPI bus trigger.

Syntax :TRIGger:ENHanced:SPIBus:CS?
Example :TRIGGER:ENHANCED:SPIBUS:CS?
 -> :TRIGGER:ENHANCED:SPIBUS:CS:
 ACTIVE HIGH;SOURCE 1

#### :TRIGger:ENHanced:SPIBus:CS:ACTive

Function Sets the active level of the chip select of the SPI bus trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:CS:

ACTive {HIGH|LOW}

:TRIGger:ENHanced:SPIBus:CS:ACTive?

Example :TRIGGER:ENHANCED:SPIBUS:CS:ACTIVE HIGH

:TRIGGER:ENHANCED:SPIBUS:CS:ACTIVE?
-> :TRIGGER:ENHANCED:SPIBUS:CS:

ACTIVE HIGH

# :TRIGger:ENHanced:SPIBus:CS:SOURce

Function Sets the chip select trace of the SPI bus trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:CS:

SOURce {<NRf>}

:TRIGger:ENHanced:SPIBus:CS:SOURce?

< NRf > = 1 to 4

Example :TRIGGER:ENHANCED:SPIBUS:CS:SOURCE 1
 :TRIGGER:ENHANCED:SPIBUS:CS:SOURCE?

-> :TRIGGER:ENHANCED:SPIBUS:CS:SOURCE 1

# :TRIGger:ENHanced:SPIBus:DATA<x>?

Function Queries all settings related to the data of the SPI bus trigger.

Example :TRIGGER:ENHANCED:SPIBUS:DATA1?
 -> :TRIGGER:ENHANCED:SPIBUS:DATA1:
 BYTE 1;CONDITION TRUE;DPOSITION 1;
 PATTERN1 "00010010";

PATTERN1 "00010010"; PATTERN2 "00110100"; PATTERN3 "01010110";

PATTERN4 "00010010"; SOURCE 3

Description DATA2 is valid when :TRIGger:ENHanced:SPIBus: MODE WIRE4 is specified.

#### :TRIGger:ENHanced:SPIBus:DATA<x>:BYTE

Function Sets the number of bytes of the data of the SPI bus

trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:DATA<x>:

BYTE {<NRf>}

:TRIGger:ENHanced:SPIBus:DATA<x>:BYTE?

< x > = 1 or 2< NRf > = 1 to 4

Example :TRIGGER:ENHANCED:SPIBUS:DATA1:BYTE 1
-TRIGGER:ENHANCED:SPIRIS:DATA1:BYTE?

:TRIGGER:ENHANCED:SPIBUS:DATA1:BYTE -> :TRIGGER:ENHANCED:SPIBUS:DATA1:

BYTE 1

# :TRIGger:ENHanced:SPIBus:DATA<x>:

#### CONDition

Function Sets the determination method (match or not match) of the data of the SPI bus trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:DATA<x>:

CONDition {FALSe|TRUE}

:TRIGger:ENHanced:SPIBus:DATA<x>:

CONDition? <x> = 1 or 2

Example :TRIGGER:ENHANCED:SPIBUS:DATA1:

CONDITION TRUE

:TRIGGER:ENHANCED:SPIBUS:DATA1:

CONDITION? -> :TRIGGER:ENHANCED:SPIBUS:

DATA1: CONDITION TRUE

# :TRIGger:ENHanced:SPIBus:DATA<x>: DPOSition

Function Sets the pattern comparison start position of the data of the SPI bus trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:DATA<x>:

DPOSition {<NRf>}

:TRIGger:ENHanced:SPIBus:DATA<x>:

DPOSition? < x > = 1 or 2

<NRf> = 0 to 9999

Example :TRIGGER:ENHANCED:SPIBUS:DATA1:

DPOSITION 1

:TRIGGER:ENHANCED:SPIBUS:DATA1:

DPOSITION? -> :TRIGGER:ENHANCED:SPIBUS:

DATA1:DPOSITION 1

# :TRIGger:ENHanced:SPIBus:DATA<x>:

# HEXA<x>

Function Sets the data of the SPI bus trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:SPIBus:DATA<x>:

HEXA<x> {<String>}
<x> of DATA<x> = 1 or 2
<x> of HEXA<x> = 1 to 4

<String> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:ENHANCED:SPIBUS:DATA1:

HEXA1 "AB"

# :TRIGger:ENHanced:SPIBus:DATA<x>: PATTern<x>

Sets the data of the SPI bus trigger in binary notation Function

or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:DATA<x>:

PATTern<x> {<String>}

:TRIGger:ENHanced:SPIBus:DATA<x>:

PATTern<x>?

<x> of DATA<x> = 1 or 2 <x> of PATTern<x> = 1 to 4

<String> = 8 characters by combining '0,' '1,' and 'X'

Example :TRIGGER:ENHANCED:SPIBUS:DATA1:

PATTERN1 "10101011"

:TRIGGER:ENHANCED:SPIBUS:DATA1:

PATTERN1? -> :TRIGGER:ENHANCED:SPIBUS:

DATA1:PATTERN1 "10101011"

# :TRIGger:ENHanced:SPIBus:DATA<x>: SOURCE

Function Sets the trace of the data of the SPI bus trigger or

queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:DATA<x>:

SOURce {<NRf>}

:TRIGger:ENHanced:SPIBus:DATA<x>:

SOURce? < x > = 1 or 2<NRf> = 1 to 4

Example :TRIGGER:ENHANCED:SPIBUS:DATA1:SOURCE 1

:TRIGGER:ENHANCED:SPIBUS:DATA1:SOURCE? -> :TRIGGER:ENHANCED:SPIBUS:DATA1:

SOURCE 1

# :TRIGger:ENHanced:SPIBus:MODE

Sets the wiring system of the SPI bus trigger (three-Function

wire or four-wire) or queries the current setting.

:TRIGger:ENHanced:SPIBus:MODE {WIRE3| Syntax

:TRIGger:ENHanced:SPIBus:MODE?

Example :TRIGGER:ENHANCED:SPIBUS:MODE WIRE3

:TRIGGER:ENHANCED:SPIBUS:MODE?

-> :TRIGGER:ENHANCED:SPIBUS:MODE WIRE3

# :TRIGger:ENHanced:UART?

Function Queries all settings related to the UART bus signal

trigger.

Syntax :TRIGger:ENHanced:UART?

Example :TRIGGER:ENHANCED:UART? -> :TRIGGER:

ENHANCED: UART: BRATE 19200; DATA: BITORDER LSBFIRST; DSIZE 1; PATTERN "X0101001";: TRIGGER: ENHANCED: UART: ERROR: FRAMING 1; PARITY 1; PMODE EVEN; :TRIGGER: ENHANCED:

POLARITY NEGATIVE; SOURCE 1;

UART: FORMAT BIT7PARITY; MODE DATA;

SPOINT 18.8E+00

#### :TRIGger:ENHanced:UART:BRATe

Sets the UART bus signal trigger bit rate (data

transfer rate) or queries the current setting.

Syntax :TRIGger:ENHanced:UART:

> BRATe { < NRf > | USER, < NRf > } :TRIGger:ENHanced:UART:BRATe?

<NRf> = 1200, 2400, 4800, 9600, 19200, 38400,

57600, 115200

<NRf> of USER = See the SB5000 User's Manual

Example :TRIGGER:ENHANCED:UART:BRATE 19200

:TRIGGER:ENHANCED:UART:BRATE? ->

:TRIGGER:ENHANCED:UART:BRATE 19200

#### :TRIGger:ENHanced:UART:DATA?

Function Queries all settings related to data of the UART bus signal trigger.

Syntax

:TRIGger:ENHanced:UART:DATA?

Example :TRIGGER:ENHANCED:UART:DATA? ->

:TRIGGER:ENHANCED:UART:DATA: BITORDER LSBFIRST; DSIZE 1;

PATTERN "X0101001"

# :TRIGger:ENHanced:UART:DATA:BITorder

Function Sets the data bit order of the UART bus signal trigger

or queries the current setting.

Syntax :TRIGger:ENHanced:UART:DATA: BITorder {LSBFirst | MSBFirst}

:TRIGger:ENHanced:UART:DATA:BITorder?

Example :TRIGGER:ENHANCED:UART:DATA:

BITORDER LSBFIRST

:TRIGGER:ENHANCED:UART:DATA:BITORDER?

-> :TRIGGER:ENHANCED:UART:DATA:

BITORDER LSBFIRST

# :TRIGger:ENHanced:UART:DATA:DSIZe

Function Sets the number of data bytes of the UART bus signal

trigger or queries the current setting.

:TRIGger:ENHanced:UART:DATA: Syntax

DSIZe {<NRf>}

:TRIGger:ENHanced:UART:DATA:DSIZe?

< NRf > = 1 to 4

Example :TRIGGER:ENHANCED:UART:DATA:DSIZE 1

:TRIGGER:ENHANCED:UART:DATA:DSIZE? -> :TRIGGER:ENHANCED:UART:DATA:DSIZE 1

## :TRIGger:ENHanced:UART:DATA:HEXA

Function Sets the UART bus signal trigger data in hexadecimal.

Syntax :TRIGger:ENHanced:UART:DATA:

HEXA {<string>}

<string> = 8 characters by combining '0' to 'F' and 'X,'

units of 1 byte

Example :TRIGGER:ENHANCED:UART:DATA:HEXA "A9"

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#### :TRIGger:ENHanced:UART:DATA:PATTern

Sets the data of the UART bus signal trigger in binary or queries the current setting.

Syntax :TRIGger:ENHanced:UART:DATA:

PATTern {<string>}

:TRIGger:ENHanced:UART:DATA:PATTern? <string> = 32 characters by combining '0,' '1,' and 'X,' units of 1 byte

Example : TRIGGER: ENHANCED: UART: DATA:

PATTERN "11011111"

:TRIGGER:ENHANCED:UART:DATA:

PATTERN? -> :TRIGGER:ENHANCED:UART:

DATA: PATTERN "11011111"

## :TRIGger:ENHanced:UART:ERRor?

Function Queries all settings related to the UART bus signal trigger error.

Syntax :TRIGger:ENHanced:UART:ERRor? Example :TRIGGER:ENHANCED:UART:ERROR? ->

:TRIGGER:ENHANCED:UART:ERROR:FRAMING 1;

PARITY 1; PMODE EVEN

## :TRIGger:ENHanced:UART:ERRor:FRAMing

Function Sets the UART bus signal trigger Framing error or queries the current setting.

Syntax :TRIGger:ENHanced:UART:ERRor:

FRAMing {<Boolean>}

:TRIGger:ENHanced:UART:ERRor:FRAMing?

Example :TRIGGER:ENHANCED:UART:ERROR:FRAMING ON :TRIGGER:ENHANCED:UART:ERROR:FRAMING?

-> :TRIGGER:ENHANCED:UART:ERROR:

FRAMING 1

#### :TRIGger:ENHanced:UART:ERRor:PARity

Function Sets the UART bus signal trigger Parity error or queries the current setting.

Syntax :TRIGger:ENHanced:UART:ERRor:

PARity {<Boolean>}

:TRIGger:ENHanced:UART:ERRor:PARity?

Example :TRIGGER:ENHANCED:UART:ERROR:PARITY ON

:TRIGGER:ENHANCED:UART:ERROR:PARITY? -> :TRIGGER:ENHANCED:UART:ERROR:PARITY 1

# :TRIGger:ENHanced:UART:ERRor:PMODe

Sets the UART bus signal trigger Parity mode or Function queries the current setting.

:TRIGger:ENHanced:UART:ERRor: Syntax

PMODe {EVEN | ODD}

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:TRIGger:ENHanced:UART:ERRor:PMODe?

Example :TRIGGER:ENHANCED:UART:ERROR:PMODE EVEN

:TRIGGER:ENHANCED:UART:ERROR:PMODE? -> :TRIGGER:ENHANCED:UART:ERROR:PMODE EVEN

#### :TRIGger:ENHanced:UART:FORMat

Function Sets the UART bus signal trigger format or queries

the current setting.

:TRIGger:ENHanced:UART: Syntax

FORMat {BIT7parity|BIT8Noparity|

BIT8Parity}

:TRIGger:ENHanced:UART:FORMat?

Example :TRIGGER:ENHANCED:UART:

FORMAT BIT7PARITY

·TRICGER·ENHANCED·HART·FORMAT? ->

:TRIGGER:ENHANCED:UART: FORMAT BIT7PARITY

#### :TRIGger:ENHanced:UART:MODE

Sets the UART bus signal trigger mode or queries the current setting.

:TRIGger:ENHanced:UART: Syntax

MODE {DATA | ERROr }

:TRIGger:ENHanced:UART:MODE?

Example :TRIGGER:ENHANCED:UART:MODE DATA

:TRIGGER:ENHANCED:UART:MODE? -> :TRIGGER:ENHANCED:UART:MODE DATA

#### :TRIGger:ENHanced:UART:POLarity

Sets the UART bus signal trigger polarity or queries Function the current setting.

:TRIGger:ENHanced:UART: Syntax

POLarity {NEGative | POSitive}

:TRIGger:ENHanced:UART:POLarity?

Example :TRIGGER:ENHANCED:UART:

POLARITY NEGATIVE

:TRIGGER:ENHANCED:UART:POLARITY? ->

:TRIGGER:ENHANCED:UART: POLARITY NEGATIVE

#### :TRIGger:ENHanced:UART:SOURce

Sets the UART bus signal trigger source or queries Function the current setting.

Syntax :TRIGger:ENHanced:UART:SOURce {<NRf>}

:TRIGger:ENHanced:UART:SOURce?

< NRf > = 1 to 4

Example :TRIGGER:ENHANCED:UART:SOURCE 1

:TRIGGER:ENHANCED:UART:SOURCE? -> :TRIGGER:ENHANCED:UART:SOURCE 1

# :TRIGger:ENHanced:UART:SPOint

Function Sets the UART bus signal trigger sample point or queries the current setting.

:TRIGger:ENHanced:UART:SPOint {<NRf>} Syntax

:TRIGger:ENHanced:UART:SPOint?

<NRf> = 18.8 to 90.6(%)

Example :TRIGGER:ENHANCED:UART:SPOINT 18.8

:TRIGGER:ENHANCED:UART:SPOINT? ->

:TRIGGER:ENHANCED:UART:SPOINT 18.8E+00

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#### :TRIGger:ESTate?

Function Queries all settings related to the edge/state trigger.

Syntax :TRIGger:ESTate?

Example :TRIGGER:ESTATE? -> :TRIGGER:ESTATE:

EOR: CHANNEL1 DONTCARE;

CHANNEL2 DONTCARE; CHANNEL3 DONTCARE; CHANNEL4 DONTCARE;:TRIGGER:ESTATE:

SOURCE 1; POLARITY ENTER

#### :TRIGger:ESTate:EOR?

Function Queries all settings related to the OR trigger.

Syntax :TRIGger:ESTate:EOR?

Example :TRIGGER:ESTATE:EOR? -> :TRIGGER:

ESTATE: EOR: CHANNEL1 DONTCARE;

CHANNEL2 DONTCARE; CHANNEL3 DONTCARE;

CHANNEL4 DONTCARE

#### :TRIGger:ESTate:EOR:CHANnel<x>

Function Sets the channel polarity of the OR trigger or queries

the current setting.

Syntax :TRIGger:ESTate:EOR:

CHANnel<x> {DONTcare|FALL|RISE}
:TRIGger:ESTate:EOR:CHANnel<x>?

< x > = 1 to 4

Example :TRIGGER:ESTATE:EOR:CHANNEL1 DONTCARE

:TRIGGER:ESTATE:EOR:CHANNEL1? -> :

TRIGGER: ESTATE: EOR: CHANNEL1 DONTCARE

Description • This command is valid when :TRIGger: TYPE EOR.

 For :TRIGger:SOURce:CHANnel<x>:WINDow ON, the choices in the SB5000 menu are Enter/Exit. {RISE} corresponds to Enter, and {FALL} corresponds to Exit.

# :TRIGger:ESTate:POLarity

Function Sets the polarity of the edge/state trigger or queries the current setting.

Syntax :TRIGger:ESTate:POLarity {ENTer|EXIT|

FALL|RISE}

:TRIGger:ESTate:POLarity?

Example :TRIGGER:ESTATE:POLARITY ENTER

:TRIGGER:ESTATE:POLARITY? -> :TRIGGER:

ESTATE: POLARITY ENTER

Description • This command is valid when :TRIGger:

TYPE EDGE|EQUalify|STATe.

 This command is invalid when :TRIGger: TYPE EDGE and :TRIGger:ESTate:

SOURce LINE.

 For :TRIGger:TYPE EDGE|EQUalify and :TRIGger: SOURce:CHANnel<x>:WINDow ON, the choices in the SB5000 menu are Enter/Exit. {RISE} corresponds to Enter, and {FALL}

corresponds to Exit.

 {ENTer|EXIT} is valid when :TRIGger: TYPE STATe.

#### :TRIGger:ESTate:SOURce

Function Sets the trigger source of the edge/state trigger or queries the current setting.

Syntax :TRIGger:ESTate:SOURce {<NRf>|EXTernal|

LINE }

:TRIGger:ESTate:SOURce?

<NRf> = 1 to 4

Example :TRIGGER:ESTATE:SOURCE EXTERNAL

:TRIGGER:ESTATE:SOURCE? -> :TRIGGER:

ESTATE: SOURCE EXTERNAL

Description • This command is valid when :TRIGger:TYPE EDGE|EQUalify.

• {<NRf>|EXTernal|LINE} is valid when :TRIGger: TYPE EDGE.

 {<NRf>|EXTernal} is valid when :TRIGger:TYPE EQUalify.

# :TRIGger:HOLDoff

Function Sets the hold off time or queries the current setting.

Syntax :TRIGger:HOLDoff {<Time>}

:TRIGger:HOLDoff?

<Time> = 20 ns to 10 s (5 ns steps)

Example :TRIGGER:HOLDOFF 1S

:TRIGGER:HOLDOFF?

-> :TRIGGER:HOLDOFF 1.000E+00

## :TRIGger:LOGic?

Function Queries all settings related to the logic trigger.

Syntax :TRIGger:LOGic?

Example :TRIGGER:LOGIC? -> :TRIGGER:LOGIC:

CLOCK:POLARITY RISE;SOURCE A0;:TRIGGER:
LOGIC:ESTATE:POLARITY RISE;SOURCE A0;:

TRIGGER:LOGIC:12CBUS:ADATA:

BIT10ADDRESS:PATTERN "XXXXXXXXXXX";:

TRIGGER:LOGIC:12CBUS:ADATA:BIT7ADDRESS:

PATTERN "XXXXXXXX";:TRIGGER:LOGIC:

I2CBUS:ADATA:BIT7APSUB:ADDRESS:

PATTERN "XXXXXXXX";:TRIGGER:LOGIC:

12CBUS:ADATA:BIT7APSUB:SADDRESS:

PATTERN "XXXXXXXX";:TRIGGER:LOGIC:

12CBUS:ADATA:TYPE BIT7ADDRESS;:TRIGGER:

LOGIC:12CBUS:CLOCK:SOURCE A0;:TRIGGER:

LOGIC:I2CBUS:DATA:BYTE 1;

CONDITION TRUE; DPOSITION 0; MODE 0;

PATTERN1 "XXXXXXXX";

PATTERN2 "XXXXXXXX";

PATTERN3 "XXXXXXXX";

PATTERN4 "XXXXXXXX"; PMODE DONTCARE;

SOURCE A1;:TRIGGER:LOGIC:12CBUS:GCALL:

BIT7MADDRESS:PATTERN "XXXXXXX1";:

TRIGGER:LOGIC:12CBUS:GCALL:

SBYTE DONTCARE;:TRIGGER:LOGIC:12CBUS:

MODE ESTART; NAIGNORE: HSMODE 0;

RACCESS 0;SBYTE 0;:TRIGGER:LOGIC:

I2CBUS:SBHSMODE:TYPE SBYTE....

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#### :TRIGger:LOGic:CLOCk?

Function Queries all settings related to the logic trigger clock.

Syntax :TRIGger:LOGic:CLOCk?

Example :TRIGGER:LOGIC:CLOCK? -> :TRIGGER:

LOGIC: CLOCK: POLARITY RISE;

SOURCE A0

## :TRIGger:LOGic:CLOCk:POLarity

Function Sets the polarity of the logic trigger clock or queries

the current setting.

Syntax :TRIGger:LOGic:CLOCk:POLarity {FALL|

RISE }

:TRIGger:LOGic:CLOCk:POLarity?

Example :TRIGGER:LOGIC:CLOCK:POLARITY FALL

:TRIGGER:LOGIC:CLOCK:POLARITY?

-> :TRIGGER:LOGIC:CLOCK:POLARITY FALL

#### :TRIGger:LOGic:CLOCk:SOURce

Function Sets the clock source of the logic trigger or queries

the current setting.

Syntax :TRIGger:LOGic:CLOCk:SOURce {A<x>|B<x>|

C<x>|D<x>|DONTcare

:TRIGger:LOGic:CLOCk:SOURce?

< x > = 0 to 7

Example :TRIGGER:LOGIC:CLOCK:SOURCE A0

:TRIGGER:LOGIC:CLOCK:SOURCE?

-> :TRIGGER:LOGIC:CLOCK:SOURCE A0

Description For the SB5310, only {A<x>|DONTcare} are valid

# :TRIGger:LOGic:ESTate?

Function Queries all settings related to the edge/state trigger

of the logic.

Syntax :TRIGger:LOGic:ESTate?

Example :TRIGGER:LOGIC:ESTATE? -> :TRIGGER:

LOGIC: ESTATE: POLARITY RISE; SOURCE A0

# :TRIGger:LOGic:ESTate:POLarity

Function Sets the polarity of the edge/state trigger of the logic

or queries the current setting.

Syntax :TRIGger:LOGic:ESTate:POLarity {ENTer|

EXIT|FALL|RISE}

:TRIGger:LOGic:ESTate:POLarity?

Example :TRIGGER:LOGIC:ESTATE:POLARITY ENTER

:TRIGGER:LOGIC:ESTATE:POLARITY?

-> :TRIGGER:LOGIC:ESTATE:POLARITY ENTER

Description • {ENTer|EXIT} is valid if :TRIGger:TYPE LState.

 {FALL|RISE} is valid if not :TRIGger: TYPE LState.

#### :TRIGger:LOGic:ESTate:SOURce

Function Sets the edge/state trigger source of the logic or

queries the current setting.

Syntax :TRIGger:LOGic:ESTate:SOURce {A<x>|

B<x>|C<x>|D<x>

:TRIGger:LOGic:ESTate:SOURce?

< x > = 0 to 7

Example :TRIGGER:LOGIC:ESTATE:SOURCE A0

:TRIGGER:LOGIC:ESTATE:SOURCE?

-> :TRIGGER:LOGIC:ESTATE:SOURCE A0

Description For the SB5310, only {A<x>} are valid.

## :TRIGger:LOGic:I2CBus?

Function Queries all settings related to the logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:LOGic:I2CBus?

Example :TRIGGER:LOGIC:I2CBUS?

-> :TRIGGER:LOGIC:I2CBUS:ADATA:

BIT10ADDRESS:PATTERN "10111011111";:

TRIGGER:LOGIC:I2CBUS:ADATA:BIT7ADDRESS:

PATTERN "11011110";:TRIGGER:LOGIC:

I2CBUS:ADATA:BIT7APSUB:ADDRESS:

PATTERN "10101011"; :TRIGGER:LOGIC:

I2CBUS:ADATA:BIT7APSUB:SADDRESS:

12CB05.ADATA.BIT/AF50B.SADDKESS.

PATTERN "10101011";:TRIGGER:LOGIC: I2CBUS:ADATA:TYPE BIT10ADDRESS;:

TRIGGER:LOGIC:12CBUS:CLOCK:SOURCE A0;:

TRIGGER:LOGIC:I2CBUS:DATA:BYTE 1;

CONDITION FALSE; DPOSITION 1; MODE 1;

PATTERN1 "10101011";

PATTERN2 "XXXXXXXX";

PATTERN3 "XXXXXXXX";

PATTERN4 "XXXXXXXX"; PMODE DONTCARE;

SOURCE A0;:TRIGGER:LOGIC:12CBUS:

GCALL:BIT7MADDRESS:PATTERN "1010101";:

TRIGGER:LOGIC:I2CBUS:GCALL:

SBYTE BIT7MADDRESS;:TRIGGER:LOGIC:
I2CBUS:MODE ADATA;NAIGNORE:HSMODE 1;

RACCESS 1;SBYTE 1;:TRIGGER:LOGIC:

12CBUS:SBHSMODE:TYPE HSMODE

# :TRIGger:LOGic:I2CBus:ADATa?

Function Queries all settings related to the address of the logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:ADATa?

Example :TRIGGER:LOGIC:I2CBUS:ADATA?

:TRIGGER:LOGIC:12CBUS:ADATA?

-> :TRIGGER:LOGIC:I2CBUS:ADATA:

BIT10ADDRESS:PATTERN "10111011111";:

TRIGGER: LOGIC: I2CBUS: ADATA: BIT7ADDRESS:

PATTERN "11011110";:TRIGGER:LOGIC:

I2CBUS: ADATA: BIT7APSUB: ADDRESS: PATTERN

"10101011";:TRIGGER:LOGIC:I2CBUS:ADATA: BIT7APSUB:SADDRESS:PATTERN "10101011";:

TRIGGER: LOGIC: I2CBUS: ADATA:

TYPE BIT10ADDRESS

## :TRIGger:LOGic:I2CBus:ADATa:

#### BIT10address?

Function Queries all settings related to the 10-bit address of

the logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:ADATa:

BIT10address?

Example :TRIGGER:LOGIC:I2CBUS:ADATA:

BIT10ADDRESS?

-> :TRIGGER:LOGIC:I2CBUS:ADATA:
BIT10ADDRESS:PATTERN "10111011111"

## :TRIGger:LOGic:I2CBus:ADATa:

#### BIT10address: HEXA

Function Sets the 10-bit address of the logic I<sup>2</sup>C bus trigger in

hexadecimal notation.

Syntax :TRIGger:LOGic:I2CBus:ADATa:

BIT10address:HEXA {<string>}

<string> = combination of 3 characters (0-F, and X),

where bit 8 is  $R/\overline{W}$  bit.

Example :TRIGGER:LOGIC:I2CBUS:ADATA:

BIT10ADDRESS:HEXA "7AB"

# :TRIGger:LOGic:I2CBus:ADATa:

#### BIT10address: PATTern

Function Sets the 10-bit address of the logic I<sup>2</sup>C bus trigger in

binary notation or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:ADATa:

BIT10address:PATTern {<string>}
:TRIGger:LOGic:I2CBus:ADATa:

BIT10address: PATTern?

<string> = combination of 11 characters (0, 1, and X),

where bit 8 is  $R/\overline{W}$  bit.

Example :TRIGGER:LOGIC:I2CBUS:ADATA:

BIT10ADDRESS:PATTERN "10111011111"

:TRIGGER:LOGIC:I2CBUS:ADATA:

BIT10ADDRESS: PATTERN?

->:TRIGGER:LOGIC:I2CBUS:ADATA:
BIT10ADDRESS:PATTERN "10111011111"

# :TRIGger:LOGic:I2CBus:ADATa:

#### BIT7ADdress?

Function Queries all settings related to the 7-bit address of the

logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:ADATa:

BIT7ADdress?

Example :TRIGGER:LOGIC:I2CBUS:ADATA:

BIT7ADDRESS?

-> :TRIGGER:LOGIC:I2CBUS:ADATA: BIT7ADDRESS:PATTERN "11011110"

# :TRIGger:LOGic:I2CBus:ADATa:

#### BIT7ADdress:HEXA

Function Sets the 7-bit address of the logic I<sup>2</sup>C bus trigger in

hexadecimal notation.

Syntax :TRIGger:LOGic:I2CBus:ADATa:

BIT7ADdress:HEXA {<string>}

<string> = combination of 2 characters (0-F, and X),

where bit 0 is  $R/\overline{W}$  bit.

Example :TRIGGER:LOGIC:I2CBUS:ADATA:

BIT7ADDRESS:HEXA "DE"

# :TRIGger:LOGic:I2CBus:ADATa:

#### BIT7ADdress:PATTern

Function Sets the 7-bit address of the logic I<sup>2</sup>C bus trigger in

binary notation or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:ADATa:

BIT7ADdress:PATTern {<string>}
:TRIGger:LOGic:I2CBus:ADATa:

BIT7ADdress: PATTern?

<string> = combination of 8 characters (0, 1, and X),

where bit 0 is  $R/\overline{W}$  bit.

Example :TRIGGER:LOGIC:I2CBUS:ADATA:

BIT7ADDRESS:PATTERN "11011110":TRIGGER:LOGIC:I2CBUS:ADATA:

BIT7ADDRESS: PATTERN?

-> :TRIGGER:LOGIC:I2CBUS:ADATA:

BIT7ADDRESS:PATTERN "11011110"

# :TRIGger:LOGic:I2CBus:ADATa:BIT7APsub?

Function Queries all settings related to the 7-bit + Sub address

of the logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:ADATa:BIT7APsub?

Example :TRIGGER:LOGIC:I2CBUS:ADATA:BIT7APSUB?
 -> :TRIGGER:LOGIC:I2CBUS:ADATA:

BIT7APSUB:ADDRESS:PATTERN "10101011";

:TRIGGER:LOGIC:I2CBUS:ADATA:BIT7APSUB:

SADDRESS:PATTERN "10101011"

#### :TRIGger:LOGic:I2CBus:ADATa:

# BIT7APsub: ADDRess?

Function Queries all settings related to the 7-bit address of the

7-bit + Sub address of the logic  $I^2C$  bus trigger.

Syntax :TRIGger:LOGic:I2CBus:ADATa:

BIT7APsub:ADDRess?

Example :TRIGGER:LOGIC:I2CBUS:ADATA:

BIT7APSUB: ADDRESS?

-> :TRIGGER:LOGIC:I2CBUS:ADATA:

BIT7APSUB:ADDRESS:PATTERN "10101011"

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#### :TRIGger:LOGic:I2CBus:ADATa:

## BIT7APsub:ADDRess:HEXA

Function Sets the 7-bit address of the 7-bit + Sub address of

the logic I<sup>2</sup>C bus trigger in hexadecimal notation.

Syntax :TRIGger:LOGic:I2CBus:ADATa:

BIT7APsub:ADDRess:HEXA {<string>}

<string> = combination of 2 characters (0-F, and X),

where bit 0 is  $R/\overline{W}$  bit.

Example :TRIGGER:LOGIC:I2CBUS:ADATA:

BIT7APSUB:ADDRESS:HEXA "AB"

# :TRIGger:LOGic:I2CBus:ADATa:

#### BIT7APsub:ADDRess:PATTern

Function Sets the 7-bit address of the 7-bit + Sub address of the logic I<sup>2</sup>C bus trigger in binary notation or queries

the current setting.

Syntax :TRIGger:LOGic:I2CBus:ADATa:

BIT7APsub:ADDRess:PATTern {<string>}

:TRIGger:LOGic:I2CBus:ADATa: BIT7APsub:ADDRess:PATTern?

<string> = combination of 8 characters (0, 1, and X),

where bit 0 is R/W\_ bit.

Example :TRIGGER:LOGIC:I2CBUS:ADATA:

BIT7APSUB:ADDRESS:PATTERN "10101011"

:TRIGGER:LOGIC:12CBUS:ADATA:
BIT7APSUB:ADDRESS:PATTERN?
-> :TRIGGER:LOGIC:12CBUS:ADATA:
BIT7APSUB:ADDRESS:PATTERN "10101011"

#### :TRIGger:LOGic:I2CBus:ADATa:

# BIT7APsub: SADDress?

Function Queries all settings related to the sub address of the 7-bit + Sub address of the logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:ADATa:

TRIGGET. HOGIC. 12CDus. ADATA

BIT7APsub:SADDress?

Example :TRIGGER:LOGIC:I2CBUS:ADATA:

BIT7APSUB: SADDRESS?

-> :TRIGGER:LOGIC:I2CBUS:ADATA:

BIT7APSUB:SADDRESS:PATTERN "10101011"

# :TRIGger:LOGic:I2CBus:ADATa:

# BIT7APsub:SADDress:HEXA

Function Sets the sub address of the 7-bit + Sub address of

the logic I<sup>2</sup>C bus trigger in hexadecimal notation.

Syntax :TRIGger:LOGic:I2CBus:ADATa:

BIT7APsub:SADDress:HEXA {<string>}

<string> = Combination of up to 2 characters (0-F and

X)

Example :TRIGGER:LOGIC:I2CBUS:ADATA:

BIT7APSUB:SADDRESS:HEXA "EF"

# :TRIGger:LOGic:I2CBus:ADATa:

#### BIT7APsub:SADDress:PATTern

Function Sets the sub address of the 7-bit + Sub address of

the logic  $I^2C$  bus trigger in binary notation or queries

the current setting.

Syntax :TRIGger:LOGic:I2CBus:ADATa:

BIT7APsub:SADDress:PATTern {<string>}

:TRIGger:LOGic:I2CBus:ADATa: BIT7APsub:SADDress:PATTern?

<string> = combination of 8 characters (0, 1, and X).

Example :TRIGGER:LOGIC:I2CBUS:ADATA:

BIT7APSUB:SADDRESS:PATTERN "10101011"

:TRIGGER:LOGIC:12CBUS:ADATA:
BIT7APSUB:SADDRESS:PATTERN?
-> :TRIGGER:LOGIC:12CBUS:ADATA:
BIT7APSUB:SADDRESS:PATTERN "101010111"

#### :TRIGger:LOGic:I2CBus:ADATa:TYPE

Function Sets the address type of the logic I<sup>2</sup>C bus trigger or

queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:ADATa:

TYPE {BIT10address|BIT7ADdress|

BIT7APsub}

:TRIGger:LOGic:I2CBus:ADATa:TYPE?

Example :TRIGGER:LOGIC:I2CBUS:ADATA:

TYPE BIT10ADDRESS

:TRIGGER:LOGIC:I2CBUS:ADATA:TYPE?
-> :TRIGGER:LOGIC:I2CBUS:ADATA:

TYPE BIT10ADDRESS

## :TRIGger:LOGic:I2CBus:CLOCk?

Function Queries all settings related to the clock of the logic

I<sup>2</sup>C bus trigger.

SOURCE A0

# :TRIGger:LOGic:I2CBus:CLOCk:SOURce

Function Sets the clock trace for the logic I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:CLOCk:

SOURce {A<x>}

:TRIGger:LOGic:I2CBus:CLOCk:SOURce?

< x > = 0 to 7

Example :TRIGGER:LOGIC:I2CBUS:CLOCK:SOURCE A0

:TRIGGER:LOGIC:I2CBUS:CLOCK:SOURCE?

-> :TRIGGER:LOGIC:I2CBUS:CLOCK:

SOURCE A0

## :TRIGger:LOGic:I2CBus:DATA?

Function Queries all settings related to the data of the logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:DATA? Example :TRIGGER:LOGIC:I2CBUS:DATA?

> -> :TRIGGER:LOGIC:I2CBUS:DATA:BYTE 1; CONDITION FALSE;DPOSITION 1;MODE 1;

PATTERN1 "10101011"; PATTERN2 "XXXXXXXX"; PATTERN3 "XXXXXXXX";

PATTERN4 "XXXXXXXX"; PMODE DONTCARE;

SOURCE A0

#### :TRIGger:LOGic:I2CBus:DATA:BYTE

Function Sets the number of settings for the logic I<sup>2</sup>C bus

trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:DATA:BYTE {<NRf>}

:TRIGger:LOGic:I2CBus:DATA:BYTE?

< NRf > = 1 to 4

Example :TRIGGER:LOGIC:I2CBUS:DATA:BYTE 1

:TRIGGER:LOGIC:12CBUS:DATA:BYTE?
-> :TRIGGER:LOGIC:12CBUS:DATA:BYTE 1

#### :TRIGger:LOGic:I2CBus:DATA:CONDition

Function Sets the determination method for the data of the logic I<sup>2</sup>C bus trigger (match / no match) or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:DATA:

CONDition {FALSe|TRUE}

:TRIGger:LOGic:I2CBus:DATA:CONDition?

Example :TRIGGER:LOGIC:I2CBUS:DATA:

CONDITION FALSE

:TRIGGER:LOGIC:I2CBUS:DATA:CONDITION?

-> :TRIGGER:LOGIC:12CBUS:DATA:

CONDITION FALSE

#### :TRIGger:LOGic:I2CBus:DATA:DPOSition

Function Sets the pattern comparison position for the data of the logic I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:DATA:

DPOSition {<NRf>}

:TRIGger:LOGic:I2CBus:DATA:DPOSition?

<NRf> = 0 to 9999

Example :TRIGGER:LOGIC:I2CBUS:DATA:DPOSITION 1

:TRIGGER:LOGIC:I2CBUS:DATA:DPOSITION?

-> :TRIGGER:LOGIC:I2CBUS:DATA:

DPOSITION 1

#### :TRIGger:LOGic:I2CBus:DATA:HEXA<x>

Function Sets the data of the logic I<sup>2</sup>C bus trigger in hexadecimal notation.

Syntax :TRIGger:LOGic:I2CBus:DATA:

HEXA<x> {<string>}
<x> of HEXA<x> = 1 to 4

<string> = Combination of up to 2 characters (0-F and

X)

Example :TRIGGER:LOGIC:I2CBUS:DATA:HEXA1 "AB"

#### :TRIGger:LOGic:I2CBus:DATA:MODE

Function Enables/disables the data conditions of the logic I<sup>2</sup>C

bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:DATA:

MODE {<Boolean>}

:TRIGger:LOGic:I2CBus:DATA:MODE?

Example :TRIGGER:LOGIC:I2CBUS:DATA:MODE ON :TRIGGER:LOGIC:I2CBUS:DATA:MODE?

-> :TRIGGER:LOGIC:I2CBUS:DATA:MODE 1

# :TRIGger:LOGic:I2CBus:DATA:PATTern<x>

notation or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:DATA:

PATTern<x> {<string>}
:TRIGger:LOGic:I2CBus:DATA:PATTern<x>?

< x > = 1 to 4

 $\langle string \rangle = combination of 8 characters (0, 1, and X).$ 

Example :TRIGGER:LOGIC:I2CBUS:DATA:

PATTERN1 "10101011"

:TRIGGER:LOGIC:I2CBUS:DATA:PATTERN1?

-> :TRIGGER:LOGIC:I2CBUS:DATA:

PATTERN1 "10101011"

# :TRIGger:LOGic:I2CBus:DATA:PMODe

Function Sets the pattern comparison start position for the data of the logic l<sup>2</sup>C bus trigger or queries the current

setting.

Syntax :TRIGger:LOGic:I2CBus:DATA:PMODe

{DONTcare|SELect}

:TRIGger:LOGic:I2CBus:DATA:PMODe?

Example :TRIGGER:LOGIC:I2CBUS:DATA:

PMODE DONTCARE

:TRIGGER:LOGIC:I2CBUS:DATA:PMODE?
-> :TRIGGER:LOGIC:I2CBUS:DATA:

PMODE DONTCARE

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#### :TRIGger:LOGic:I2CBus:DATA:SOURce

Function Sets the data trace for the logic I<sup>2</sup>C bus trigger or

queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:DATA:

SOURce {A<x>}

:TRIGger:LOGic:I2CBus:DATA:SOURce?

< x > = 0 to 7

Example :TRIGGER:LOGIC:I2CBUS:DATA:SOURCE A0

:TRIGGER:LOGIC:I2CBUS:DATA:SOURCE?

-> :TRIGGER:LOGIC:I2CBUS:DATA:SOURCE A0

#### :TRIGger:LOGic:I2CBus:GCAL1?

Function Queries all settings related to the general call of the

logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:GCALl?
Example :TRIGGER:LOGIC:I2CBUS:GCALL?

-> :TRIGGER:LOGIC:I2CBUS:GCALL: BIT7MADDRESS:PATTERN "10101011";:

TRIGGER:LOGIC:I2CBUS:GCALL:

SBYTE BIT7MADDRESS

#### :TRIGger:LOGic:I2CBus:GCAL1:

#### BIT7maddress?

Function Queries all settings related to the 7-bit master

address of the general call of the logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:GCAL1:

BIT7maddress?

Example :TRIGGER:LOGIC:I2CBUS:GCALL:

BIT7MADDRESS?

-> :TRIGGER:LOGIC:I2CBUS:GCALL: BIT7MADDRESS:PATTERN "10101011"

# :TRIGger:LOGic:I2CBus:GCAL1:

# BIT7maddress:HEXA

Function Sets the 7-bit master address of the general call of

the logic  $I^2C$  bus trigger in hexadecimal notation.

Syntax :TRIGger:LOGic:I2CBus:GCALl:

BIT7maddress:HEXA {<string>}

<string> = combination of 2 characters (0-F and X),

where bit 0 is fixed to '1.'

Example :TRIGGER:LOGIC:I2CBUS:GCALL:

BIT7MADDRESS:HEXA "AB"

## :TRIGger:LOGic:I2CBus:GCAL1:

#### BIT7maddress: PATTern

Function Sets the 7-bit master address of the general call of

the logic I<sup>2</sup>C bus trigger in binary notation or queries

the current setting.

Syntax :TRIGger:LOGic:I2CBus:GCAL1:

BIT7maddress:PATTern {<string>}
:TRIGger:LOGic:I2CBus:GCALl:

BIT7maddress:PATTern?

<string> = combination of 7 characters (0, 1, and X).

Example :TRIGGER:LOGIC:I2CBUS:GCALL:

BIT7MADDRESS:PATTERN "1010101" :TRIGGER:LOGIC:12CBUS:GCALL:

BIT7MADDRESS: PATTERN?

-> :TRIGGER:LOGIC:I2CBUS:GCALL: BIT7MADDRESS:PATTERN "1010101"

# :TRIGger:LOGic:I2CBus:GCAL1:SBYTe

(Second Byte)

Function Sets the type of the second byte of the general call of

the logic I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:GCALl:

SBYTe {BIT7maddress|DONTcare|H04|H06}
:TRIGger:LOGic:I2CBus:GCALl:SBYTe?

Example :TRIGGER:LOGIC:I2CBUS:GCALL:

SBYTE BIT7MADDRESS

:TRIGGER:LOGIC:I2CBUS:GCALL:SBYTE?
-> :TRIGGER:LOGIC:I2CBUS:GCALL:

SBYTE BIT7MADDRESS

#### :TRIGger:LOGic:I2CBus:MODE

Function Sets the trigger mode for the logic I<sup>2</sup>C bus trigger or

queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:MODE {ADATa|

ESTart | GCAL1 | NAIGnore | SBHSmode }

:TRIGger:LOGic:I2CBus:MODE?

Example :TRIGGER:LOGIC:I2CBUS:MODE ADATA

:TRIGGER:LOGIC:12CBUS:MODE?

-> :TRIGGER:LOGIC:I2CBUS:MODE ADATA

## :TRIGger:LOGic:I2CBus:NAIGnore?

Function Queries all settings related to the NON-ACK Ignore

mode of the logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:NAIGnore?
Example :TRIGGER:LOGIC:I2CBUS:NAIGNORE?

-> :TRIGGER:LOGIC:I2CBUS:NAIGNORE:

HSMODE 1; RACCESS 1; SBYTE 1

# :TRIGger:LOGic:I2CBus:NAIGnore:HSMode

Function Sets whether to ignore NON ACK in high speed mode of the logic I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:NAIGnore:

HSMode {<Boolean>}

:TRIGger:LOGic:I2CBus:NAIGnore:HSMode?

Example :TRIGGER:LOGIC:I2CBUS:NAIGNORE:

HSMODE ON

:TRIGGER:LOGIC:12CBUS:NAIGNORE:HSMODE?
-> :TRIGGER:LOGIC:12CBUS:NAIGNORE:

HSMODE 1

#### :TRIGger:LOGic:I2CBus:NAIGnore:RACCess

Function Sets whether to ignore NON ACK in read access mode of the logic I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:NAIGnore:

RACCess {<Boolean>}

:TRIGger:LOGic:I2CBus:NAIGnore:

RACCess?

Example :TRIGGER:LOGIC:I2CBUS:NAIGNORE:

RACCESS ON

:TRIGGER:LOGIC:I2CBUS:NAIGNORE:

RACCESS?

-> :TRIGGER:LOGIC:I2CBUS:NAIGNORE:

RACCESS 1

# :TRIGger:LOGic:I2CBus:NAIGnore:SBYTe (Start Byte)

Function Sets whether to ignore NON ACK in the start byte of the logic I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:NAIGnore:

SBYTe {<Boolean>}

:TRIGger:LOGic:I2CBus:NAIGnore:SBYTe?

Example :TRIGGER:LOGIC:I2CBUS:NAIGNORE:SBYTE ON

:TRIGGER:LOGIC:I2CBUS:NAIGNORE:SBYTE?
-> :TRIGGER:LOGIC:I2CBUS:NAIGNORE:

SBYTE 1

# :TRIGger:LOGic:I2CBus:SBHSmode?

Function Queries all settings related to the start byte/high speed mode of the logic I<sup>2</sup>C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:SBHSmode?
Example :TRIGGER:LOGIC:I2CBUS:SBHSMODE?

-> :TRIGGER:LOGIC:I2CBUS:SBHSMODE:

TYPE HSMODE

#### :TRIGger:LOGic:I2CBus:SBHSmode:TYPE

Function Sets the type of the start byte/high speed mode of the logic I<sup>2</sup>C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:SBHSmode:

TYPE {HSMode|SBYTe}

:TRIGger:LOGic:I2CBus:SBHSmode:TYPE?

Example :TRIGGER:LOGIC:I2CBUS:SBHSMODE:

TYPE HSMODE

:TRIGGER:LOGIC:I2CBUS:SBHSMODE:TYPE?
-> :TRIGGER:LOGIC:I2CBUS:SBHSMODE:

TYPE HSMODE

## :TRIGger:LOGic:LINBus?

Function Queries all settings related to the logic LIN bus signal triggers.

Syntax :TRIGger:LOGic:LINBus?

Example :TRIGGER:LOGIC:LINBUS? -> :TRIGGER:

LOGIC:LINBUS:BLENGTH 11;BRATE 19200; ERROR:CHECKSUM 0;DSIZE 8;FRAMING 0;

PARITY 0; SYNCH 0; TOUT 0; :TRIGGER:LOGIC:

LINBUS: IDDATA: DATA: BORDER BIG;

CONDITION DONTCARE; DATA1 0.000000E+00;

DATA2 255.00000E+00;DSIZE 8;MSBLSB 7, 0;

SIGN UNSIGN;:TRIGGER:LOGIC:LINBUS:

IDDATA:ID:PATTERN "XXXXXX";:TRIGGER:

LOGIC:LINBUS:IDOR:DSIZE 8;IDDATA1:DATA:

BORDER BIG; CONDITION DONTCARE;

DATA1 0.0000000E+00;DATA2 255.00000E+00;

MSBLSB 7, 0; PATTERN "XXXXXXXXXXXXXXXXXXX

 $\verb|XXXXXX"|; \verb|SIGN UNSIGN|; : TRIGGER: \\$ 

LOGIC:LINBUS:IDOR:IDDATA1:ID:

PATTERN "XXXXXX";:TRIGGER:LOGIC:

LINBUS:IDOR:IDDATA1:MODE 0;:TRIGGER:

LOGIC:LINBUS:IDOR:IDDATA2:DATA:

BORDER BIG; CONDITION DONTCARE;

DATA1 0.000000E+00;

DATA2 255.00000E+00; MSBLSB 7, 0.....

# :TRIGger:LOGic:LINBus:BLENgth

Function Sets the logic LIN bus signal trigger Break length or queries the current setting.

Syntax :TRIGger:LOGic:LINBus:BLENgth {<NRf>}

:TRIGger:LOGic:LINBus:BLENgth?

<NRf> = 10 to 13

Example :TRIGGER:LOGIC:LINBUS:BLENGTH 10

:TRIGGER:LOGIC:LINBUS:BLENGTH? ->

:TRIGGER:LOGIC:LINBUS:BLENGTH 10

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#### :TRIGger:LOGic:LINBus:BRATe

Sets the bit rate (data transfer rate) of the logic LIN

bus signal trigger or queries the current setting.

Syntax :TRIGger:LOGic:LINBus:BRATe {<NRf>|

USER, <NRf>}

:TRIGger:LOGic:LINBus:BRATe? <NRf>=1200,2400,4800,9600,19200

<NRf> for USER = See the main unit user's manual.

Example :TRIGGER:LOGIC:LINBUS:BRATE 19200

·TRIGGER · LOGIC · LINBIIS · BRATE?

-> :TRIGGER:LOGIC:LINBUS:BRATE 19200

#### :TRIGger:LOGic:LINBus:ERRor?

Queries all settings related to the logic LIN bus signal Function

triager error.

Syntax :TRIGger:LOGic:LINBus:ERRor? Example :TRIGGER:LOGIC:LINBUS:ERROR? ->

> :TRIGGER:LOGIC:LINBUS:ERROR:CHECKSUM 1; DSIZE 1; FRAMING 1; PARITY 1; SYNCH 1; TOUT 1

#### :TRIGger:LOGic:LINBus:ERRor:CHECksum

Function Sets the logic LIN bus signal trigger Checksum error

or queries the current setting.

Syntax :TRIGger:LOGic:LINBus:ERRor:

CHECksum {<Boolean>}

:TRIGger:LOGic:LINBus:ERRor:CHECksum?

Example :TRIGGER:LOGIC:LINBUS:ERROR:CHECKSUM ON

:TRIGGER:LOGIC:LINBUS:ERROR:CHECKSUM?

-> :TRIGGER:LOGIC:LINBUS:ERROR:

CHECKSUM 1

# :TRIGger:LOGic:LINBus:ERRor:DSIZe

Function Sets the number of error data bytes for the logic LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:LOGic:LINBus:ERRor:

DSIZe {<NRf>}

:TRIGger:LOGic:LINBus:ERRor:DSIZe?

< NRf > = 1 to 8

Example :TRIGGER:LOGIC:LINBUS:ERROR:DSIZE 1

:TRIGGER:LOGIC:LINBUS:ERROR:DSIZE? -> :TRIGGER:LOGIC:LINBUS:ERROR:DSIZE 1

# :TRIGger:LOGic:LINBus:ERRor:FRAMing

Sets the logic LIN bus signal trigger Framing error or Function

queries the current setting.

:TRIGger:LOGic:LINBus:ERRor: Syntax

FRAMing {<Boolean>}

:TRIGger:LOGic:LINBus:ERRor:FRAMing?

Example :TRIGGER:LOGIC:LINBUS:ERROR:FRAMING ON

:TRIGGER:LOGIC:LINBUS:ERROR:FRAMING? ->

:TRIGGER:LOGIC:LINBUS:ERROR:FRAMING 1

#### :TRIGger:LOGic:LINBus:ERRor:PARity

Function Sets the logic LIN bus signal trigger Parity error or

queries the current setting.

Syntax :TRIGger:LOGic:LINBus:ERRor:

PARity {<Boolean>}

:TRIGger:LOGic:LINBus:ERRor:PARity? :TRIGGER:LOGIC:LINBUS:ERROR:PARITY ON Example

> :TRIGGER:LOGIC:LINBUS:ERROR:PARITY? -> :TRIGGER:LOGIC:LINBUS:ERROR:PARITY 1

#### :TRIGger:LOGic:LINBus:ERRor:SYNCh

Function Sets the logic LIN bus signal trigger Synch error or

queries the current setting.

:TRIGger:LOGic:LINBus:ERRor: Syntax

SYNCh {<Boolean>}

:TRIGger:LOGic:LINBus:ERRor:SYNCh? Example :TRIGGER:LOGIC:LINBUS:ERROR:SYNCH ON

> :TRIGGER:LOGIC:LINBUS:ERROR:SYNCH? -> :TRIGGER:LOGIC:LINBUS:ERROR:SYNCH 1

#### :TRIGger:LOGic:LINBus:ERRor:TOUT

Function Sets the logic LIN bus signal trigger Timeout error or

queries the current setting.

:TRIGger:LOGic:LINBus:ERRor: Syntax

TOUT {<Boolean>}

:TRIGger:LOGic:LINBus:ERRor:TOUT?

:TRIGGER:LOGIC:LINBUS:ERROR:TOUT ON Example :TRIGGER:LOGIC:LINBUS:ERROR:TOUT? ->

:TRIGGER:LOGIC:LINBUS:ERROR:TOUT 1

## :TRIGger:LOGic:LINBus:IDData?

Function Queries all settings related to the IDData of the logic LIN bus signal trigger.

:TRIGger:LOGic:LINBus:IDData? Syntax Example :TRIGGER:LOGIC:LINBUS:IDDATA? ->

> :TRIGGER:LOGIC:LINBUS:IDDATA:DATA: BORDER BIG; CONDITION DONTCARE;

DATA1 0.0000000E+00; DATA2 255.00000E+00;

DSIZE 8; MSBLSB 7, 0;

SIGN UNSIGN;:TRIGGER:LOGIC:LINBUS:

IDDATA: ID: PATTERN "XXXXXX"

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# :TRIGger:LOGic:LINBus:IDData:DATA?

Function Queries all settings related to the Data Field of the logic LIN bus signal trigger.

DATA1 0.0000000E+00;

DATA2 255.00000E+00; DSIZE 8;

XXXXXXX";SIGN UNSIGN

# :TRIGger:LOGic:LINBus:IDData:DATA:

#### BORDer

Function Sets the data byte order of the logic LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:LOGic:LINBus:IDData:DATA:

BORDer {BIG|LITTle}

:TRIGger:LOGic:LINBus:IDData:DATA:

BORDer?

Example :TRIGGER:LOGIC:LINBUS:IDDATA:DATA:

BORDER BIG

:TRIGGER:LOGIC:LINBUS:IDDATA:DATA:
BORDER? -> :TRIGGER:LOGIC:LINBUS:

IDDATA:DATA:BORDER BIG

# :TRIGger:LOGic:LINBus:IDData:DATA: CONDition

Function Sets the data conditions of the Data Field of the logic LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:LOGic:LINBus:IDData:DATA:
CONDition {BETWeen|DONTcare|FALSe|

GTHan | LTHan | ORANge | TRUE }

:TRIGger:LOGic:LINBus:IDData:DATA:

CONDition?

Example :TRIGGER:LOGIC:LINBUS:IDDATA:DATA:

CONDITION BETWEEN

:TRIGGER:LOGIC:LINBUS:IDDATA:DATA: CONDITION? -> :TRIGGER:LOGIC:LINBUS: IDDATA:DATA:CONDITION BETWEEN

# :TRIGger:LOGic:LINBus:IDData:DATA: DATA<x>

Function Sets the comparison data of the logic LIN bus signal trigger data or queries the current setting

Syntax :TRIGger:LOGic:LINBus:IDData:DATA:

DATA<x> {<NRf>}

:TRIGger:LOGic:LINBus:IDData:DATA:

DATA<x>? <x> = 1, 2

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:LOGIC:LINBUS:IDDATA:DATA:

DATA1 1

:TRIGGER:LOGIC:LINBUS:IDDATA:DATA:
DATA1? -> :TRIGGER:LOGIC:LINBUS:IDDATA:

DATA:DATA1 1.000000E+00

Description • For :TRIGger:LOGic:LINBus:IDData:DATA:
CONDition GTHan, set using: TRIGger:LOGic:
LINBus:IDData:DATA:DATA1.

 For :TRIGger:LOGic:LINBus:IDData:DATA: CONDition LTHan, set using: TRIGger:LOGic: LINBus:IDData:DATA:DATA2.

For :TRIGger:LOGic:LINBus:IDData:DATA:
 CONDition BETWeen|ORANge, set small values
 with: TRIGger:LOGic:LINBus:IDData:DATA:DATA1,
 and large values with: TRIGger:LOGic:LINBus:
 IDData:DATA:DATA2.

# :TRIGger:LOGic:LINBus:IDData:DATA: DSIZe

Function Sets the number of bytes of data in the Data Field of the logic LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:LOGic:LINBus:IDData:DATA:

 $\texttt{DSIZe} \ \big\{ < \texttt{NRf} > \big\}$ 

:TRIGger:LOGic:LINBus:IDData:DATA:

DSIZe?

<NRf> = 1 to 8

Example :TRIGGER:LOGIC:LINBUS:IDDATA:DATA:

DSIZE 1

:TRIGGER:LOGIC:LINBUS:IDDATA:DATA:
DSIZE? -> :TRIGGER:LOGIC:LINBUS:IDDATA:

DATA:DSIZE 1

# :TRIGger:LOGic:LINBus:IDData:DATA:HEXA

Function Sets the data in the Data Field of the logic LIN bus signal trigger in hexadecimal.

Syntax :TRIGger:LOGic:LINBus:IDData:DATA:

HEXA {<string>}

<string> = Up to 16 characters by combining '0' to 'F'

and 'X,' units of 1 byte

Example :TRIGGER:LOGIC:LINBUS:IDDATA:DATA:

HEXA "A9"

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# :TRIGger:LOGic:LINBus:IDData:DATA: MSBLsb

Function Sets the MSB/LSB bit of the logic LIN bus signal

trigger or queries the current setting

Syntax :TRIGger:LOGic:LINBus:IDData:DATA:

MSBLsb {<NRf>, <NRf>}

:TRIGger:LOGic:LINBus:IDData:DATA:

MSBLsb?

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:LOGIC:LINBUS:IDDATA:DATA:

MSBLSB 1, 0

:TRIGGER:LOGIC:LINBUS:IDDATA:DATA:
MSBLSB? -> :TRIGGER:LOGIC:LINBUS:

IDDATA:DATA:MSBLSB 1, 0

# :TRIGger:LOGic:LINBus:IDData:DATA:

Function Sets the data of the Data Field of the logic LIN bus

signal trigger in binary or queries the current setting.

Syntax :TRIGger:LOGic:LINBus:IDData:DATA:

PATTern {<string>}

:TRIGger:LOGic:LINBus:IDData:DATA:

PATTern?

<string> = up to 64 characters by combining '0,' '1,'

and 'X,' units of 1 byte

Example :TRIGGER:LOGIC:LINBUS:IDDATA:DATA:

PATTERN "11011111"

:TRIGGER:LOGIC:LINBUS:IDDATA:DATA: PATTERN? -> :TRIGGER:LOGIC:LINBUS: IDDATA:DATA:PATTERN "11011111"

# :TRIGger:LOGic:LINBus:IDData:DATA:SIGN

Function Sets the data sign of the logic LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:LOGic:LINBus:IDData:DATA:

SIGN {SIGN|UNSign}

:TRIGger:LOGic:LINBus:IDData:DATA:SIGN?

Example :TRIGGER:LOGIC:LINBUS:IDDATA:DATA:

SIGN SIGN

:TRIGGER:LOGIC:LINBUS:IDDATA:DATA:SIGN?
-> :TRIGGER:LOGIC:LINBUS:IDDATA:DATA:

SIGN SIGN

# :TRIGger:LOGic:LINBus:IDData:ID?

Function Queries all settings related to the ID of the logic LIN bus signal trigger.

Syntax :TRIGger:LOGic:LINBus:IDData:ID?
Example :TRIGGER:LOGIC:LINBUS:IDDATA:ID? ->

:TRIGGER:LOGIC:LINBUS:IDDATA:ID:

PATTERN "101010"

## :TRIGger:LOGic:LINBus:IDData:ID:HEXA

Function Sets the logic LIN bus signal trigger ID in

hexadecimal.

Syntax :TRIGger:LOGic:LINBus:IDData:ID:

HEXA {<string>}

<string> =2 characters by combining  $^{\prime}0^{\prime}$ 

to 'F,' and 'X,'

Example :TRIGGER:LOGIC:LINBUS:IDDATA:ID:

HEXA "2A"

#### :TRIGger:LOGic:LINBus:IDData:ID:

#### **PATTern**

Function Sets the logic LIN bus signal trigger ID in binary or queries the current setting.

quenes the current setting.

Syntax :TRIGger:LOGic:LINBus:IDData:ID:

PATTern {<string>}

:TRIGger:LOGic:LINBus:IDData:ID:

PATTern?

<string> = 6 characters by combining'0','1'

and 'X,'

Example :TRIGGER:LOGIC:LINBUS:IDDATA:ID:

PATTERN "101111"

:TRIGGER:LOGIC:LINBUS:IDDATA:ID:
PATTERN? -> :TRIGGER:LOGIC:LINBUS:

IDDATA: ID: PATTERN "101111"

# :TRIGger:LOGic:LINBus:IDOR?

Function Queries all settings related to the OR condition of the logic LIN bus signal trigger.

Syntax :TRIGger:LOGic:LINBus:IDOR?
Example :TRIGGER:LOGIC:LINBUS:IDOR? ->

:TRIGGER:LOGIC:LINBUS:IDOR:DSIZE 8;
IDDATA1:DATA:BORDER BIG:

CONDITION DONTCARE; DATA1 0.000000E+00;

DATA2 255.00000E+00; MSBLSB 7, 0;

SIGN UNSIGN;:TRIGGER:LOGIC:LINBUS:IDOR:

IDDATA1:ID:PATTERN "XXXXXX";:TRIGGER:

LOGIC:LINBUS:IDOR:IDDATA1:MODE 0;:

TRIGGER:LOGIC:LINBUS:IDOR:IDDATA2:DATA:

BORDER BIG; CONDITION DONTCARE;

XXXXXXX"; SIGN UNSIGN; :TRIGGER:LOGIC:

LINBUS: IDOR: IDDATA2: ID:

PATTERN "XXXXXX";:TRIGGER:LOGIC:LINBUS:

IDOR:IDDATA2:MODE 0....

#### :TRIGger:LOGic:LINBus:IDOR:DSIZe

Function Sets the number of bytes of data in the Data Field of the OR condition of the logic LIN bus signal trigger or

queries the current setting.

Syntax :TRIGger:LOGic:LINBus:IDOR:

DSIZe {<NRf>}

:TRIGger:LOGic:LINBus:IDOR:DSIZe?

<NRf> = 1 to 8

Example :TRIGGER:LOGIC:LINBUS:IDOR:DSIZE 1

:TRIGGER:LOGIC:LINBUS:IDOR:DSIZE? ->
:TRIGGER:LOGIC:LINBUS:IDOR:DSIZE 1

# :TRIGger:LOGic:LINBus:IDOR:IDData<x>?

Function Queries all settings related to each IDData of the OR condition of the logic LIN bus signal trigger.

Syntax :TRIGger:LOGic:LINBus:IDOR:IDData<x>?

< x > = 1 to 4

Example :TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1?

-> :TRIGGER:LOGIC:LINBUS:IDOR:

IDDATA1:DATA:BORDER BIG;

CONDITION DONTCARE; DATA1 0.0000000E+00;

DATA2 255.00000E+00; MSBLSB 7, 0;

SIGN UNSIGN;:TRIGGER:LOGIC:LINBUS:IDOR:

IDDATA1:ID:PATTERN "XXXXXX";:TRIGGER:

LOGIC:LINBUS:IDOR:IDDATA1:MODE 0

# :TRIGger:LOGic:LINBus:IDOR:IDData<x>: DATA?

Function Queries all settings related to each Data Field of the OR condition of the logic LIN bus signal trigger.

Syntax :TRIGger:LOGic:LINBus:IDOR:IDData<x>:

DATA?

< x > = 1 to 4

Example :TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:

DATA? -> :TRIGGER:LOGIC:LINBUS:IDOR:

IDDATA1:DATA:CONDITION BETWEEN;

PATTERN "10101001"

# :TRIGger:LOGic:LINBus:IDOR:IDData<x>: DATA:BORDer

Function Sets the byte order of each data of the OR conditions of the logic LIN bus signal trigger or queries the

current setting.

Syntax :TRIGger:LOGic:LINBus:IDOR:IDData<x>:

DATA:BORDer {BIG|LITTle}

:TRIGger:LOGic:LINBus:IDOR:IDData<x>:

DATA:BORDer?

< x > = 1 to 4

Example :TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:

DATA:BORDER BIG

:TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:
DATA:BORDER? -> :TRIGGER:LOGIC:LINBUS:

IDOR:IDDATA1:DATA:BORDER BIG

# :TRIGger:LOGic:LINBus:IDOR:IDData<x>: DATA:CONDition

Function Sets the data condition of the Data Field of each OR condition of the logic LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:LOGic:LINBus:IDOR:IDData<x>:

DATA:CONDition {BETWeen|DONTcare|FALSe|

GTHan | LTHan | ORANge | TRUE }

:TRIGger:LOGic:LINBus:IDOR:IDData<x>:

DATA: CONDition?

< x > = 1 to 4

Example :TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:

DATA: CONDITION BETWEEN

:TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:
DATA:CONDITION? -> :TRIGGER:LOGIC:
LINBUS:IDOR:IDDATA1:DATA:CONDITION

BETWEEN

# :TRIGger:LOGic:LINBus:IDOR:IDData<x>: DATA:DATA<x>

Function Sets the comparison data of each data of the OR conditions of the logic LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:LOGic:LINBus:IDOR:IDData<x>:

DATA:DATA<x> {<NRf>}

:TRIGger:LOGic:LINBus:IDOR:IDData<x>:

DATA:DATA<x>?

<x> of IDData<x> = 1 to 4

<x> of DATA<x> = 1, 2

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:

DATA:DATA1 1

:TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:

DATA:DATA1? -> :TRIGGER:LOGIC:LINBUS:

IDOR:IDDATA1:DATA:DATA1 1.0000000E+00

- For :TRIGger:LOGic:LINBus:IDOR:IDData<x>: DATA:CONDition LTHan, set using: TRIGger: LOGic:LINBus:IDOR:IDData<x>:DATA:DATA2.
- For :TRIGger:LOGic:LINBus:IDOR:IDData<x>:
   DATA:CONDition BETWeen|ORANge, set small
   values with: TRIGger:LOGic:LINBus:IDOR:
   IDData<x>:DATA:DATA1, and large values with:
   TRIGger:LOGic:LINBus:IDOR:IDData<x>:DATA:
   DATA2.

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# :TRIGger:LOGic:LINBus:IDOR:IDData<x>: DATA:HEXA

Function Sets the data in each Data Field of the OR condition

of the logic LIN bus signal trigger in hexadecimal.

Syntax :TRIGger:LOGic:LINBus:IDOR:IDData<x>:

DATA:HEXA {<string>}

< x > = 1 to 4

<string> =Up to 16 characters by combining '0' to 'F'

and 'X,' units of 1 byte

Example :TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:

DATA:HEXA "A9"

# :TRIGger:LOGic:LINBus:IDOR:IDData<x>: DATA:MSBLsb

Function Sets the MSB/LSB bit of each data of the OR

condition of the logic LIN bus signal trigger or queries

the current setting.

Syntax :TRIGger:LOGic:LINBus:IDOR:IDData<x>:

DATA: MSBLsb { < NRf > , < NRf > }

:TRIGger:LOGic:LINBus:IDOR:IDData<x>:

DATA:MSBLsb? < x > = 1 to 4

<NRf> = See the SB5000 User's Manual

Example :TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:

DATA: MSBLSB 1, 0

:TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:
DATA:MSBLSB? -> :TRIGGER:LOGIC:LINBUS:

IDOR:IDDATA1:DATA:MSBLSB 1, 0

# :TRIGger:LOGic:LINBus:IDOR:IDData<x>: DATA:PATTern

Function Sets the data of each Data Field of the OR conditions

of the logic LIN bus signal trigger or queries the

current setting.

Syntax :TRIGger:LOGic:LINBus:IDOR:IDData<x>:

DATA:PATTern {<string>}

:TRIGger:LOGic:LINBus:IDOR:IDData<x>:

DATA:PATTern?

< x > = 1 to 4

<string> = up to 64 characters by combining '0,' '1,'

and 'X,' units of 1 byte

Example :TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:

DATA: PATTERN "11011111"

:TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:
DATA:PATTERN? -> :TRIGGER:LOGIC:LINBUS:
IDOR:IDDATA1:DATA:PATTERN "11011111"

# :TRIGger:LOGic:LINBus:IDOR:IDData<x>: DATA:SIGN

Function Sets the sign of each data of the OR conditions of the logic LIN bus signal trigger or queries the current

setting.

Syntax :TRIGger:LOGic:LINBus:IDOR:IDData<x>:

DATA:SIGN {SIGN|UNSign}

:TRIGger:LOGic:LINBus:IDOR:IDData<x>:

DATA: SIGN? < x > = 1 to 4

Example :TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:

DATA:SIGN SIGN

:TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:
DATA:SIGN? -> :TRIGGER:LOGIC:LINBUS:

IDOR:IDDATA1:DATA:SIGN SIGN

# :TRIGger:LOGic:LINBus:IDOR:IDData<x>: ID?

Function Queries all settings related to each ID of the OR condition of the logic LIN bus signal trigger.

Syntax :TRIGger:LOGic:LINBus:IDOR:IDData<x>:

ID?

< x > = 1 to 4

Example :TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:ID?

-> :TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:

ID:PATTERN "101010"

# :TRIGger:LOGic:LINBus:IDOR:IDData<x>: ID:HEXA

Function Sets each ID of the OR conditions of the logic LIN

bus signal trigger in hexadecimal.

Syntax :TRIGger:LOGic:LINBus:IDOR:IDData<x>:

ID:HEXA {<string>}

< x > = 1 to 4

<string> = 2 characters by combining '0' to 'F,' and 'X'

Example :TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:ID:

HEXA "2A"

# :TRIGger:LOGic:LINBus:IDOR:IDData<x>: ID:PATTern

Function Sets each ID of the OR conditions of the logic LIN bus signal trigger binary or queries the current setting.

Syntax :TRIGger:LOGic:LINBus:IDOR:IDData<x>:

ID:PATTern {<string>}

:TRIGger:LOGic:LINBus:IDOR:IDData<x>:

ID:PATTern?

< x > = 1 to 4

<string> = 6 characters by combining '0,' '1,' and 'X'

Example :TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:ID:

PATTERN "101111"

:TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:ID:
PATTERN? -> :TRIGGER:LOGIC:LINBUS:IDOR:

IDDATA1:ID:PATTERN "101111"

# :TRIGger:LOGic:LINBus:IDOR:IDData<x>: MODE

Function Enables (1) or disables (0) each condition for each

> OR condition of the logic LIN bus signal trigger or queries the current setting.

:TRIGger:LOGic:LINBus:IDOR:IDData<x>: Syntax

MODE {<Boolean>}

:TRIGger:LOGic:LINBus:IDOR:IDData<x>:

MODE?

< x > = 1 to 4

Example :TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1:

MODE ON

:TRIGGER:LOGIC:LINBUS:IDOR:IDDATA1: MODE? -> :TRIGGER:LOGIC:LINBUS:IDOR:

IDDATA1:MODE 1

#### :TRIGger:LOGic:LINBus:MODE

Function Sets the logic LIN bus signal trigger mode or queries

the current setting.

:TRIGger:LOGic:LINBus: Syntax

> MODE {BSYNch|ERRor|IDData|IDOR} :TRIGger:LOGic:LINBus:MODE?

Example :TRIGGER:LOGIC:LINBUS:MODE BSYNCH

:TRIGGER:LOGIC:LINBUS:MODE? -> :TRIGGER:LOGIC:LINBUS:MODE BSYNCH

#### :TRIGger:LOGic:LINBus:REVision

Function Sets the logic LIN bus signal trigger revision (1.3 or

2.0) or queries the current setting.

:TRIGger:LOGic:LINBus: Syntax

REVision {LIN1\_3 | LIN2\_0 }

:TRIGger:LOGic:LINBus:REVision? Example :TRIGGER:LOGIC:LINBUS:REVISION LIN1 3

:TRIGGER:LOGIC:LINBUS:REVISION? -> :TRIGGER:LOGIC:LINBUS:REVISION LIN1\_3

# :TRIGger:LOGic:LINBus:SOURce

Function Sets the trigger source of the logic LIN bus signal

trigger or queries the current setting.

:TRIGger:LOGic:LINBus:SOURce {A<x>} Syntax

:TRIGger:LOGic:LINBus:SOURce?

< x > = 0 to 7

Example :TRIGGER:LOGIC:LINBUS:SOURCE A0

:TRIGGER:LOGIC:LINBUS:SOURCE?

-> :TRIGGER:LOGIC:LINBUS:SOURCE A0

#### :TRIGger:LOGic:LINBus:SPOint

Function Sets the logic LIN bus signal trigger sample point or

queries the current setting.

:TRIGger:LOGic:LINBus:SPOint {<NRf>} Syntax

:TRIGger:LOGic:LINBus:SPOint?

<NRf> = 18.8 to 90.6(%)

Example :TRIGGER:LOGIC:LINBUS:SPOINT 18.8

:TRIGGER:LOGIC:LINBUS:SPOINT? -> :TRIGGER:LOGIC:LINBUS:SPOINT 18.8E+00

# :TRIGger:LOGic:SPATtern? (Serial

#### Pattern)

Function Queries all settings related to logic serial pattern

trigger.

:TRIGger:LOGic:SPATtern? Syntax Example :TRIGGER:LOGIC:SPATTERN?

-> :TRIGGER:LOGIC:SPATTERN:

BITRATE 1.0000000E+03; CLOCK: MODE 1; POLARITY FALL; SOURCE A0; :TRIGGER: LOGIC:SPATTERN:CS 1; DATA:ACTIVE HIGH; SOURCE A0;:TRIGGER:LOGIC:SPATTERN:

LATCH: SOURCE A0; POLARITY FALL;:

TRIGGER:LOGIC:SPATTERN: PATTERN "1100110111101111"

#### :TRIGger:LOGic:SPATtern:BITRate

Function Sets the bit rate for the logic serial pattern trigger or

queries the current setting.

:TRIGger:LOGic:SPATtern:BITRate {<NRf>} Syntax

:TRIGger:LOGic:SPATtern:BITRate?

<NRf> = 1 to 50M(bps)

Example :TRIGGER:LOGIC:SPATTERN:BITRATE 1

:TRIGGER:LOGIC:SPATTERN:BITRATE?

-> :TRIGGER:LOGIC:SPATTERN:

BITRATE 1.000E+00

Description This command valid when :TRIGger:LOGic:

SPATtern:CLOCk:MODE OFF.

#### :TRIGger:LOGic:SPATtern:CLEar

Clears (set to don't care) all patterns of the logic

serial pattern trigger.

Syntax :TRIGger:LOGic:SPATtern:CLEar Example :TRIGGER:LOGIC:SPATTERN:CLEAR

## :TRIGger:LOGic:SPATtern:CLOCk?

Function Queries all settings related to the clock for the logic

serial pattern trigger.

:TRIGger:LOGic:SPATtern:CLOCk? Syntax Example :TRIGGER:LOGIC:SPATTERN:CLOCK?

> -> :TRIGGER:LOGIC:SPATTERN:CLOCK: MODE 1; POLARITY FALL; SOURCE A0

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#### :TRIGger:LOGic:SPATtern:CLOCk:MODE

Function Enables/disables the clock for the logic serial analysis pattern trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPATtern:CLOCk:

MODE {<Boolean>}

:TRIGger:LOGic:SPATtern:CLOCk:MODE?

Example :TRIGGER:LOGIC:SPATTERN:CLOCK:MODE ON
 :TRIGGER:LOGIC:SPATTERN:CLOCK:MODE?

-> :TRIGGER:LOGIC:SPATTERN:CLOCK:MODE 1

#### :TRIGger:LOGic:SPATtern:CLOCk:POLarity

Function Sets the polarity of the clock trace of the logic serial pattern trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPATtern:CLOCk:

POLarity {FALL|RISE}

:TRIGger:LOGic:SPATtern:CLOCk:POLarity?

Example :TRIGGER:LOGIC:SPATTERN:CLOCK:

POLARITY FALL

:TRIGGER:LOGIC:SPATTERN:CLOCK:POLARITY?

-> :TRIGGER:LOGIC:SPATTERN:CLOCK:

POLARITY FALL

Description This command valid when :TRIGger:LOGic: SPATtern:CLOCk:MODE ON.

#### :TRIGger:LOGic:SPATtern:CLOCk:SOURce

Function Sets the clock trace for the logic serial pattern trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPATtern:CLOCk:

SOURce  $\{A < x > \}$ 

:TRIGger:LOGic:SPATtern:CLOCk:SOURce?

< x > = 0 to 7

Example :TRIGGER:LOGIC:SPATTERN:CLOCK:SOURCE A0

:TRIGGER:LOGIC:SPATTERN:CLOCK:SOURCE?

-> :TRIGGER:LOGIC:SPATTERN:CLOCK:

SOURCE A0

Description • This command valid when :TRIGger:LOGic: SPATtern:CLOCk:MODE ON.

#### :TRIGger:LOGic:SPATtern:CS

Function Enables/disables the chip select for the logic serial analysis pattern trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPATtern:CS {<Boolean>}

:TRIGger:LOGic:SPATtern:CS?

Example :TRIGGER:LOGIC:SPATTERN:CS ON
 :TRIGGER:LOGIC:SPATTERN:CS?

-> :TRIGGER:LOGIC:SPATTERN:CS 1

Description This command valid when :TRIGger:LOGic:

Description This command valid when :TRIGger:LOGic: SPATtern:CLOCk:MODE ON.

#### :TRIGger:LOGic:SPATtern:DATA?

Function Queries all settings related to the data for the logic serial pattern trigger.

ACTIVE HIGH; SOURCE A0

#### :TRIGger:LOGic:SPATtern:DATA:ACTive

Function Sets the active level of the data for the logic serial pattern trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPATtern:DATA:

ACTive {HIGH|LOW}

:TRIGger:LOGic:SPATtern:DATA:ACTive?

Example :TRIGGER:LOGIC:SPATTERN:DATA:

ACTIVE HIGH

:TRIGGER:LOGIC:SPATTERN:DATA:ACTIVE?
-> :TRIGGER:LOGIC:SPATTERN:DATA:

ACTIVE HIGH

# :TRIGger:LOGic:SPATtern:DATA:SOURce

Function Sets the data rate for the logic serial pattern trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPATtern:DATA:

SOURce {A<x>}

:TRIGger:LOGic:SPATtern:DATA:SOURce?

< x > = 0 to 7

Example :TRIGGER:LOGIC:SPATTERN:DATA:SOURCE A0 :TRIGGER:LOGIC:SPATTERN:DATA:SOURCE?

-> :TRIGGER:LOGIC:SPATTERN:DATA:

SOURCE A0

# :TRIGger:LOGic:SPATtern:HEXA

Function Sets the pattern of the logic serial pattern trigger in hexadecimal notation.

and X)

Example :TRIGGER:LOGIC:SPATTERN:HEXA "ABCD"

# :TRIGger:LOGic:SPATtern:LATCh?

Function Queries all settings related to the latch for the logic serial pattern trigger.

SOURCE A0; POLARITY FALL

## :TRIGger:LOGic:SPATtern:LATCh:POLarity

Function Sets the polarity of the latch trace of the logic serial pattern trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPATtern:LATCh:

POLarity {FALL | RISE}

:TRIGger:LOGic:SPATtern:LATCh:

POLarity?

Example :TRIGGER:LOGIC:SPATTERN:LATCH:

POLARITY FALL

:TRIGGER:LOGIC:SPATTERN:LATCH:

POLARITY?

-> :TRIGGER:LOGIC:SPATTERN:LATCH:

POLARITY FALL

Description • This command valid when :TRIGger:LOGic: SPATtern:CLOCk:MODE ON.

 This command is invalid when :TRIGger:LOGic: SPATtern:LATCh:SOURce DONTcare

# :TRIGger:LOGic:SPATtern:LATCh:SOURce

Function Sets the latch trace for the logic serial pattern trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPATtern:LATCh:

SOURce {A<x>|DONTcare}

:TRIGger:LOGic:SPATtern:LATCh:SOURce?

< x > = 0 to 7

Example :TRIGGER:LOGIC:SPATTERN:LATCH:SOURCE A0

:TRIGGER:LOGIC:SPATTERN:LATCH:SOURCE?

-> :TRIGGER:LOGIC:SPATTERN:LATCH:

SOURCE A0

 ${\bf Description \bullet \ \ This\ command\ valid\ when\ :} {\bf TRIGger:LOGic:}$ 

SPATtern:CLOCk:MODE ON.

# :TRIGger:LOGic:SPATtern:PATTern

Function Sets the pattern of the logic serial pattern trigger in

binary notation, or queries the current setting.

Syntax :TRIGger:LOGic:SPATtern:

PATTern {<string>}

:TRIGger:LOGic:SPATtern:PATTern?

<string> = combination of up to 128 characters (0, 1,

and X)

Example :TRIGGER:LOGIC:SPATTERN:

PATTERN "1100110111101111"

:TRIGGER:LOGIC:SPATTERN:PATTERN?

-> :TRIGGER:LOGIC:SPATTERN: PATTERN "1100110111101111"

#### :TRIGger:LOGic:SPIBus?

Function Queries all settings related to the logic SPI bus

trigger.

Syntax :TRIGger:LOGic:SPIBus?
Example :TRIGGER:LOGIC:SPIBUS?

-> :TRIGGER:LOGIC:SPIBUS:

BITORDER LSBFIRST; CLOCK: POLARITY FALL;

SOURCE A0;:TRIGGER:LOGIC:SPIBUS:CS:
ACTIVE HIGH;SOURCE A0;:TRIGGER:LOGIC:

SPIBUS:DATA1:BYTE 1;CONDITION FALSE;

DPOSITION 1; PATTERN1 "10101011";

PATTERN2 "XXXXXXXX";

PATTERN3 "XXXXXXXX";

PATTERN4 "XXXXXXXX"; SOURCE A0;:

TRIGGER:LOGIC:SPIBUS:DATA2:BYTE 1;

CONDITION TRUE; DPOSITION 0;

PATTERN1 "XXXXXXXX";

PATTERN2 "XXXXXXXX";

PATTERN3 "XXXXXXXX";

PATTERN4 "XXXXXXXX"; SOURCE A2;:

TRIGGER:LOGIC:SPIBUS:MODE WIRE3

#### :TRIGger:LOGic:SPIBus:BITorder

Function Sets the bit order for the logic SPI bus trigger or

queries the current setting.

Syntax :TRIGger:LOGic:SPIBus:

BITorder {LSBFirst|MSBFirst}

:TRIGger:LOGic:SPIBus:BITorder?

Example :TRIGGER:LOGIC:SPIBUS:BITORDER LSBFIRST
 :TRIGGER:LOGIC:SPIBUS:BITORDER?

-> :TRIGGER:LOGIC:SPIBUS:

BITORDER LSBFIRST

## :TRIGger:LOGic:SPIBus:CLOCk?

Function Queries all settings related to the clock of the logic

SPI bus trigger.

Syntax :TRIGger:LOGic:SPIBus:CLOCk?

Example :TRIGGER:LOGIC:SPIBUS:CLOCK?

-> :TRIGGER:LOGIC:SPIBUS:CLOCK:

POLARITY FALL; SOURCE A0

# :TRIGger:LOGic:SPIBus:CLOCk:POLarity

Function Sets the polarity of the clock trace for the logic SPI

bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPIBus:CLOCk:

POLarity {FALL | RISE}

:TRIGger:LOGic:SPIBus:CLOCk:POLarity?

Example :TRIGGER:LOGIC:SPIBUS:CLOCK:

POLARITY FALL

:TRIGGER:LOGIC:SPIBUS:CLOCK:POLARITY?

-> :TRIGGER:LOGIC:SPIBUS:CLOCK:

POLARITY FALL

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#### :TRIGger:LOGic:SPIBus:CLOCk:SOURce

Function Sets the clock trace for the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPIBus:CLOCk:

SOURce {A<x>}

:TRIGger:LOGic:SPIBus:CLOCk:SOURce?

< x > = 0 to 7

Example :TRIGGER:LOGIC:SPIBUS:CLOCK:SOURCE A0

:TRIGGER:LOGIC:SPIBUS:CLOCK:SOURCE?

-> :TRIGGER:LOGIC:SPIBUS:CLOCK:

SOURCE A0

#### :TRIGger:LOGic:SPIBus:CS?

Function Queries all settings related to the chip select of the

logic SPI bus trigger.

ACTIVE HIGH; SOURCE A0

#### :TRIGger:LOGic:SPIBus:CS:ACTive

Function Sets the active level of the chip select for the logic

SPI bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPIBus:CS:

ACTive {HIGH|LOW}

:TRIGger:LOGic:SPIBus:CS:ACTive?

Example :TRIGGER:LOGIC:SPIBUS:CS:ACTIVE HIGH

:TRIGGER:LOGIC:SPIBUS:CS:ACTIVE?

-> :TRIGGER:LOGIC:SPIBUS:CS:ACTIVE HIGH

## :TRIGger:LOGic:SPIBus:CS:SOURce

Function Sets the chip select trace for the logic SPI bus trigger

or queries the current setting.

 ${\tt Syntax} \quad : {\tt TRIGger:LOGic:SPIBus:CS:SOURce} \ \, \big\{ {\tt A< x>} \big\} \\$ 

:TRIGger:LOGic:SPIBus:CS:SOURce?

< x > = 0 to 7

Example :TRIGGER:LOGIC:SPIBUS:CS:SOURCE A0

:TRIGGER:LOGIC:SPIBUS:CS:SOURCE?

-> :TRIGGER:LOGIC:SPIBUS:CS:SOURCE A0

#### :TRIGger:LOGic:SPIBus:DATA<x>?

Function Queries all settings related to each data of the logic

SPI bus trigger.

Syntax :TRIGger:LOGic:SPIBus:DATA<x>?

< x > = 1 or 2

Example :TRIGGER:LOGIC:SPIBUS:DATA1?

-> :TRIGGER:LOGIC:SPIBUS:DATA1:BYTE 1;

CONDITION FALSE; DPOSITION 1;

PATTERN1 "10101011"; PATTERN2 "XXXXXXXX"; PATTERN3 "XXXXXXXX";

PATTERN4 "XXXXXXXX"; SOURCE A0

#### :TRIGger:LOGic:SPIBus:DATA<x>:BYTE

Function Sets the number of settings for each data of the logic SPI bus trigger or queries the current setting.

Syntax : RIGger:LOGic:SPIBus:DATA<x>:

BYTE {<NRf>}

:TRIGger:LOGic:SPIBus:DATA<x>:BYTE?

< x > = 1 or 2< NRf > = 1 to 4

Example :TRIGGER:LOGIC:SPIBUS:DATA1:BYTE 1

:TRIGGER:LOGIC:SPIBUS:DATA1:BYTE?
-> :TRIGGER:LOGIC:SPIBUS:DATA1:BYTE 1

## :TRIGger:LOGic:SPIBus:DATA<x>:

#### CONDition

Function Sets the determination method for the data of the

logic SPI bus trigger (match / no match) or queries

the current setting.

Syntax :TRIGger:LOGic:SPIBus:DATA<x>:

CONDition {FALSe|TRUE}

:TRIGger:LOGic:SPIBus:DATA<x>:

CONDition?
<x> = 1 or 2

Example :TRIGGER:LOGIC:SPIBUS:DATA1:

CONDITION FALSE

:TRIGGER:LOGIC:SPIBUS:DATA1:CONDITION?

-> :TRIGGER:LOGIC:SPIBUS:DATA1:

CONDITION FALSE

#### :TRIGger:LOGic:SPIBus:DATA<x>:

# **DPOSition**

Function Sets the pattern comparison start position for the

data of the logic SPI bus trigger or queries the current setting

setting.

Syntax :TRIGger:LOGic:SPIBus:DATA<x>:

 ${\tt DPOSition} \ \{{\tt <NRf>}\}$ 

:TRIGger:LOGic:SPIBus:DATA<x>:

DPOSition? <x> = 1 or 2 <NRf> = 0 to 9999

Example :TRIGGER:LOGIC:SPIBUS:DATA1:DPOSITION 1

:TRIGGER:LOGIC:SPIBUS:DATA1:DPOSITION?

-> :TRIGGER:LOGIC:SPIBUS:DATA1:

DPOSITION 1

#### :TRIGger:LOGic:SPIBus:DATA<x>:HEXA<x> :TRIGger:LOGic:STATe? Function Sets the data of the logic SPI bus trigger in Function Queries all settings related to the logic state trigger. hexadecimal notation. Syntax :TRIGger:LOGic:STATe? Syntax :TRIGger:LOGic:SPIBus:DATA<x>: :TRIGGER:LOGIC:STATE? -> :TRIGGER: Example HEXA<x> {<string>} LOGIC:STATE:BIT:A0 DONTCARE; <x> of DATA<x> = 1 or 2 A1 DONTCARE; A2 DONTCARE; A3 DONTCARE; <x> of HEXA<x> = 1 to 4 A4 DONTCARE; A5 DONTCARE; A6 DONTCARE; <string> = Combination of up to 2 characters (0-F and A7 DONTCARE; B0 DONTCARE; B1 DONTCARE; X) B2 DONTCARE; B3 DONTCARE; B4 DONTCARE; Example :TRIGGER:LOGIC:SPIBUS:DATA1:HEXA1 "AB" B5 DONTCARE; B6 DONTCARE; B7 DONTCARE; CO DONTCARE; C1 DONTCARE; C2 DONTCARE; C3 DONTCARE; C4 DONTCARE; C5 DONTCARE; :TRIGger:LOGic:SPIBus:DATA<x>: C6 DONTCARE; C7 DONTCARE; D0 DONTCARE; PATTern<x> D1 DONTCARE; D2 DONTCARE; D3 DONTCARE; Function Sets each data of the logic SPI bus trigger in binary D4 DONTCARE; D5 DONTCARE; D6 DONTCARE; notation or queries the current setting. D7 DONTCARE; LOGIC AND; Syntax :TRIGger:LOGic:SPIBus:DATA<x>: :TRIGGER:LOGIC:STATE:GROUP1: PATTern<x> {<string>} CONDITION DONTCARE; PATTERN "XXXXXXXX"; :TRIGger:LOGic:SPIBus:DATA<x>: :TRIGGER:LOGIC:STATE:GROUP2: PATTern<x>? CONDITION TRUE; PATTERN "XXXXXXXX"; <x> of DATA<x> = 1 or 2 :TRIGGER:LOGIC:STATE:GROUP3: <x> of PATTern<x> = 1 to 4 CONDITION TRUE; PATTERN "XXXXXXXX"; <string> = combination of 8 characters (0, 1, and X). :TRIGGER:LOGIC:STATE:GROUP4: Example :TRIGGER:LOGIC:SPIBUS:DATA1: CONDITION TRUE: PATTERN "XXXXXXXX": PATTERN1 "10101011" :TRIGGER:LOGIC:STATE:GROUP5: :TRIGGER:LOGIC:SPIBUS:DATA1:PATTERN1? CONDITION DONTCARE; PATTERN ""; -> :TRIGGER:LOGIC:SPIBUS:DATA1: :TRIGGER:LOGIC:STATE:TYPE BIT PATTERN1 "10101011" :TRIGger:LOGic:STATe:BIT? :TRIGger:LOGic:SPIBus:DATA<x>:SOURce Function Queries all settings related to the bit of the logic state Function Sets the trace of each data of the logic SPI bus trigger. trigger or queries the current setting. Syntax :TRIGger:LOGic:STATe:BIT? Syntax :TRIGger:LOGic:SPIBus:DATA<x>: Example :TRIGGER:LOGIC:STATE:BIT? -> :TRIGGER: SOURce {A<y>} LOGIC:STATE:BIT:A0 DONTCARE; :TRIGger:LOGic:SPIBus:DATA<x>:SOURce? A1 DONTCARE; A2 DONTCARE; A3 DONTCARE; < x > = 1 or 2A4 DONTCARE; A5 DONTCARE; A6 DONTCARE; <y> = 0 to 7A7 DONTCARE; B0 DONTCARE; B1 DONTCARE; Example :TRIGGER:LOGIC:SPIBUS:DATA1:SOURCE A0 B2 DONTCARE; B3 DONTCARE; B4 DONTCARE; :TRIGGER:LOGIC:SPIBUS:DATA1:SOURCE? B5 DONTCARE; B6 DONTCARE; B7 DONTCARE; -> :TRIGGER:LOGIC:SPIBUS:DATA1: CO DONTCARE; C1 DONTCARE; C2 DONTCARE; SOURCE A0 C3 DONTCARE; C4 DONTCARE; C5 DONTCARE; C6 DONTCARE; C7 DONTCARE; D0 DONTCARE; :TRIGger:LOGic:SPIBus:MODE D1 DONTCARE; D2 DONTCARE; D3 DONTCARE; Function Sets the wiring method (3-wire/4-wire) of the logic D4 DONTCARE; D5 DONTCARE; D6 DONTCARE; SPI bus trigger or queries the current setting. D7 DONTCARE; LOGIC AND Syntax :TRIGger:LOGic:SPIBus:MODE {WIRE3| WIRE4 } :TRIGger:LOGic:SPIBus:MODE? Example :TRIGGER:LOGIC:SPIBUS:MODE WIRE3

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:TRIGGER:LOGIC:SPIBUS:MODE?

-> :TRIGGER:LOGIC:SPIBUS:MODE WIRE3

# :TRIGger:LOGic:STATe:BIT:{A<x>|B<x>| C<x>|D<x>}

Function Sets the condition to be satisfied for the bit of the

logic state trigger or queries the current setting.

:TRIGger:LOGic:STATe:BIT:{A<x>|B<x>|

C < x > |D < x > ?? < x> = 0 to 7

Example :TRIGGER:LOGIC:STATE:BIT:A0 DONTCARE

:TRIGGER:LOGIC:STATE:BIT:A0?

-> :TRIGGER:LOGIC:STATE:BIT:A0 DONTCARE

Description For the SB5310, only {A<x>} are valid.

# :TRIGger:LOGic:STATe:BIT:CLEar

Function Clears the entire condition to be satisfied for the bit of the logic state trigger (set to don't care) or queries the current setting.

Syntax :TRIGger:LOGic:STATe:BIT:CLEar
Example :TRIGGER:LOGIC:STATE:BIT:CLEAR

## :TRIGger:LOGic:STATe:BIT:LOGic

Function Sets the logic of the logic state trigger or queries the

current setting.

Syntax :TRIGger:LOGic:STATe:BIT:LOGic {AND | OR}

:TRIGger:LOGic:STATe:BIT:LOGic?

Example :TRIGGER:LOGIC:STATE:BIT:LOGIC AND

:TRIGGER:LOGIC:STATE:BIT:LOGIC?

-> :TRIGGER:LOGIC:STATE:BIT:LOGIC AND

#### :TRIGger:LOGic:STATe:GROup<x>?

Function Queries all settings related to the group of the logic state trigger.

Syntax :TRIGger:LOGic:STATe:GROup<x>?

< x > = 1 to 5

Example :TRIGGER:LOGIC:STATE:GROUP1?

-> :TRIGGER:LOGIC:STATE:GROUP1:

CONDITION DONTCARE; PATTERN "11110000

111100001111000011110000"

# :TRIGger:LOGic:STATe:GROup<x>:CLEar

Function Clears the entire condition to be satisfied for the group of the logic state trigger (set to don't care) or

queries the current setting.

Syntax :TRIGger:LOGic:STATe:GROup<x>:CLEar

< x > = 1 to 5

Example :TRIGGER:LOGIC:STATE:GROUP1:CLEAR

# :TRIGger:LOGic:STATe:GROup<x>:

#### CONDition

Function Sets the determination condition for the group of the logic state trigger or queries the current setting.

Syntax :TRIGger:LOGic:STATe:GROup<x>:

CONDition {DONTcare|TRUE}
:TRIGger:LOGic:STATe:GROup<x>:

CONDition?

< x > = 1 to 5

Example :TRIGGER:LOGIC:STATE:GROUP1:

CONDITION DONTCARE

:TRIGGER:LOGIC:STATE:GROUP1:

CONDITION? -> :TRIGGER:LOGIC:STATE:

GROUP1: CONDITION DONTCARE

# :TRIGger:LOGic:STATe:GROup<x>:HEXA

Function Sets the condition to be satisfied for the group of the logic state trigger in hexadecimal notation.

Syntax :TRIGger:LOGic:STATe:GROup<x>:

HEXA {<String>}

< x > = 1 to 5

<String> = Up to 8 characters by combining '0' to 'F'

and 'X'

Example :TRIGGER:LOGIC:STATE:GROUP1:

HEXA "1A3F24CD"

Description If the number of bit mappings specified with :LOGic:

GROup<x>:MAPPing is too large, the lower bits are set to X. If the number is too small, the top bits are

set.

## :TRIGger:LOGic:STATe:GROup<x>:PATTern

Function Sets the condition to be satisfied for the group of the logic state trigger in binary notation or queries the current setting.

 $\verb|Syntax| : \verb|TRIGger:LOGic:STATe:GROup<| x>:$ 

PATTern {<String>}

:TRIGger:LOGic:STATe:GROup<x>:PATTern?

< x > = 1 to 5

<String> = Up to 32 characters by combining '0', '1',

and 'X'

Example :TRIGGER:LOGIC:STATE:GROUP1:

PATTERN "111100001111000011110000

11110000"

:TRIGGER:LOGIC:STATE:GROUP1:

PATTERN? -> :TRIGGER:LOGIC:STATE:

GROUP1: PATTERN "11110000111100001111000

011110000"

## :TRIGger:LOGic:STATe:GROup<x>:SYMBol

Function Sets the symbol item for each group of the logic state

trigger.

Syntax :TRIGger:LOGic:STATe:GROup<x>:

SYMBol {<string>}

< x > = 1 to 5

<string> = Up to 16 characters

Example :TRIGGER:LOGIC:STATE:GROUP1:

SYMBOL "TEST"

#### :TRIGger:LOGic:STATe:TYPE

Function Sets the setup type of the logic state trigger or

queries the current setting.

Syntax :TRIGger:LOGic:STATe:TYPE {BIT|GROup}

:TRIGger:LOGic:STATe:TYPE?

Example :TRIGGER:LOGIC:STATE:TYPE BIT

:TRIGGER:LOGIC:STATE:TYPE? -> :TRIGGER:

LOGIC:STATE:TYPE BIT

#### :TRIGger:LOGic:UART?

Function Queries all settings related to the logic UART bus

signal trigger.

Syntax :TRIGger:LOGic:UART?

Example :TRIGGER:LOGIC:UART? -> :TRIGGER:

LOGIC:UART:BRATE 19200;DATA:
BITORDER LSBFIRST;DSIZE 1;
PATTERN "X1011111";:TRIGGER:
LOGIC:UART:ERROR:FRAMING 1;

PARITY 1; PMODE EVEN; :TRIGGER:LOGIC: UART:FORMAT BIT7PARITY; MODE DATA; POLARITY NEGATIVE; SOURCE A0;

SPOINT 18.8E+00

#### :TRIGger:LOGic:UART:BRATe

Function Sets the logic UART bus signal trigger bit rate (data

transfer rate) or queries the current setting.

Syntax :TRIGger:LOGic:UART:

BRATe {<NRf>|USER, <NRf>}
:TRIGger:LOGic:UART:BRATe?

< NRf > = 1200, 2400, 4800, 9600, 19200, 38400,

57600, 115200

<NRf> of USER = See the main SB5000 User's

Manual

Example :TRIGGER:LOGIC:UART:BRATE 19200

:TRIGGER:LOGIC:UART:BRATE? -> :TRIGGER:

LOGIC:UART:BRATE 19200

# :TRIGger:LOGic:UART:DATA?

Function Queries all settings related to data of the logic UART

bus signal trigger.

Syntax :TRIGger:LOGic:UART:DATA?

Example :TRIGGER:LOGIC:UART:DATA? -> :TRIGGER:

LOGIC: UART: DATA: BITORDER LSBFIRST;

DSIZE 1; PATTERN "X1011111"

#### :TRIGger:LOGic:UART:DATA:BITorder

Function Sets the data bit order of the logic UART bus signal

trigger or queries the current setting.

Syntax :TRIGger:LOGic:UART:DATA:

BITorder {LSBFirst|MSBFirst}

:TRIGger:LOGic:UART:DATA:BITorder?

Example :TRIGGER:LOGIC:UART:DATA:

BITORDER LSBFIRST

:TRIGGER:LOGIC:UART:DATA:BITORDER? -> :

TRIGGER:LOGIC:UART:DATA:

BITORDER LSBFIRST

# :TRIGger:LOGic:UART:DATA:DSIZe

Function Sets the number of data bytes of the logic UART bus

signal trigger or queries the current setting.

Syntax :TRIGger:LOGic:UART:DATA:DSIZe {<NRf>}

:TRIGger:LOGic:UART:DATA:DSIZe?

< NRf > = 1 to 4

Example :TRIGGER:LOGIC:UART:DATA:DSIZE 1

:TRIGGER:LOGIC:UART:DATA:DSIZE? ->

:TRIGGER:LOGIC:UART:DATA:DSIZE 1

# :TRIGger:LOGic:UART:DATA:HEXA

Function Sets the logic UART bus signal trigger data in

hexadecimal.

Syntax :TRIGger:LOGic:UART:DATA:

HEXA {<string>}

<string> = Up to 8 characters by combining '0' to 'F'

and 'X,' units of 1 byte

Example :TRIGGER:LOGIC:UART:DATA:HEXA "A9"

# :TRIGger:LOGic:UART:DATA:PATTern

Function Sets the data of the logic UART bus signal trigger in

binary or queries the current setting.

Syntax :TRIGger:LOGic:UART:DATA:

PATTern {<string>}

:TRIGger:LOGic:UART:DATA:PATTern?

<string> = Up to 32 characters by combining '0,' '1,'

and 'X,' units of 1 byte

Example :TRIGGER:LOGIC:UART:DATA:

PATTERN "11011111"

:TRIGGER:LOGIC:UART:DATA:PATTERN? ->

:TRIGGER:LOGIC:UART:DATA:

PATTERN "11011111"

# :TRIGger:LOGic:UART:ERRor?

Function Queries all settings related to the logic UART bus

signal trigger error.

Syntax :TRIGger:LOGic:UART:ERRor?

Example :TRIGGER:LOGIC:UART:ERROR? -> :TRIGGER:

LOGIC: UART: ERROR: FRAMING 1;

PARITY 1; PMODE EVEN

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#### :TRIGger:LOGic:UART:ERRor:FRAMing

Function Sets the logic UART bus signal trigger Framing error or queries the current setting.

Syntax :TRIGger:LOGic:UART:ERRor:

FRAMing {<Boolean>}

:TRIGger:LOGic:UART:ERRor:FRAMing?

Example :TRIGGER:LOGIC:UART:ERROR:FRAMING ON

:TRIGGER:LOGIC:UART:ERROR:FRAMING? ->
:TRIGGER:LOGIC:UART:ERROR:FRAMING 1

#### :TRIGger:LOGic:UART:ERRor:PARity

Function Sets the logic UART bus signal trigger Parity error or queries the current setting.

Syntax :TRIGger:LOGic:UART:ERRor:

PARity {<Boolean>}

:TRIGger:LOGic:UART:ERRor:PARity?

Example :TRIGGER:LOGIC:UART:ERROR:PARITY ON

:TRIGGER:LOGIC:UART:ERROR:PARITY? ->
:TRIGGER:LOGIC:UART:ERROR:PARITY 1

#### :TRIGger:LOGic:UART:ERRor:PMODe

Function Sets the logic UART bus signal trigger Parity mode or queries the current setting.

Syntax :TRIGger:LOGic:UART:ERRor:

PMODe {EVEN|ODD}

:TRIGger:LOGic:UART:ERRor:PMODe?

Example :TRIGGER:LOGIC:UART:ERROR:PMODE EVEN

:TRIGGER:LOGIC:UART:ERROR:PMODE? ->
:TRIGGER:LOGIC:UART:ERROR:PMODE EVEN

## :TRIGger:LOGic:UART:FORMat

Function Sets the logic UART bus signal trigger format or queries the current setting.

Syntax :TRIGger:LOGic:UART:FORMat {BIT7parity|

BIT8Noparity|BIT8Parity}
:TRIGger:LOGic:UART:FORMat?

Example :TRIGGER:LOGIC:UART:FORMAT BIT7PARITY

:TRIGGER:LOGIC:UART:FORMAT? ->

:TRIGGER:LOGIC:UART:FORMAT BIT7PARITY

# :TRIGger:LOGic:UART:MODE

Function Sets the logic UART bus signal trigger mode or queries the current setting.

Syntax :TRIGger:LOGic:UART:MODE {DATA | ERRor}

:TRIGger:LOGic:UART:MODE?

Example :TRIGGER:LOGIC:UART:MODE DATA

:TRIGGER:LOGIC:UART:MODE? -> :TRIGGER:

LOGIC:UART:MODE DATA

# :TRIGger:LOGic:UART:POLarity

Function Sets the logic UART bus signal trigger polarity or

queries the current setting.

Syntax :TRIGger:LOGic:UART:POLarity

{NEGative | POSitive}

:TRIGger:LOGic:UART:POLarity?

Example :TRIGGER:LOGIC:UART:POLARITY NEGATIVE

:TRIGGER:LOGIC:UART:POLARITY? ->
:TRIGGER:LOGIC:UART:POLARITY NEGATIVE

#### :TRIGger:LOGic:UART:SOURce

Function Sets the logic UART bus signal trigger source or

queries the current setting.

Syntax :TRIGger:LOGic:UART:SOURce {A<x>}

:TRIGger:LOGic:UART:SOURce?

< x > = 0 to 7

Example :TRIGGER:LOGIC:UART:SOURCE A0

:TRIGGER:LOGIC:UART:SOURCE? ->
:TRIGGER:LOGIC:UART:SOURCE A0

## :TRIGger:LOGic:UART:SPOint

Function Sets the logic UART bus signal trigger sample point

or queries the current setting.

Syntax :TRIGger:LOGic:UART:SPOint {<NRf>}

:TRIGger:LOGic:UART:SPOint?

<NRf> = 18.8 to 90.6(%)

Example :TRIGGER:LOGIC:UART:SPOINT 18.8

:TRIGGER:LOGIC:UART:SPOINT? -> :TRIGGER:LOGIC:UART:SPOINT 18.8E+00

# :TRIGger:LOGic:WIDTh?

Function Queries all settings related to the logic pulse width

trigger.

Syntax :TRIGger:LOGic:WIDTh?

Example :TRIGGER:LOGIC:WIDTH? -> :TRIGGER:

LOGIC:WIDTH:MODE OUT;

POLARITY POSITIVE; SOURCE A0;

TIME1 1.0000000E-09; TIME2 1.0000000E-09

# :TRIGger:LOGic:WIDTh:MODE

Function Sets the determination mode of the logic pulse width

trigger or queries the current setting.

Syntax :TRIGger:LOGic:WIDTh:MODE {BETWeen|IN|

NOTBetween|OUT|TIMeout}
:TRIGger:LOGic:WIDTh:MODE?

Example :TRIGGER:LOGIC:WIDTH:MODE BETWEEN

:TRIGGER:LOGIC:WIDTH:MODE? -> :TRIGGER:

LOGIC:WIDTH:MODE BETWEEN

## :TRIGger:LOGic:WIDTh:POLarity

Function Sets the polarity of the logic pulse width trigger or queries the current setting.

Syntax :TRIGger:LOGic:WIDTh:POLarity {FALSe|

NEGative | POSitive | TRUE }

:TRIGger:LOGic:WIDTh:POLarity?

Example :TRIGGER:LOGIC:WIDTH:POLARITY FALSE

:TRIGGER:LOGIC:WIDTH:POLARITY?

-> :TRIGGER:LOGIC:WIDTH:POLARITY FALSE

Description • {FALSe|TRUE} is valid when :TRIGger:TYPE LPState.

 {NEGative|POSitive} is valid if :TRIGger: TYPE LPULse.

## :TRIGger:LOGic:WIDTh:SOURce

Function Sets the trigger source of the logic pulse width trigger or queries the current setting.

 $\verb|Syntax| : \verb|TRIGger:LOGic:WIDTh:SOURce| \{A < x > | B < x > |$ 

C < x > D < x >

:TRIGger:LOGic:WIDTh:SOURce?

< x > = 0 to 7

Example :TRIGGER:LOGIC:WIDTH:SOURCE A0

:TRIGGER:LOGIC:WIDTH:SOURCE?

-> :TRIGGER:LOGIC:WIDTH:SOURCE A0

Description For the SB5310, only {A<x>|} are valid.

#### :TRIGger:LOGic:WIDTh:TIME<x>

Function Sets the logic pulse width of the pulse width trigger or queries the current setting.

Syntax :TRIGger:LOGic:WIDTh:TIME<x> {<Time>}

:TRIGger:LOGic:WIDTh:TIME<x>?

< x > = 1 or 2

<Time> = 1 ns to 10 s (500 ps steps)

Example :TRIGGER:LOGIC:WIDTH:TIME1 1S

:TRIGGER:LOGIC:WIDTH:TIME1?

-> :TRIGGER:LOGIC:WIDTH:TIME1 1.000E+00

Description TIME2 is valid when :TRIGger:WIDTh:

MODE BETWeen|NOTBetween.

# :TRIGger:MODE

Function Sets the trigger mode or queries the current setting.

Syntax :TRIGger:MODE {ALEVel|AUTO|NORMal|

NSINgle|SINGle}

:TRIGger:MODE?

Example :TRIGGER:MODE ALEVEL

:TRIGGER:MODE? -> :TRIGGER:MODE ALEVEL

#### :TRIGger:POSition

Function Sets the trigger position or queries the current setting.

Syntax :TRIGger:POSition {<NRf>}

:TRIGger:POSition? <NRf> = 0 to 100 (%)

Example :TRIGGER:POSITION 10

:TRIGGER:POSITION?

-> :TRIGGER:POSITION 10

#### :TRIGger:SCOunt (Single(N) Count)

Function Sets the number of times the trigger is to be activated

when the trigger mode is Single(N) or queries the

current setting.

Syntax :TRIGger:SCOunt {<NRf>}

:TRIGger:SCOunt?

<NRf> = See the SB5000 User's Manual.

Example :TRIGGER:SCOUNT 1

:TRIGGER:SCOUNT? -> :TRIGGER:SCOUNT 1

#### :TRIGger:SOURce?

Function Queries all settings related to the trigger source.

Syntax :TRIGger:SOURce?

Example :TRIGGER:SOURCE? -> :TRIGGER:SOURCE:

CHANNEL1: COUPLING DC; HFREJECTION OFF;

HYSTERESIS HIGH; LEVEL 1.000E+00;

STATE HIGH; WIDTH 1.000E+00; WINDOW 0;:

TRIGGER:SOURCE:CHANNEL2:COUPLING DC; HFREJECTION OFF;HYSTERESIS HIGH;

LEVEL 1.000E+00;STATE HIGH;

WIDTH 1.000E+00; WINDOW 0; :TRIGGER:

SOURCE: CHANNEL3: COUPLING DC;

HFREJECTION OFF; HYSTERESIS HIGH;

LEVEL 1.000E+00; STATE HIGH;

WIDTH 1.000E+00; WINDOW 0;: TRIGGER:

SOURCE: CHANNEL4: COUPLING DC;

HFREJECTION OFF; HYSTERESIS HIGH;

LEVEL 1.000E+00; STATE HIGH;

WIDTH 1.000E+00; WINDOW 0; :TRIGGER:

SOURCE: EXTERNAL: LEVEL 0.000E+00;

PROBE 1;:TRIGGER:SOURCE:LOGIC AND

#### :TRIGger:SOURce:CHANnel<x>?

Function Queries all settings related to the channel of the

trigger source.

Syntax :TRIGger:SOURce:CHANnel<x>?

< x > = 1 to 4

Example :TRIGGER:SOURCE:CHANNEL1? -> :TRIGGER:

SOURCE: CHANNEL1: COUPLING DC; HFREJECTION OFF; HYSTERESIS HIGH;

LEVEL 1.000E+00; STATE HIGH; WIDTH 1.000E+00; WINDOW 0

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#### :TRIGger:SOURce:CHANnel<x>:COUPling

Sets the trigger coupling of the channel or queries the current setting.

Syntax :TRIGger:SOURce:CHANnel<x>:

COUPling {AC | DC}

:TRIGger:SOURce:CHANnel<x>:COUPling?

< x > = 1 to 4

Example :TRIGGER:SOURCE:CHANNEL1:COUPLING AC

:TRIGGER:SOURCE:CHANNEL1:COUPLING?

-> :TRIGGER:SOURCE:CHANNEL1:COUPLING DC

#### :TRIGger:SOURce:CHANnel<x>:

# HFRejection (HighFrequencyREJECTION)

Sets the low pass filter (HF rejection) of the channel Function or queries the current setting.

Syntax :TRIGger:SOURce:CHANnel<x>:

HFRejection {<Frequency>|OFF}

:TRIGger:SOURce:CHANnel<x>:HFRejection?

< x > = 1 to 4

<Frequency> = 20MHz or 15kHz

Example :TRIGGER:SOURCE:CHANNEL1:

HFREJECTION OFF

:TRIGGER:SOURCE:CHANNEL1:HFREJECTION?

-> :TRIGGER:SOURCE:CHANNEL1:

HFREJECTION OFF

Description This command is invalid when the trigger source is

{EXTernal|LINE}.

# :TRIGger:SOURce:CHANnel<x>:

#### HYSTeresis

Function Sets the hysteresis of the channel or queries the current setting.

Syntax :TRIGger:SOURce:CHANnel<x>:

HYSTeresis {HIGH|LOW}

:TRIGger:SOURce:CHANnel<x>:HYSTeresis?

< x > = 1 to 4

Example :TRIGGER:SOURCE:CHANNEL1:

HYSTERESIS HIGH

:TRIGGER:SOURCE:CHANNEL1:HYSTERESIS?

-> :TRIGGER:SOURCE:CHANNEL1:

HYSTERESIS HIGH

# :TRIGger:SOURce:CHANnel<x>:LEVel

Function Sets the trigger level of the channel or queries the current setting.

Syntax :TRIGger:SOURce:CHANnel<x>:

LEVel {<Voltage>|<Current>}

:TRIGger:SOURce:CHANnel<x>:LEVel?

< x > = 1 to 4

<Voltage> and <Current> = See the SB5000 User's

Manual.

Example :TRIGGER:SOURCE:CHANNEL1:LEVEL 1V

:TRIGGER:SOURCE:CHANNEL1:LEVEL? -> :TRIGGER:SOURCE:CHANNEL1:

LEVEL 1.000E+00

#### :TRIGger:SOURce:CHANnel<x>:STATe

Function Sets the condition to be satisfied of the channel or queries the current setting.

:TRIGger:SOURce:CHANnel<x>: Syntax STATe {DONTcare|HIGH|LOW}

:TRIGger:SOURce:CHANnel<x>:STATe?

< x > = 1 to 4

Example :TRIGGER:SOURCE:CHANNEL1:STATE HIGH :TRIGGER:SOURCE:CHANNEL1:STATE?

-> :TRIGGER:SOURCE:CHANNEL1:STATE HIGH

Description • This command is valid when :TRIGger:TYPE EQUalify|I2CBus|PQUalify|PSTAte| SPATtern|STATe.

> • {HIGH|LOW} is valid when :TRIGger:TYPE I2CBus|SPATtern.

• For :TRIGger:TYPE EQUalify|PQUalify|PSTAte| STATe and :TRIGger:SOURce:CHANnel<x>: WINDow ON, the choices in the SB5000 menu are IN/OUT.

{High} corresponds to IN, and {LOW} corresponds to OUT.

#### :TRIGger:SOURce:CHANnel<x>:WIDTh

Function Sets the window trigger width of the channel or

queries the current setting. :TRIGger:SOURce:CHANnel<x>: Syntax

WIDTh {<Voltage>|<Current>}

:TRIGger:SOURce:CHANnel<x>:WIDTh?

< x > = 1 to 4

<Voltage> and <Current> = See the SB5000 User's

Manual.

Example :TRIGGER:SOURCE:CHANNEL1:WIDTH 1V :TRIGGER:SOURCE:CHANNEL1:WIDTH? -> :TRIGGER:SOURCE:CHANNEL1:

WIDTH 1.000E+00

Description This command is valid when :TRIGger:SOURce: CHANnel<x>:WINDow ON.

# :TRIGger:SOURce:CHANnel<x>:WINDow

Function Turns ON/OFF the window of the channel or queries the current setting.

:TRIGger:SOURce:CHANnel<x>: Syntax

WINDow {<Boolean>}

:TRIGger:SOURce:CHANnel<x>:WINDow?

< x > = 1 to 4

Example :TRIGGER:SOURCE:CHANNEL1:WINDOW ON :TRIGGER:SOURCE:CHANNEL1:WINDOW?

-> :TRIGGER:SOURCE:CHANNEL1:WINDOW 1

# :TRIGger:SOURce:EXTernal?

Function Queries all settings related to the external trigger.

Syntax :TRIGger:SOURce:EXTernal?

Example :TRIGGER:SOURCE:EXTERNAL? -> :TRIGGER:

SOURCE: EXTERNAL: LEVEL 0.000E+00; PROBE 1

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## :TRIGger:SOURce:EXTernal:LEVel

Function Sets the trigger level of the external trigger or queries the current setting.

Syntax :TRIGger:SOURce:EXTernal:
 LEVel {<Voltage>|<Current>}
 :TRIGger:SOURce:EXTernal:LEVel?

< x > = 1 to 4

<Voltage> and <Current> = See the SB5000 User's Manual

Description This command is valid when :TRIGger:TYPE EDGE| EQUalify|PQUalify|PULSe.

#### :TRIGger:SOURce:EXTernal:PROBe

Function Sets the probe attenuation of the external trigger or queries the current setting.

Syntax :TRIGger:SOURce:EXTernal:PROBe {<NRf>}
 :TRIGger:SOURce:EXTernal:PROBe?

< NRf > = 1,10

Example :TRIGGER:SOURCE:EXTERNAL:PROBE 1
 :TRIGGER:SOURCE:EXTERNAL:PROBE?
 -> :TRIGGER:SOURCE:EXTERNAL:PROBE 1

Description This command is valid when :TRIGger:TYPE EDGE| EQUalify|PQUalify|PULSe.

# :TRIGger:SOURce:LOGic

Function Sets the trigger source logic or queries the current setting.

 $\verb|Syntax| : \verb|TRIGger:SOURce:LOGic {AND}|OR||$ 

:TRIGger:SOURce:LOGic?

Example :TRIGGER:SOURCE:LOGIC AND

:TRIGGER:SOURCE:LOGIC? -> :TRIGGER:

SOURCE:LOGIC AND

Description This command is valid when :TRIGger:TYPE EQUalif y|I2CBus|PQUalify|PSTAte|

SPATtern|STATe.

# :TRIGger:TYPE

Function Sets the trigger type or queries the current setting.

UART }

:TRIGger:TYPE?

Example :TRIGGER:TYPE CANBUS:TRIGGER:TYPE?

-> :TRIGGER:TYPE CANBUS

#### :TRIGger:WIDTh?

Function Queries all settings related to the pulse width trigger.

Syntax :TRIGger:WIDTh?

#### :TRIGger:WIDTh:MODE

Function Sets the determination mode of the pulse width

trigger or queries the current setting.

Syntax :TRIGger:WIDTh:MODE {BETWeen|IN|

NOTBetween|OUT|TIMeout}
:TRIGger:WIDTh:MODE?

Example :TRIGGER:WIDTH:MODE BETWEEN

:TRIGGER:WIDTH:MODE? -> :TRIGGER:WIDTH:

MODE BETWEEN

#### :TRIGger:WIDTh:POLarity

Function Sets the polarity of the pulse width trigger or queries the current setting.

Syntax :TRIGger:WIDTh:POLarity {FALSe|

NEGative|POSitive|TRUE}
:TRIGger:WIDTh:POLarity?

Example :TRIGGER:WIDTH:POLARITY POSITIVE

:TRIGGER:WIDTH:POLARITY? -> :TRIGGER:

WIDTH: POLARITY POSITIVE

Description • For :TRIGger:TYPE PQUalify|PULSe and :

TRIGger:SOURce:CHANnel<x>:WINDow ON, the choices in the SB5000 menu are IN/OUT.
{POSitive} corresponds to IN, and {NEGative} corresponds to OUT.

 {FALSe|TRUE} is valid when :TRIGger:TYPE PSTATe.

# :TRIGger:WIDTh:SOURce

Function Sets the trigger source of the pulse width trigger or queries the current setting.

Syntax :TRIGger:WIDTh:SOURce {<NRf>|EXTernal}

:TRIGger:WIDTh:SOURce?

< NRf > = 1 to 4

Example :TRIGGER:WIDTH:SOURCE EXTERNAL

:TRIGGER:WIDTH:SOURCE? -> :TRIGGER:

WIDTH: SOURCE EXTERNAL

Description This command is valid when :TRIGger:TYPE PQUalify|PULSe.

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# :TRIGger:WIDTh:TIME<x>

Function Sets the pulse width of the pulse width trigger or

queries the current setting.

 $\verb|Syntax| : \verb|TRIGger:WIDTh:TIME<| x> \{ < \verb|Time>| \}$ 

:TRIGger:WIDTh:TIME<x>?

< x > = 1 or 2

<Time> = 1 ns to 10 s (500 ps steps)

Example :TRIGGER:WIDTH:TIME1 1S

:TRIGGER:WIDTH:TIME1? -> :TRIGGER:

WIDTH:TIME1 1.000E+00

 ${\tt Description\,TIME2} \ is \ valid \ when: {\tt TRIGger:WIDTh:MODE}$ 

BETWeen|NOTBetween.

# 5.32 WAVeform Group

The commands in this group deal with acquired waveform data. There are no front panel keys that correspond to the commands in this group.

#### :WAVeform?

Function Queries all information about the waveform data.

Syntax : WAVeform?

Example :WAVEFORM? -> :WAVEFORM:TRACE 1;

RECORD 0;START 0;END 6249999; FORMAT WORD;BYTEORDER LSBFIRST

# :WAVeform:BITS?

Function Queries the bit length of the waveform data specified

by ":WAVeform:TRACe".

Syntax : WAVeform:BITS?

Example :WAVEFORM:BITS? -> :WAVEFORM:BITS 16

#### :WAVeform:BYTeorder

Function Sets the transmission order when using word format of two bytes or more or queries the current setting.

:WAVeform:BYTeorder {LSBFirst|MSBFirst}

:WAVeform:BYTeorder?

Example : WAVEFORM: BYTEORDER LSBFIRST

:WAVEFORM:BYTEORDER? -> :WAVEFORM:

BYTEORDER LSBFIRST

# :WAVeform:END

Syntax

Function Sets the last data point of the waveform specified by :

WAVeform:TRACe or queries the current setting.

Syntax : WAVeform: END { < NRf > }

:WAVeform:END?

<NRf> = 0 to 6,249,999

Example : WAVEFORM: END 12499

:WAVEFORM:END? -> :WAVEFORM:END 12499

Description The total number of data points can be queried using

:WAVeform:LENGth?.

# :WAVeform:FORMat

Function Sets the format of the data to be transmitted or queries the current setting.

Syntax : WAVeform: FORMat {ASCii|BYTE|DWORd|

RBYTe | WORD }

:WAVeform:FORMat?

Example : WAVEFORM: FORMAT ASCII

:WAVEFORM:FORMAT? ->

:WAVEFORM:FORMAT ASCII

Description• For details on the differences in the format setting, see the description of :WAVeform:SEND?.

 {DWORd} is invalid if not :WAVeform:TRACe LGRoup<x>.

 {RBYTe} is invalid if :WAVeform:TRACe LGRoup<x>.

#### :WAVeform:LENGth?

Function Queries the total number of points of the waveform

specified by ":WAVeform:TRACe".

Syntax :WAVeform:LENGth?
Example :WAVEFORM:LENGTH?

-> :WAVEFORM:LENGTH 12500

#### :WAVeform:OFFSet?

Function Queries the offset value when converting the

waveform data specified by :WAVeform:TRACe to

physical values.

Syntax : WAVeform:OFFSet?

Example :WAVEFORM:OFFSET? -> 0.000E+00

Description • The offset value is used when converting the

<Block data> that is output using :WAVeform:

SEND? to physical values.

• When :CHANnel<x>:OCANcel is ON, 0 is returned.

Returns 0 if :WAVeform:TRACe LGRoup<x>.

#### :WAVeform:POSition?

Function Queries the vertical axis position used for converting to voltage when RBYTe is specified with: WAVeform:

FORMat

Syntax : WAVeform: POSition?

Example :WAVEFORM:POSITION? -> :WAVEFORM:

POSITION 128

# :WAVeform:RANGe?

Function Queries the range value when converting the

waveform data specified by :WAVeform:TRACe to

physical values.

Syntax : WAVeform: RANGe?

Example :WAVeform:RANGe? -> 5.000E+00

Description The range value is used when converting the <Block

data> that is output using :WAVeform:SEND? to

physical values.

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#### :WAVeform:RECord

Function Sets the target record number for the commands in

the WAVeform group or queries the current setting.

Syntax : WAVeform: RECord

{AVERage | MINimum | < NRf > }

:WAVeform:RECord? <NRf> = 0 to -1999

Example : WAVEFORM: RECORD 0

:WAVEFORM:RECORD? -> :WAVEFORM:RECORD 0

Description • If "AVERage" is specified, the commands in the WAVeform group are applied to the average value of the history waveform. The record numbers to be averaged are set using the ":HISTory[:CURRent]: DISPlay" command. In addition, the highlight display mode must be set to "AVERage." Set the highlight display mode using the ":HISTory[:CURent]:MODE" command.

 Specifying "MINimum" sets the record to the minimum record number. The selectable record number varies depending on the model and acquisition setting. For details, see the SB5000 User's Manual.

#### :WAVeform:RECord? MINimum

Function Queries the minimum record number of the history of the target channel.

Syntax : WAVeform: RECord? MINimum

Example :WAVEFORM:RECORD? MINimum -> :WAVEFORM:

RECORD -1999

#### :WAVeform:SEND?

Function Queries the waveform data specified by ":WAVeform:

TRACe".

Syntax : WAVeform: SEND? [{<NRf>}]

<NRf> = 1 to 2000

Varies depending on the record length setting.

Example :WAVEFORM:SEND? -> #8 (number of bytes, 8

digits) (data sequence)

or <NRf>,<NRf>,...

Description • The output format of :WAVeform:SEND? varies depending on the :WAVeform:FORMat setting.

(1) When set to ASCii

Returned in the form <voltage>, <voltage>,
 ..., <voltage> if WAVeform:TRACe is not a logic group.

Returned in the form <NR1>, <NR1>, ...,
 <NR1> if WAVeform:TRACe is a logic group. <NR1> is a decimal representation of the logic bit pattern.

(2) When set to BYTE, WORD, or DWORd Returned in the <Block data> format. You can convert the value using the following equation.

Voltage (computed value) = (range × data / divisions\*) + offset

\* BYTE: Division = 12.5 (1 for the logic group) WORD: Division = 3200 (1 for the logic group)

DWORd: Division = 1 (only for the logic group)

If the number of bit mappings specified with :LOGic:GROup<x>:MAPPing is too large, the lower bits are output according to the FORMat.

(3) When set to RBYTE

Returned in the <Block data> format.

You can convert the value using the following equation.

Voltage (computed value) = (range  $\times$  (data - Position) / divisions\*) + offset

Divisions = 12.5

Position = Return value of ":WAVeform: POSition?".

 <NRf> can be omitted. If <NRf> is attached, waveform data is queried <NRf> times in order from the record number specified by :WAVeform: RECord – <NRf> + 1.

#### :WAVeform:SIGN?

Function Queries the existence of a sign when querying the

waveform data specified by :WAVeform:TRACe using binary data.

Syntax :WAVeform:SIGN?

Example : WAVEFORM: SIGN? -> : WAVEFORM: SIGN 1 Description Returns 0 if : WAVeform: TRACe LGRoup<x>.

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# :WAVeform:SRATe? (Sample RATE)

Function Queries the sample rate of the record specified by :

WAVeform: RECord.

Syntax :WAVeform:SRATe?
Example :WAVEFORM:SRATE?

-> :WAVEFORM:SRATE 1.25E+09

#### :WAVeform:STARt

WAVeform:TRACe or queries the current setting.

Syntax : WAVeform:STARt {<NRf>}

:WAVeform:STARt?

<NRf> = 0 to 6,249,999 (0 to 2,499,999 on 2.5 MW

memory models)

Example : WAVEFORM: START 0

:WAVEFORM:START? -> :WAVEFORM:START 0

#### :WAVeform:TRACe

Function Sets the target waveform or queries the current

setting.

 $\verb|Syntax| : \verb|WAVeform:TRACe| \{ < \verb|NRf> | LGRoup < x> |$ 

MATH<x> | REFerence<x> }
:WAVeform:TRACe?
<NRf> = 1 to 4

<x> of LGROup<x> = 1 to 5
<x> of MATH<x> = 1 to 8
<x> of REFerence<x> = 1 to 4

Example :WAVEFORM:TRACE 1

:WAVEFORM:TRACE? -> :WAVEFORM:TRACE 1

## :WAVeform:TRIGger?

Function Queries the trigger position of the record specified by

:WAVeform:RECord.

Syntax :WAVeform:TRIGger?
Example :WAVEFORM:TRIGGER?

-> :WAVEFORM:TRIGGER 6250

Description Queries the number of points from the first point of the record length to the trigger position.

# :WAVeform:TYPE?

Function Queries the acquisition mode of the waveform

 $specified \ by : WAVeform: TRACe.$ 

Syntax : WAVeform: TYPE?
Example : WAVEFORM: TYPE?

-> :WAVEFORM:TYPE NORMAL

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# 5.33 ZOOM Group

#### :ZOOM?

Function Queries all settings related to the waveform zoom.

Syntax : ZOOM?

Example :ZOOM? -> :ZOOM:ALLOCATION1:TRACE1 1;

TRACE2 1;TRACE3 1;TRACE4 1;TRACE5 1;

TRACE6 1;TRACE7 1;TRACE8 1;:ZOOM:

ALLOCATION2:TRACE1 1;TRACE2 1;TRACE3 1;

TRACE4 1; TRACE5 1; TRACE6 1; TRACE7 1;

TRACE8 1;:ZOOM:FORMAT1 MAIN;

FORMAT2 MAIN; HLINKAGE 0; HORIZONTAL1: ASCROLL: SPEED 5;: ZOOM: HORIZONTAL1:

MAG 2.000E+00; POSITION 0.000E+00; : ZOOM:

HORIZONTAL2:ASCROLL:SPEED 5;:ZOOM:

HORIZONTAL2: MAG 2.000E+00;

POSITION 0.000E+00;:ZOOM:MODE MAIN;

TYPE1 HORIZONTAL; TYPE2 HORIZONTAL;

VERTICAL1:MAG 1.000E+00;

POSITION 0.000E+00; TRACE 1; : ZOOM:

VERTICAL2:MAG 1.000E+00;

POSITION 0.000E+00; TRACE 1; : ZOOM:

VLINKAGE 0

#### :ZOOM:ALLocation<x>?

Function Queries all settings related to the zoom source

waveform.

Syntax : ZOOM:ALLocation<x>?

< x > = 1 or 2

Example :ZOOM:ALLOCATION1? -> :ZOOM:ALLOCATION1:

TRACE1 1;TRACE2 1;TRACE3 1;TRACE4 1;
TRACE5 1;TRACE6 1;TRACE7 1;TRACE8 1

# :ZOOM:ALLocation<x>:ALLon

Function Sets all waveforms to be zoomed.

Syntax : ZOOM:ALLocation<x>:ALLon

< x > = 1 or 2

Example : ZOOM: ALLOCATION1: ALLON

## :ZOOM:ALLocation<x>:TRACe<x>

Function Turns ON/OFF the trace you wish to zoom or queries

the current setting.

Syntax :ZOOM:ALLocation<x>:

TRACe<x> {<Boolean>}

:ZOOM:ALLocation<x>:TRACe<x>?

<x> of ALLocation<x> = 1 or 2 <x> of TRACe<x> = 1 to 8

Example : ZOOM: ALLOCATION1: TRACE1 ON

:ZOOM:ALLOCATION1:TRACE1? -> :ZOOM:

ALLOCATION1:TRACE1 1

#### :ZOOM:FORMat<x>

Function Sets the display format of the zoom waveform or

queries the current setting.

Syntax : ZOOM: FORMat<x> {DUAL | MAIN | QUAD | SINGle |

TRIad}

:ZOOM:FORMat<x>?

< x > = 1 or 2

Example : ZOOM: FORMAT1 SINGLE

:ZOOM:FORMAT1? -> :ZOOM:FORMAT1 SINGLE

#### :ZOOM:HLINkage

Function Turns ON/OFF the horizontal link or queries the

current setting.

Syntax :ZOOM:HLINkage {<Boolean>}

:ZOOM:HLINkage?

Example :ZOOM:HLINKAGE ON

:ZOOM:HLINKAGE? -> :ZOOM:HLINKAGE 1

#### :ZOOM:HORizontal<x>?

Function Queries all settings related to the horizontal zoom.

Syntax :ZOOM:HORizontal<x>?

< x > = 1 or 2

Example :ZOOM:HORIZONTAL1? -> :ZOOM:HORIZONTAL1:

ASCROLL:SPEED 5;:ZOOM:HORIZONTAL1:
MAG 2.000E+00;POSITION 4.000E+00

#### :ZOOM:HORizontal<x>:ASCRoll?

Function Queries all settings related to the auto scroll function.

Syntax :ZOOM:HORizontal<x>:ASCRoll?

< x > = 1 or 2

Example :ZOOM:HORIZONTAL1:ASCROLL? -> :ZOOM:

HORIZONTAL1:ASCROLL:SPEED 5

# :ZOOM:HORizontal<x>:ASCRoll:JUMP

Function Moves the zoom center position to the left or right

edge of the main screen.

Syntax : ZOOM: HORizontal < x > : ASCRoll: JUMP {LEFT|

RIGHt}

< x > = 1 or 2

Example :ZOOM:HORIZONTAL1:ASCROLL:JUMP RIGHT

# :ZOOM:HORizontal<x>:ASCRoll:SPEed

Function Sets the auto scroll speed or queries the current setting.

Syntax :ZOOM:HORizontal<x>:ASCRoll:SPEed

{<NRf>}

:ZOOM:HORizontal<x>:ASCRoll:SPEed?

< x > = 1 or 2

<NRf> = 1, 2, 5, 10, 20, 50

Example : ZOOM: HORIZONTAL1: ASCROLL: SPEED 1

:ZOOM:HORIZONTAL1:ASCROLL:SPEED?

-> :ZOOM:HORIZONTAL1:ASCROLL:SPEED 1

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#### :ZOOM:HORizontal<x>:ASCRoll:STARt

Function Starts auto scrolling.

Syntax :ZOOM:HORizontal<x>:ASCRoll:STARt

 $\{LEFT | RIGHt \}$ <x> = 1 or 2

Example : ZOOM: HORIZONTAL1: ASCROLL: START LEFT

#### :ZOOM:HORizontal<x>:ASCRoll:STOP

Function Stops auto scrolling.

Syntax :ZOOM:HORizontal<x>:ASCRoll:STOP

< x > = 1 or 2

Example :ZOOM:HORIZONTAL1:ASCROLL:STOP

## :ZOOM:HORizontal<x>:MAG

Function Sets the horizontal zoom magnification or queries the

current setting.

Syntax :ZOOM:HORizontal<x>:MAG {<NRf>}

:ZOOM:HORizontal<x>:MAG?

< x > = 1 or 2

<NRf> = See the SB5000 User's Manual.

Example : ZOOM: HORIZONTAL1: MAG 2

:ZOOM:HORIZONTAL1:MAG? -> :ZOOM:

HORIZONTAL1:MAG 2.000E+00

#### :ZOOM:HORizontal<x>:POSition

Function Sets the horizontal zoom center position or queries

the current setting.

Syntax :ZOOM:HORizontal<x>:POSition {<NRf>}

:ZOOM:HORizontal<x>:POSition?

< x > = 1 or 2

<NRf> = -5 to 5 (div)

Example :ZOOM:HORIZONTAL1:POSITION 1

:ZOOM:HORIZONTAL1:POSITION? -> :ZOOM:

HORIZONTAL1:POSITION 1.000E+00

#### :ZOOM:MODE

Function Sets the zoom waveform display format or queries

the current setting.

Syntax :ZOOM:MODE {MAIN|MAIN\_Z1|MAIN\_Z1\_Z2|

 ${\tt MAIN}\_{\tt Z2} \,|\, {\tt Z1} \,|\, {\tt Z1}\_{\tt Z2} \,|\, {\tt Z2} \,\}$ 

:ZOOM:MODE?

Example :ZOOM:MODE MAIN\_Z1\_Z2

:ZOOM:MODE? -> :ZOOM:MODE MAIN\_Z1\_Z2

## :ZOOM:TYPE<x>

Function Sets the zoom type or queries the current setting.

Syntax : ZOOM: TYPE<x> {HORizontal | VERTical}

:ZOOM:TYPE<x>?

< x > = 1 or 2

Example :ZOOM:TYPE1 VERTICAL

:ZOOM:TYPE1? -> :ZOOM:TYPE1 VERTICAL

## :ZOOM:VERTical<x>?

Function Queries all settings related to the vertical zoom.

Syntax : ZOOM: VERTical < x > ?

< x > = 1 or 2

Example :ZOOM:VERTICAL1? -> :ZOOM:VERTICAL1:

MAG 1.000E+00; POSITION 0.000E+00;

TRACE 1

# :ZOOM:VERTical<x>:INITialize

Function Initializes the vertical zoom.

Syntax :ZOOM:VERTical<x>:INITialize

< x > = 1 or 2

Example :ZOOM:VERTICAL1:INITIALIZE

#### :ZOOM:VERTical<x>:MAG

Function Sets the vertical zoom magnification or queries the

current setting.

Syntax :ZOOM:VERTical<x>:MAG {<NRf>}

:ZOOM:VERTical<x>:MAG?

< x > = 1 or 2

<NRf> = See the SB5000 User's Manual.

Example :ZOOM:VERTICAL1:MAG 1

:ZOOM:VERTICAL1:MAG? -> :ZOOM:VERTICAL1:

MAG 1.000E+00

## :ZOOM:VERTical<x>:POSition

Function Sets the vertical zoom position or queries the current

setting.

 $\verb|Syntax| : \verb|ZOOM:VERTical<x>: \verb|POSition| | {<|NRf>|}$ 

:ZOOM:VERTical<x>:POSition?

< x > = 1 or 2

<NRf> = -4 to 4 (div)

Example :ZOOM:VERTICAL1:POSITION 1

:ZOOM:VERTICAL1:POSITION? -> :ZOOM:

VERTICAL1: POSITION 1.000E+00

# :ZOOM:VERTical<x>:TRACe

Function Sets the trace you wish to display on the vertical

zoom screen or queries the current setting.

 $\verb|Syntax| : \verb|ZOOM:VERTical<x>:TRACe | \{< \verb|NRf>| \}$ 

:ZOOM:VERTical<x>:TRACe?

< x > = 1 or 2< NRf > = 1 to 8

Example :ZOOM:VERTICAL1:TRACE 1

:ZOOM:VERTICAL1:TRACE? -> :ZOOM:

VERTICAL1:TRACE 1

#### :ZOOM:VLINkage

Function Turns ON/OFF the vertical link or queries the current

setting.

Syntax :ZOOM:VLINkage {<Boolean>}

:ZOOM:VLINkage?

Example :ZOOM:VLINkAGE ON

:ZOOM:VLINkAGE? -> :ZOOM:VLINkAGE 1

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# 5.34 Common Command Group

The commands in the common group are defined in the USBTMC-USB488 and are independent of the instrument's functions. There are no front panel keys that correspond to the commands in this group.

#### \*CAL? (CALibrate)

Function Performs calibration and queries the result.

Syntax \*CAL?
Example \*CAL? -> 0

Description If the calibration terminates normally, 0 is returned. If an error is detected, 1 is returned.

## \*CLS (CLear Status)

Function Clears the standard event register, extended event register, and error queue.

Syntax \*CLS Example \*CLS

Description• If the \*CLS command is located immediately after the program message terminator, the output queue is also cleared.

• For details on the register and queue, see chapter 6.

# \*ESE (standard Event Status Enable register)

Function Sets the standard event enable register or queries the current setting.

Syntax \*ESE {<NRf>}
 \*ESE?
 <NRf> = 0 to 255
Example \*ESE 251

\*ESE? -> 251

Description • Specify the value as a sum of decimal values of

- For example, specifying "\*ESE 251" will cause the standard enable register to be set to "11111011."
   In this case, bit 2 of the standard event register is disabled which means that bit 5 (ESB) of the status byte register is not set to 1, even if a "query error" occurs.
- The default value is "\*ESE 0" (all bits disabled).
- A query using \*ESE? will not clear the contents of the standard event enable register.
- For details on the standard event enable register, see page 6-3.

#### \*ESR? (standard Event Status Register)

Function Queries the standard event register and clears the register.

Syntax \*ESR?
Example \*ESR? -> 32

Description • A sum of decimal values of each bit is returned.

- You can check what type of events occurred when an SRQ is generated.
- For example, if a value of "32" is returned, this
  indicates that the standard event register is set
  to "00100000." In this case, you can see that the
  SRQ occurred due to a "command syntax error."
- A query using \*ESR? will clear the contents of the standard event register.
- For details on the standard event register, see page 6-3.

#### \*IDN? (IDeNtify)

Description Queries the instrument model.

Description The information is returned in the following form: <Manufacturer>,<Model>,<Serial No.>,<Firmware</pre>

version> .

<Model> returns the following: SB5310 = 701351; SB5710 = 701361.

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# \*LRN? (LeaRN) Function Queries collectively the current settings of the following command groups. ACQuire, CHANnel<x>, TIMebase, TRIGger Syntax Example \*LRN? -> :ACQUIRE:AVERAGE:COUNT 2; EWEIGHT 16;:ACQUIRE:HRMODE 0; INTERLEAVE 0; INTERPOLATE 1; MODE NORMAL; REPETITIVE 0; RLENGTH 12500; : CHANNEL1: SELECT INPUT; DISPLAY 1; BWIDTH FULL; COUPLING DC; DESKEW 0.000E+00; INVERT 0; LABEL: DEFINE "CH1"; MODE 1; : CHANNEL1: OCANCEL 0; OFFSET 0.000E+00; POSITION 0.000E+00; PROBE: MODE 1;: CHANNEL1:SVALUE 0; VDIV 1.000E+00;: CHANNEL2:SELECT INPUT; DISPLAY 1; BWIDTH FULL; COUPLING DC; DESKEW 0.000E+00; INVERT 0; LABEL: DEFINE "CH2"; MODE 1; : CHANNEL2: OCANCEL 0; OFFSET 0.000E+00; POSITION 0.000E+00; PROBE: MODE 1;: CHANNEL2:SVALUE 0; VDIV 1.000E+00;: CHANNEL3:SELECT INPUT; DISPLAY 1; BWIDTH FULL: COUPLING DC: DESKEW 0.000E+00; INVERT 0; LABEL: DEFINE "CH3"; MODE 1; : CHANNEL3: OCANCEL 0; OFFSET 0.000E+00; POSITION 0.000E+00; PROBE: MODE 1;: CHANNEL3:SVALUE 0; VDIV 1.000E+00;: CHANNEL4: SELECT INPUT; DISPLAY 1; BWIDTH FULL; COUPLING DC; DESKEW 0.000E+00; INVERT 0; LABEL: DEFINE "CH4"; MODE 1; : CHANNEL4: OCANCEL 0; OFFSET 0.000E+00; POSITION 0.000E+00; PROBE: MODE 1;: CHANNEL4:SVALUE 0; VDIV 1.000E+00;: TIMEBASE: TDIV 1.000E-06; :TRIGGER: ACTION: ACQCOUNT 1; BUZZER 0; HCOPY 0; MODE OFF; SAVE 0; :TRIGGER: TYPE EDGE; CLOCK: SOURCE 1; POLARITY RISE; : TRIGGER: DELAY:EDGECOUNT:COUNT 1;:TRIGGER:DELAY: MODE 0: POLARITY RISE: SOURCE 1: TIME 0.000E+00; TYPE BYTIME; :TRIGGER: EINTERVAL:EVENT1:TYPE EDGE;CLOCK: SOURCE 1; POLARITY RISE; : TRIGGER: EINTERVAL:EVENT1:ESTATE:SOURCE 1; POLARITY RISE;:TRIGGER:EINTERVAL: EVENT1:STATE:CHANNEL1 DONTCARE; CHANNEL2 DONTCARE; CHANNEL3 DONTCARE; CHANNEL4 DONTCARE; LOGIC AND; : TRIGGER: EINTERVAL:EVENT1:WIDTH:MODE OUT; POLARITY POSITIVE; SOURCE 1;

TIME1 1.000E-09; TIME2 2.000E-09;:
TRIGGER: EINTERVAL: EVENT2: TYPE EDGE;
CLOCK: SOURCE 1; POLARITY RISE;: TRIGGER:
EINTERVAL: EVENT2: ESTATE: SOURCE 1;

POLARITY RISE; :TRIGGER:EINTERVAL: EVENT2:STATE:CHANNEL1 DONTCARE; CHANNEL2 DONTCARE: CHANNEL3 DONTCARE: CHANNEL4 DONTCARE; LOGIC AND; : TRIGGER: EINTERVAL:EVENT2:WIDTH:MODE OUT; POLARITY POSITIVE: SOURCE 1: TIME1 1.000E-09; TIME2 2.000E-09;: TRIGGER: EINTERVAL: MODE OUT; TIME1 1.500E-09; TIME2 2.000E-09; TRY: MODE 0; SELECT 1; :TRIGGER: ENHANCED: TV: CUSTOMIZE 0; FIELD 1; FRAME 1; HDTV: LINE 2; POLARITY POSITIVE; :TRIGGER: ENHANCED: TV: LEVEL 500.0E-03; NTSC: LINE 5; POLARITY NEGATIVE; : TRIGGER: ENHANCED: TV: PAL: LINE 2; POLARITY NEGATIVE;:TRIGGER:ENHANCED:TV: SGUARD 75; SOURCE 1; TYPE NTSC; USERDEFINE: DEFINITION HD; HFREJECTION OFF; HSYNC 31.500E+03; LINE 2; POLARITY POSITIVE; : TRIGGER: ESTATE: EOR: CHANNEL1 RISE; CHANNEL2 RISE; CHANNEL3 RISE; CHANNEL4 RISE; : TRIGGER: ESTATE: SOURCE 1: POLARITY RISE: :TRIGGER: HOLDOFF 20.00E-09; MODE AUTO; POSITION 50; SCOUNT 1; SOURCE: CHANNEL1: COUPLING DC; HFREJECTION OFF; HYSTERESIS LOW; LEVEL 0.000E+00; STATE DONTCARE; WIDTH 1.000E+00; WINDOW 0;:TRIGGER:SOURCE:CHANNEL2: COUPLING DC; HFREJECTION OFF; HYSTERESIS LOW; LEVEL 0.000E+00; STATE DONTCARE; WIDTH 1.000E+00; WINDOW 0;:TRIGGER:SOURCE:CHANNEL3: COUPLING DC; HFREJECTION OFF; HYSTERESIS LOW: LEVEL 0.000E+00: STATE DONTCARE; WIDTH 1.000E+00; WINDOW 0;:TRIGGER:SOURCE:CHANNEL4: COUPLING DC; HFREJECTION OFF; HYSTERESIS LOW; LEVEL 0.000E+00; STATE DONTCARE; WIDTH 1.000E+00; WINDOW 0;:TRIGGER:SOURCE:EXTERNAL: LEVEL 0.000E+00; PROBE 1; :TRIGGER: SOURCE: LOGIC AND::TRIGGER: WIDTH: MODE OUT; POLARITY POSITIVE; SOURCE 1; TIME1 1.000E-09; TIME2 2.000E-09

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# \*OPC (OPeration Complete)

Function Sets bit 0 (OPC bit) of the standard event register to 1 upon the completion of the specified overlap

command.

Syntax \*OPC Example \*OPC

Description • For the description regarding how to synchronize the program using \*OPC, see page 4-7.

- The COMMunicate:OPSE command is used to specify the overlap command.
- If \*OPC is not the last command of the message, the operation is not guaranteed.

# \*OPC? (OPeration Complete)

Function If \*OPC? is transmitted and the specified overlap command is completed, ASCII code 1 is returned.

Syntax \*OPC? Example \*OPC? -> 1

Description • For the description regarding how to synchronize the program using \*OPC, see page 4-8.

- The COMMunicate:OPSE command is used to specify the overlap command.
- If \*OPC? is not the last command of the message, the operation is not guaranteed.

# \*OPT? (OPTion)

Description Queries the installed options.

Syntax \*OPT?

Description • Returns the memory model as well as the presence/absence of the built-in printer, Ethernet, internal hard disk, user-defined computation, power supply analysis function, and rear panel probe power.

 The "\*OPT?" query must be the last query of the program message. An error occurs if there is a query after this query.

# \*PSC (Power-on Status Clear)

Function Sets whether or not to clear the registers below at power on or queries the current setting. The register is cleared when the value rounded to an integer is a non-zero value.

- Standard event enable register
- Extended event enable register
- · Transition filter

 $\texttt{Syntax} \quad \texttt{*PSC} \ \{\texttt{<NRf>}\}$ 

\*PSC?

<NRf> = 0 (not clear), non-zero (clear)

Example \*PSC 1

\*PSC? -> 1

Description For details on the registers, see chapter 6.

## \*RST (ReSeT)

Function Initializes the settings.

Syntax \*RST
Example \*RST

Description Also clears \*OPC and \*OPC? commands that have been sent earlier.

# \*SRE (Service Request Enable register)

Function Sets the service request enable register or queries the current setting.

Syntax \*SRE <NRf>

\*SRE?

<NRf> = 0 to 255

Example \*SRE 239

\*SRE? -> 239

Description • Specify the value as a sum of decimal values of each bit.

- For example, specifying "\*SRE 239" will cause
  the service request enable register to be set
  to "11101111." In this case, bit 4 of the service
  request enable register is disabled which means
  that bit 4 (MAV) of the status byte register is not set
  to 1, even if "the output queue is not empty."
- Bit 6 (MSS) of the status byte register is the MSS bit itself, and therefore, is ignored.
- The default value is "\*SRE 0" (all bits disabled).
- A query using \*SRE? will not clear the contents of the service request enable register.
- For details on the service request enable register, see page 6-1.

# \*STB? (STatus Byte)

Function Queries the status byte register.

Syntax \*STB? Example \*STB? -> 4

Description • The sum of the bits is returned as a decimal value.

- Since the register is read without executing serial polling, bit 6 is a MSS bit not RQS.
- For example, if a value of 4 is returned, this
  indicates that the status byte register is set to
  "00000100." In this case, you can see that "the
  error queue is not empty" (an error occurred).
- A query using \*STB? will not clear the contents of the status byte register.
- For details on the status byte register, see page 6-2

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# 5.34 Common Command Group

## \*TST?

Function Performs a self-test and queries the result. The self test involves internal memory tests.

Syntax \*TST?
Example \*TST? -> 0

Description If the self-test is successful, 0 is returned. If there is an error, 1 is returned.

# \*WAI (WAIt)

Function Holds the subsequent command until the completion of the specified overlap operation.

Syntax \*WAI
Example \*WAI

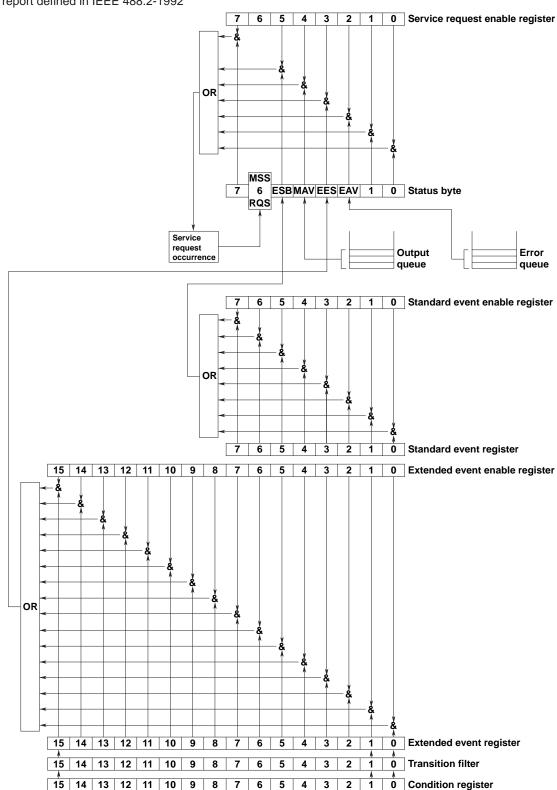
Description• For the description regarding how to synchronize the program using \*WAI, see page 4-7.

• The :COMMunicate:OPSE command is used to specify the overlap command.

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# **Status Reports**

The figure below shows the status report that is read by serial polling. This status report is an extended version of the status report defined in IEEE 488.2-1992



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# **Overview of the Registers and Queues**

Name	Functions	Writing	Reading
Status byte		-	Serial polling
			(RQS),
			*STB?(MSS)
Service request	Masks status byte	*SRE	*SRE?
enable register			
Standard event	Changes in device	_	*ESR?
register	status		
Standard event	Masks standard	*ESE	*ESE?
enable register	event register		
Extended event	Changes in	-	STATus:
register	device status		EESR?
Extended event	Masks extended	STATus:	STATus:
enable register	event register	EESE	EESR?
Condition	Current instrument	_	STATus:
register	status		CONDition?
Transition filter	Conditions that	STATus:	STATus:
	change the extended	FILTer <x></x>	FILTer <x>?</x>
	event register		
Output queue	Stores a response me	ssage to a qu	iery
	All query commands		
Error queue	Stores the error No.	_	STATus:
	and message		ERRor?

Registers and Queues That Affect the Status Byte Registers that affect the bits of the status byte are shown below.

Standard event register: Sets bit 5 (ESB) of the status byte to 1 or 0.

Output queue: Sets bit 4 (MAV) of the status byte to 1 or 0.

Extended event register: Sets bit 3 (EES) of the status byte to 1 or 0.

Error queue: Sets bit 2 (EAV) of the status byte to 1 or 0.

# **Enable Registers**

Registers that are used to mask a bit so that the bit will not affect the status byte even when it is set to 1, are shown below.

Status byte: Mask the bits using the service request

enable register.

Standard event register: Mask the bits using the standard event

enable register.

Extended event register: Mask the bits using the extended event

enable register.

# Writing/Reading from Registers

The \*ESE command is used to set the bits in the standard event register to 1's or 0's. The \*ESE? command is used to query whether the bits in the standard event register are 1's or 0's. For details regarding these commands, see chapter 5.

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# 6.2 Status Byte

# **Status Byte**

RQS
7 6 ESB|MAV|EES|EAV 1 0
MSS

Bits 0, 1, and 7
 Not used (always 0)

## • Bit 2 EAV (Error Available)

Set to 1 when the error queue is not empty. In other words, this bit is set to 1 when an error occurs. See the page 6-5.

#### • Bit 3 EES (Extend Event Summary Bit)

Set to 0 when the logical product of the extended event register and the corresponding enable register is 1. In other words, this bit is set to 1 when an event takes place inside the instrument. See the page 6-4.

#### • Bit 4 MAV (Message Available)

Set to "1" when the output queue is not empty. In other words, this bit is set to 1 when there are data to be transmitted. See the page 6-5.

# • Bit 5 ESB (Event Summary Bit)

Set to 0 when the logical product of the standard event register and the corresponding enable register is 1. In other words, this bit is set to 1 when an event takes place inside the instrument. See the page 6-3.

# Bit 6 RQS(Request Service)/MSS(Master Status Summary)

Set to 1 when the logical AND of the status byte excluding Bit 6 and the service request enable register is not 0. In other words, this bit is set to 1 when the instrument is requesting service from the controller.

RQS is set to 1 when the MSS bit changes from 0 to 1, and cleared when serial polling is carried out or when the MSS bit changes to 0.

## Bit Masking

To mask a bit in the status byte so that it does not cause an SRQ, set the corresponding bit of the service request enable register to 0.

For example, to mask bit 2 (EAV) so that service is not requested when an error occurs, set bit 2 of the service request enable register to 0. This can be done using the \*SRE command. To query whether each bit of the service request enable register is 1 or 0, use \*SRE?. For details on the \*SRE command, see chapter 5.

## Operation of the Status Byte

A service request is issued when bit 6 of the status byte becomes 1. Bit 6 is set to 1 when any of the other bits becomes a 1 (when the corresponding bit of the service request enable register is also set to 1). For example, if an event occurs and the logical AND of the standard event register and the corresponding enable register becomes a 1, then bit 5 (ESB) is set to 1. In this case, if bit 5 of the service request enable register is 1, bit 6 (MSS) will be set to 1, thus requesting service from the controller. In addition, you can also check what type of event occurred by reading the contents of the status byte.

## Reading from the Status Byte

The following two methods are provided for reading the status byte.

# • Inquiry using the \*STB? query

Making an inquiry using the \*STB? query sets bit 6 to MSS. This causes the MSS to be read. After completion of the read-out, none of the bits in the status byte will be cleared.

## Serial polling

Execution of a serial polling changes bit 6 to RQS. This causes RQS to be read. After completion of the read-out, only RQS is cleared. It is not possible to read MSS using serial polling.

#### **Clearing the Status Byte**

No method is provided for forcibly clearing all the bits in the status byte. The bits that are cleared for each operation are shown below.

 When a query is made using the \*STB? command

No bits are cleared.

- When serial polling is executed Only the RQS bit is cleared.
- When a \*CLS command is received.

When the \*CLS command is received, the status byte itself is not cleared, but the contents of the standard event register (which affects the bits in the status byte) are cleared. As a result, the corresponding bits in the status byte are cleared, except bit 4 (MAV), since the output queue cannot be emptied by the \*CLS command. However, the output queue will also be cleared if the \*CLS command is received just after a program message terminator.

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# 6.3 Standard Event Register

## Standard Event Register

# 7 6 5 4 3 2 1 0 PONURQCME EXE DDE QYERQC OPC

# • Bit 7 PON (Power ON)

Set to 1 when the power is turned ON.

• Bit 6 URQ (User Request)

Not used (always 0)

# • Bit 5 CME (Command Error)

Set to 1 when the command syntax is incorrect.

Example Incorrectly spelled command name; "9" used in octal data.

#### • Bit 4 EXE (Execution Error)

Set to 1 when the command syntax is correct but the command cannot be executed in the current state.

Example

Received a command with a parameter outside the range or attempted to output a hard copy while waveform acquisition is in progress.

#### • Bit 3 DDE (Device Dependent Error)

Set to 1 when execution of the command is not possible due to an internal problem in the instrument that is not a command error or an execution error.

# • Bit 2 QYE (Query Error)

Set to 1 if the output queue is empty or if the data is missing even after a query has been sent.

Example No response data; data is lost due to an overflow in the output queue.

# • Bit 1 RQC (Request Control)

Not used (always 0)

# • Bit 0 OPC (Operation Complete)

Set to 1 when the operation designated by the \*OPC command (see chapter 5) has been completed.

#### Bit Masking

To mask a bit in the standard event register so that it does not cause bit 5 (ESB) of the status byte to change, set the corresponding bit in the standard event enable register to 0. Refer to Chapter 4.

For example, to mask bit 2 (QYE) so that ESB will not be set to 1, even if a query error occurs, set bit 2 of the standard event enable register to 0. This can be done using the \*ESE command. To inquire whether each bit of the standard event enable register is 1 or 0, use the \*ESE?. For details on the \*ESE command, see chapter 5.

## **Operation of the Standard Event Register**

The standard event register is provided for eight different kinds of event which can occur inside the instrument. Bit 5 (ESB) of the status byte is set to 1 when any of the bits in this register becomes 1 (or when the corresponding bit of the standard event enable register becomes 1).

# Example

- 1. A query error occurs.
- 2. Bit 2 (QYE) is set to 1.
- 3. Bit 5 (ESB) of the status byte is set to 1 if bit 2 of the standard event enable register is 1.

It is also possible to check what type of event has occurred inside the instrument by reading the contents of the standard event register.

## Reading from the Standard Event Register

The contents of the standard event register can be read by the \*ESR command. After the register is read, it is cleared.

# **Clearing the Standard Event Register**

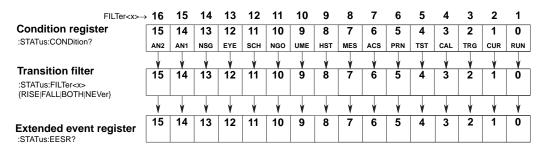
The standard event register is cleared in the following three cases.

- When the contents of the standard event register are read using the \*ESR command.
- When a \*CLS command is received.
- When the instrument is power cycled.

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# 6.4 **Extended Event Register**

Reading the extended event register tells you whether changes in the condition register (reflecting internal conditions) have occurred. A filter can be applied which allows you to decide which events are reported to the extended event register.



# The meaning of each bit of the condition register is as follows:

Bit 0	RUN (Running)	Set to 1 while waveform acquisition is in progress.
Bit 1	CUR (Cursor)	Set to 1 during cursor measurement.
Bit 2	TRG (Awaiting trigger)	Set to 1 when waiting for a trigger.
Bit 3	CAL (Calibration)	Set to 1 while calibration or serial auto setup is in progress.
Bit 4	TST (Testing)	Set to 1 while self-test is in progress.
Bit 5	PRN (Printing)	Set to 1 while the built-in printer is operating, while data is being output to an external printer (USB/
		network), or while screen image data is being saved.
Bit 6	ACS (Accessing)	Set to 1 while a storage drive is being accessed.
Bit 7	MES (Measuring)	Set to 1 when automated measurement of waveform parameters is in progress.
Bit 8	HST (History Search)	Set to 1 while history search is in progress.
Bit 9	UME (User Math Executi	ng) Set to 1 while the user-defined computation is in progress.
Bit 10	NGO (Go/No-go)	Set to 1 while GO/NO-GO search is in progress.
Bit 11	SCH (Search)	Set to 1 while search is in progress.
Bit 12	EYE(Eyediagram)	Set to 1 while Eyediagram is in progress.
Bit 13	NSG (N-Single)	Set to 1 while continuous acquisition is in progress when the trigger mode is set to single (N).
Bit 14	AN1 (Analysis1)	Set to 1 while Analysis 1 is in progress.
Bit 15	AN2 (Analysis2)	Set to 1 while Analysis 2 is in progress.

The transition filter parameters detect changes in the specified bit (numerical suffix, 1 to 16) of the condition register in the following manner and overwrite the extended event register.

RISE	The specified bit of the extended event register is set to 1 when the bit of the condition register changes from 1 to 0.
FALL	The specified bit of the extended event register is set to 1 when the bit of the condition register changes from 0 to 1.
вотн	The bit of the extended event register is set to 1 when the bit of the condition register changes from 0 to 1 or from 1 to 0.
NEVer	Always 0.

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# 6.5 Output Queue and Error Queue

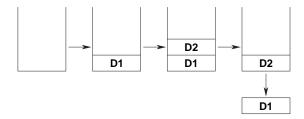
# **Output Queue**

The output queue is provided to store response messages to queries. For example, if you send the WAVeform:SEND? command, which requests the output of acquired data, the data is stored in the output queue until it is read.

As shown below, data are stored in order and read from the oldest ones first. The output queue is emptied in the following cases (in addition to when read-out is performed).

- When a new message is received from the controller.
- When a deadlock occurs (see page 4-2).
- When a device clear command (DCL or SDC) is received.
- When the instrument is power cycled.

The output queue cannot be emptied using the \*CLS command. To see whether the output queue is empty or not, check bit 4 (MAV) of the status byte.



# **Error Queue**

The error queue stores the error No. and message when an error occurs. For example, if the controller sends an incorrect program message, the error number and message "113, "Undefined header" are stored in the error queue when the error is displayed.

The STATus:ERRor? query can be used to read the contents of the error queue. As with the output queue, the messages are read from the oldest ones first. When the error queue overflows, the last message is replaced by the message "350, "Queue overflow"."

The error queue is also cleared for the following cases:

- When a \*CLS command is received.
- When the instrument is power cycled.

To see whether the error queue is empty or not, check bit 2 (EAV) of the status byte.

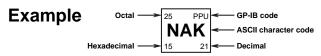
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# App

# **Appendix 1 ASCII Character Codes**

The following table shows the ASCII character codes.

	1			2		3		4			5		6	7	7
0	NUL	DEL DEL	40	SP	0 60	0 16					) 16 	140	6	160	_
	0 0	10 16	20	3	2 30	48	40		64	50	80	60	96		
1	SOH			!		1		Α		(	2		a	C	1
	1 1	11 17												71	
2	STX	DC2	42	"		2		В		ı	₹		b	162	
		12 18												72	
3		DC3		#		3		C			S		С		_
	3 3	13 19	23	3	5 33	51	43		67	53	83	63	99	73	115
4	EOT	DC4		\$	4 64	4	104	D			Τ	144	d	164 <b>1</b>	-
	4 4		_		_		_								
5	ENQ	25 PPU <b>NAK</b>		%		5		Ε		l	J			ι	J
		15 21				53	45		69	55	85				
6		SYN		&		6		F		'	<b>/</b>		f	\	/
		16 22													118
7	I	ETB		,	7 67	7		G			V		g	V	
	7 7	17 23		3	9 37	55	47		71	57	87	67	103	77	119
8	1	CAN		(		_		Н		2	X		h	<b>)</b>	(
		18 24			0 38 9 71									78 171	
9		EM		)		9		I		١	Y	151	i	<b>\</b>	/
		19 25 32													
Α	LF	SUB		*	0 72	:		J		:	Z		•	Z	Z
_	13	1A 26	53		2 3A 1 73					5A 133			106		122
В	VT	<b>ESC</b>		+		;		K			[		k	{	[
		1B 27			3 3B 2 74		4B			5B			107		
С	FF	FS		,		<		L		'	\		12		
		1C 28	_			60									124
D	<sup>15</sup> CR	35 GS	55	-	3 75	=	115	M		135	]		m	175	29
	_		2D		5 3D		_			5D		6D		7D	125
E	SO SO	RS	56	•	4 76	>	116	Ν			٨		n	176	30
	E 14		2E		6 3E		4E			5E	94			7E	126
F	SI	<sup>37</sup> US	57	<b>/</b>	5 77	?	117	0	15	137	UNT —	157	O 15	177 DE (RUB	
			2F		7 3F		4F		79	5F	95	6F	111	7F	127
	Address commands	Universal commands			ddres			Talk	er a	addres	ss	Sec	condary	comma	inds



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# **Appendix 2 Error Messages**

This section describes the error messages related to communications.

- The messages can be displayed in English or Japanese on the SB5000. However, when the messages are read from a PC or other similar computers, the messages are displayed in English.
- If servicing is required, contact your nearest YOKOGAWA dealer for repairs.
- Only error messages related to communications are listed here. For other error messages, see *User's Manual IM 701361-01E*.

Communication syntax error
 Communication execution error
 Model specific (other)
 Communication query error
 System error (communications)
 100~199
 200~299
 Details given below.
 400~499
 399

**Error in Communication Command (100-199)** 

Code	Messages	Corrective Action	Page
102	A syntax error. Syntax error.	Invalid syntax.	
103	Syridax error. <	Use a comma to separate the data.	
104	The <data> type is incorrect.  Data type error.</data>	Write using the correct data form.	
105	Device trigger function cannot be used. GET not allowed.	GET is not supported for responses to interface	messages.
108	There are too many <data>. Parameter not allowed.</data>	Check the number of data points.	
109	Required <data> is missing. Missing parameter.</data>	Enter the required data.	
111	<header separator=""> is missing. Header separator error.</header>	Use a space to separate the header and data.	
112	<mnemonic> is too long. Program mnemonic too long.</mnemonic>	Check the mnemonic (alphanumerical character string).	
113	No such command. Undefined header.	Check the header.	
114	The value of <header> is not correct.  Header suffix out of range.</header>	Check the header.	
120	The mantissa of the value is missing.  Numeric data error.	A number is required in the <nrf> form.</nrf>	
123	The exponent is too large. Exponent too large.	Use a smaller exponent for <nr3> format.</nr3>	
124	There are too many significant digits. Too many digits.	The value must be less than equal to 255 digits.	
128	Numeric data cannot be used. Enter in a format other than <nrf> format.  Numeric data not allowed.</nrf>		
131	The unit is not correct. Invalid suffix.	Check the unit of the <voltage>, <time>, <free <current="">.</free></time></voltage>	quency>, and
134	The spelling of the unit is too long. Suffix too long.	Check the unit of the <voltage>, <time>, <free <current="">.</free></time></voltage>	quency>, and
	<u> </u>		

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Code	Messages	Corrective Action Page
138	Units cannot be used. Suffix not allowed.	No units are allowed other than <voltage>, <time> <frequency>, and <current>.</current></frequency></time></voltage>
141	No such selection available. Invalid character data.	Select character data from the selections available in {  }.
144	The spelling of <character data=""> is too long. Character data too long.</character>	Check the spelling of the character strings in {  }.
148	<character data=""> cannot be used. Character data not allowed.</character>	Write in a data form other than {  }.
150	There is no delimiter to the right of <string data="">. String data error.</string>	Enclose <string> in double quotation or single quotation marks.</string>
151	The contents of <string data=""> Invalid string data.</string>	<string> is too long or contains characters which cannot be used</string>
158	<string data=""> cannot be used. are inappropriate. String data not allowed.</string>	Enter in a data format other than <character string="">.</character>
161	The data length of <block data=""> does not match. Invalid block data.</block>	<block data=""> is not allowed.</block>
168	<block data=""> cannot be used. Block data not allowed.</block>	<block data=""> is not allowed.</block>
171	There is an invalid character in the <expression data="">. Invalid expression.</expression>	Equations cannot be used.
178	<expression data=""> cannot be used. Expression data not allowed.</expression>	Equations cannot be used.
Erro	r in Communication Execution	(200 to 299)
Code	Messages	Corrective Action Page
221	There is a conflict in the setup information. Setting conflict.	Check the relevant settings.
222	The data value is outside the range.  Data out of range.	Check the range.
223	The data byte length is too long. Too much data.	Check the length of the data.
224	The data value is invalid. Illegal parameter value.	Check the range.
241	The hardware is not implemented. Hardware missing.	Check the installed options.
260	<expression data=""> is not correct.  Expression error.</expression>	Equations cannot be used.
Erro	r in Communication Query (400	0 to 499)
Code	Messages	Corrective Action Page
410	Query transmission was aborted. Query INTERRUPTED.	Check transmission/reception order.
420	There is no response that can be transmitted.  Query UNTERMINATED.	Check transmission/reception order.
430	Deadlock occurred. Aborting transmission. Query DEADLOCKED.	Limit the length of the program message including <pmt> to 1024 bytes or less.</pmt>
440	The order to request the response is not correct.  Query UNTERMINATED after indefinite response.	Do not specify a query after the *IDN? or *OPT? command.

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**Error in System Operation (399)** 

Code	Messages	Corrective Action	Page
399	Communication driver error.  Fatal error in the communication driver.	Maintenance service is required.	

Warning (50)

Code	Messages	Corrective Action	Page
50	*OPC/? is in the middle of the message.	Place the *OPC or *OPC? command at the end of the	
	*OPC/? exists in message.	program message.	

Other Errors (350)

Code	Messages	Corrective Action	Page
350	Queue overflow.	Read the error queue.	

Note

Code 350 indicates overflow of error queue. This code is returned as a response to the STATus:ERRor? query; it does not appear on the screen.

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# Appendix 3 Correspondence Table of Measure Parameter Names

Name Displayed on Setup Screen	Name Used by Communication Commands	Name on Menu of the SB5000 Screen When Displaying Measured Results
Max	MAXimum	Max
Min	MINimum	Min
High	HIGH	High
Low	LOW	Low
P-P	PTOPeak	P-P
Hi-Low	HILow	Hi-Low
+Over	POVershoot	+Over
-Over	NOVershoot	-Over
Rms	RMS	Rms
Mean	MEAN	Mean
Sdev	SDEViation	Sdev
IntegTY	TYINteg	ITY
C.Rms	CRMS	CRms
C.Mean	CMEan	CMean
C.Sdev	CSDeviation	CSdev
C.IntegTY	TYCInteg	CITY
Freq	FREQuency	Freq
1/Freq	PERFrequency	1/FR
Count	COUNt	Count
Burst	BURSt	Burst
+Width	PWIDth	+Width
-Width	NWIDth	-Width
Period	PERiod	Period
Duty	DUTYcycle	Duty
Rise	RISE	Rise
Fall	FALL	Fall
Delay	DELay	Dly

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# Appendix 4 Eye Pattern Parameter Name Table

Name Displayed on the Setup Menu of the SB5000 Screen	Name Used by Communication Commands	Name on the SB5000 Screen When Displaying Measured Results
Crossing %	PCROssing	Cross%
Eye Height	EHEight	EyeHi
Eye Width	EWIDth	EyeWid
Q Factor	QFACtor	QFact
Jitter	JITTer	Jitter
Duty Cycle Distriction %	PDUTycycle	DCDTime%
Vtop	VTOP	Vtop
Vbase	VBASe	Vbase
$\sigma$ top	SDTop	σ top
$\sigma$ base	SDBase	$\sigma$ base
Tcrossing1	T1CRossing	Tcros1
Tcrossing2	T2CRossing	Tcros2
Vcrossing	VCRossing	Vcros
Ext Rate dB	DBERate	ERdB
Rise	RISE	Rise
Fall	FALL	Fall

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# Appendix 5 Flexray Parameter Name Table

Name Displayed on the Setup Menu of the SB5000 Screen	Name Used by Communication Commands	Name on the SB5000 Screen When Displaying Measured Results
BSS Interval	BSS	BSS
FBSS Interval	FBSS	FBSS
BSS-FES Interval	BSSFES	BSS-FES
dBDRxia	DBDRXAI	dBDRxia
dBDRxai	DBDRXIA	dBDRxai
dBDRx10	DBDRX10	dBDRx10
dBDRx01	DBDRX01	dBDRx01
dRxAsym	DRXASYM	dRxAsym
dBDTx10	DBDTX10	dBDTx10
dBDTx01	DBDTX01	dBDTx01
dTxAsym	DTXASYM	dTxAsym
dBusTx10	DBUSTX10	dBusTx10
dBusTx01	DBUSTX01	dBusTx01
uBDTx	UBDTX	uBDTx
dBDTxia	DBDTXAI	dBDTxia
dBDTxai	DBDTXIA	dBDTxai
dBusTxia	DBUSTXAI	dBusTxia
dBusTxai	DBUSTXIA	dBusTxai

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<current></current>		CLEar group	
<frequency></frequency>		CLEAR key	
<rmt></rmt>		click sound	
<time></time>		clock channel (event trigger)	
<voltage></voltage>		clock channel (trigger)	
<voltage></voltage>	4-0	clock source	
		command	
A	Page	command group	
a communicate di histogram		common command	
accumulated histogram automated measurement	E 71	Common Command group	
automated measurement of waveform parameter		COMMunicate group	
calculation item		communication status function	
cursor measurement		computation	
horizontal cursor		computation reference point	
horizontal range		computation unit	
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source trace		continuous statistical processing	
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