

R&S®NGUx01

Release Notes

Firmware Version 04.009



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The software makes use of several valuable open source software packages. For information, see the "Open Source Acknowledgment" provided with the product.

The following abbreviations are used throughout this document: R&S®NGUx01 is abbreviated as R&SNGUx01.

PAD-T-M: 3574.3288.02/05.00/CV/1/EN

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1 Information on the current version and history

1.1 Version 03.028

Version	Improvements
03.028	<ul style="list-style-type: none">- Added Ramp for NGU- Added Arb for NGU- Added Graphical View- Added SCPI Channel List Commands Text

1.2 Version 03.043

Version	Improvements
03.043	<ul style="list-style-type: none">- Improved Fastlog- Improved Auto Range- Improved Arb

1.3 Version 03.047

Version	Improvements
03.047	<ul style="list-style-type: none">- Improved Fastlog for activated Auto Range- Improved Graphical View on overrange events and for negative values- Fixed issue with lock commands via SCPI

1.4 Version 03.055

Version	Improvements
03.055	<ul style="list-style-type: none">- Added user warning on detection of erroneous adjustment data- Harmonized fastlog sample rates with NGM (downward compatibility)- Improved robustness and determinism for instrument internal communication- Improved over current protection behavior on output on- Improved ARB behavior- Aligned adjustment with HW changes- Improved protection for sink mode operation- Improved trigger behavior and harmonize logic with NGM

1.5 Version 03.067

Version	Improvements
03.067	<ul style="list-style-type: none"> - Added current readback Auto Range configuration menu. - Added VNC remote control. - Added FTP remote file access. - Correct visualization of unit prefix for battery capacity in battery model (NGU201). - CR removed from menus (NGU401). - Improved Auto Range performance. - Set Auto Range to default "off". - DVM removed from data sources for graphical view (NGU401). - Improved "read" via SCPI for all PLC settings. - Improved save/recall device settings - Show all options enabled by an installed K0 when issuing "**opt?" via SCPI. - Improved stability for fast log. - Improved "apply" SCPI command for 2Q/4Q usage. - Enable setting of negative levels for OVP and OPP. - Enable output trigger SCPI commands without installed digital IO software option. - Improved internal impedance. - Improved OCP fuse delay on output-on event.

1.6 Version 04.000

Version	Improvements
04.000	<ul style="list-style-type: none"> - Add support for NGU411 - Improved Arb behavior - Improved protection functionality - Improved graphical view - Improved output behavior on NGU201 - Several minor improvements

1.7 Version 04.009

Version	Improvements
04.009	<ul style="list-style-type: none"> - Configurable warning before device output is switched off - Improved low impedance behavior

2 Modifications to the documentation

The current documentation is up-to-date.

3 Firmware update

3.1 Validity information

If necessary list here the material and model numbers the firmware is referring to

Device	Order Number
R&S®NGU201 2-QUADRANT SMU	3639.3763.02
R&S®NGU401 4-QUADRANT SMU	3639.3763.03
R&S®NGU411 4-QUADRANT SMU	3639.3763.04

3.2 Update Information

Firmware updates for the R&S NGUxx1 are available as download from the Rohde & Schwarz web page <http://www.rohde-schwarz.com>.

The installation file R&S NGUxx1 is named `NGU_03_091.rsu`.

Attention: Microsoft browsers (Internet Explorer and Edge) rename the RSU files automatically to ZIP files. Please rename the downloaded ZIP file back to RSU.

3.3 Updating the Firmware

To update the firmware

1. Press Menu button
2. Open Device Menu -> Device Update
3. Navigate to update file (RSU file)
4. Press "UPDATE" button

After the update to the new version, the instrument will start with preset instrument settings.

To check the installed firmware version

1. Press Menu button
2. Open Device Menu -> Device Information

The firmware version is shown in the Information dialog.

3.4 Emergency Update of Firmware

If described firmware update (3.2) did not work, please use emergency update procedure:

1. Insert an USB memory stick (FAT32) with the latest firmware update file (RSU file) downloaded from the R&S website.
 2. Press Enter (Encoder) and Output button
 3. Power up the device
 4. Wait for 5 seconds.
 5. Release Enter (Encoder) and Output button
 6. After 10 seconds the update process starts automatically
- If the emergency update did not work, please contact customer support team.

4 Recommendations on Secure Operation

The R&S NGUxx1 is designed to operate at local workplaces or in secured networks (LAN). It should not be accessible from the internet, because this is a potential security risk. As an example, attackers could misuse or damage your device.

Please always install the latest firmware.

It is highly recommended that you work closely with your IT department or system administrator to ensure compliance with your company policies when connecting devices to your company's network.

5 Customer support

Technical support – where and when you need it

For quick, expert help with any Rohde & Schwarz product, contact our customer support center. A team of highly qualified engineers provides support and works with you to find a solution to your query on any aspect of the operation, programming or applications of Rohde & Schwarz products.

Contact information

Contact our customer support center at www.rohde-schwarz.com/support or follow this QR code:



Figure 5-1: QR code to the Rohde & Schwarz support page