# LabVIEW driver history for the R&S® FPH / FPC Signal Analyzers

**Products:**

- R&S®FPH

- R&S®FPC

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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** |
| FPH | 2.40 | |
| FPC | 1.80 | |

# 2 Revision History

## Version 1.80.0 / 10 – 2023

* Support for FPH FW 2.40/FPC FW 1.80
* Updated Core to version 7.6.0
* Updated for LabVIEW 2015
* All Front Panels reworked to Silver-style controls

* New:
- Query Memory Trace Data.vi
- Configure Digital Demodulation Standard.vi
- Configure VNA Interference Suppresion.vi
- OPC Sync Write Enable.vi
- OPC Sync Query Enable.vi

* Updated:
- Data Set File Operations.vi - Added 'Save to CSV' option

## Version 1.40.0 / 08 – 2019

* Support for FPH FW 1.70/FPC FW 1.40

* New:
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  RSFPH_ATTR_CHANNEL_TABLE_SELECT
  RSFPH_ATTR_ANALOG_MODULATION_AM_MODULATION_DEPTH_RESULT
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* Updated:
- Configure Reference Level Units.vi - Range table updated
- Configure Vertical Range.vi - Range table and help updated
- Configure Trigger Source.vi - IQ Power and Gated trigger sources added
- Query Transducer Factor Units.vi - Range table updated
- Configure Trace.vi - Freeze, Infinite, and Blank trace modes added
- Configure Subtract Traces Math.vi - Updated to use RSFPH_ATTR_SUBTRACT_TRACES
- Configure ACLR Power.vi - Range table and help updated
- Configure ACLR Reference Channel.vi - Range table and help updated
- Query Detected Accessory.vi - Z44 and ZN_Z103 added to accessories
- Configure IP Address.vi - Now works
- Data Set File Operations.vi - Load dataset from PC operation added
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- RSFPH_ATTR_AMPLITUDE_UNITS - Range table updated
- RSFPH_ATTR_NUMBER_OF_SWEEPS - Range table updated
- RSFPH_ATTR_SWEEP_POINTS - No longer read only, range table added, enabled for FPH
- RSFPH_ATTR_TRIGGER_SOURCE - IQ Power and Gated trigger sources added
- RSFPH_ATTR_TRACE_TYPE - Freeze, Infinite, and Blank trace modes added
- RSFPH_ATTR_MEAS_POW_STANDARD - Now write only
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- RSFPH_ATTR_ACLR_RESULT_UNIT - Range table updated
- RSFPH_ATTR_ACLR_REFERENCE_CHANNEL_AUTOMATIC_SELECTION - Manual selection added
- RSFPH_ATTR_ACLR_TRANSMISSION_CHANNEL_AS_REFERENCE_CHANNEL - Range table added

- RSFPH_ATTR_ACLR_ALTERNATE_RELATIVE_LIMIT_CHECK - Range table added
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- RSFPH_ATTR_CHANNEL_POWER_UNIT - Range table updated
- RSFPH_ATTR_TFAC_UNIT - Range table updated
- RSFPH_ATTR_SYST_ACCESSORY - Z44 and ZN_Z103 added to accessories
- RSFPH_ATTR_INSTRUMENT_MODE - Vector network analyzer added (for FPC)
- RSFPH_ATTR_DISP_REF_POSITION - Range table updated
- RSFPH_ATTR_PWM_UNIT - Range table updated
- RSFPH_ATTR_DIGITAL_DEMODULATION_MODULATION_DEPTH_RESULT - Corrected name (was MODULAITON)

* Removed:
- Configure Status Register Format.vi

## Version 1.30.0 / 08 – 2017

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* Updated VIs:
- Set Status Register.vi - added Sync
- Get Status Register.vi - added Sync
- Data Set File Operations.vi - added 'Save dataset to PC', 'Save dataset and screenshot to PC'

## Version 1.10.0 / 09 – 2016

* 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\rssmxv-lv2015-1.80.0`**
   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
or follow this QR code: