

# USB CDC (VCP) Driver

## R&S®HMC804x

## R&S®HM01002

## R&S®HMC8012

## R&S®HMC8015

# Installation Guide



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# 1 General Information

## 1.1 Safety hints

### Notice

**All interface connections are galvanically connected to the instrument.**

**Measurement at high potentials is prohibited and endangers the instrument, the interface and all equipment connected to the interface.**

If the safety rules are disregarded, any damage to we will not take any responsibility for damage to people or R&S equipment of other make.

## 1.2 Interface Description

In addition to a LAN interface, the instrument includes an USB device port. For this interface, the user can select if the instrument is accessed via virtual COM port (VCP) or via USB TMC class. The traditional version of the VCP allows the user to communicate with the instrument using any terminal program via SCPI commands once the corresponding Windows drivers have been installed. For further information about the USB TMC class please refer to the user manual of the respective instrument.

Additionally, the free of charge software „HMExplorer“ can be used. This Windows software application provides a terminal function, a screenshot function, a software module to create arbitrary waveforms (R&S®HMC804x) as well as a software module to read-out the measured data storage (R&S®HMO1002).

### 1.2.1 USB

The interface is equipped with a Type A USB female connector. For direct connection with a host controller or an indirect connection via an USB hub, a USB cable equipped with type B male connector at one end and type A male connector at the other end is required.

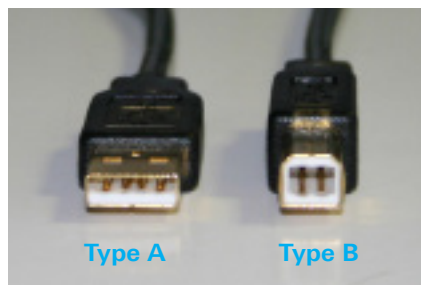


Fig. 1.1: USB type A and type B

### 1.3 Interface selection

The interface which will be used (USB or Ethernet) will be chosen and activated in the SETUP menu with the respective soft menu key. The interface parameters will be set via soft menu key PARAMETER.



Fig. 1.2: Setup menu R&S®HMC8043

## 2 USB driver Installation (VCP)

### Notice

The following requirement for USB-VCP driver installation are necessary:

1. An instrument with an activated USB-VCP interface.
2. A PC with operating system Windows XP™, VISTA™, Windows 7™, Windows 8™ or Windows 10™ (32 or 64Bit).
3. Administrator rights are necessary for the installation of the driver. If an error message regarding spelling errors appears, the rights to install the driver are not given. In this case, please contact your IT department to obtain the necessary rights.

The actual USB-VCP driver can be downloaded and extracted from the Rohde & Schwarz Website for free .

If a connection between PC and the instrument has been established and no USB-VCP driver is installed, the operating system answers with "Found New Hardware". In addition, the "Found New Hardware Wizard" is displayed. Only in this case the USB-VCP driver must be installed.

## 2.1 Driver Installation

If the window „New Hardware found“ appears, please click on „Skip downloading the driver with Windows Update“ (menu bar).

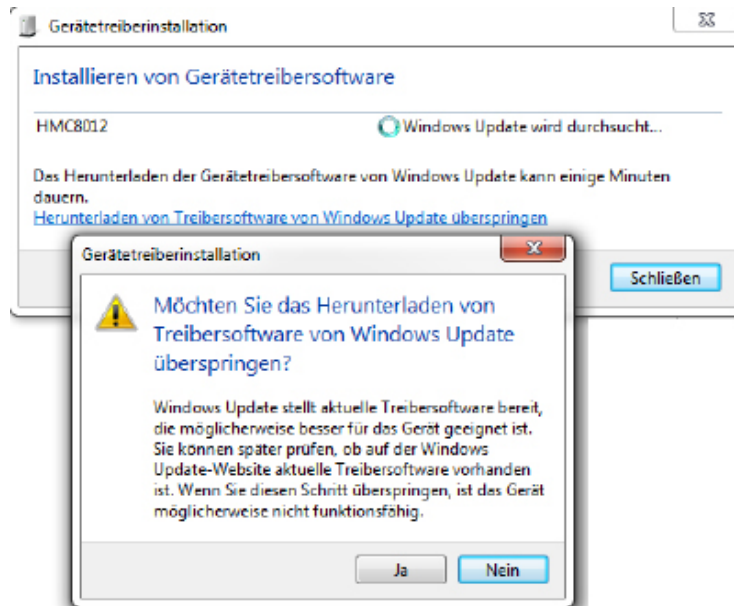


Fig. 2.1: Skip downloading driver software

If the window is disappeared, you have to open the device manager via Windows control panel --> device manager. The instrument will be displayed with a yellow exclamation mark in the PC device manager. Choose the „unknown“ instrument and update the driver software via right click.

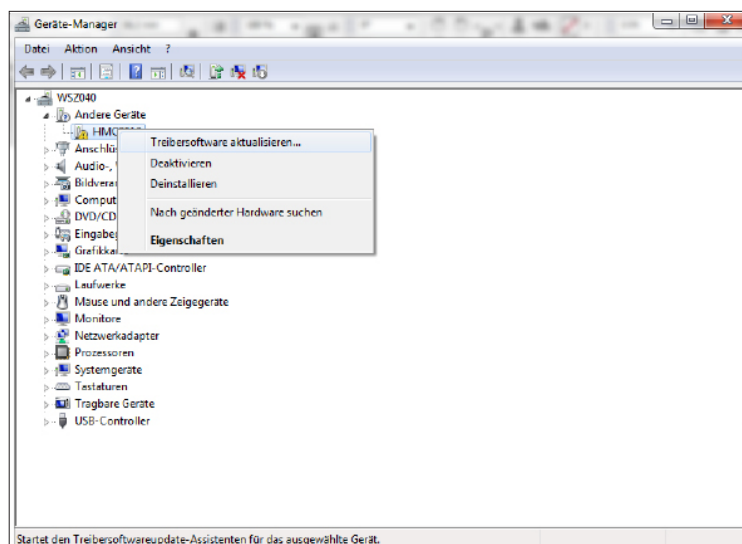


Fig. 2.2: Device manager

Choose „Browse my computer for driver software“.

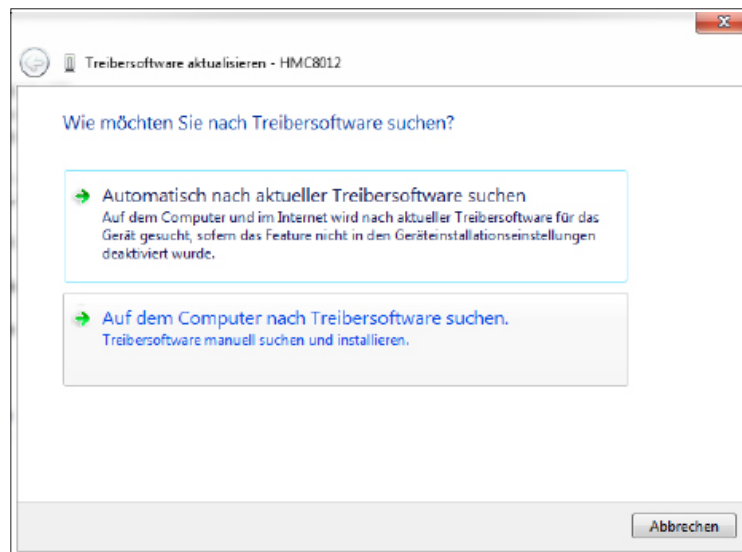


Fig. 2.3: Searching driver software

„Browse“ the respective folder where the USB VCP driver was extracted and saved. Afterwards, press „Next“.

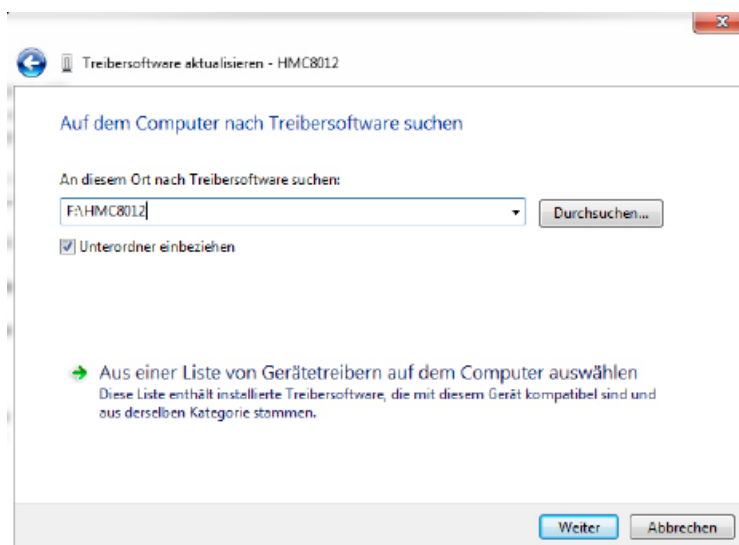


Fig. 2.4: Allocation of the driver folder

After successful installation of the USB-VCP driver the instrument will be displayed as COM connection (virtual COM port).

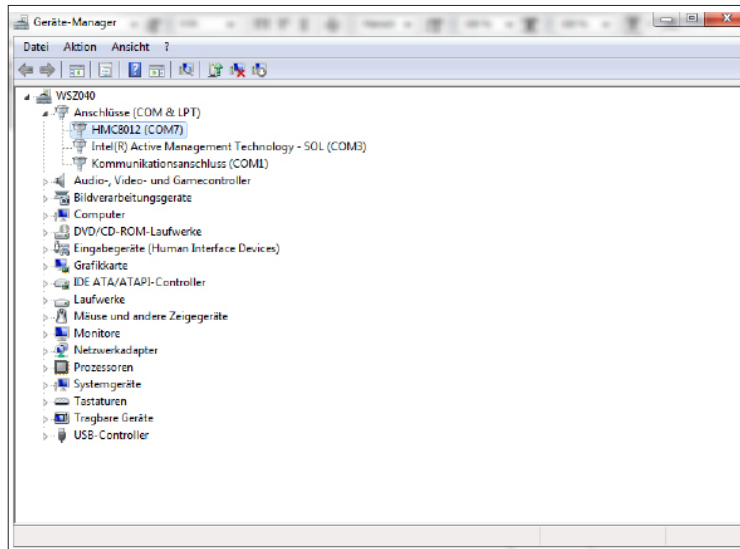


Fig. 2.5: Instrument display in the device manager as COM port

Double click on the new installed COM port will open the „Properties“ window. Choose the tab „Port Settings“ to select the RS-232 settings for the virtual COM port (including hardware / software handshake).

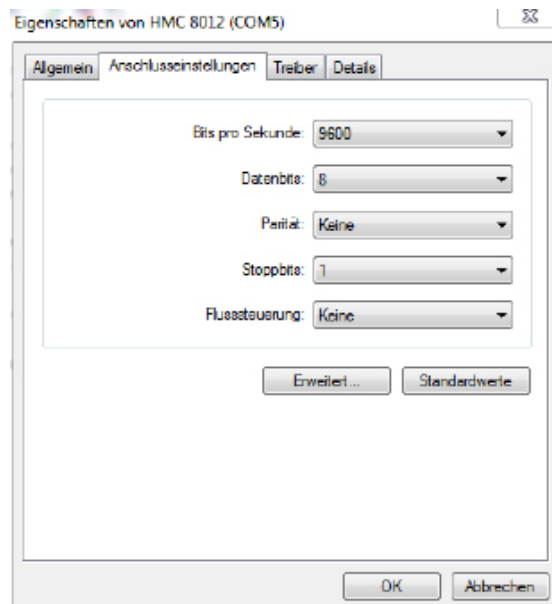


Fig. 2.6: COM port properties

Further settings may be selected via „Advanced“ tab, e.g. assignment of the virtual COM port from COM1 to COM256.

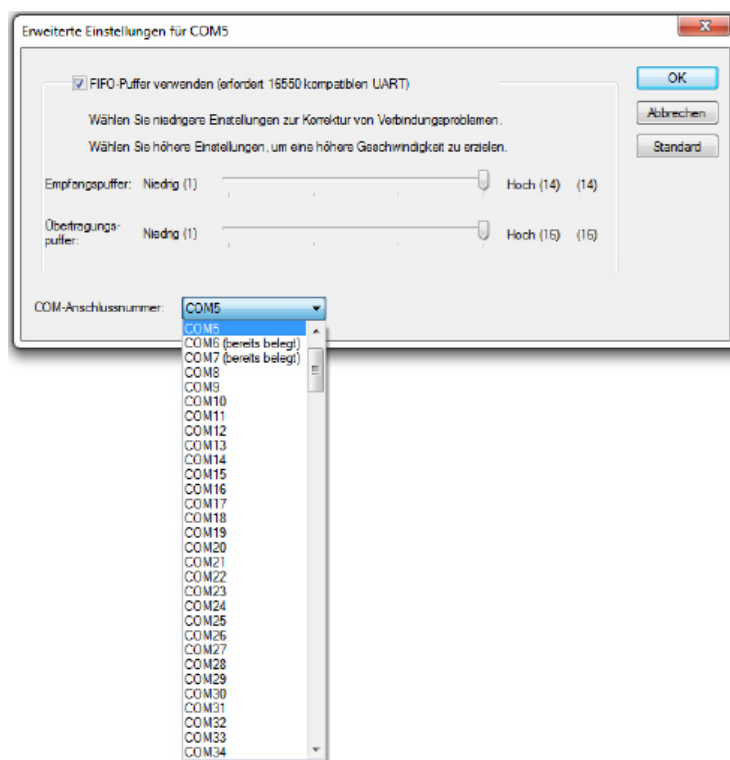



Fig. 2.7: Advanced COM port properties

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