

# LabVIEW driver history for the R&S® Power Supplies

R&S®HMC804x



R&S®NGE10x



R&S®NGA



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# 1 Supported Instruments

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

Which instruments are supported?		
Instrument	Supported Firmware	Remarks
HMC804x	1.400	
NGE10x	1.57	
NGA	4.008	

## 2 Revision history

### Version 2.1.1 / 01 – 2024

\* New core 7.9.0

\* Fixed:

- Fixed inconsistency of channel settings after reset.
- For NGE devices, added querying of Instrument Options.

### Version 2.1.0 / 07 – 2023

- New core 7.6.0

\* Modified:

- Query Output Mode.vi - Mode help updated
- RsHmc804x\_rngQueriedOutputMode (RSHMC804X\_ATTR\_QUERY\_MODE) - range table value changed from RSHMC804X\_VAL\_OUTPUT\_MODE\_VC - VC, to RSHMC804X\_VAL\_OUTPUT\_MODE\_CV

### Version 2.0.0 / 12 – 2021

- Added support for NGA instrument  
- New core 7.3.0

\* New:

- Configure Channel Fusion.vi
- Configure Output Mode.vi
- Query Output Mode.vi
- Configure Voltmeter Enabled.vi
- Query Voltmeter Value.vi
- System Options.vi
- System Device Foot Print.vi

## **Version 1.7.1 / 04 - 2020**

- Fixed occasional Query Interrupted error
- New Core 6.60.0
- Visa Timeout changed from 30 seconds to 10 seconds

## **Version 1.5.1 / 04 – 2018**

- Make sure you use this instrument driver with HMC804x firmware 1.400 (12/2017) or newer
- Improved performance for NGE10x and HMC804x instruments over LAN, GPIB, USB-TMC
- New driver Core 6.10

## **Version 1.5.0 / 12 – 2017**

- Initialize.vi, Initialize with Options.vi, Close.vi and Utility VIs have new VI icons
- Configure Output.vi - changed SCPI command for NGE10x models
- Configure Channel Only Enabled.vi, Configure Master Output Enabled.vi - added compatibility with NGE10x

## **Version 1.4.0 / 03 – 2017**

- \* Added support for NGE10x

## **Version 1.3.0 / 02 – 2017**

- \* New driver core version 6.3.1
- \* Fixed Query Interrupted error messages when using PCI-GPIB interface
- \* New Palette Icon
- \* All VISA resource name inputs are set to mandatory
- \* Cleaned up all Front Panels and Block Diagrams

## **Version 1.2.0 / 04 – 2016**

- \* New VIs:
  - Bin Data From File To Instrument.vi
  - Bin Data To File From Instrument.vi
  - Clear Status.vi
  - ID Query Response.vi
  - Process All Previous Commands.vi
  - Query OPC.vi
- \* Modified:
  - Configure All Output Enabled.vi - renamed to Configure Channel Only Enabled.vi, added parameter Channel

## **Version 1.0.1 / 01 – 2015**

\* Modified:

- Added support for QuickDrop SCPI command searcher
- Outputs/Selected Channel (RSHMC804X\_ATTR\_OUTPUTS\_SELECTED\_CHANNEL) - added \*WAI to force synchronization
- Outputs/Enabled (RSHMC804X\_ATTR\_OUTPUTS\_ENABLED) - added \*WAI to force synchronization
- Fixed USB-TMC communication

## **Version 1.0.0 / 02 – 2014**

\* Initial release

## 3 Installation of the LabVIEW driver

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

### Installation on a Windows machine

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

Preconditions:

- LabVIEW 2015 or newer installed
- Any VISA installed – R&S VISA 5.12.3 or newer / NI VISA 18.0 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\rsidrc804x-1v2015-2.1.0`  
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.

### 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.

# 4 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](http://www.rohde-schwarz.com/support) or follow this QR code:

