

R&S® NGE100B Release Notes

Firmware Version 01.57



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5601.2104.00 | Version 12 | R&S®NGE100B | **COMPANY RESTRICTED**

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®NGE100B is abbreviated as R&SNGE100B.

PAD-TM: 3574.3288.02/05.00/CI/1/EN



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1 Information on the current version and history

1.1 Version 1.20

Version	Contents
1.20	Power supply base firmware NGE100-K101: Ethernet Option NGE100-K102: Wireless LAN Option

1.2 Version 1.30

Version	Contents
1.30	NGE100-K103: Digital IO Option When changing configurations in menu, pressing "Back" key will exit configuration mode Support new fan model Beep sound is enabled when pressing "Enter", "Back" and "Menu" keys New remote control commands to save/recall device settings. *SAV; *RCL Remote control commands to configure EasyArb are available

1.3 Version 1.40

Version	Contents
1.40	Supports USB VCP connection for remote contro Supports HMExplorer desktop software Supports screen capture to USB stick or HMExplorer "Back" key cancels current setting when changing configurations in menu EasyArb can be started via "Enter" keypress on front panel Firmware update process is changed If LAN is connected, WLAN will be disconnected automatically Device general settings are recalled automatically during next startup Output performance is improved at low voltage range Virtual Keyboard layout is changed Store / Recall function is available for Digital IO and EasyArb data

1.4 Version 1.50

Version	Contents
1.50	Graphical user interface design is updated System time is set to 2018-01-01 after power on

1.5 Version 1.51

Version	Contents
1.51	Supports exporting OSA document into USB stick Remote control commands to query CV/CC status and OTP tripped status are added Navigation bug on NGE102 inside Protection menu is fixed Device name is corrected for USBTMC connection to Windows Number of EasyArb data points is retrieved correctly by remote control command EasyArb Trigger is available for selection in Digital IO only if Ch 1 is selected

1.6 Version 1.52

Version	Contents
1.52	Firmware update resets save/recall settings EasyRamp compatible with hmc804x driver for LabVIEW Faster voltage turn on behavior Unexpected output turn off is fixed Virtual Keyboard exits by pressing any key if ESC key has the focus Option key installation could show error notification despite successful installation USBTMC connection might fail if NRP-Z driver is installed

1.7 Version 1.53

Version	Contents
1.53	Reset command modified (prevent reset of USB settings and buzzer settings, clear channel history in NGE102B) Master DIO enable interface (addition to GUI & SCPI) Save/Recall for DIO changed to store individual DIO status DIO reliability enhanced (latch up effect eliminated, off state control, output trigger after logic switch)

1.8 Version 1.54

Version	Contents
1.54	Fan control optimized to remove noise Preserving of WLAN SSID names with spaces WLAN password fix for "\$" characters GUI Status bar color fix for TMV/VCP

1.9 Version 1.55

Version	Contents
1.55	Improve DIO processing Improve GUI setting performance Support new fan model Support auto detection of WLAN chip if present in the device.

1.10 Version 1.56

Version	Contents
1.56	Upgrade supports both 64bit and 32bit FC microcontroller

1.11 Version 1.57

Version	Contents
1.57	Fix upgrade issue for 2CH variant

1.12 Version 1.58

Version	Contents
1.58	FW stability improvement for increased adjustment accuracy

2 Modifications to the documentation

The latest documentation can be downloaded from the R&S NGE100B Power Supply product web page under: <http://www.rohde-schwarz.com/product/nge100b>.

3 Firmware update

The latest firmware file is available for download from the product web page:

<http://www.rohde-schwarz.com/product/nge100b>.

There are two ways to update the firmware: manually or remotely.

3.1 Validity information

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

Device	Order Number
R&S NGE102B	5601.3800.02
R&S NGE103B	5601.3800.03

3.2 Updating the firmware via GUI

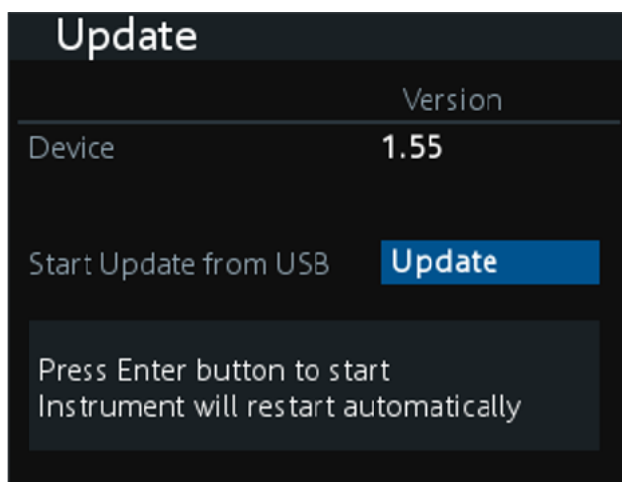
Before updating the firmware, prepare a USB stick formatted as FAT32.

2. Download firmware file from R&S NGE100B product page and unzip it. There are two installation files after unzip. The file names are NGE100FWRelease.tar.gz.enc and NGE100FWRelease.fwp.

3. Copy the two files into the base directory of a USB flash drive. Do not rename these files.

4. Insert the USB flash drive into the front USB port of the instrument and wait for a few seconds to initialize USB connection.

5. Press the Menu key to activate the instrument's setup menu. Select "Utilities → Update" menu item. Current firmware version will be shown on screen. If firmware file is found, the R&S NGE100B displays the "Update" button (see figure below).



6. Press Enter key to start firmware update process. The instrument will reboot automatically as part of the update process.
7. Press Enter key to start firmware update when prompt. Alternatively, press Back button to cancel.
8. Wait for the completion of the update process. Do not operate the instrument while firmware is updating.

3.3 Updating the firmware via SCPI

1. Before updating the firmware, prepare a USB stick formatted as FAT32.
2. Download firmware file from R&S NGE100B product page and unzip it. There are two installation files after unzip. The file names are NGE100FWRelease.tar.gz.enc and NGE100FWRelease.fwp.
3. Copy the two files into the base directory of a USB flash drive. Do not rename these files.
4. Insert the USB flash drive into the front USB port of the instrument and wait for a few seconds to initialize USB connection.
5. Connect to the instrument remotely via USB, LAN or WLAN.
6. Send the following SCPI command to start firmware update remotely:
DIAGnostic:SERVice:FWUP "NGE100FWRelease.tar.gz.enc"
7. The R&S NGE100B reboots automatically as part of the update process.
8. Wait for the completion of the update process. Do not operate the instrument while firmware is updating.

3.4 General Notes

The firmware update process takes 2 - 3 minutes to complete.

If update process completes successfully, the instrument will show green message. Power cycle the instrument to start using the new firmware.

In case update process fails, power cycle the instrument and try to update again.

4 Recommendations on Secure Operation

The R&SNGE 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