

R&S® NGE100B Power Supply Series

Release Notes

Firmware Version 1.54

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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® NGE100B Power Supply Series is abbreviated as R&S NGE100B Power Supply Series.

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1 Information on the Current Version and History

1.1 Version

Firmware package contents

| Version | Contents |
|---------|---|
| 1.54 | firmware update files: <ul style="list-style-type: none"> · NGE100FWRelease.tar.gz.enc · NGE100FWRelease.fwp |

New Functionality

| Version | Functions |
|---------|-----------|
| | |

The following table lists modifications, which were introduced in earlier versions, and indicates the version in which the modification was introduced:

| Version | Functions |
|---------|--|
| 1.20 | Power supply base firmware |
| 1.20 | NGE100-K101: Ethernet Option |
| 1.20 | NGE100-K102: Wireless LAN Option |
| 1.30 | NGE100-K103: Digital IO Option |
| 1.40 | Supports USB VCP connection for remote control |
| 1.40 | Supports HMExplorer desktop software |
| 1.40 | Supports screen capture to USB stick or HMExplorer |
| 1.51 | Supports exporting OSA document into USB stick |

Modified Functionality

| Version | Functions |
|---------|-----------|
| | |

The following table lists modifications, which were introduced in earlier versions, and indicates the version in which the modification was introduced:

| Version | Functions |
|---------|--|
| 1.20 | None |
| 1.30 | When changing configurations in menu, pressing "Back" key will exit configuration mode |
| 1.30 | Beep sound is enabled when pressing "Enter", "Back" and "Menu" keys |
| 1.40 | "Back" key cancels current setting when changing configurations in menu |
| 1.40 | EasyArb can be started via "Enter" keypress on front panel |
| 1.40 | Firmware update process is changed |
| 1.40 | If LAN is connected, WLAN will be disconnected automatically |

| Version | Functions |
|---------|--|
| 1.40 | Device general settings are recalled automatically during next startup |
| 1.50 | Graphical user interface design is updated |
| 1.50 | System time is set to 2018-01-01 after power on |
| 1.52 | Changed unit from [ms] to [s] for input parameter for EasyRamp duration and fuse delay |
| 1.52 | Firmware update resets save/recall settings |
| 1.53 | Reset command modified (prevent reset of USB settings and buzzer settings, clear channel history in NGE102B) |
| 1.53 | Master DIO enable interface (addition to GUI & SCPI) |
| 1.53 | Save/Recall for DIO changed to store individual DIO status |

Improvements

| Version | Improvements |
|---------|---|
| 1.54 | Fan control optimized to remove noise |
| 1.54 | Preserving of WLAN SSID names with spaces |
| 1.54 | WLAN password fix for "\$" characters |
| 1.54 | GUI status bar color fix for TMC/CP |

The following table lists modifications, which were introduced in earlier versions, and indicates the version in which the modification was introduced:

| Version | Improvements |
|---------|---|
| 1.20 | None |
| 1.30 | New remote control commands to save/recall device settings. *SAV; *RCL |
| 1.30 | Remote control commands to configure EasyArb are available |
| 1.40 | Output performance is improved at low voltage range |
| 1.40 | Virtual Keyboard layout is changed |
| 1.40 | Store / Recall function is available for Digital IO and EasyArb data |
| 1.51 | Remote control commands to query CV/CC status and OTP tripped status are added |
| 1.51 | Navigation bug on NGE102 inside Protection menu is fixed |
| 1.51 | Device name is corrected for USBTMC connection to Windows |
| 1.51 | Number of EasyArb data points is retrieved correctly by remote control command |
| 1.51 | EasyArb Trigger is available for selection in Digital IO only if Ch 1 is selected |
| 1.52 | EasyRamp compatible with hmc804x driver for LabVIEW |
| 1.52 | Faster voltage turn on behavior |
| 1.52 | Unexpected output turn off is fixed |
| 1.53 | DIO reliability enhanced (latch up effect eliminated, off state control, output trigger after logic switch) |

Known Issues

| Version | Known-Issues |
|---------|--------------|
| | |

The following table lists modifications, which were introduced in earlier versions, and indicates the version in which the modification was introduced:

| Version | Known-Issues |
|---------|--|
| 1.30 | When moving the cursor towards the left from "space" key to "back" on the virtual keyboard, the cursor will skip to the "@" key. |
| 1.40 | LXI indicator shows red color if LAN is not connected |
| 1.40 | TMC indicator shows grey color after firmware update. Alternate the configuration in menu and restart the device will fix it |
| 1.52 | Virtual Keyboard exits by pressing any key if ESC key has the focus |
| 1.52 | Option key installation could show error notification despite successful installation |
| 1.52 | USBTMC connection might fail if NRP-Z driver is installed |

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>.

3.1 Validity Information

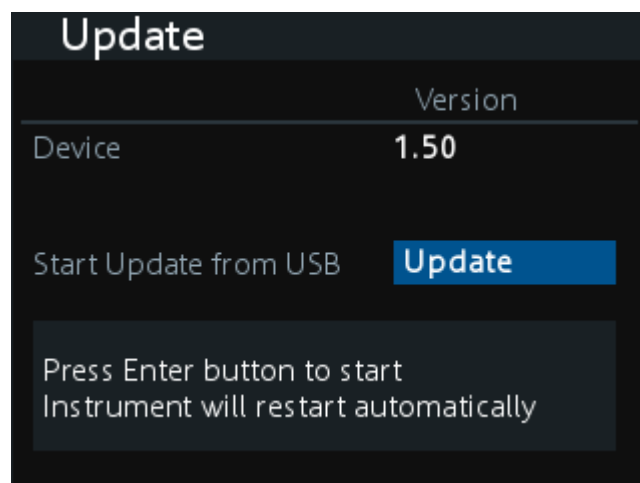
The installation file is valid for both NGE102B and NGE103B.

3.2 Updating the Firmware

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

3.2.1 Manual Installation via GUI

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. 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.

3.2.2 Remote Installation 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.

3.2.3 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 Customer Support

Technical support – where and when you need it

For quick, expert help with any Rohde & Schwarz equipment, contact one of our Customer Support Centers. A team of highly qualified engineers will provide telephone support and will work with you to find a solution to your query on any aspect of the operation, programming or applications of Rohde & Schwarz equipment.

Up-to-date information and upgrades

To keep your instrument up-to-date and to be informed about new application notes related to your instrument, please send an e-mail to the Customer Support Center stating your instrument and your wish. We will take care that you will get the right information.

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