

LabVIEW driver history for the R&S® Power Supplies NGL / NGM / NGP / NGU

Products:

| R&S®NGL



| R&S®NGU



| R&S®NGM



| R&S®NGP



Driver history for LabVIEW

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1 Supported Instruments

In the following table, the supported R&S instruments and firmware versions are listed:

NGL20x	3.034	
NGM20x	3.034	
NGP8xx	2.011	
NGUx01	3.047	First supported firmware

2 Installation of the LabVIEW driver

Before you start the installer, please close your LabVIEW application.

2.1 Installation on a Windows machine

The driver is distributed as WinZip self-extracting executable file. Installer supported operation systems: WinXP, Win7, Win8, Win10.

Preconditions:

- LabVIEW 2010 or newer installed
- Any VISA installed – R&S VISA 5.5.4 or newer / NI VISA 10.0 or newer

When you start the driver WinZip installer, it performs the following steps:

1. Unpacking of the driver's **instr.lib** and **user.lib** directories content as well as the **Installer.vi** into a temporary folder: **C:\temp\rsgnx-lv-1.3.0**
The driver is compiled in LabVIEW 2015 64-bit. From there you can copy it to another location or run the **Installer.vi** manually later. The content of the temporary folder is not deleted after the installation is finished. Starting the same installation again will overwrite all the data in that temporary folder.
2. After unpacking, the **Installer.vi** automatically starts in the last opened version of LabVIEW. In case you have more than one version of LabVIEW installed on your machine, make sure that the last opened LabVIEW version is the one in which you want to install the driver. If that is not the case, cancel the installation, open and close your desired LabVIEW version and run the installer again. You can have the driver installed parallel for more LabVIEW versions by repeating the installation process for each desired version.
3. On the installer options page you can change the location of the **instr.lib** part of the driver. **user.lib** part must be placed in the default location, otherwise the Express VI configuration will not properly function.
Hitting **Next** button will first delete the old driver (if it existed), copy the new driver and mass-compile it.
4. If you have an older rsidr_toolbox, the installer updates it to the last version.
5. The LabVIEW is closed and after starting it again, the driver is ready for use.

2.2 Installation on a non-Windows machine

In case you would like to install the driver on a non-Windows machine, use a Windows machine to start the driver's WinZip self-extracting executable file. **This machine does not need to have LabVIEW installed.**

After the **Step 1** (see the chapter 2.1), copy the content of the temporary folder to your target machine and start the **Installer.vi** manually.

From that point onwards, the installation process is the same as described in Steps 2, 3, 4 and 5.

3 LabVIEW driver history

rsngx Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
1.3.0	03/2021	<ul style="list-style-type: none"> * Added support for new instrument NGU * Update for firmware version 3.0 * New core 6.72.0 * All Front Panels reworked to Silver-style controls * New: <ul style="list-style-type: none"> - Configure Voltage Current Negative.vi - Configure Voltage Negative.vi - Configure Source Priority Mode.vi - Configure Number Of Power Line Cycles.vi - Configure Modulation Gain.vi - Query Measurement Data DVM.vi - Configure Energy Counter Unit.vi - Query Measurement Statistics Data All.vi - Configure Fast Log Target.vi - Configure Arbitrary Control.vi - Configure Digital IO Fault Signal.vi - Configure Digital IO Output Signal.vi - Configure Battery Simulator Limits.vi - Configure Battery Model Limits.vi - Configure Interface USB Class.vi * Updated: <ul style="list-style-type: none"> - Configure Fast Log Settings.vi - sample rate - Configure Digital IO Fault.vi - source mode - Configure Trigger Settings.vi - Output channel
1.2.0	03/2020	<ul style="list-style-type: none"> * Added support for new instrument NGP800 * Using driver core 6.60.0.110 * Added support for Tracking, Block, Analog Input, Adjustment, Digital Trigger IO, Communications, Sound * New: <ul style="list-style-type: none"> - Configure Output Remote Sense Detection.vi - Query Output Remote Sense Detection.vi - Reset OCP.vi - Configure OCP Fuse.vi - Configure OCP Fuse Initial Delay.vi - Configure OCP Fuse Linking.vi - Query OCP Linked Fuses List.vi

rsngx Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - Query OCP Fuse Tripped.vi - Reset OCP Fuse.vi - Reset Protection Tripped State.vi - Configure Log Location.vi - Configure System Touch Enabled.vi - Configure Sound Beeper Settings.vi - Get Sound Beep.vi * Updated: - Query Measurement Statistics Data.vi - Help updated
1.1.0	07/2019	<ul style="list-style-type: none"> * Update for firmware version 2.0 * Added support for Fast Log, Digital I/O and Battery Simulator subsystems. * New: - Configure Output Mode.vi - Configure Output Trigger Settings.vi - Configure DVM Measurement Settings.vi - Query Measurement Statistics Data.vi - Reset Measurement Statistics.vi - Query Measurement Count.vi - Configure Trigger Settings.vi - Configure Trigger DIO Pin.vi - Query OCP Linking.vi * Modified: - Configure Fuse.vi - Replaced with Configure OCP.vi - Configure Fuse Initial Delay.vi - Replaced with Configure OCP Initial Delay.vi - Configure Fuse Linking.vi - Replaced with Configure OCP Linking.vi - Query Fuse Tripped.vi - Replaced with Query OCP Tripped.vi - Configure Arbitrary.vi - Endpoint removed * Deleted: - Configure OVP Mode.vi - Configure Channel Logging Enabled.vi - Configure Image Format.vi
1.0.0	02/2019	Initial release

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- Continuous improvement in environmental sustainability
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