

Technical Documentation

FAFNIR USB Adapter

Installation Guide





The FAFNIR USB Adapter is not allowed to be used inside potentially explosive areas. Installation and use must be done outside the hazardous zone.

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1 Overview

The FAFNIR USB Adapter is a device for connecting FAFNIR probes to a Windows PC/Laptop. There are 3 Adapter versions available for the following probe types:

- VISY-Stick ... FAFNIR USB Adapter (VISY-X), Art. No. 900040
- TORRIX C ... / SC ... FAFNIR USB Adapter (TORRIX), Art. No. 900185
- TORRIX RS485 ... FAFNIR USB Adapter (TORRIX RS485), Art. No. 900187

2 Safety instructions

The purpose of the FAFNIR USB Adapter is to configure FAFNIR probes with a Windows PC/Laptop. The FAFNIR USB Adapter must be used exclusively for this purpose. The manufacturer accepts no liability for any form of damage resulting from improper use.



The FAFNIR USB Adapter is not allowed to be used inside potentially explosive areas. Installation and use must be done outside the hazardous zone.

3 Scope of supply

(1)



FAFNIR USB Adapter, 2 m cable length

(2)



USB Stick with corresponding software



4 Installation

4.1 **FAFNIR USB Adapter with serial No. 210 and above**

The FAFNIR USB Adapter of our latest generation is designed to be a *Plug & Play device*. For installation the PC or laptop must have access to the internet. Connect the FAFNIR USB Adapter to your PC or laptop and the required drivers for the Windows operating system will be installed automatically after a few minutes.

For the automatic driver installation, the PC or laptop must have access to the internet.

The drivers will be installed automatically with the following Windows versions:

- Windows 7 ... (32 and 64 bit)
- Windows 8... (32 and 64 bit)
- Windows 10 ... (32 and 64 bit)

4.1.1 Automatic driver installation

(1) The automatic device driver installation must be allowed within the Windows settings under the item "Device Installation Settings". Displayed messages during the installation depend on the Windows version.

The following figures are samples for the Windows 7 installation:





(2) After connecting the FAFNIR USB Adapter to your PC/Laptop Windows detects a new device and automatically looks for the required drivers:

Driver Software Installation		×
Installing device driver sof	tware	
FT232R USB UART	Searching Windows Update	
Obtaining device driver software for Skip obtaining driver software from	rom Windows Update might take a while. n <u>Windows Update</u>	
	Clos	e

(3) Finally, the installation success will be displayed:

Driver Software Installation		X
Your device is ready to use		
USB Serial Converter USB Serial Port (COM3)	Ready to use Ready to use	
		Close

4.2 FAFNIR USB Adapter with serial No. below 210

For FAFNIR USB Adapters with serial No. below 210, the required Windows drivers must be installed manually. Please contact <u>info@fafnir.de</u> and request the drivers for installation.



Administrator privileges are required for driver installations.



Windows 10 or higher is not supported



4.2.1 Installation with Windows 8 (32/64 bit)

- With Windows 8, the "Driver Signature Verification" must be disabled!
 - (1) Open the Windows Accessories tab with the key combination [Windows keyboard button] + [x]
 - (2) Start the Command Prompt with administrative rights by a right click on the Command Prompt and "Run as administrator"

Command Pror		
	Open	
Connect to a P	Run as administrato	r
Getting Started	Open file location	
🛃 Math Input Par	Pin to Taskbar	
Notepad	Pin to Start Menu	
laint Remote Deskto	Restore previous ver	sions
🖅 Run 🙊 Spipping Tool	Send to	
 Snipping Tool Sound Recorde Sticky Notes Sync Center Windows Explo 	Cut	
	Сору	
	Delete	
Back	Rename	
100.00	Properties	

(3) To deactivate the "Driver Signature Verification" enter the command: "BCDEDIT -Set LoadOptions DDISABLE_INTEGRITY_CHECKS"

Administrator: Command Prompt Microsoft Windows [Version 6.1.7600] Copyright (c) 2009 Microsoft Corporation. All rights reserved. :\Windows\system32<mark></mark>>BCDEDIT -Set LoadOptions DDISABLE_INTEGRITY_CHECKS Confirm with the "Return" key





The successful command will be displayed.

(4) To reactivate the "Driver Signature Verification" enter the command:

"BCDEDIT -Set TESTSIGNING ON" and confirm with <Enter>

Administrator: Command Prompt	[
Microsoft Windows [Version 6.1.7600] Copyright (c) 2009 Microsoft Corporation. All righ	ts reserved.
C:\Windows\system32>BCDEDIT -Set LoadOptions DDISAB The operation completed successfully.	LE_INTEGRITY_CHECKS
C:\Windows\system32>BCDEDIT -Set TESTSIGNING ON The operation completed successfully.	
C:\Windows\system32>_	

The successful command will be displayed.

- (5) Restart the computer
- (6) For the driver installation follow the steps described with chapter: "Installation with Windows 7 (32/64 bit)"



4.2.2 Installation with Windows 7 (32/64 bit)

- (1) Plug the FAFNIR USB Stick to the USB-Port of your PC/Laptop
- (2) Plug the FAFNIR USB Adapter to the USB-Port of your PC/Laptop
- (3) Windows automatically starts the "Driver Software Installation" without success

U Driver Software Installation	×
Device driver software was not successfully installed	
USB Serial Port XNo driver found	
What can I do if my device did not install properly?	
	Close

Click on "Close"

(4) Open the Windows Device Manager

The Installation has to be done twice to install both drivers "FAFNIR USB Serial Converter" and "FAFNIR USB Adapter".

- "Update Driver Software" by a right mouse click on the "FAFNIR USB Adapter"
- "Update Driver Software" by a right mouse click on the "USB Serial Port" entry







• Select "Browse my computer for driver software

<u>ک</u> Bro	Update Driver Software - USB Serial Port owse for driver software on your computer
Sea	rch for driver software in this location:
esl	¢op\USB Treiber (für DokuButler, nicht löschen)\Driver - Treiber ▼ Browse
4	• Let me pick from a list of device drivers on my computer This list will show installed driver software compatible with the device, and all driver software in the same category as the device.

• Enter the path of the files at your USB Stick





• Confirm the Driver Software Installation even if Windows cannot verify it

Indete Drives Software USB Social Dath (COM2)	×
Update Driver Software - USB Serial Port (COMS)	
Windows has successfully updated your driver software	
Windows has finished installing the driver software for this device:	
USB Serial Port	
Close	

- After successful installation note the assigned COM port and click on "Close"
- (5) Repeat installation once again beginning with step (4) to install the second driver
- (6) Check for the Com Port of the FAFNIR USB Adapter:
- Enter <devmgmt.msc> into the command prompt (Start -> Run ...)
- Note down the assigned Com Port (here COM3)
- (7) Installation completed



4.2.3 Installation with Windows XP

Two Windows drivers need to be installed: the "FAFNIR USB Serial Converter" and the "FAFNIR USB Adapter"

- (1) Plug the FAFNIR USB Stick to the USB-Port of your PC/Laptop
- (2) Plug the FAFNIR USB Adapter to the USB-Port of your PC/Laptop
- (3) Hardware Wizard opens
- (4) Install the **FAFNIR USB Serial Converter**:

Found New Hardware Wizard		
	Welcome to the Found New Hardware Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy	
	Can Windows connect to Windows Update to search for software? Yes, this time only Yes, now and every time I connect a device No, not this time	
	< Back Next > Cancel	

Select "No, not this time" and click on "Next >".



Found New Hardware Wiz	ard
	This wizard helps you install software for:
	FAFNIR USB Serial Converter
	 If your hardware came with an installation CD or floppy disk, insert it now. What do you want the wizard to do? Install the software automatically (Recommended) Install from a list or specific location (Advanced)
	Click Next to continue.
	< Back Next > Cancel

• Select "Install from a list ..." and click on "Next >".

Found New Hardware Wizard
Please choose your search and installation options.
 Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM)
Include this location in the search:
E:\ Browse
O Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back Next > Cancel

• Select "Include this location in the search" and choose the path of the USB Stick. Click on "Next >".



Hardwa	re Installation
1	The software you are installing for this hardware: FAFNIR USB Serial Converter has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway STOP Installation

- Click on "Continue Anyway".
- Click on "Finish" when the installation of the FAFNIR USB Serial Converter is done.
- (5) Remove and reconnect the FAFNIR USB Stick and FAFNIR USB Adapter
- Again the Hardware-Wizard opens
- (6) Install the **FAFNIR USB Adapter** Software:
- A window opens asking you to install the FAFNIR USB Adapter Software.





For installing repeat the same steps as described at last item (4).

- (7) Check for the Com Port oft the FAFNIR USB Adapter:
- Start the Command Prompt (Start -> Run ...) and enter <devmgmt.msc>
- Note down the assigned Com Port (here COM3):



(8) Installation completed



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