LabVIEW driver history for the R&S[®] HMP Power Supplies Family

Products:

| R&S[®] HMP40xx / 20xx



Driver history for LabVIEW

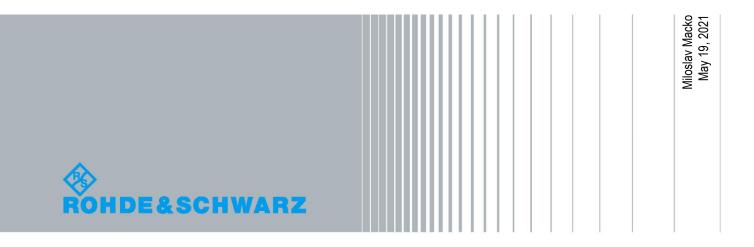


Table of Contents

1	Supported Instrument 3
1.1	Installation on a Windows machine4
1.2	Installation on a non-Windows machine5
2	LabVIEW driver history6

1 Supported Instrument

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

Which instruments are supported?					
Current revision of instrument driver supports these instruments and firmware versions:					
Instrument	Supported Firmware	Remarks			
HMP4030					
HMP4040	2.70				
HMP2020	2.70				
HMP2030					

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

1.1 Installation on a Windows machine

The driver is distributed as a 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 5.4 or newer

When you start the driver WinZip installer, the following steps are being performed:

- Unpacking of the driver's instr.lib and user.lib directories content as well as the Installer.vi into a temporary folder: C:\temp\hmp4000-lv-3.0.0 The driver is compiled in LabVIEW 2015 64-bit. From there you can copy 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 this temporary folder.
- After unpacking, the Installer.vi is automatically started 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 use the driver. If that is not the case, cancel the installation at this point, 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.
- On the installer options page you have a choice to uncheck the Masscompiling option (not recommended, because of the driver's performance penalty as well as VIs opening times) and 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 function. On this page you also see the actual LabVIEW version. Hitting Next button will first delete the old driver (if it existed), copy the new driver and mass-compile it.
- 4. The LabVIEW is closed and after starting it again the driver is ready for use.

1.2 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** from the previous chapter is finished, 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 the previous chapter Steps 2, and 3.

2 LabVIEW driver history

hmp4000 Instrument Driver					
Driver history for LabVIEW					
Revision	Date	Note			
3.0.0	05/2021	Rework all Front Panels to LabVIEW 2015 Silver-Style New Core 7.1.0			
2.6.5	02/2020	Changing repeated capability 'channel' to 'Channel', from lower case 'ch1,ch2,ch3,ch4' to upper case 'CH1,CH2,CH3,CH4' New VIs: hmp4000 Configure Over Voltage Protection Mode.vi Updated VIs: hmp4000 Configure Combined Voltage And Current.vi - using APPLy SCPI command			
2.6.2	11/2018	Optimized performance for all interfaces Fixed attributes: HMP4000_ATTR_SYSTEM_LOCAL HMP4000_ATTR_SYSTEM_REMOTE HMP4000_ATTR_SYSTEM_REMOTE_LOCK HMP4000_ATTR_SYSTEM_REMOTE_MIX			
2.6.0	04/2018	Adjusted for HMP firmware 2.62 Added USB-TMC support Optimized performance for all interfaces Help file pages now contains Open VI button.			
2.4.0	12/2017	 * Reworked all VI icons and Palette icons * VI Icon strip text changed from HMP4000 to HMP4k for better readability * New Help file format * Fixed data formatting in hmp4000 Configure Arbitrary Generator Waveform Data.vi * New VI hmp4000 Range Checking.vi 			
2.3.0	02/2017	* Changed Palette Icon and ExpressVI icon * All Express VI instances changed to new format with new context help * Corrected Palettes			
2.2.0	02/2017	 * Exchanged Driver Core 6.3.1 * Corrected Timing problems on TCPIP and RS232 * All VISA resource name inputs are mandatory * Changed Palette Icons * Cleaned up all the Front Panels and Block Diagrams 			
2.1.0	06/2016	* Improved general error handling – all errors are shown with their call chain and more detailed error elaboration. hmp4000 Error Query.vi – reads all the error entries in the query New VIs:			
		hmp4000 Remote Mode.vi			

hmp4000 Instrument Driver					
Driver history for LabVIEW					
Revision	Date	Note			
		hmp4000 Get Channel.vi			
		hmp4000 Configure General Output State.vi			
		hmp4000 Configure Output State Channel Only.vi			
		hmp4000 Bin Data From File To Instrument.vi			
		hmp4000 Bin Data To File From Instrument.vi			
		hmp4000 Clear Status.vi			
		hmp4000 ID Query Response.vi			
		hmp4000 Process All Previous Commands.vi			
		hmp4000 Query OPC.vi			
2.0.0	12/2015	Added support for HMP4030, HMP4040, HMP2000, HMP2020, HMP2030			
		Driver core updated			
1.0.0	03/2010	Initial release			

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