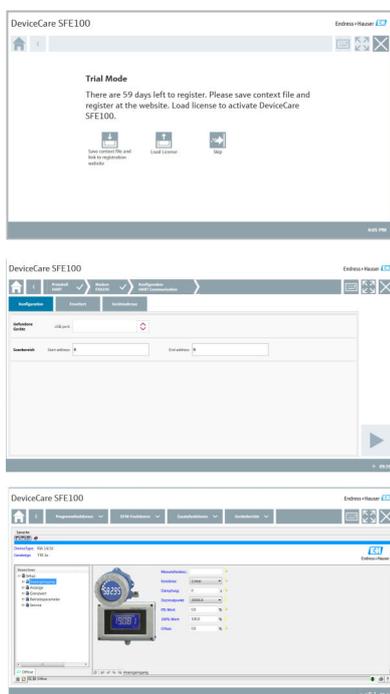


Technical Information

DeviceCare SFE100

Configuration of Endress+Hauser devices



Configuration tool for devices via fieldbus protocols and Endress+Hauser service protocols

Application

DeviceCare is the tool developed by Endress+Hauser for the configuration of Endress+Hauser devices. All smart devices in a plant can be configured via a point-to-point or point-to-bus connection. The status information given provides users with a simple yet effective tool for monitoring devices and checking their availability. Automatic functions and wizards guide the user easily through the program. The user-friendly menus enable transparent and intuitive access to the field devices.

Your benefits

- Quick and easy installation, devices connected in one click
- Automatic hardware identification and driver catalog update
- Device configuration with device type managers (DTMs)
- Multi-language support, touch-ready for tablet use
- Integrated help, wizards and event reporting
- The following communication protocols are supported: HART, PROFIBUS DP/PA, FOUNDATION Fieldbus, Ethernet/IP, Modbus, CDI and Endress+Hauser interfaces
- Hardware interfaces for modems (USB/RS232), Bluetooth, TCP/IP, USB and PCMCIA

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Document information

Safety symbols	Symbol	Meaning
		DANGER! This symbol alerts you to a dangerous situation. Failure to avoid this situation will result in serious or fatal injury.
		WARNING! This symbol alerts you to a dangerous situation. Failure to avoid this situation can result in serious or fatal injury.
		CAUTION! This symbol alerts you to a dangerous situation. Failure to avoid this situation can result in minor or medium injury.
		NOTE! This symbol contains information on procedures and other facts which do not result in personal injury.

Symbols for certain types of information	Symbol	Meaning
		Permitted Procedures, processes or actions that are permitted.
		Preferred Procedures, processes or actions that are preferred.
		Forbidden Procedures, processes or actions that are forbidden.
		Tip Indicates additional information.
		Reference to documentation
		Reference to page
		Reference to graphic
		Visual inspection

Function and system design

Function	DeviceCare is a free configuration tool for Endress+Hauser devices. It supports devices with the following protocols, provided a suitable device driver (DTM) is installed: HART, PROFIBUS, FOUNDATION Fieldbus, Ethernet/IP, Modbus, ISS, CPI, PCP and IPC. The tool is aimed at Endress+Hauser service technicians and customers without a digital network in plants and workshops. The devices can be connected directly via a modem (point-to-point) or a bus system (point-to-bus). DeviceCare is fast, easy and intuitive to use. It can run on a PC, laptop or tablet with a Windows operating system.
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System design	<p>HART point-to-point connection</p> <p>Fig. 1 shows a HART point-to-point connection with an FXA195 USB/HART modem. If an FXA195 is connected to the computer, DeviceCare can connect to the device automatically.</p>
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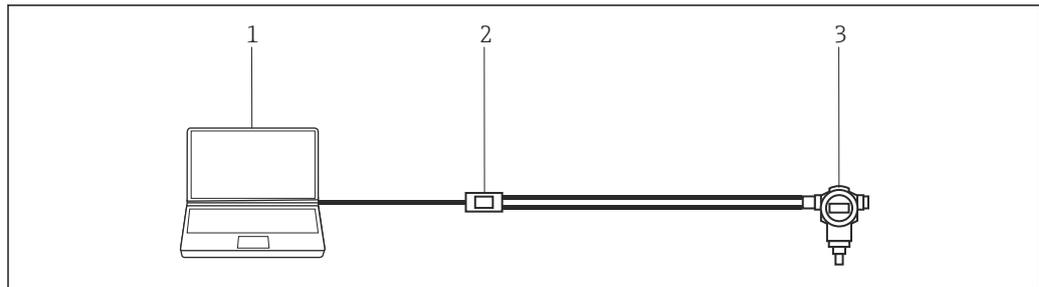


Fig. 1 Point-to-point connection with a HART field device

- 1 DeviceCare
- 2 HART FXA195
- 3 Field device

To establish communication with the HART device, a resistor of at least 250 Ω must be provided in the circuit. The way in which this is done depends upon the system architecture and power source used. Please read the FXA195 manual carefully.

PROFIBUS point-to-bus connection

Fig. 2 shows how the connection from PROFIBUS DP to PROFIBUS PA can be established using a Siemens DP/PA Link or a Pepperl+Fuchs SK3.

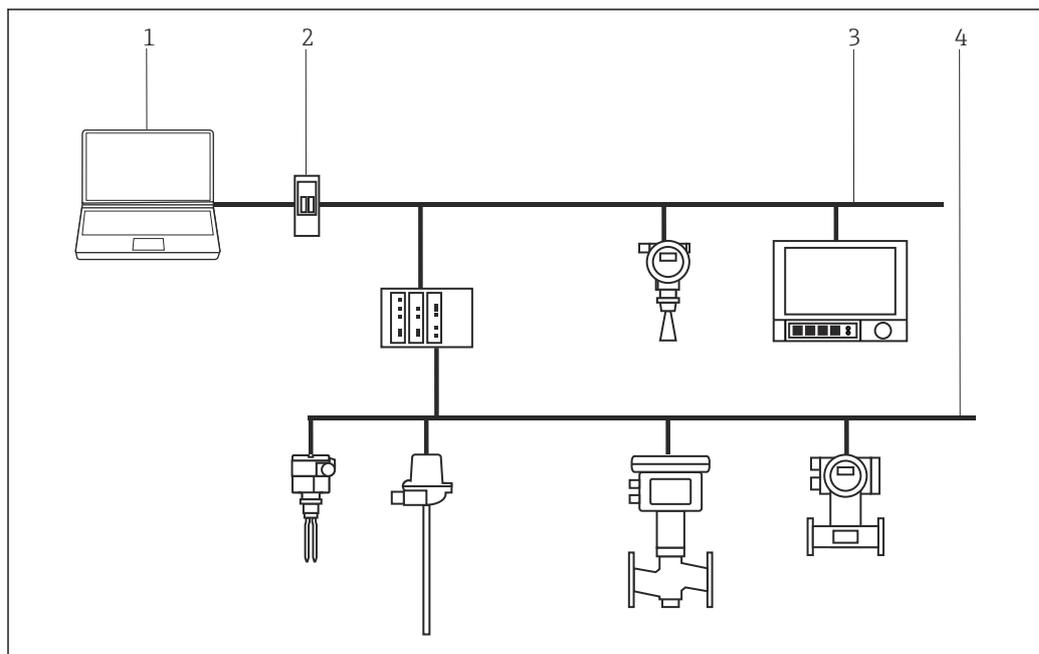
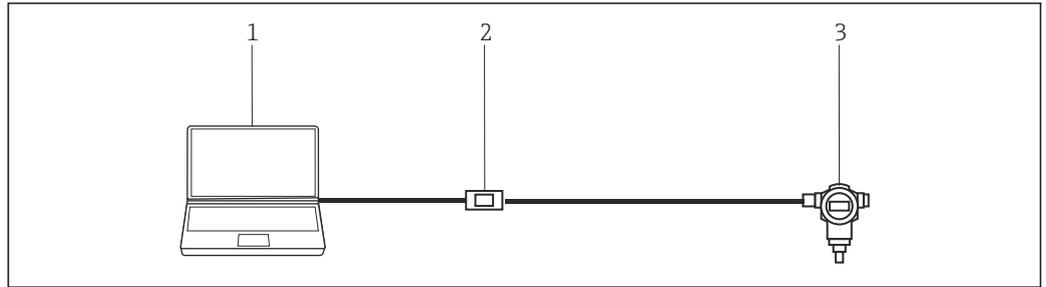


Fig. 2 PROFIBUS point-to-bus connection

- 1 DeviceCare
- 2 SFG500
- 3 PROFIBUS DP
- 4 PROFIBUS PA

CDI point-to-point connection

Fig. 3 shows a CDI point-to-point connection with an FXA291 modem. If an FXA291 is connected to the computer, DeviceCare can connect to the device automatically.



3 CDI point-to-point connection to a device

- 1 DeviceCare
- 2 CDI FXA291
- 3 Field device

System integration

System requirements

Operating system

Version	End of Microsoft support	DeviceCare support status
Windows 7 Professional SP1 (x32+x64)	January 2015	OK
Windows 7 Ultimate SP1 (x32+x64)	January 2015	OK
Windows 7 Enterprise SP1 (x32+x64)	January 2015	OK
Windows 8.1	January 2023	OK
Windows 8.1 Professional	January 2023	OK
Windows 8.1 Enterprise	January 2023	OK
Windows 10 Professional	October 2025	OK
Windows 10 Enterprise	October 2025	OK

The date indicates when standard supports ends. It is possible to extend Microsoft support by another five years.

Hardware

Position	Recommended
Processor type	Pentium IV 3 GHz CPU AMD 3 GHz CPU
Main memory (RAM)	2048 MB RAM
Required hard disk space	Approx. 600 MB
Screen resolution	1280 x 768, 64 000 colors

Software required

- Microsoft .Net 3.5
- Microsoft .Net 4.x
- PDF reader

Installed software

- DeviceCare
 - USB driver
 - CommDTMs
 - Microsoft .Net 3.5
-  ▪ The DeviceDTMs for your devices must be selected and installed by the user
- Endress+Hauser DTMs for SFG500 and SWA70 must be additionally installed
 - A PDF printer must be installed to save the device reports in PDF format
 - The DTM for Siemens DP/PA Link must be additionally installed
 - The DTM for Modbus must be additionally installed

Operability

- Standard configurable Windows graphical user interface (WPF) with icons, short cuts etc.
- Hardware: Windows PC, laptop, tablet
- Supported operating systems: Windows 7, 8, 8.1, 10 (32/64-bit)
- Connection to Endress+Hauser devices automatic or via wizard
- Choice of languages in DeviceCare: AR, CS, DE, ES, FI, FR, ID, IT, JA, KO, NL, PL, PT, RU, SA, SV, TH, TR, VI, ZH
- DTM graphical user interface and language depend on the device and supplier

Ordering Information

Detailed information about the product structure is available:

- In the Product Configurator on the Endress+Hauser website: www.endress.com → Select country → Products → Software → DeviceCare SFE100
- From the Endress+Hauser Sales Center: www.addresses.endress.com

Supplementary documentation**Plant Asset Management**

Fields of Activity FA00024S/04/EN

DeviceCare

Innovations IN01047S/04/EN

FieldCare

- Competence Brochure CP00001S/04/EN
- Getting Started BA00027S/04/EN
- Tutorial for FieldCare projects BA00065S/04/EN

Registered trademarks

PROFIBUS® is a registered trademark of the PROFIBUS User Organization, Karlsruhe/Germany.

FOUNDATION™ Fieldbus™ is the trademark of the FieldComm Group, Austin, TX 78759, USA.

HART®, WirelessHART® is the registered trademark of the FieldComm Group, Austin, TX 78759, USA.

Ethernet/IP is the registered trademark of ODVA, Michigan USA.

Modbus is the registered trademark of Modicon, Incorporated.

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