125MHz Universal Counter/Timer

MODEL 6010

- 2 x 125 MHz independent input channels
- Optional Frequency Measurement to 1.3 GHz
- Standard TCXO stability Oscillator
- Optional high-stability Oscillator
- Bright 9 digits display; visible at any lighting condition
- Resolves frequency resolution to 8 digits in one second of gate time (with option 1)
- 10ps averaged time interval resolution (with option 1)
- 10 storable front panel set-ups

with internal 50Ω , attenuators, low-pass filters, and slope selection 13 automatic measurements, including peak signal amplitude

• Complete input conditioning on both channels,

- 50 built-in gate time intervals plus an external input, extend gate time range from 100µS to 1000s
- Standard GPIB interface

Tabor's Model 6010 is a high performance, 2-channel,125MHz Universal Counter/Timer for applications from R&D benchtop to Automatic Test Equipment. The module offers nine automatic measurement functions and has an optional 1.3GHz third input available for RF requirements. Model 6010 offers outstanding frequency range and high resolution along with numerous special features and capabilities built-in to this optimal Counter/Timer. In short, there is simply no comparable instrument on the market for such a cost-effective price.

Extremely user-friendly operation

Design approach emphasizes simplicity of operation. Numerous functions, parameters and operating modes resolved to simple, logical blocks and one keystroke operation. In fact, operation is so easy that first time users rarely require an Instruction Manual.A.T.E. EnvironmentUnusually flexible software package. With simple commands one can adapt handshake, commands and termination to designated controller.

High reliability

Each Tabor instrument is aged for at least two weeks and subsequently 100% computerized tested before shipping.

Versatility

Model 6010 is virtually a self-contained automatic test system. A non-volatile memory is capable of storing up to 10 various front panel set-ups; each dedicated to a different test procedure. Recalling a specific set-up or accessing a few set-ups is performed with pushbutton ease.

High performance trigger

In manual mode, the trigger level is programmable from -5.1V to +5.1V (-51V to +51V in X10 mode) with an exceptional resolution of 10 mV (100mV in X10 mode). An automatic trigger mode is also available covering the frequencies from 100Hz to 150MHz.

Automatic attenuation selection

Auto trigger mode automatically switches attenuator settings if the input signal exceeds 5.1Vpk-pk.

DVM Measurements

Automatic triggering is used to establish the peak voltages for setting trigger points. This feature is used to measure peak voltage levels.

Individual channel filtering

The 6010 has an independent 100kHz low pass filter on each channel to reduce input stage sensitivity when making low-frequency measurements.

High stability time base

Counter measurement stability can be improved by using an external clock or one of the two optional internal high stability time bases. The internal time base options are:

• TCXO: Standard • OCXO: Option 1a

• Rubidium: Option 4

Optional analog output

Option 3 (Analog Output) provides a high accuracy source to drive devices like chart recorders. This option is especially useful in measuring and recording the aging and temperature stability of devices like oscillators and Voltage to Frequency (V-F) converters.

Flexible Gate Time and Delay Time Control

The Model 6010 allows fine control of gate time and delay time settings with 46 pre-defined times ranging from 100ms to 10s. In addition, gate or delay may be set to any value between 100ms and 1000 seconds using an external input.





125MHz Universal Counter/Timer

Model 6010



Service and Support

Beyond providing precision Test & Measurement instruments, Tabor Electronics provides unparalleled service and support, and is continuously finding new ways to bring added value to its customers.

Our after-sales services are comprehensive. They include all types of repair and calibration, and a single point of contact that you can turn to whenever you need assistance. As part of our extensive support, we offer individualized, personal attention Help Desk, both online and offline, via e-mail, phone or fax.

Tabor Electronics maintains a complete repair and calibration lab as well as a standards laboratory in Israel and USA. Service is also available at regional authorized repair/calibration facilities.

Contact Tabor Electronics for the address of service facilities nearest you.

Applications

For expert technical assistance with your specific needs and objectives, contact your local sales representative or our in-house applications engineers.

Manuals, Drivers, and Software Support Every instrument comes equipped with a dedicated manual, developer libraries, IVI drivers, and software. However, if your specific manual is lost or outdated, Tabor Electronics makes it possible to log-on to its Download Center and get the latest data "in a click".

Product Demonstrations

If your application requires that you evaluate an instrument before you purchase it, a handson demonstration can be arranged by contacting your local Tabor Electronics representative or the Sales Department at our Corporate Headquarters.

Three-year Warranty

Every Tabor Electronics instrument comes with a three-year warrantee. Each one has full test results, calibration certificate, and CD containing product's manual and complete software package. Our obligation under this warranty is to repair or replace any instrument or part thereof which, within three years after shipment, proves defective upon examination. To exercise this warranty, write or call your local Tabor representative, or contact Tabor Headquarters and you will be given prompt assistance and shipping instructions.

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The measure of perfection









INPUT CHARACTERISTICS (CHANNELS A & B)

RANGE

0 to 125MHz DC coupled: AC coupled: 30Hz to 125MHz

SENSITIVITY (X1)

35mV rms sine wave: 0 to 100MHz 50mV rms sine wave: 100MHz to 125MHz 5ns min pulse width 100mV p-p:

SIGNAL OPERATING RANGE

X1: -5.00Vdc to +5.00Vdc X10: -50.0Vdc to +50.0Vdc

DYNAMIC RANGE (X1)

100mv - 5vp-p: 0 to 100mhz 150mv - 2.5vp-p: 100mhz to 125mhz

AC or DC, switchable Coupling:

Impedance: $1M\Omega$

Slope: Independent selection of + or - slope, switchable

Low Pass Filter: -3db nominal at 100KHz, switchable

DAMAGE LEVEL (AC or DC)

X1: DC to 2kHz - 200V (DC + peak AC) 2KHz to 100KHz

- 4 x 10E5Vrms Hz/Freq. Above 100KHz - 5Vrms DC to 20kHz - 200V

(DC + peak AC) 20KHz to 100KHz - 4x10E6 Vrms Hz/Freq. Above 100KHz - 50Vrms

Manual Attenuator: X1 or X10 nominal, switchable

AUTO TRIGGER LEVEL CHARACTERISTICS (CHANNELS A & B)

TRIGGER LEVEL RANGE

(automatic mode): -50.0 Vdc to +50.0 Vdc

FREQUENCY RANGE

DC coupled: 100Hz to 125MHz AC coupled: 100Hz to 125MHz

NOTES:

X10:

Auto trigger is disabled in the following functions: Totalize B and Frequency C.

Auto trigger function requires that a repetitive signal be present at the input connector.

AUTO ATTENUATION

Automatically enabled with Mode:

the Auto Trigger.

X10 attenuator: Automatically enabled when

either peak is greater than 5.1V or when the difference between maximum and minimum peaks

exceeds 5.1V.

Minimum amplitude: 100mV rms sine wave,

280 mV p-p

MANUAL TRIGGER LEVEL CHARACTERISTICS (CHANNEL A AND B)

RANGE

X1: -5.00Vdc to +5.00Vdc -50.0Vdc to +50.0Vdc X10:

PRESET

X1: 0.00Vdc 00.0Vdc X10:

RESOLUTION

10mV X1: X10: 100mV

SETTING ACCURACY

X1: (35mV +3% of the reading) X10: (350mV +3% of the reading)

FREQUENCY A, B MODE

Reciprocal below 10MHz and when EXT GATE mode or HOLD mode are selected. Conventional above 10MHz. The instrument automatically selects mode of operation. (10MHz above changes to 100MHz with opt 1)

RECIPROCAL FREQUENCY **MEASUREMENT CHARACTERISTICS**

0.1Hz to 125MHz LSD(1) displayed: 4 x 100 ns x frequency

gate time. e.g. min 7 digits in one second of gate time

with option 1: 4 x 10 ns x frequency

e.g. min 8 digits in one second of gate time Resolution: ±LSD (1.4 x Trig error⁽²⁾ + 2 ns) x Freq

gate time

gate time

Accuracy: ±resolution ±Time Base Error⁽³⁾ x Freq

CONVENTIONAL FREQUENCY MEASUREMENT CHARACTERISTICS

10MHz to 125MHz with option 1: 100MHz to 125MHz

LSD(1) Displayed: 4 gate time

Resolution: ±1LSD

Accuracy: ±1LSD ±Time Base error® x Freq

FREQUENCY C (AVAILABLE WITH OPTION 2 ONLY)

Mode: Reciprocal mode only Range: 50MHz to 1300MHz

LSD⁽¹⁾ Displayed: Same as for Frequency A and B Same as for Frequency A and B Resolution: Same as for Frequency A and B Accuracy:

PERIOD A, TIME INTERVAL A TO B

100ns to 10e5s Range: with option 1: 10ns to 10e4s

LSD(1) Displayed: 100ns for time less than

100s5e-9 x time for time more than 100s

with option1: 10ns for time less than

10s5e-9 x time for time

more than 10s

Resolution: ±1LSD ±start trig error(2)

±stop trig error(2)

Accuracy: ±resolution ±(Time Base

error⁽³⁾ x Time)±Trig level timing error(4) ±2ns

PERIOD A - AVERAGED (*)

Range: 8ns to 10s LSD(1) Displayed: 4 x 100ns x Period

gate time

e.g. min 7 digits in 1 second of gate time.

4 x 10ns x Period with option 1: gate time

e.g. min 8 digits in 1second of gate time.

Resolution:

±LSD ±(1.4 x Trig error⁽²⁾+ 2ns) x Period

gate time

Accuracy: ±resolution ±Time Base error(3) x Period

Number of

Periods Averaged: N = Gate time

Period







TIME INTERVAL A TO B - AVERAGED (*)

T.I A to B Range: Ons to 10s. A and B signals

must have the same

repetition rate. LSD(1) Displayed: 5 x 100ns

√N with option 1: 5 x 10ns

٧N

Resolution: ±1LSD

Accuracy: ±resolution Trig error(2)

±Time Base error⁽³⁾ x Time 2ns

Dead Time Stop to Start: 20ns minimum

Number of Samples

Averaged: N = gate time x Frequency A

RISE/FALL TIME - AVERAGED (*)

RANGE

Fast Rate: 10ns to 10ms Slow Rate: 10ns to 25ms

LSD⁽¹⁾ Displayed: Same as for T.I. A to B

Resolution: ±1LSD

±(T.I. A to B averaged accuracy) Accuracy:

±Trigger Setting Error® at 10% ±Trigger Setting error® at 90%

NUMBER OF SAMPLES AVERAGED

Fast Rate: N = 0.1s x Frequency A Slow Rate: $N = 1s \times Frequency A$

Minimum

Amplitude: 500mVp-p

Minimum Width at Peak of Signal: 20ns MINIMUM FREQUENCY Fast Rate: 100Hz Slow Rate: 40Hz

Input Mode: Automatically set to common

TRIGGER LEVEL MODE

Rise Time: Automatically set

to 10% to 90%

Slow Rate: Automatically set to 90% and 10%

PHASE A TO B - AVERAGED (*)

Range: 0 to 360° x (1 - 20ns x Freq A). Example: 0 to 359.99° at 1KHz

0 to 180.0° at 25MHz

Frequency Range: 0.1Hz to 25MHz.

A and B signals must have the same frequency.

2.5 x 100ns x 360° x (1+√N) LSD⁽¹⁾ Displayed:

gate time

or 0.01°, whichever is greater 2.5 x 10ns x 360° x (1+√N)

gate time

or 0.01°, whichever is greater

Resolution: ±1LSD

with option 1:

±resolution ±2ns x Freq A x 360° Accuracy:

±Trigger error⁽²⁾ x Freq A x 360°

VN

Number of

Cycles Averaged: N = gate time x Frequency A

Minimum

Amplitude: 100mV rms sine wave

(*) In Averaged measurements, no phase relationship is allowed between the external source to the instrument's Time Base.

TOTALIZE B

GATE MODES (*)

Infinite: Totalizing on B indefinitely Totalize by A: Totalizing on B during pulse duration on A

Totalize by AA:

Totalizing on B between a pair of two consecutive transitions of the same direction on A

0 to 10e16 -1 Totalizing Range: Frequency Range: 0 to 100MHz

Dead Time

Stop to Start(7):

20ns minimum between stop transition to the next start

transition

LSD⁽¹⁾ Displayed: 1 count of channel B input signal Resolution: 1LSD

ACCURACY

Infinite: Absolute

Totalize by A: ±pulse rep rate B x Trig⁽²⁾ error A total counts B

Totalize by AA: Same as for Totalize by A

(*) Polarity of gate transition is front panel selectable.

RATIO A/B

FREQUENCY RANGE

A: 0.1Hz to 125MHz 0.1Hz to 125MHz LSD⁽¹⁾ Displayed: 4 x Ratio

Freq A x gate time

Resolution: ±LSD Trig error B(2) x Ratio

gate time

Accuracy: Same as resolution

V PEAK A

Operation: Maximum and minimum peaks

of Channel A input signal are simultaneously displayed, each with 3 digits. Decimal points and polarity are automatically

displayed.

FREQUENCY RANGE

100Hz to 10MHz Fast rate: 40Hz to 10MHz Slow rate:

280mV p-p to 51V p-p Dynamic range:

RESOLUTION

x1: 10 mV

100mV. Attenuator is automatically x10:

activated if either the positive or the negative peaks of the input signal exceeds ±5.1V or when the peak to peak voltage exceeds

5.1V

Accuracy: ±resolution ±0.1(Vpos pk - Vneg pk) ±35mV

DELAY

Operation: Active only with Time

> Measurements first input transition opens the gate. Delay inhibits the consequent

transitions.

Internal through front panel Modes:

programming or externally applied through rear panel BNC.

Internal range: 100µs to 10µs

Preset position:

100µs to 10e5s External range: with option 1: 100µs to 10e4s

GATE TIME

Modes: Internal through front panel

programming or externally applied through rear panel BNC.

Internal range: 100µ to 10s or one period

of the input.

100µs to 1000s. Ext gate not External range:

available with Time

measurements, Totalize B and

Time Interval A to B

Preset position: External

gate delay(6):

<10µs









EXTERNAL ARMING (TRIGGER)

Operation: Arms the instrument when set

to HOLD mode.

Trigger Delay(5): < 50µs Minimum Pulse width: 10µs

EXTERNAL INPUT - GATE, DELAY, AND ARMING

Input: TTL levels, via rear panel BNC

Input Impedance: $1K\Omega$ nominal Logic: Positive true

STANDARD TCXO TIME BASE

Frequency: 10MHz

Aging Rate: < 0.1 ppm/month < 1 ppm, 0 to 50°C Stability: Line Voltage: 0.1ppm for 10% change

(short term)

Clock IN/OUT: **External Time**

Base Input:

Rear Panel BNC accepts 1, 5 or 10MHz TTL. Selected via an internal switch

Selected with an internal switch

Time Base Out: 10MHz, >2 V from a 50Ω

source

GPIB INTERFACE

Programmable

Controls:

All front panel controls except

POWER switch

Multiline Commands:

DCL, LLO, SDC, GET, GTL,

UNT, UNL, SPE, SPD

Uniline Commands:

IFC, REN, EOI, SRQ, ATN

Interface **Functions:**

SH1, AH1, T6, TE0, L4, LE0, C0,

SR1, RL1, PP0, DC1, DT1, E1

Data Output

Format Reading:

With prefix 18 ASCII characters plus terminator. Without prefix - 14 ASCII characters plus

terminator

Gate/Delay time

With prefix - 9 ASCII characters and trigger level: plus terminator or. Without prefix

- 5 ASCII characters plus

terminator

Address selection: Front panel controls. Address

is stored in a non-volatile

memory

GENERAL

Fast:

Display Rate: Normal-Approximately four measurements per s.

Hold: Single shot measurement, one measurement taken with each

press of the RESET button.

. Approximately

27 measurements per s. Arming: Each channel is armed by it's

own signal

Clears front panel display and Reset: begins a new measurement

Trigger Level Outputs:

DC Outputs via rear panel terminals, not adjusted for attenuator.

DC (X1)±50mV±5% of trigger

level reading.

Output impedance:

Accuracy:

1KΩ, 1% Display:

9 digits seven segments LED 0.56" high. 2 digits for engineering notations. Operator may select through front panel programming the number of digits to be displayed. Selection may range from 9 to 3 most

significant digits.

Decimal Point: Gate:

Automatically selected. LED indicator lights when gate

is open.

Set-ups:

Ten measurement set-ups, including trigger levels gate/delay time, input conditioning and measurement

rate may be stored in memory and subsequently recalled. When AC mains power is removed, a non-volatile memory will preserve the stored setups for a typical period of 5 years.

Operating Temperature:

0 to 40°C ambient, 0 to 80% relative humidity

Storage

temperature:

Power Requirements:

115/230Vrms±10% 48-63Hz, 40W max

-25 to 65°C

Voltage

Range Selection: Rear panel switch

Warm-up: 1 hour to rated accuracy and

87 x 210 x 390 (H x W x D) **Dimensions:** Weight: approximately 4kg EMC:

CE marked

Reliability: MTBF per MIL-HDBK-217E, 25°C, Ground Benign

Designed to meet IEC 1010-1.

Safety: UL 3111-1, CSA 22.2 #1010

Workmanship Standards: Supplied

Conform to IPC-A-610D

Accessories: Power Cord, CD containing

Operating Manual and developer libraries.

3 years standard

Warranty: **OPTIONS**

OPTION 1- X10 CLOCK MULTIPLIER

FREQUENCY

Reference: 100MHz (Internally multiplied

by 10)

Resolution: 8 digits per second

OPTION 1A - OCXO + X10 CLOCK MULTIPLIER

Aging Rate: < 0.1ppm/year Stability: **External Time**

< 0.1ppm, 0 to 50°C

Base Input:

Rear Panel BNC

accepts 1,5 or 10MHz TTL. Selected via an internal switch.

Time Base Out: 10MHz > 2V

FREQUENCY

Reference: 100MHz (Internally multiplied

by 10)

Resolution: 8 digits per second

OPTION 2 - 1.3GHz CHANNEL C

50MHz to 1.3GHz Range: Sensitivity: 25mV rms to 1.0GHz; 50mV rms to 1.3GHz

Input Impedance: 50Ω nominal

Dynamic Range: 25mV to 1 Vrms up to 1.0GHz;

50mV to 1Vrms up to 1.3GHz

Coupling:

DC to 100KHz - 15V Damage Level: (DC + peak AC)

100KHz to 1.3GHz - 5Vrms











OPTION 3 - ANALOG OUTPUT

Operation: Digital to analog converter,

provides a high resolution analog output of any three consecutive digits

Decade conversion: Any 3 consecutive digits can

be selected via front panel

programming.

Normal mode: Output is directly proportional

to display reading. 000 produces 0.00Vdc. 999 produces 9.99Vdc.

Offset Mode: Front panel programmed.

Adds an offset to obtain analog recorder scale offset.

Offset range: 0 to 9.00Vdc in 1V increments.

Output: Rear panel BNC connector

Full scale

deflection: 9.99Vdc

OPTION 4 - RUBIDIUM TIME BASE

Short term stability

(10-100s): 1x10⁻¹¹ Long term stability (1 month): 5x10⁻¹¹

Retrace (off 24 hours 1 hour warm-up): 5x10⁻¹¹

Retrace

(24 hours warm-up): 2x10⁻¹¹

Outputs: 2 Rear panel BNC connectors

DEFINITION OF TERMS

(1) LSD:

Unit value of least significant digit.
Calculation should be rounded as follows
1 to <5Hz becomes 1Hz, 5ns to <10ns
becomes 10ns etc.

(2) Trigger Error:

 $\sqrt{(e^2 + e^2)}$ seconds rms Input slew rate at trigger point

Where: ei is the rms noise voltage of the counter's input channel (250 μ V typically) e_n is the rms noise of the input signal for 125MHz bandwidth

(3) Time base error:

Maximum fractional frequency change in time base frequency due to all errors: e.g. aging, temperature, line voltage etc.

(4) Trigger Level Timing Error (x1):

18 mV ± 18 mV

Input slew rate at start Input slew rate at stop trigger point trigger point

(5) External arming (trigger) delay:

Delay from the positive going slope of the arming signal to the internal gate open signal.

(6) External gate delay:

Delay from the positive going slope of the gating signal to the internal gate open signal.

(7) Dead Time:

Minimum time between measurement which the counter is busy in performing the measurement. The counter will not at this time respond to any input transition.

ORDERING INFORMATION

MODEL 6010

125MHz Universal Counter / Timer.

OPTIONS

Option 1: x10 Time Base Multiplier
Option 1A: OCXO + x10 Time Base

Multiplier

Option 2: 1.3GHz Channel C
Option 3: Analog Output
Option 4: Rubidium Time Base

ACCESSORIES

S-Rack mount:
D-Rack mount:
Case Kit:

19" Single Rack Mounting Kit
19" Dual Rack Mounting Kit
Professional Carrying Bag

Note: Options and Accessories must be specified at the time of your purchase.



