



ROHDE & SCHWARZ

Test and Measurement
Division

Release Notes

Noise Test

Application Firmware R&S FS-K30

Release 4.50

for R&S FSP, FSU, FSQ, FSG, FSMR, FSUP
Analyzer Firmware V4.5x

New Features:

- Support for option External Mixer B21

Release Note Revision: 2

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History

Date	Rel Note Rev	Changes
31 July 2009	1	First revision for Noise Application Firmware 4.50
05 November 2009	2	Minor corrections

General Topics

Compatibility of the R&S FS-K30 Noise Application Firmware with other Firmware Releases

The following table shows the compatible versions of the basic analyzer firmware and the Noise Application Firmware:

Table of compatible versions:

R&S FS-K30 Application Firmware	R&S FSP Basic Firmware	R&S FSU Basic Firmware	R&S FSQ Basic Firmware	R&S FSMR Basic Firmware	R&S FSUP Basic Firmware	R&S FSG Basic Firmware
4.50	4.50	4.51	4.55	-	-	4.59
4.40	4.40	4.41	4.45	-	-	4.49
4.30	4.30	4.31	4.35	-	-	4.39
4.20 SP1	4.20	4.21	4.25	-	4.27	4.29
4.20	-	-	-	-	-	4.29
4.10 / 4.10 SP1	4.10	4.11	4.15	-	4.17	-
4.00	4.00	4.01	4.05	4.06	-	-
3.90	3.90	3.91	3.95	3.96	3.99/3.97	-
3.80	3.80	3.81	3.85	3.86	-	-
3.70	3.70	3.71	3.75	-	-	-
3.60	3.60	3.61	3.65	3.66 SP1	-	-
3.50	3.50	3.51	3.55	-	-	-
3.40	3.40	3.41	3.45	-	-	-
3.30	3.30	3.31	3.35	-	-	-
3.28	3.20	3.21	3.25	-	-	-
-	3.10	3.11	3.15	-	-	-

Note: For **R&S FSMR** a system memory of 512MByte is required.

For instruments, shipped with 256MByte system memory, a memory extension FSQ-B512, order number 1157.1590.02, is available.

The system memory size can be easily checked by pressing SETUP – SYSTEM INFO – STATISTICS, item "Memory size".

Firmware Update of the R&S FS-K30

Since basic firmware version 4.2x a ZIP file with the update sets of the basic system firmware and all available applications is provided. This ZIP file is available in the instruments FIRMWARE section, e.g. R&S FSU of the Service Board on GLORIS.

Please follow the steps described in the instrument's basic firmware release note to perform a complete firmware update.

Enabling the Application Firmware via License Key Code Entry

This section can be skipped if the option key was entered once.

After installing the application firmware package a license key for validation must be entered. The license key is printed either on a label on the rear panel of the instrument or delivered as a part of the R&S FS-K30 Noise application firmware package.

The key sequence for entering the license key is:

SETUP - GENERAL SETUP – OPTIONS - INSTALL OPTION

Use the numeric keypad to input the license key number and press ENTER.

- On a successful validation the message 'option key valid' will appear. The instrument will perform an automatic reboot.
- If the validation failed, the application firmware is not installed.
The most probable reason will be that the instrument is not equipped with the correct basic firmware version. Therefore a messagebox will appear asking for installation of the correct basic firmware version.

If the application firmware package was not installed prior to entering the license key code, a message will appear asking for installation of the application firmware package.

In any case please make sure that the correct basic firmware version and the application firmware package is installed prior to entering the license key code.

New Functions in version 4.50

- Support for option External Mixer B21

Improvements

None

Known Issues

The version numbers in brackets indicate the version in which the issue was observed for the first time.

IEC/IEEE Bus only

1. [V3.90] [SENSe:]CONFigure:MODE commands

[SENSe] is not optional for these commands when using the short form: "CONF:MODE" as it conflicts with the "CONFigure" subsystem.

Workaround: Do not omit SENSE for these commands.

Modified Functions

The behaviour of the following functions changed compared to earlier versions [the number in brackets indicates the firmware version that introduced the individual change]:

1. [V3.60] ASCII Trace export available
2. [V3.70] Increased number of digits in table of results
3. [V3.80] X-axis scale is configurable between RF and IF frequencies
4. [V3.80] Roll key direction is same as the spectrum analyzer
5. [V4.10] One marker is supported for noise and gain trace.
6. [V4.10] Binary trace data export supported.
7. [V4.10] Memory traces supported via SCPI.
8. [V4.10] Additional enhancement labels OVLD, EXREF, EXT, SGL and PA.
9. [V4.10] Optimized print colours.
Print functionality is using the optimized print colours for better view.
10. [V4.10] Trace Export shows all data values in one line
Trace Export function now provides useful array of data. All data values for one frequency point are displayed in the same line.
11. [V4.20] Support for new instrument model R&S FSG.
12. [V4.20 SP1] Added Print Table hardcopy functionality.
13. [V4.30] Added support for the Application recovery feature.
14. [V4.50] Support for option External Mixer B21

Modifications to the Operating Manual

The R&S FS-K30 Noise application functions are included in a separate manual set. Please refer to the following order numbers:

- 1157.2316.02 (German and English)

Modified Chapters for manual operation

None

Modified Chapters for remote operation

None

Appendix: Contact to our hotline

Any questions or ideas concerning the instrument are welcome by our hotline:

USA & Canada

Monday to Friday (except US public holidays)

8:00 AM – 8:00 PM Eastern Standard Time (EST)

Tel. from USA 888-test-rsa (888-837-8772) (opt 2)

From outside USA +1 410 910 7800 (opt 2)

Fax +1 410 910 7801

E-mail Customer.Support@rsa.rohde-schwarz.com

East Asia

Monday to Friday (except Singaporean public holidays)

8:30 AM – 6:00 PM Singapore Time (SGT)

Tel. +65 6 513 0488

Fax + 65 6 846 1090

E-mail Customersupport.asia@rohde-schwarz.com

Rest of the World

Monday to Friday (except German public holidays)

08:00 – 17:00 Central European Time (CET)

Tel. from Europe +49 (0) 180 512 42 42

From outside Europe +49 89 4129 13776

Fax +49 (0) 89 41 29 637 78

E-mail CustomerSupport@rohde-schwarz.com