

LabVIEW driver history for the R&S® HMC8012 Driver Documentation

Products:

| R&S®HMC8012



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:

Which instruments are supported?		
Current revision of instrument driver supports these instruments and firmware versions:		
Instrument	Supported Firmware	Remarks
HMC8012	1.400	

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 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:

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\hmdmm-iv-1.5.0**
The driver is compiled in LabVIEW 2010 32-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 the data in this temporary folder.
2. 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's 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.
3. On the installer options page you have a choice to uncheck the **Mass-compiling** option (**not recommended, because of the driver's performance penalty as well as VIs opening times**) and also 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.

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 doesn't 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, 3, and 4.

3 LabVIEW driver history

hmdmm Instrument Driver		
LabVIEW driver history		
Revision	Date	Note
1.5.0	06/2019	<ul style="list-style-type: none"> * Driver core 6.50.0 * Included automatic repetition of a measurement when the instrument returns an invalid measured value, e.g. during changing the range in auto range mode. Affected functions: <ul style="list-style-type: none"> - Measure.vi - FetchMeasurement.vi - ReadMeasurement.vi
1.4.0	06/2017	<ul style="list-style-type: none"> * New <ul style="list-style-type: none"> - Exchanged Driver Core 6.7.1 that supports Simulation mode and Logging - ADC Rate.vi - Beeper Measurement State.vi - Threshold Measurement.vi - Temperature Measurement.vi - Data Logging.vi - Configure Data Logging.vi - Set Data Logging File Name.vi - Read Logging File Data.vi - Delete Logging File Data.vi - Get Number Of Logging Values.vi - Write Command with OPC sync.vi - Query with OPC sync.vi - Write Command.vi * Modified: <ul style="list-style-type: none"> - Measure.vi - Read Measurement.vi - Active Math Operation.vi - Measurement Function.vi - Set Range.vi - Configure.vi
1.3.0	03/2017	<ul style="list-style-type: none"> - Exchanged Driver Core 6.4.0 that supports Simulation and Logging mode - All VISA resource name inputs are mandatory - Changed Palette Icons, corrected Palettes - Cleaned up all the Front Panels and Block Diagrams
1.2.0	05/2016	<ul style="list-style-type: none"> * New <ul style="list-style-type: none"> - Clear Status.vi - ID Query Response.vi

hmdmm Instrument Driver		
LabVIEW driver history		
Revision	Date	Note
		<ul style="list-style-type: none"> - Process All Previous Commands.vi - Query OPC.vi * New attributes: - Process All Previous Commands (HMDMM_ATTR_PROCESS_ALL_PREVIOUS_COMMANDS) - Logging (HMDMM_ATTR_LOGGING) * Modified attributes: - Hardcopy Format (HMDMM_ATTR_HARDCOPY_FORMAT) - Added *WAI to SCPI command - Hardcopy Size X (HMDMM_ATTR_HARDCOPY_SIZE_X) - Added *WAI to SCPI command - Hardcopy Size Y (HMDMM_ATTR_HARDCOPY_SIZE_Y) - Added *WAI to SCPI command - ID Query Response (HMDMM_ATTR_ID_QUERY_RESPONSE) - Added empty callbacks and default value * Modified Range Tables: - HmDmm_rngTemperatureSensorType.HMDMM_VAL_SENSOR_PT100 - Description changed ("Pt 100", "") - HmDmm_rngTemperatureSensorType.HMDMM_VAL_SENSOR_PT500 - Description changed ("Pt 500", "") - HmDmm_rngTemperatureSensorType.HMDMM_VAL_SENSOR_PT1000 - Description changed ("Pt 1000", "")
1.1.0	03/2016	<ul style="list-style-type: none"> * Modified: - USB-VCP and USB-TMC support added - cosmetic changes in documentation
1.0.0	07/2013	* Initial Release

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