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71755808
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Technical Information
Fieldgate FXA42

System Products



Gateway for data transmission via Ethernet, WLAN or cellular radio

Application

Fieldgates make it possible to remotely interrogate connected 4 to 20 mAModbus RS485 and Modbus TCP devices, either via Ethernet TCP/IP, WLAN or mobile telecommunications (UMTS, LTE Cat M1 and Cat NB1). The measured data are processed accordingly and forwarded to SupplyCare. In SupplyCare, the data are visualized, compiled into reports and used for other inventory management tasks. However, it is also possible to access the data transmitted by Fieldgate FXA42 without any additional software using the Web browser. Comprehensive configuration and automation capabilities are available for the Fieldgate FXA42 thanks to the integrated Web PLC.

Your benefits

- Communication via Ethernet, WLAN, UMTS or LTE Cat M1 and Cat NB1
- Easy configuration without any additional software using Web browser
- Four 4 to 20 mA current inputs with integrated loop power supply
- Active/passive current input for 2-wire and 4-wire devices
- 4 digital inputs can also be used as pulse counters for flow applications
- Advanced logic functions thanks to integrated Web-PLC and communication with external systems via Modbus interface

Endress+Hauser
People for Process Automation

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About this document

Symbols

Safety symbols

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.

NOTICE
This symbol contains information on procedures and other facts which do not result in personal injury.

Electrical symbols

⏚ Ground connection
Grounded clamp, which is grounded via a grounding system.

⊥ Signal ground connection
A terminal that can be used as a ground contact for the digital input.

Communication-specific symbols

Wireless Local Area Network (WLAN)
Communication via a wireless, local area network

LED is off

LED is on

LED is flashing

Symbols for certain types of Information

Tip
Indicates additional information

Reference to documentation

Reference to another section

1., 2., 3. Series of steps

Symbols in graphics

1, 2, 3 ... Item numbers

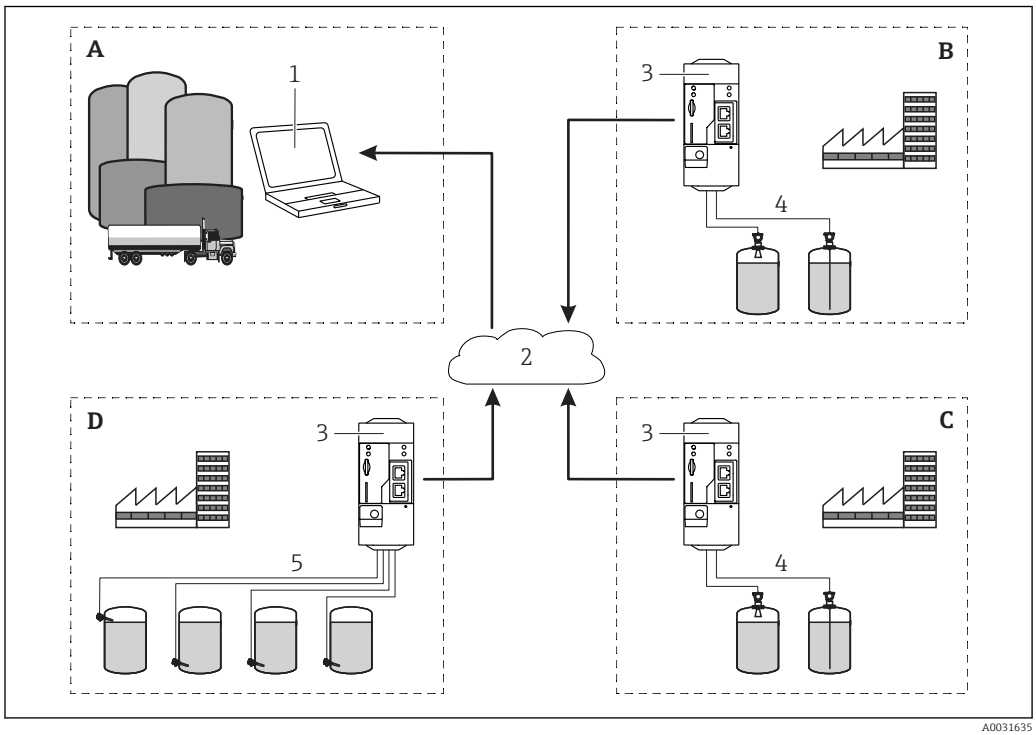
Hazardous area

Safe area (non-hazardous area)

Application

Vendor Managed Inventory

Thanks to the remote interrogation of tank or silo levels via Fieldgates, raw material suppliers can access information about current inventory levels at their regular customers' plants 24/7 and factor this information into their own production planning, for example. The Fieldgates monitor the configured level limits and automatically trigger the next delivery of product as required. The possibilities here range from simple refill requisitioning by e-mail through to fully automated order processing by incorporating XML data into the planning systems on both sides.



1 Application of a Vendor Managed Inventory

A Supplier
B Customer 1
C Customer 2
D Customer 3
1 SupplyCare Enterprise / SupplyCare Hosting (via Web browser)
2 Internet / LAN
3 Fieldgate FXA42
4 Analog 4 to 20 mA
5 Limit switch

Function and system design

IT security

Our warranty is valid only if the product is installed and used as described in the Operating Instructions. The product is equipped with security mechanisms to protect it against any inadvertent changes to the settings.

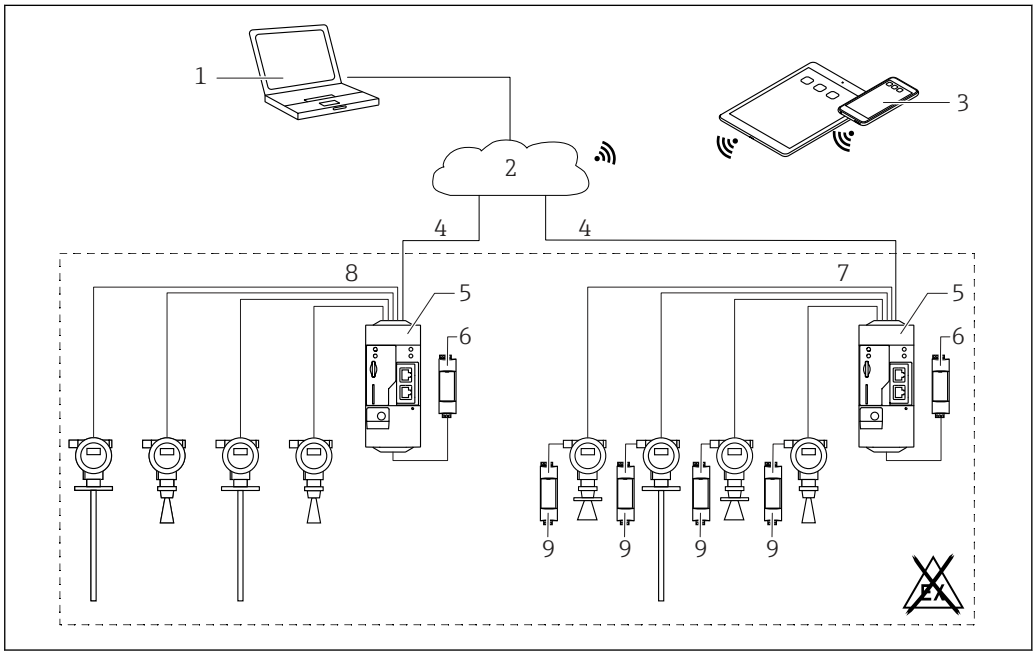
IT security measures, which provide additional protection for the product and associated data transfer, must be implemented by the operators themselves in line with their security standards.

System requirements

Internet browser	Mobile device
▪ Mozilla Firefox version 31 or higher ▪ Google Chrome version 31 or higher ▪ Microsoft Edge ▪ Internet Explorer 10 or higher	▪ Device with iOS: iOS Safari 7.1 or higher ▪ Device with Android: Android Firefox or Chrome from version 31

System design

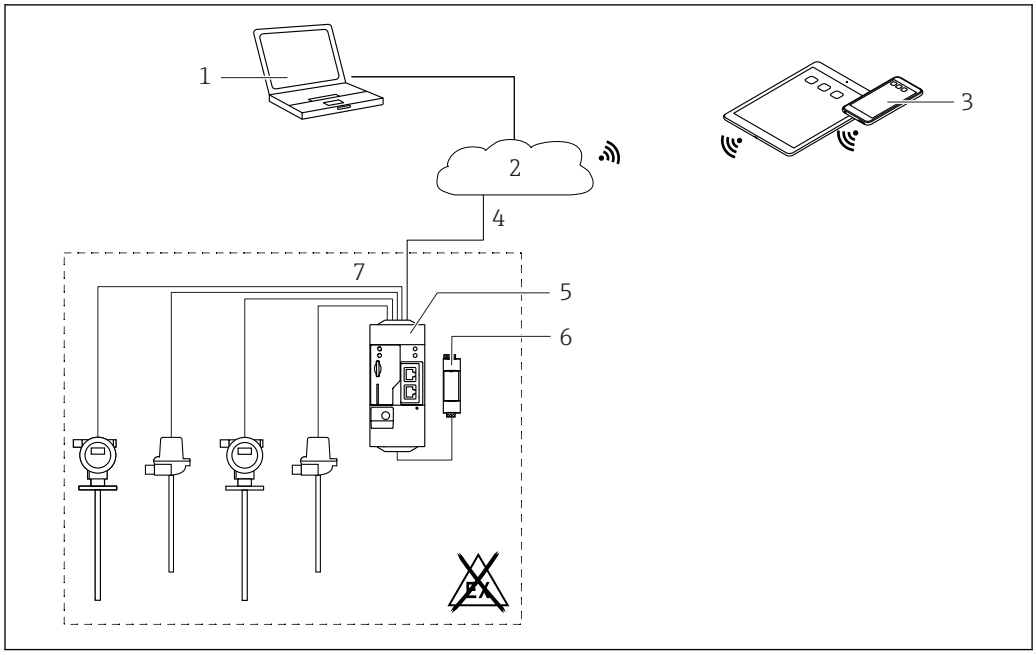
Configuration with 4 to 20 mA analog input (2-wire/4-wire)



2 *System architecture of a Fieldgate FXA42 with 4 to 20 mA analog input*

1 *SupplyCare Enterprise / SupplyCare Hosting (via Web browser)*
2 *Internet / LAN*
3 *SupplyCare Enterprise / SupplyCare Hosting on mobile devices (via Web browser)*
4 *Ethernet / WLAN / UMTS / LTE-M / LTE Cat NB1*
5 *Fieldgate FXA42*
6 *Power supply 24 V_{DC}*
7 *4 x 4 to 20 mA analog input (passive), 4-wire*
8 *4 x 4 to 20 mA analog input (active), 2-wire (loop-powered)*
9 *Measuring device power supply*

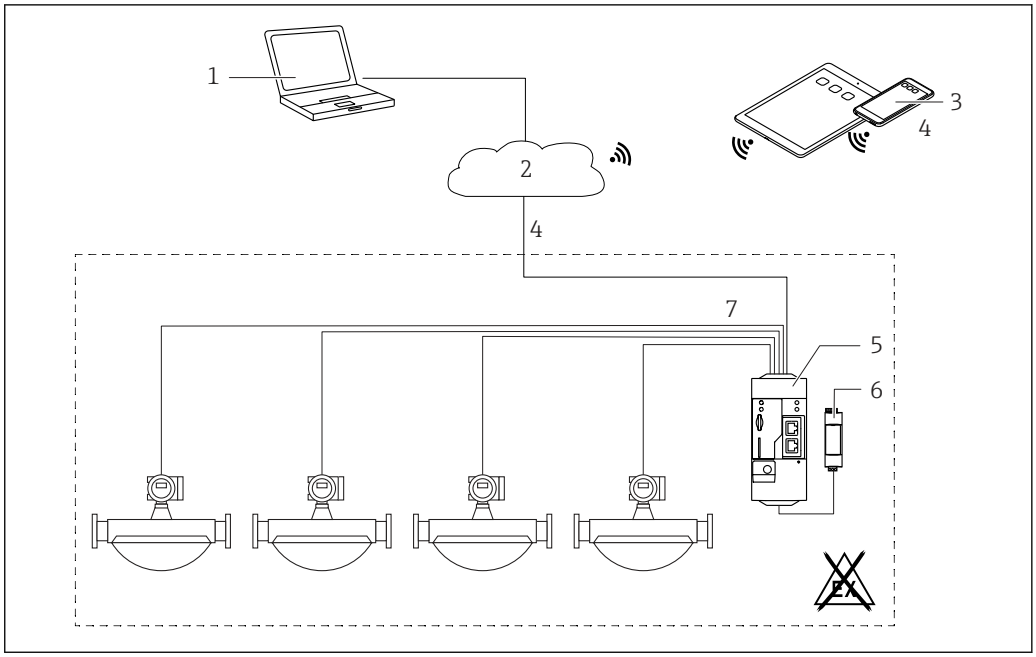
Configuration with a digital input



3 System architecture of a Fieldgate FXA42 with a digital input

1 *SupplyCare Enterprise / SupplyCare Hosting (via Web browser)*
2 *Internet / LAN*
3 *SupplyCare Enterprise / SupplyCare Hosting on mobile devices (via Web browser)*
4 *Ethernet / WLAN / UMTS / LTE-M / LTE Cat NB1*
5 *Fieldgate FXA42*
6 *Power supply 24 V_{DC}*
7 *4 x digital input and auxiliary voltage output 24 V_{DC}*

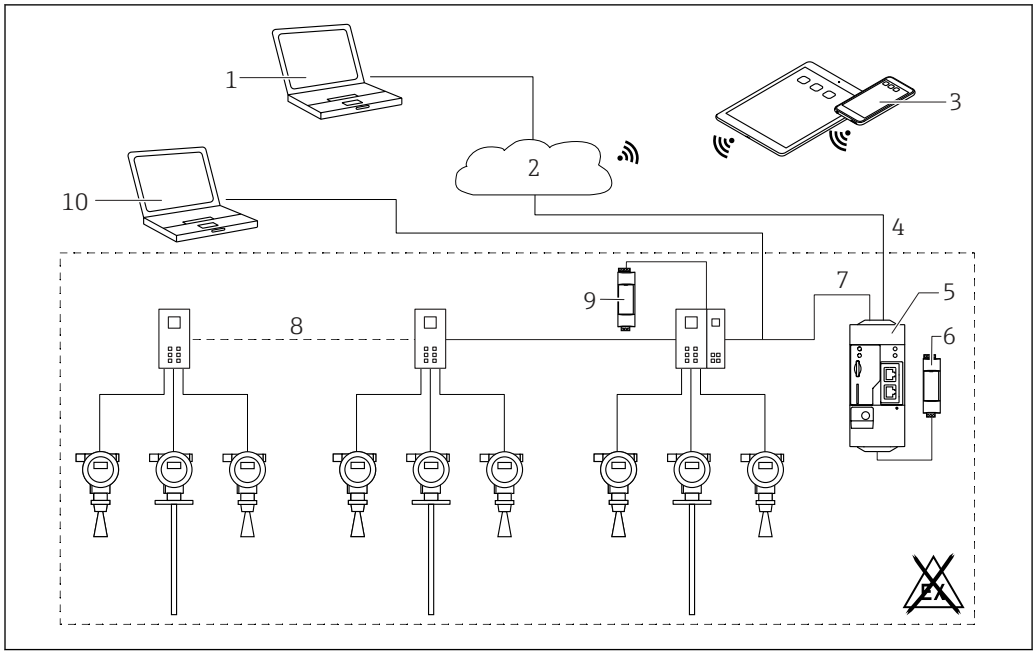
Configuration with a pulse counter



4 *System architecture of a Fieldgate FXA42 with a pulse counter*

1 *SupplyCare Enterprise / SupplyCare Hosting (via Web browser)*
2 *Internet / LAN*
3 *SupplyCare Enterprise / SupplyCare Hosting on mobile devices (via Web browser)*
4 *Ethernet / WLAN / UMTS / LTE-M / LTE Cat NB1*
5 *Fieldgate FXA42*
6 *Power supply 24 V_{DC}*
7 *4 x digital input with pulse counter*

Configuration with Modbus TCP



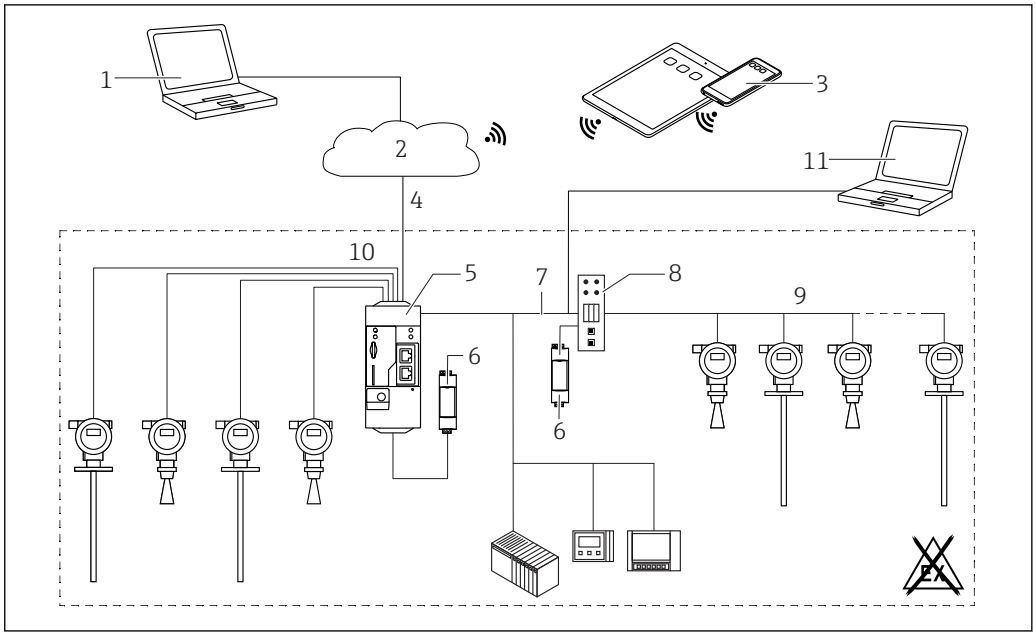
5 *System architecture of a Fieldgate FXA42 with a HART point-to-point multiplexer*

1 *SupplyCare Enterprise / SupplyCare Hosting (via Web browser)*
2 *Internet / LAN*
3 *SupplyCare Enterprise / SupplyCare Hosting on mobile devices (via Web browser)*
4 *Ethernet / WLAN / UMTS / LTE-M / LTE Cat NB1*
5 *Fieldgate FXA42*
6 *Power supply 24 V_{DC}*
7 *Modbus TCP via Ethernet as server/client*
8 *Phoenix Contact multiplexer from Modbus TCP to HART point-to-point. 1 head module and up to 5 extension modules are possible. Extension modules for 4 or 8 HART channels are possible*
9 *External power supply*
10 *FieldCare tunneling via Phoenix Contact multiplexer*

Modbus TCP can be operated as a server and as a client at the Ethernet connection of the Fieldgate FXA42.

When operated as a Modbus client, up to 32 devices and 256 values can be defined. As values can become arrays when reading and writing several registers or coils, the following limit applies: The number of all scalar (non-array) values plus the size of all arrays must not exceed 512.

Configuration with Modbus TCP

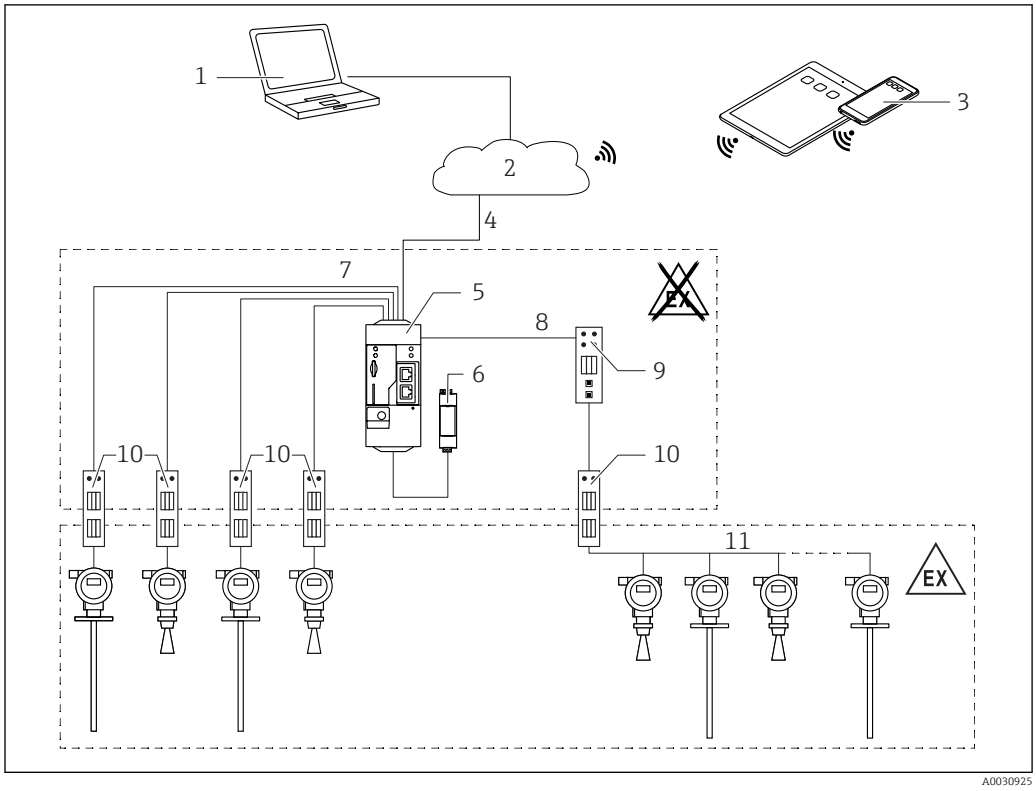


6 *System architecture of a Fieldgate FXA42 with Modbus TCP*

1 *SupplyCare Enterprise / SupplyCare Hosting (via Web browser)*
2 *Internet / LAN*
3 *SupplyCare Enterprise / SupplyCare Hosting on mobile devices (via Web browser)*
4 *Ethernet / WLAN / UMTS / LTE Cat M1 / LTE Cat NB1*
5 *Fieldgate FXA42*
6 *Power supply 24 V_{DC}*
7 *Modbus TCP via Ethernet as server/client*
8 *HG1 Plus converter from Modbus to HART Multidrop*
9 *HART Multidrop (maximum 7 devices, depending on the power demand)*
10 *4 x analog input 4 to 20 mA (2-wire / 4-wire)*
11 *FieldCare tunneling via HG1 Plus*
12 *Measuring device power supply*

Modbus TCP can be operated as a server or client at the Ethernet connection of the Fieldgate FXA42.

Configuration with HART Multidrop via Modbus TCP



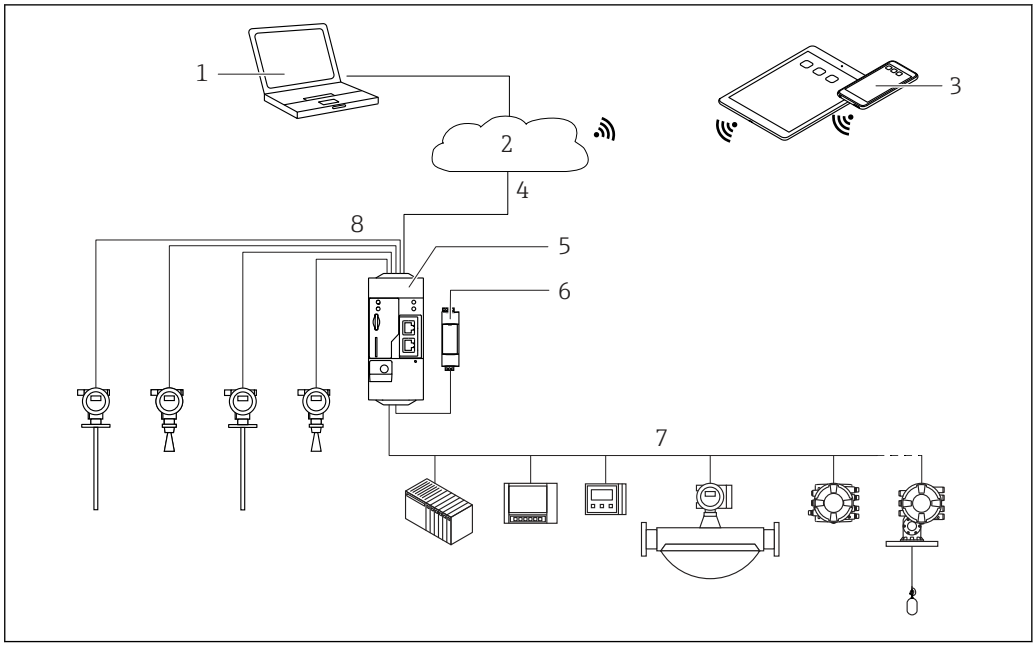
7 *System architecture of a Fieldgate FXA42 with HART Multidrop*

1 *SupplyCare Enterprise / SupplyCare Hosting (via Web browser)*
2 *Internet / LAN*
3 *SupplyCare Enterprise / SupplyCare Hosting on mobile devices (via Web browser)*
4 *Ethernet / WLAN / UMTS / LTE Cat M1 / LTE Cat NB1*
5 *Fieldgate FXA42*
6 *Power supply 24 V_{DC}*
7 *4 x analog input 4 to 20 mA (2-wire / 4-wire)*
8 *HG1 Plus converter from Modbus to HART Multidrop*
9 *Converter from Modbus to HART Multidrop*
10 *Barrier*
11 *HART Multidrop*

Modbus TCP can be operated as a server or client at the Ethernet connection of the Fieldgate FXA42.

If an appropriate communication barrier is used (→ 7), then the measuring devices can also be operated in the hazardous area.

Configuration with Modbus RS485



8 *System architecture of a Fieldgate FXA42 with Modbus RS485*

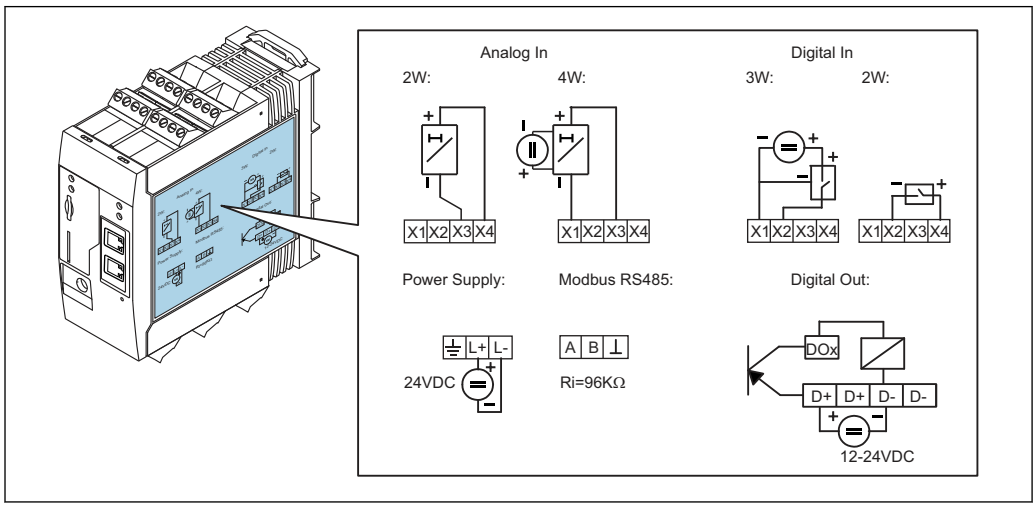
1 *SupplyCare Enterprise / SupplyCare Hosting (via Web browser)*
2 *Internet / LAN*
3 *SupplyCare Enterprise / SupplyCare Hosting on mobile devices (via Web browser)*
4 *Ethernet / WLAN / UMTS / LTE-M / LTE Cat NB1*
5 *Fieldgate FXA42*
6 *Power supply 24 V_{DC}*
7 *1 x Modbus RS485 as master or slave*
8 *4 x analog input 4 to 20 mA (2-wire / 4-wire)*

The Modbus RS485 connection can be used as either a master or a slave, but cannot act as both simultaneously.

- When operated as a master, up to 32 devices and 256 values can be defined. As values can become arrays when reading and writing several registers or coils, the following limit applies: The number of all scalar (non-array) values plus the size of all arrays must not exceed 512.
- When operated as a slave, up to 128 values can be defined. As values can become arrays when reading and writing several registers or coils, the following limit applies: The number of all scalar (non-array) values plus the size of all arrays must not exceed 512.

Input

Terminal assignment



9 *Labeling on the housing for terminal assignment*

Weight

Approx.300 g (10.6 oz)

Materials

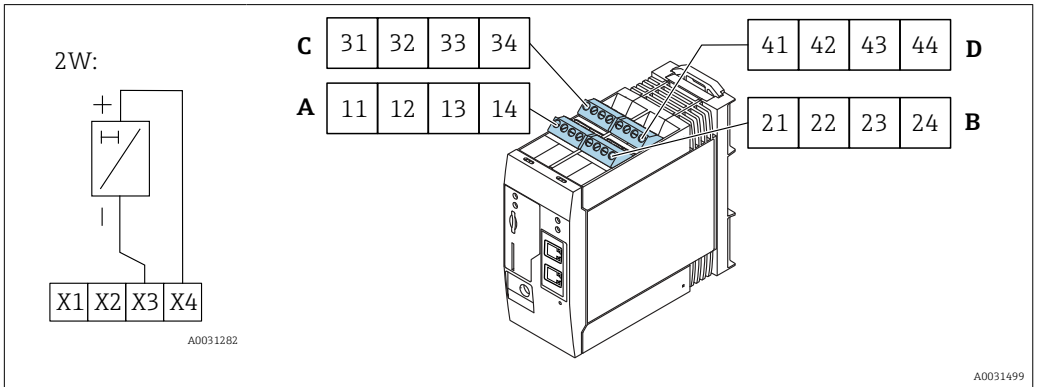
Housing: plastic PC-GF10

Terminals

Plug-in screw terminals, 2.5 mm² (14 AWG), 0.1 to 4 mm² (30 to 12 AWG), torque 0.5 to 0.6 Nm (0.37 to 0.44 lbf ft)

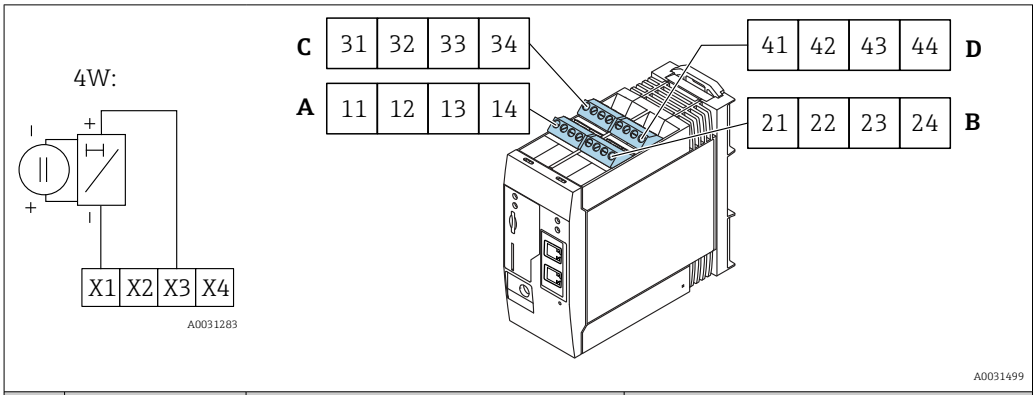
4 to 20 mA analog input

4 to 20 mA analog input (2-wire) with auxiliary voltage output



	Terminal block				Function	Properties
	A	B	C	D		
X1 =	11	21	31	41	4 x GND	
X3 =	13	23	33	43	4 x 4 to 20 mA analog input	Maximum input voltage: 35 V Maximum input current: 22 mA Internal resistance: 250 Ω (suitable for HART communication) Measuring range: 3.8 to 20.5 mA Resolution: 16 bit Accuracy: 0.1% of measuring range
X4 =	14	24	34	44	4 x auxiliary voltage output for transmitter loop power supply	Output voltage: 28 V_{DC} (no-load) 26 V_{DC} @ 3 mA 20 V_{DC} @ 30 mA Output current: max. 160 mA

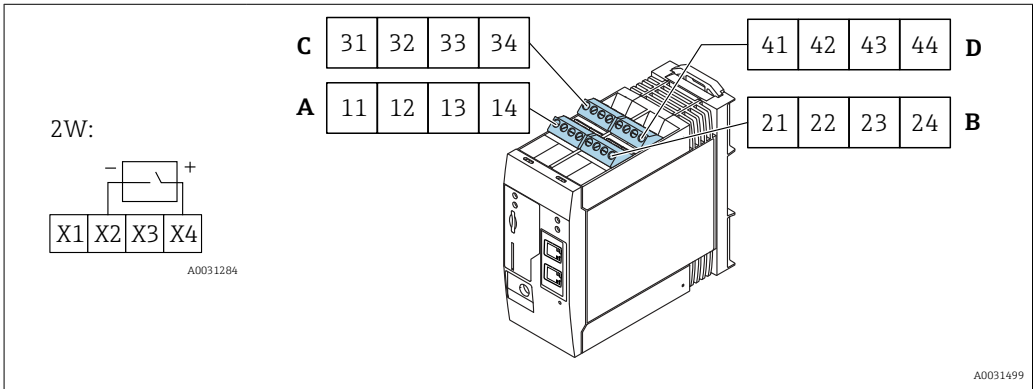
4 to 20 mA analog input (4-wire)



	Terminal block				Function	Properties
	A	B	C	D		
X1 =	11	21	31	41	4 x GND	
X3 =	13	23	33	43	4 x 4 to 20 mA analog input	Maximum input voltage: 35 V Maximum input current: 22 mA Internal resistance: 250 Ω (suitable for HART communication) Measuring range: 3.8 to 20.5 mA Resolution: 16 bit Accuracy: 0.1% of measuring range

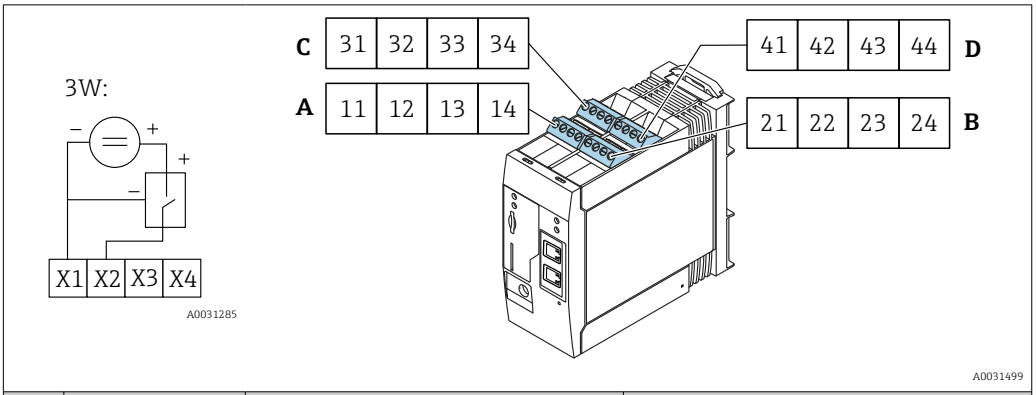
Digital input

Digital input (2-wire) with auxiliary voltage output



	Terminal block				Function	Properties
	A	B	C	D		
X2 =	12	22	32	42	4 x digital input	Input voltage L: < 5 V Input voltage H: > 11 V Input current: < 5 mA Maximum input voltage: 35 V
X4 =	14	24	34	44	4 x auxiliary voltage output to control the digital inputs	Output voltage: 28 V_{DC} (no-load) 26 V_{DC} @ 3 mA 20 V_{DC} @ 30 mA Output current: max. 160 mA

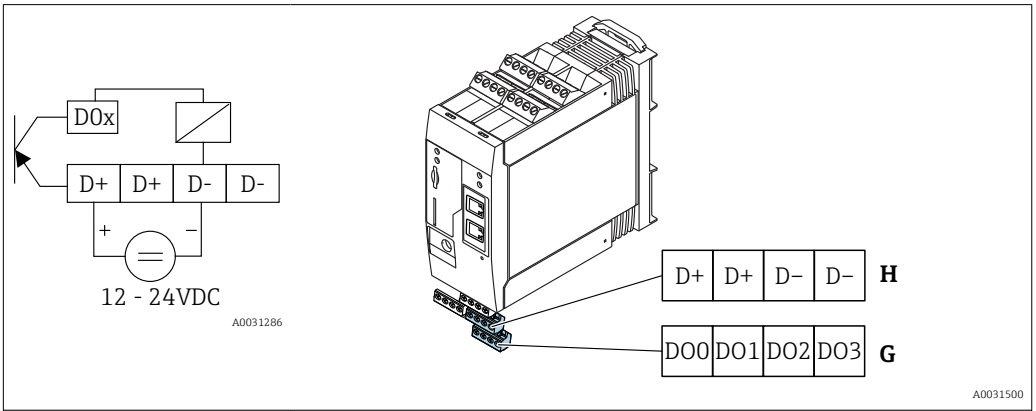
Digital input (3-wire)



	Terminal block				Function	Properties
	A	B	C	D		
X1 =	11	21	31	41	4 x GND	
X2 =	12	22	32	42	4 x digital input	Input voltage L: < 5 V Input voltage H: > 11 V Input current: < 5 mA Maximum input voltage: 35 V

Output

Digital output



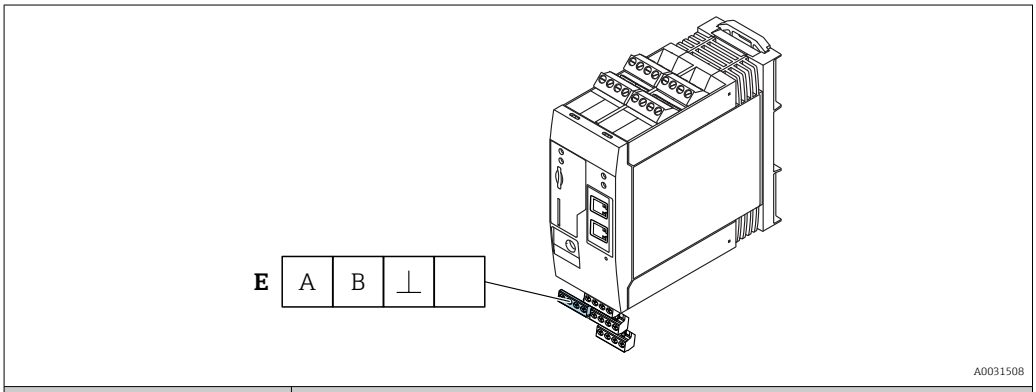
Terminal block	G	Properties
DO0 DO1 DO2 DO3 Digital output	DO0	High-side driver, sourcing, DC-PNP. Output current:500 mA
	DO1	
	DO2	
	DO3	

Terminal block	H	Properties
D+ D+ D– D– Power supply for digital output [1]	D+	12 to 24 V_{DC}
	D+	12 to 24 V_{DC}
	D-	GND
	D-	GND

1) You may only use power units that ensure safe electrical isolation according to DIN VDE 0570-2-6 and EN61558-2-6 (SELV / PELV or NEC Class 2) and that are designed as limited-energy circuits.

RS485 serial interface (Modbus)

- Internal resistance: 96 kΩ
- Protocol: Modbus RTU
- External termination required (120 Ω)

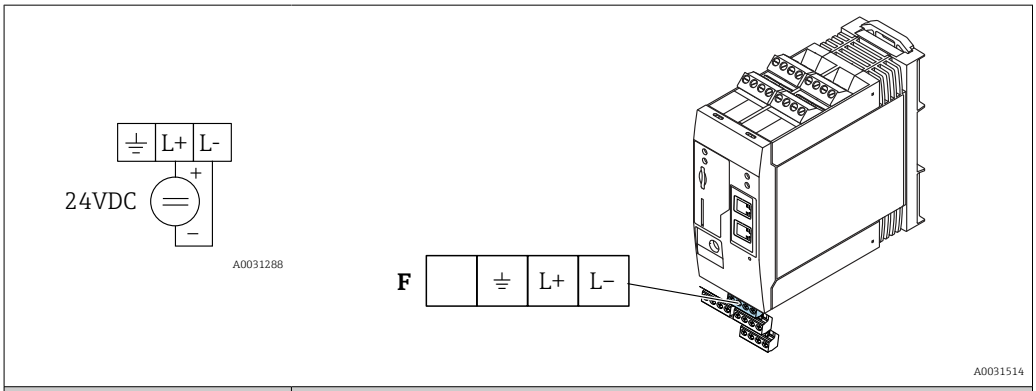


Terminal block	E	Properties
A B ⊥	A	Signal
	B	Signal
Serial interface RS485	⊥	Ground / optional shield connection
		Not assigned

Power supply

Supply voltage

The supply voltage is 24 V DC (±20%). You may only use power units that ensure safe electrical isolation according to DIN VDE 0570-2-6 and EN61558-2-6 (SELV / PELV or NEC Class 2) and that are designed as limited-energy circuits.



Terminal block	F	Properties
⏚ L+ L–		Not assigned
	⏚	Ground connection
Power supply for Fieldgate FXA42 [1]	L+	24 V_{DC}
	L-	GND

1) You may only use power units that ensure safe electrical isolation according to DIN VDE 0570-2-6 and EN61558-2-6 (SELV / PELV or NEC Class 2) and that are designed as limited-energy circuits.

Power consumption

< 9 W

Voltage interruption (IEC 61000-4-29)

20 ms

Installation

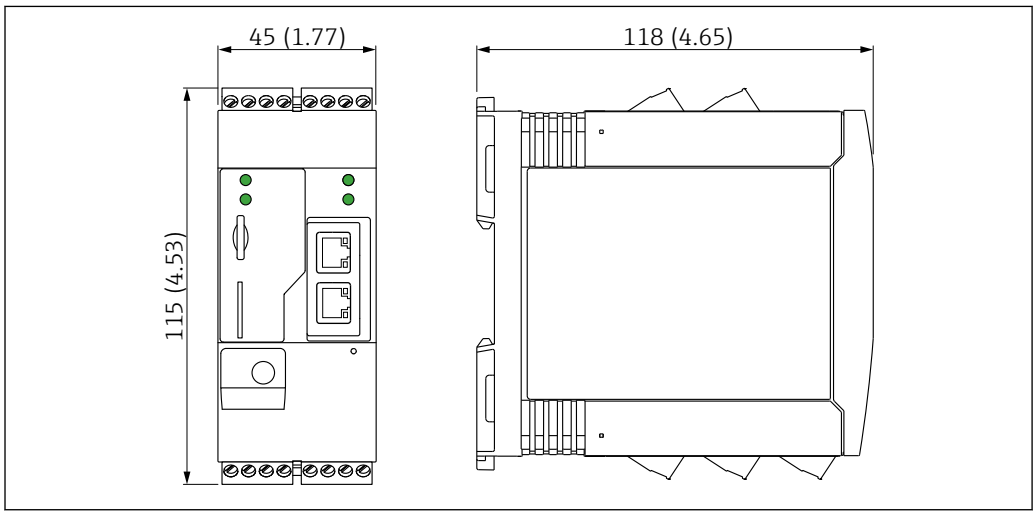
Mounting location

The Fieldgate must be housed in a cabinet outside the hazardous area. A protective housing (IP65) must be used if the unit is mounted outdoors.

Orientation

Vertical or horizontal on DIN rail (HT 35 as per EN 60715).

Dimensions

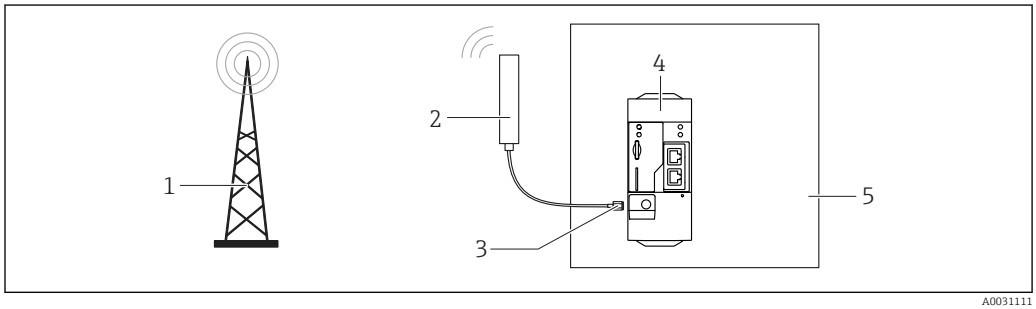


10 Dimensions in mm (in)

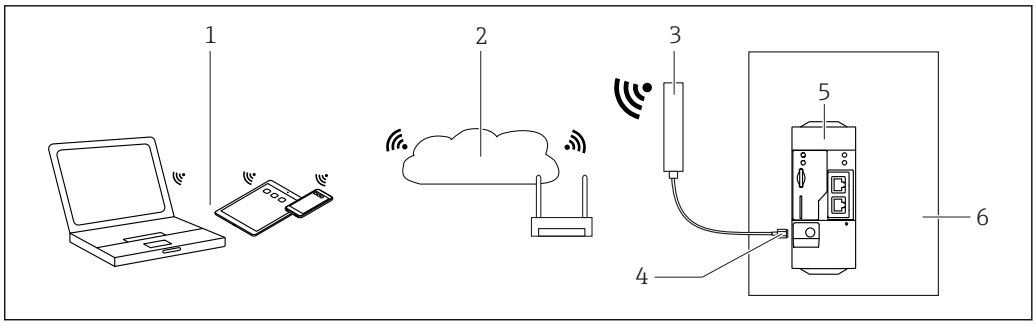
Antenna

The devices require an external antenna for wireless communication via UMTS (2G/3G), LTE Cat M1 and Cat NB1 (2G/4G) and WLAN. The antenna can be purchased as an accessory from Endress +Hauser. The antenna cable is screwed onto the connection on the front of the device. The antenna must be mounted outside the cabinet or field housing. In areas with weak reception, it is advisable to first check the communication before securing the antenna permanently.

Connection: SMA connection.



1 *Mobile communications networks*
2 *Antenna for Fieldgate FXA42*
3 *SMA connection*
4 *Fieldgate FXA42 Ethernet and 2G/3G/4G*
5 *Control cabinet*



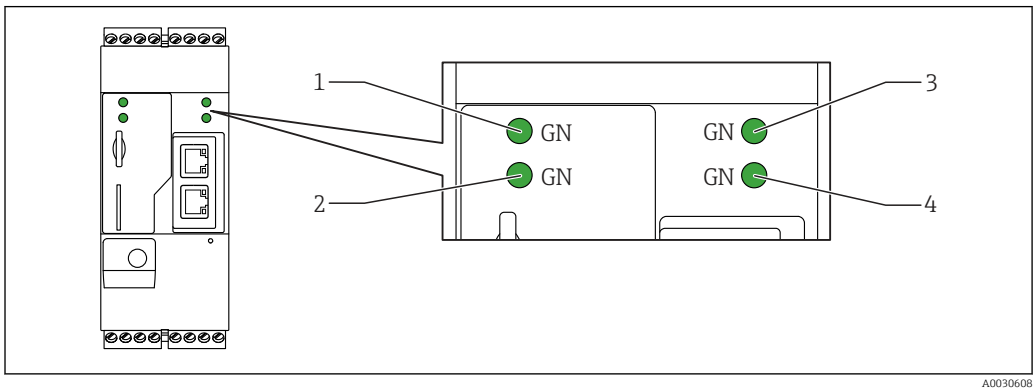
1 WLAN receivers
2 Uplink to Internet or LAN via router
3 Antenna for Fieldgate FXA42
4 SMA connection
5 Fieldgate FXA42 Ethernet and WLAN
6 Control cabinet

Environment

Ambient temperature range	Normal operation (EN 60068-2-14; Nb; 0.5 K/min): −20 to 60 °C (−4 to 140 °F) Side by side installation: −20 to 50 °C (−4 to 122 °F)
Transportation and storage temperature	EN 60068-2-1; Ab; 0.5K/min / EN 60068-2-2; Bb; 0.5K/min: −25 to 85 °C (−13 to 185 °F)
Humidity	EN 60068-2-30; Db; 0.5 K/min: 5 to 85%; non-condensing
Condensation	Not permitted
Climate class	To IEC 60654-1, Class B2
Installation height as per IEC61010-1 Ed.3	Generally up to 2 000 m (6 560 ft) above sea level
Degree of protection	IP20, NEMA1
Shock resistance	DIN EN 60068-2-27: ±15 g; 11 ms
Vibration resistance	EN 60068-2-64 / IEC60068-2-64: 20..2000 Hz 0.01 g^2/Hz
Electromagnetic compatibility	▪ Interference immunity: as per IEC 61326, industrial environment ▪ Interference emissions: as per IEC 61326, Class B

Operability

Display elements (device status indicator / LED)



1 Power
2 Modem (mobile communications versions) / WLAN / Ethernet
3 Network
4 Web-PLC

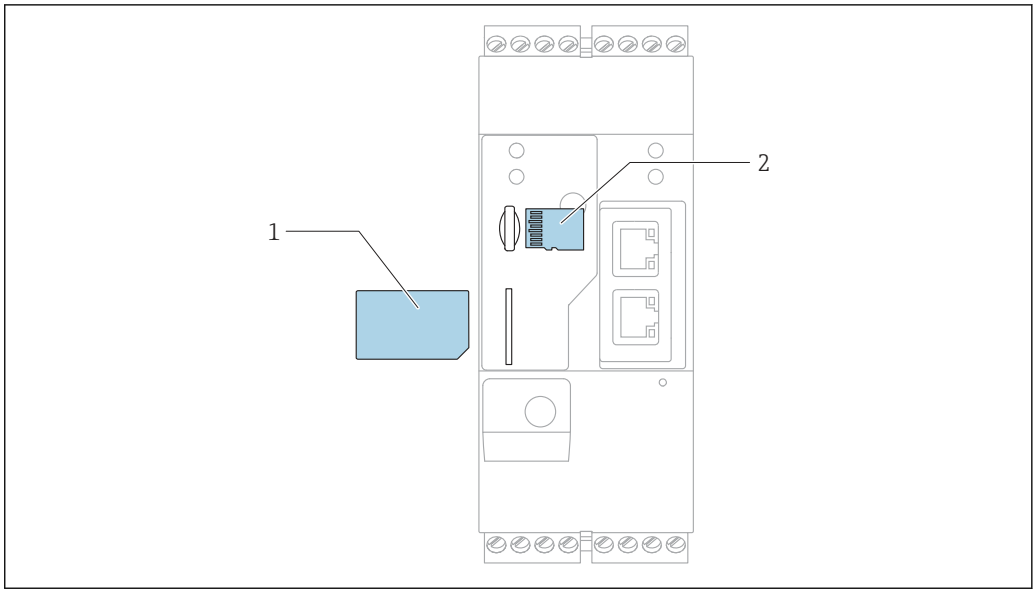
Description	State	Color	Meaning	Note
Power		Green (GN)	Power supply on	
Modem		Green (GN)	Power supply for modem on	Only mobile communications versions
WLAN		Green (GN)	Power supply for WLAN module on	Only WLAN version
Ethernet		Green (GN)	Power supply for Ethernet interface on	Only Ethernet version
Network		Green (GN)	Data connection established	Ethernet version: valid fixed IP address configured or DHCP completed successfully
Network			Data connection interrupted	Ethernet version: no valid fixed IP address configured or DHCP not completed successfully
Web-PLC		Green (GN)	Editor program for Web-PLC is enabled	
	2 x	Green (GN)	Manual firmware update completed successfully	
	2 x	Green (GN)	Reset to factory settings (factory reset) confirmed	

Operating elements

Reset button

The reset button can be accessed through a small hole in the front (→ 14, 23).

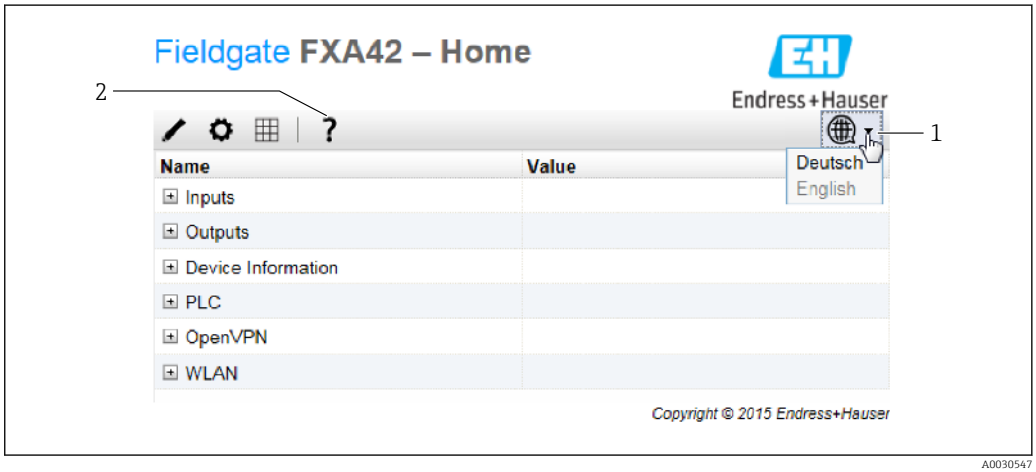
Card slot



1 SIM card
2 microSD card

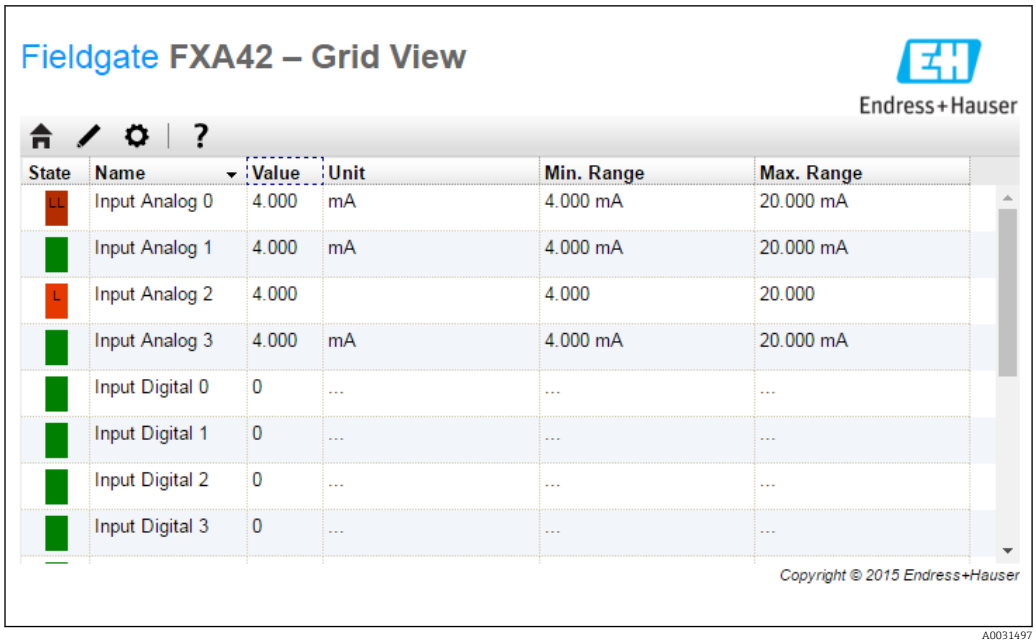
Integrated Web server

The integrated Web server enables the full control and operation of the Fieldgate and allows users to visualize the current measured values of the connected devices using standard Web browsers. Examples of a few Web pages are provided in the following section.



11 Home page in the Web browser

1 Select the language
2 Opening the online help

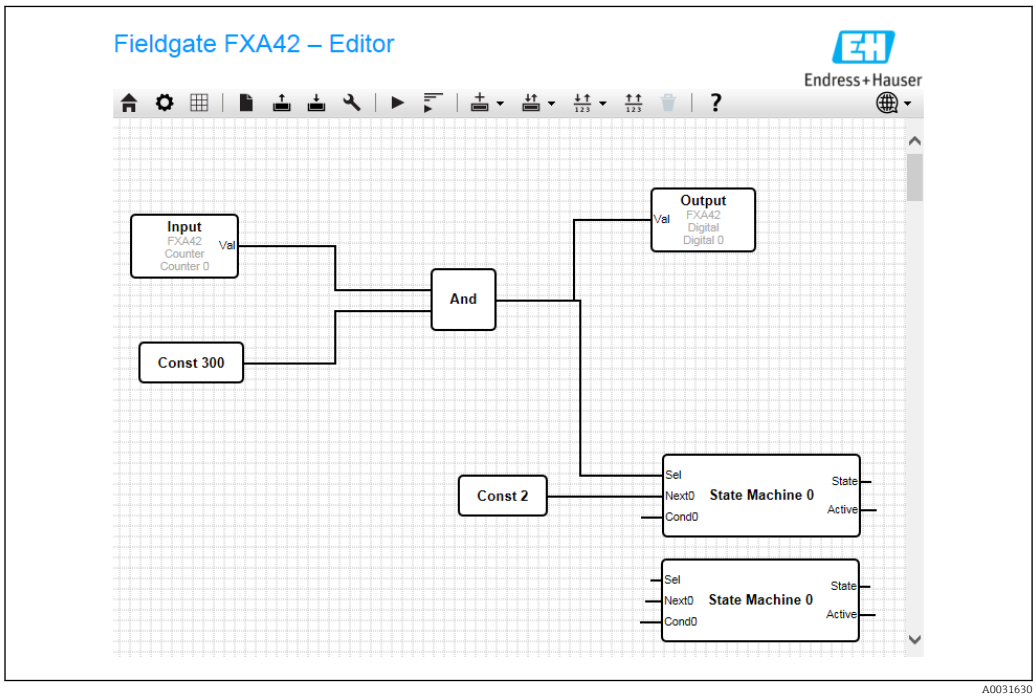


12 *Grid view in the Web browser*

Integrated Web-PLC

The Web-PLC is a Web-based graphic editor solution for basic PLC control functions.

AND, OR, XOR, FF, TIMER and COUNTER operations are provided for implementing simple PLC functions.



13 *Graphic editor for PLC control functions*

Certificates and approvals

Current certificates and approvals for the product are available at www.endress.com on the relevant product page:

1. Select the product using the filters and search field.
2. Open the product page.

3. Select **Downloads**.

CE mark

The device meets the legal requirements of the applicable EC directives. These are listed in the corresponding EC declaration of conformity together with the standards applied.

UKCA marking

The device meets the legal requirements of the applicable UK regulations (Statutory Instruments). These are listed in the UKCA Declaration of Conformity along with the designated standards. By selecting the order option for UKCA marking, Endress+Hauser confirms a successful evaluation and testing of the device by affixing the UKCA mark.

Contact address Endress+Hauser UK:
Endress+Hauser Ltd.
Floats Road
Manchester M23 9NF
United Kingdom
www.uk.endress.com

RoHS

The measuring system meets the substance restrictions of the Directive on the Restriction of the Use of Certain Hazardous Substances 2011/65/EU (RoHS 2) and the Delegated Directive (EU) 2015/863 (RoHS 3).

External standards and guidelines

Other standards and guidelines that have been considered in the design and development of the device:

- EN 60529
  Degrees of protection provided by enclosure (IP code)
- EN 61010-1
  Safety requirements for electrical equipment for measurement, control and laboratory use
- IEC/EN 61326
  "Emission in accordance with Class A requirements" Electromagnetic compatibility (EMC requirements)

Telecommunications approval

Europe

This device meets the requirements of the Radio Equipment Directive (RED) 2014/53/EU.

USA and Canada

This device complies with Part 15 of the FCC rules.

Federal Communications Commission Notice

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

To ensure that the unit complies with current FCC regulations and safety requirements limiting both maximum RF output power and human exposure to radio frequency radiation, use an antenna with a maximum gain of 2 dBi and a separation distance of at least 20 cm must be maintained between the unit's antenna and the body of the user and any nearby persons at all times and in all applications and uses.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Endress+Hauser may void the user's authority to operate the equipment.

Federal Communications Commission Statement

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Wireless Notices

In some situations or environments, the use of wireless devices may be restricted. Such restrictions may apply aboard airplanes, in vehicles, in hospitals, near explosives, in hazardous locations, etc. If you are uncertain of the policy that applies to the use of this device, please ask for authorization to use it prior to turning it on.

Other certificates

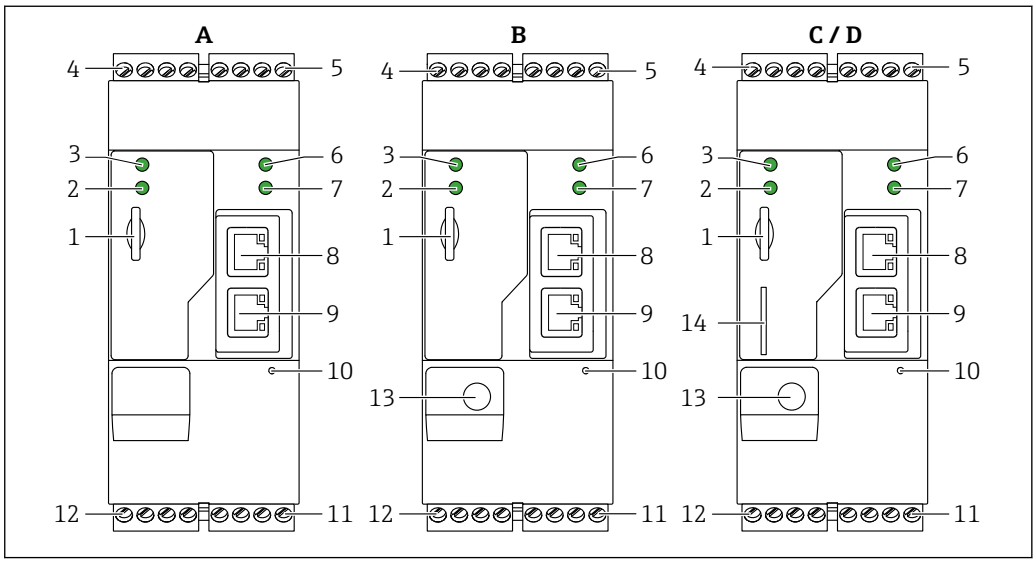
Other national approvals are available on request.

- **Bulgaria**
  General authorization required for use outdoors and in public.
- **Italy**
  General authorization is required for use outside of own premises.
- **Norway**
  Use can be limited within a 20-km radius of the center of Ny-Alesund.
- **Romania**
  Use as a secondary device; special license required.
- **Latvia**
  A national permit is required for outdoor use of the 2.4 GHz frequency.

Ordering information

Product design

Four versions of the Fieldgate FXA42 are available. These versions differ in terms of the device features and data transmission technology.



14 *Fieldgate FXA42 versions and design*

A FXA42-A Ethernet
B FXA42-B Ethernet and WLAN
C FXA42-C Ethernet and 2G/3G
D FXA42-D Ethernet and LTE Cat M1 and Cat NB1 (2G/4G)
1 Slot for memory card, card type: microSD
2 Status LED for modem / WLAN / Ethernet
3 Status LED for supply voltage
4, 5 Input modules with analog input, digital input, current source and reference potential
6 Status LED for network
7 Status LED for Web PLC
8, 9 Ethernet connections
10 Reset button
11 Power supply for Fieldgate FXA42, power supply for digital outputs, digital outputs
12 RS-485 serial interface
13 Connection for antenna (only WLAN and mobile telecommunications versions)
14 Slot for SIM card (only mobile telecommunications versions)

Supported frequency bands for mobile telecommunications

FXA42-C: supported frequency bands UMTS (2G/3G)

2G
Band 2 (1900 MHz), Band 3 (1800 MHz), Band 5 (850 MHz), Band 8 (900 MHz)

3G
Band 1 (2100 MHz), Band 2 (1900 MHz), Band 4 (1700 MHz), Band 5 (850 MHz), Band 6 (800 MHz), Band 8 (900 MHz)

FXA42-D: supported frequency bands LTE Cat M1 and Cat NB1 (2G/4G)

2G
Band 2 (1900 MHz), Band 3 (1800 MHz), Band 5 (850 MHz), Band 8 (900 MHz)

4G
Band 1 (2100 MHz), Band 2 (1900 MHz), Band 3 (1800 MHz), Band 4 (AWS 1700 MHz), Band 5 (850 MHz), Band 8 (900 MHz), Band 12 (700 MHz), Band 13 (700 MHz), Band 18 (800 MHz), Band 19 (800 MHz), Band 20 (800 MHz), Band 26 (850 MHz), Band 28 (700 MHz)

Ordering information

Detailed ordering information is available from the following sources:
- In the Product Configurator on the Endress+Hauser website: www.endress.com-> Click "Corporate" -> Select your country -> Click "Products" -> Select the product using the filters and search field -> Open product page -> The "Configure" button to the right of the product image opens the Product Configurator.
- From your Endress+Hauser Sales Center: www.addresses.endress.com

Product Configurator - the tool for individual product configuration
- Up-to-the-minute configuration data
- Depending on the device: direct input of information specific to the measuring point, such as the measuring range or operating language
- Automatic verification of exclusion criteria
- Automatic creation of the order code and its breakdown in PDF or Excel output format
- Ability to order directly in the Endress+Hauser Online Shop

Note that when choosing the contract, the SMS function must be agreed to allow use of this function. The mobile telecommunications contract for the device must support this function.

Accessories

Device-specific accessories

Power unit
Power unit for power supply
Material number: 71327426

Antenna
Antenna with SMA connection for mobile telecommunications or WLAN operation
Material number: 71327395

SD card (card type: microSD)
On request

Communication modules
- Datexel DAT8017-I server unit: analog to Modbus TCP converter
  Material number: 71375710
- Rapsystems HG1 Plus: HART to Modbus gateway
  Material number: 71327424
- Phoenix Contact: HART Ethernet multiplexer head module
  Material number: 71363548
- Phoenix Contact: 4-channel HART extension module
  Material number: 71363561
- Phoenix Contact: 8-channel HART extension module
  Material number: 71363582

Communication-specific accessories

SupplyCare Enterprise SCE30B
Inventory management software that displays the level, volume, mass, temperature, pressure, density or other parameters of tanks. The parameters are recorded and transmitted using the Fieldgate FXA42 or other types of gateways.
This Web-based software is installed on a local server and can also be visualized and operated with mobile devices such as a smartphone or tablet.

For details, see Technical Information TI01228S and Operating Instructions BA00055S

SupplyCare Hosting SCH30
Inventory management software that displays the level, volume, mass, temperature, pressure, density or other parameters of tanks. The parameters are recorded and transmitted using the Fieldgate FXA42 or other types of gateways.
SupplyCare Hosting is offered as a hosting service (Software as a Service, SaaS). In the Endress +Hauser portal, the user is provided with the data over the Internet.

For details, see Technical Information TI01229S and Operating Instructions BA00050S

Supplementary documentation

The following document types are available in the Download Area of the Endress+Hauser website: www.endress.com → Download:

Standard documentation

The following documentation is available for the Fieldgate FXA42:
- Brief Operating Instructions
  Document code: KA01246S
- Operating Instructions
  Document code: BA01778S

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Registered trademark of SCHNEIDER AUTOMATION, INC.

Microsoft®
Registered trademark of the Microsoft Corporation, Redmond, Washington, USA



www.addresses.endress.com

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People for Process Automation