TI01468S/00/EN/08.24-00

71656903 2024-04-15

Technical Information FieldPort SWA50

Intelligent Bluetooth $\ensuremath{^{\ensuremath{\mathbb{R}}}}$ and/or WirelessHART adapter for all HART field devices



Application

The FieldPort SWA50 converts the HART signal of the connected HART field device into a reliable and encrypted Bluetooth® or WirelessHart signal. The SWA50 can be retrofitted to all 2-wire and 4-wire HART field devices in both hazardous and non-hazardous areas. The robust stainless steel housing allows the SWA50 to be installed even in harsh industrial environments.

It is possible to configure the SWA50 and visualize measured values of the connected HART field device via the SmartBlue app or a Field Xpert tablet PC. A FieldEdge device enables quick and easy connection to the Netilion Cloud in order to use the data in various Netilion services.

Your benefits

- Reliable transmission of the measured process values through the connected FieldPort SWA50 via encrypted Bluetooth[®] or WirelessHART communication
- Easy to retrofit all 2-wire or 4-wire HART field devices
- Easy connection of all HART field devices to the Netilion Cloud
- Loop-powered adapter, without affecting the process signal
- Easily accessible, wireless, diagnostic information of connected HART field device
- Convenient configuration of the connected HART field device via FieldPort SWA50 and Field Xpert



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About this document

Symbols

Safety symbols

A 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.

ACAUTION

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.

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.
1	Tip Indicates additional information.
	Reference to documentation
	Reference to page
	Reference to graphic
	Visual inspection

Function and system design

Function

System architecture of the

FieldPort SWA50 Bluetooth

version

The FieldPort SWA50 converts the HART signal of the connected HART field device into a reliable and encrypted Bluetooth[®] or WirelessHart signal. The FieldPort SWA50 can be retrofitted to all 2-wire or 4-wire HART field devices.

The following operating tools are available for the FieldPort SWA50:

- The Endress+Hauser SmartBlue app for mobile devices
- An Endress+Hauser Field Xpert SMTxx tablet PC
- The Endress+Hauser FieldCare SFE500 field device configuration tool

Depending on the operating tool, the following functions are available:

- Configuration of the FieldPort SWA50
- Visualization of the measured values of the connected HART field device
- Visualization of the current status of the FieldPort SWA50 and the connected HART field device
- Configuration of the connected HART field device

HART field devices can be connected to the Netilion Cloud via the FieldPort SWA50 and a FieldEdge device.



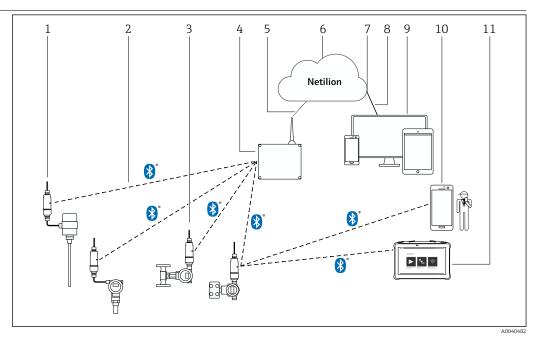
Detailed information on Netilion Cloud: https://netilion.endress.com

The WirelessHART version of the FieldPort SWA50 can be integrated into a WirelessHART network via the Endress+Hauser FieldGate SWG50 or via any compatible WirelessHART gateway. More information is available from your Endress+Hauser sales organization: www.addresses.endress.com.

NOTICE

Safety applications with control functions via Bluetooth signal or WirelessHART signal Undesirable behavior of safety application

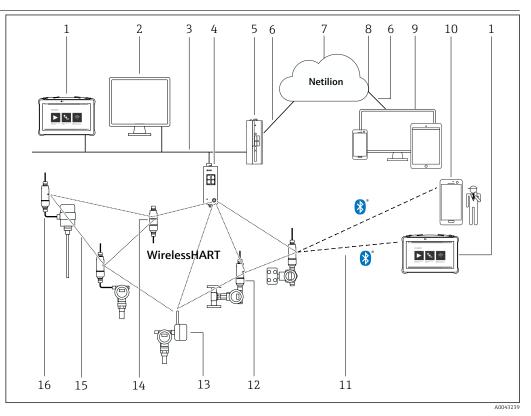
• Do not use a wireless signal such as Bluetooth or WirelessHART in a safety application with a control function.



System architecture of SWA50 Bluetooth version

- 1 HART field device with FieldPort SWA50, remote mounting
- 2 Encrypted wireless connection via Bluetooth®
- 3 HART field device with FieldPort SWA50, direct mounting
- 4 FieldEdge SGC200
- 5 LTE connection
- 6 Netilion Cloud
- 7 Application Programming Interface (API)
- 8 https Internet connection
- 9 Internet browser-based Netilion Service app or user application
- 10 Endress+Hauser SmartBlue app
- 11 Endress+Hauser Field Xpert, e.g. SMTxx

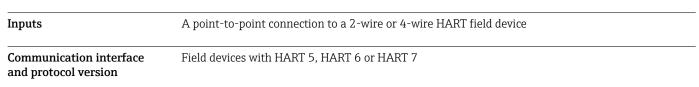
System architecture of FieldPort SWA50 WirelessHART version



System architecture of SWA50 WirelessHART version

- 1 Endress+Hauser Field Xpert such as SMTxx
- 2 Host application / FieldCare SFE500
- 3 Ethernet communication
- 4 WirelessHART gateway, e.g. FieldGate SWG50
- 5 FieldEdge SGC500
- 6 https Internet connection
- 7 Netilion cloud
- 8 Application Programming Interface (API)
- 9 Internet browser-based Netilion Service app or user application
- 10 Endress+HauserSmartBlue app
- 11 Encrypted wireless connection via Bluetooth®
- 12 HART field device with FieldPort SWA50, direct mounting
- 13 HART field device with WirelessHART adapter, e.g., SWA70
- 14 FieldPort SWA50 as repeater
- 15 Encrypted wireless connection via WirelessHART
- 16 HART field device with FieldPort SWA50, remote mounting

Input (wired interface)

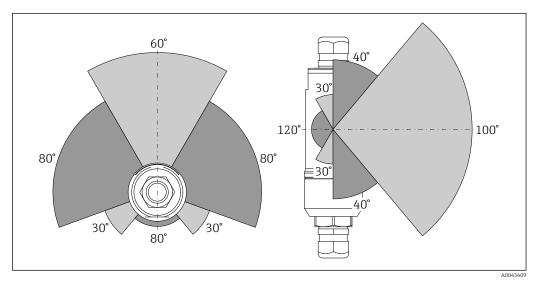


Communication interface	Bluetooth Bluetooth IEEE 802.15.1	
	In addition to the FieldPort SWA50, there can be only one other HART master in the HART loop of the SWA50.	
	 WirelessHART WirelessHART communication interface (IEC 62591) HART version 7.5, backward-compatible with previous HART versions 	
Transmission frequency band	2.4 GHz (ISM band)	
Range	The range depends on the alignment of the FieldPort SWA50, the mounting location and the environmental conditions	

Output (wireless interface)

can greatly reduce the antenna range.

Since the antenna of the WirelessHART gateway is aligned vertically as a general rule, the ideal orientation for the FieldPort SWA50 is also vertical. If the antennas are aligned differently, this



■ 3 Different ranges depending on the position of the transmission window

Bluetooth

Up to 30 m (98 ft) without obstacles when FieldPort SWA50 is optimally aligned

WirelessHART

- Up to 175 m (574 ft) without obstacles, between FieldGate SWG50 with 6 dBi antenna and FieldPort SWA50, optimally aligned
- Up to 75 m (246 ft) without obstacles, between FieldGate SWG50 with 2 dBi antenna and FieldPort SWA50, optimally aligned
- Up to 50 m (146 ft) without obstacles, between WirelessHART adapter SWA70 and FieldPort SWA50, optimally aligned
- Up to 25 m (82 ft) without obstacles, between two FieldPort SWA50 adapters, optimally aligned

Transmission power

0 dBm or 10 dBm, configurable for adaptation to national regulations

Device variables

	SmartBlue app	Field Xpert
Endress+Hauser field devices	 Measured value output current of HART field device Device information, configuration data and HART information of the FieldPort SWA50 Measured values PV, SV, TV and QV of HART field device Additional device information of the HART-7 or HART-6 field device HART information of HART field device Combined NAMUR NE 107 status, consisting of the status for the FieldPort SWA50 and the status of the connected HART field device 	 Measured value output current of HART field device Device information, configuration data and HART information of the FieldPort SWA50 Measured values PV, SV, TV and QV of HART field device Additional device information of the HART-7 or HART-6 field device HART information of HART field device Combined NAMUR NE 107 status, consisting of the status for the FieldPort SWA50 and the status of the connected HART field device
Field devices of other manufacturers	 Measured value output current of HART field device Device information, configuration data and HART information of the FieldPort SWA50 	 Measured value output current of HART field device Device information, configuration data and HART information of the FieldPort SWA50 Additionally in the livelist Measured values PV and SV Combined NAMUR NE 107 status, consisting of the status for the FieldPort SWA50 and the status of the connected HART field device

If the HART field device does not support the extended device status according to NAMUR NE 107, limitations may apply to the display of status information.

You can read out the following data via the Bluetooth version of the FieldPort SWA50 and the Endress+Hauser FieldEdge SGC200 (Netilion services):

- Process variables PV and SV of HART field device if available
- Combined status according to NAMUR NE 107 of the FieldPort SWA50 and the HART field device, where available

For the WirelssHART version of the FieldPort SWA50 and the Endress+HauserFieldEdge SGC500(Netilion Cloud)

For detailed information, see the Operating Instructions for the FieldPort SWA50 WirelessHART $\rightarrow \cong 18$

Diagnosis

2 LEDs

- Green: Flashes four times at start-up to indicate that the device is operational
- Orange: Flashes every 2 seconds to indicate that a squawk function has been enabled

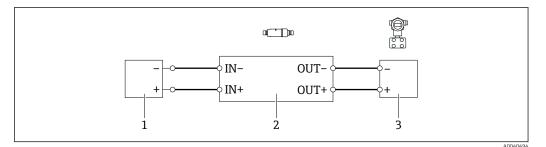
The LEDs are located on the electronic insert and are not visible from the outside.

Power supply

Electrical connection

2-wire HART field device with passive current output

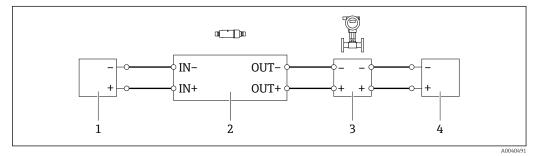
Some grounding concepts require shielded cables. If connecting the cable shield to the FieldPort SWA50, you must use a cable gland for shielded cable. See ordering information.



- Electrical connection for 2-wire HART field devices with passive current output (optional grounding not shown)
- 1 Supply voltage (SELV, PELV or Class 2) or PLC with active current input or transmitter with active current input
- 2 Electronic insert SWA50
- 3 2-wire field device 4 to 20 mA-HART

4-wire HART field device with passive current output

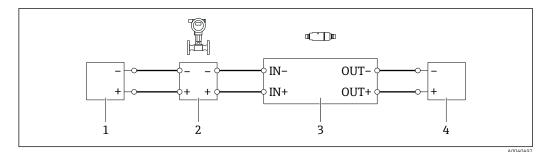
Some grounding concepts require shielded cables. If connecting the cable shield to the FieldPort SWA50, you must use a cable gland for shielded cable. See ordering information.



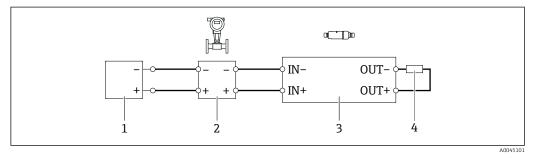
- Electrical connection for 4-wire HART field devices with passive current output (optional grounding not shown)
- 1 Supply voltage (SELV, PELV or Class 2) or PLC with active current input or transmitter with active current input
- 2 Electronic insert SWA50
- 3 4-wire field device with passive 4 to 20 mA-HART output
- 4 Supply voltage for 4-wire field device

4-wire HART field device with active current output

Some grounding concepts require shielded cables. If connecting the cable shield to the FieldPort SWA50, you must use a cable gland for shielded cable. See ordering information.



- 6 Electrical connection for 4-wire HART field devices with active current output (optional grounding not shown) PLC or transmitter at OUT terminals
- 1 Supply voltage (SELV, PELV or Class 2) for 4-wire HART field device
- 2 4-wire field device with active 4 to 20 mA HART output
- *3* Electronic insert SWA50
- 4 PLC or transmitter with passive current input



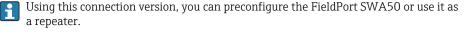
- In the second second
 - Supply voltage (SELV, PELV or Class 2) for 4-wire HART field device
- 2 4-wire field device with active 4 to 20 mA HART output
- 3 Electronic insert SWA50

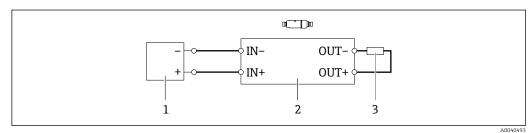
1

4 Resistance 250 to 500 Ohm min. 250 mW between terminals OUT+ and OUT-

If you select the "direct mounting" version and the "4-wire HART field device with active current output and PLC or transmitter" electrical connection version, you can use core cross-sections of 0.75 mm² maximum. The wires that you insert into the shorter top housing section must be connected to the IN terminals opposite, and the wires that you insert into the longer bottom housing section must be connected to the OUT terminals opposite. If larger core cross-sections are required, we recommend remote mounting.

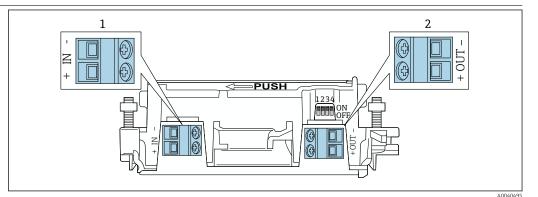
FieldPort SWA50 without HART field device (repeater)





- FieldPort SWA50 without HART field device (optional grounding not shown)
- 1 Supply voltage FieldPort SWA50, 20 to 30 VDC (SELV, PELV or Class 2)
- 2 Electronic insert SWA50
- 3 Resistance 1.5 kOhm and min. 0.5 W between terminals OUT+ and OUT-

Terminal assignment



9 FieldPort SWA50 terminal assignment

- 1 Input terminal IN
- 2 Output terminal OUT

Application	Input terminal IN	Output terminal OUT
2-wire HART field device → • • 4, • 8	Cable from supply voltage, PLC with active current output or transmitter with active current output	Cable to 2-wire HART field device
4-wire HART field device with passive current output → \blacksquare 5, \blacksquare 8	Cable from supply voltage, PLC with active current output or transmitter with active current output	Cable to 4-wire HART field device
4-wire HART field device with active current output → 🗎 8	Cable from 4-wire field device with active 4 to 20 mA HART output	PLC or transmitter with passive current output (optional), alternatively wire bridge between terminals OUT+ and OUT-
FieldPort SWA50 without field device $\rightarrow \blacksquare 8, \boxdot 9$	Cable from supply voltage for FieldPort SWA50	Resistor between terminals OUT+ and OUT-

FieldPort SWA50 grounding "Direct

"Direct mounting" version

With the "direct mounting" version, the FieldPort SWA50 is grounded via the field device or the metal conduit.

"Remote mounting" version

With the "remote mounting" version, ground the FieldPort SWA50 via the optional mounting bracket or a grounding clamp provided by the customer.

Optional mounting bracket

If using the mounting bracket, ground the FieldPort SWA50 via the grounding screw.

 $\square Mounting bracket: \rightarrow \square 16$

Grounding clamp provided by customer

- The grounding clamp provided by the customer must meet the following requirements:
- Diameter: approx. 40 mm
- Stainless steel
- If the FieldPort SWA50 is used in a hazardous area: suitable for hazardous areas as per DIN EN 62305, Sheet 3 and DIN EN 62561-1

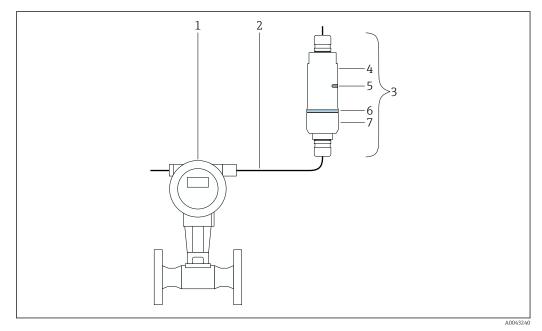
	 I Containing via grounding clamp I Example of grounding clamp provided by customer
Supply voltage	 Loop-powered 4 to 20 mA 24 V DC (min. 4 V DC, max. 30 V DC): min. 3.6 mA loop current required for start-up The supply voltage or the power unit must be tested to ensure it meets safety requirements and the requirements for SELV, PELV or Class 2
	 Voltage drop If internal HART communication resistor is deactivated 3.2 V in operation < 3.8 V at start-up If internal HART communication resistor is activated (270 Ohm) < 4.2 V at 3.6 mA loop current < 9.3 V at 22.5 mA loop current
	To select the supply voltage, pay attention to the voltage drop via the FieldPort SWA50. The remaining voltage must be high enough to enable the start-up and operation of the HART field device.
Power consumption	Max. 0.2 W at 22 mA and with internal HART communication resistor (270 Ohm)
Terminals	2 x 2-pin screw terminals
Cable entry	 "Remote mounting" version: 2 cable glands "Direct mounting" version: 1 cable gland and 1 direct cable entry from field device
	 The following cable glands are available. Plastic M20 for unshielded cable (only suitable for use in non-hazardous areas) Brass M20 for unshielded cable Brass M20 for shielded cable
Cable specification	Use cables that are suitable for the anticipated minimum and maximum temperatures.
	Observe grounding concept of the plant.
	$2 \ge 0.25 \text{ mm}^2$ to $2 \ge 1.5 \text{ mm}^2$
	You can use unshielded cable with or without ferrules and shielded cable with or without ferrules.
	If you select the "direct mounting" version and the "4-wire HART field device with active current output and PLC or transmitter" electrical connection version, you can use core cross-sections of 0.75 mm ² at maximum. If larger core cross-sections are required, we recommend remote mounting.

Mounting

Mounting methods

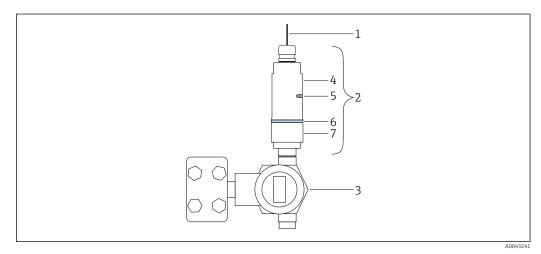
Remote mounting

• Direct mounting on HART field device via either M20 or NPT 1/2" connection adapter For remote mounting, we recommend the optional mounting bracket. Alternatively, you can secure the remote version using pipe clips.



E 11 Example of remote mounting

- 1 HART field device
- 2 Cable
- 3 FieldPort SWA50 "remote mounting" version
- 4 Bottom housing section
- 5 Transmission window
- 6 Design ring
- 7 Top housing section



- 12 Example of direct mounting
- 1 Cable
- 2 FieldPort SWA50 "direct mounting" version
- 3 HART field device
- 4 Bottom housing section
- 5 Transmission window
- 6 Design ring
- 7 Top housing section

Mounting instructions	 Pay attention to the alignment and range. → Observe a distance of at least 6 cm (0.24 ft) from walls and pipes. Pay attention to the expansion of the Fresnel zone. Avoid mounting in close proximity to high-voltage devices. Pay attention to the effect of vibrations at the mounting location. →
	Additional mounting information for Bluetooth version: Mount within the visual range of a FieldEdge SGC200.
	Additional mounting information for WirelessHART version: Mount within the visual range of a WirelessHart network subscriber.
Lightning protection	Do not mount the FieldPort SWA50 at the highest point of the system.Ground the housing of the FieldPort SWA50.

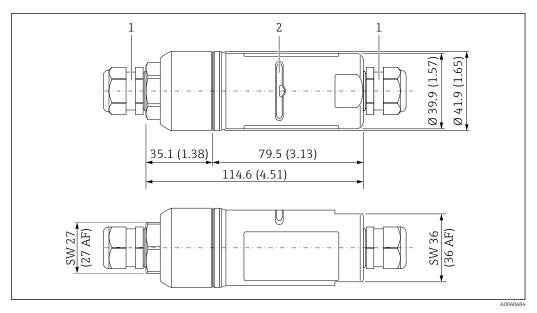
Environment

Ambient temperature range	-40 to +70 °C (-40 to +158 °F)
Storage temperature range	–40 to +85 °C (–40 to +185 °F)
Climate class	As per IEC 60068-2-38 test Z/AD
Degree of protection	When housing is closed, tested according to: IP68 / NEMA 6P (24 h at 1 m under water) IP66 / NEMA 4X
Vibration resistance	As per IEC 60068-2-64:2008 • a(RMS) = 50 m/s ² • f = 5 to 2000 Hz • t = 3 planes x 2 h
	Vibration resistance tested only for "remote mounting" version.
Shock resistance	As per IEC 60068-2-27:2008 300 m/s² [= 30 gn] + 18 ms
Electromagnetic compatibility (EMC)	Electromagnetic compatibility as per EN 61326 series and NAMUR recommendation EMC (NE 21)

Mechanical construction

Design, dimensions

"Remote mounting" version

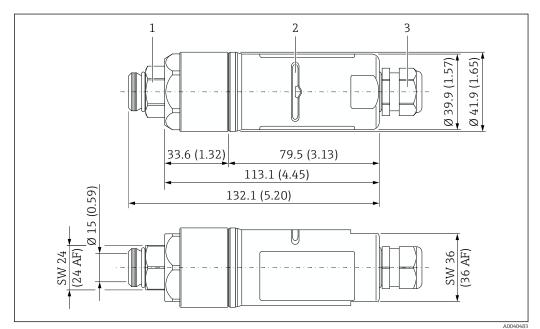


■ 13 Dimensions of "remote mounting" version in mm (in)

1 M20 cable gland

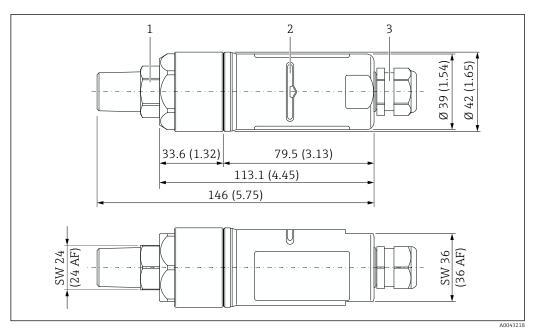
2 Transmission window

"Direct mounting" version



■ 14 Dimensions of "direct mounting with M20" version in mm (in)

- 1 Connection adapter with M20 thread
- 2 Transmission window
- 3 M20 cable gland



■ 15 Dimensions of "direct mounting with NPT" version in mm (in)

- 1 Connection adapter with 1/2 NPT thread
- 2 Transmission window
- 3 M20 cable gland

Weight Max. 500 g

Materials

Housing

Stainless steel 1.4404 (316L)

Cable glands

Plastic or brass, depending on the version. See ordering information.

Connection adapter

- M20 thread: stainless steel. 1.4404 (316L)
- NPT 1/2" thread: stainless steel. 1.4404 (316L)

Seals

- Design ring (housing cover seal): PC
- O-ring: EPDM
- Transmission window seal: silicone

Operability You have the following options to operate the FieldPort SWA50:

Operating concept	 You have the following options to operate the FieldPort SWA50: Via the Endress+Hauser SmartBlue app for mobile devices Via an Endress+Hauser Field Xpert SMTxx tablet PC Via the Endress+Hauser FieldCare SFE500 field device configuration tool
Local operation	You can enable and disable the following functions via DIP switches. Bluetooth communication Firmware update Configuration via Bluetooth The DIP switches are located on the electronic insert.

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**.

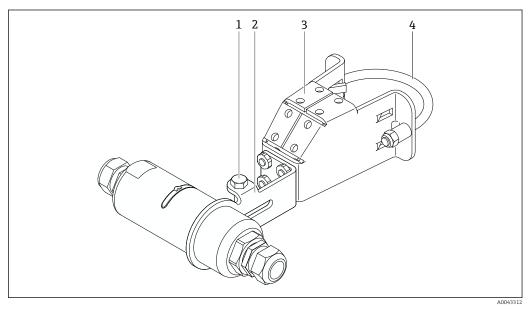
Accessories

Various accessories are available for the device, and can be ordered with the device or at a later stage from Endress+Hauser. Detailed information on the specific order code is available from your local Endress+Hauser sales organization or on the product page of the Endress+Hauser website: www.endress.com.

Device-specific accessories

Mounting bracket

Order number 71520242 Material Stainless steel 1.4404 (316L)



🖻 16 FieldPort SWA50 mounted via optional mounting bracket

- *1 Hexagonal-headed bolt for securing and grounding*
- 2 Support bracket
- 3 Mounting bracket
- 4 Round bracket

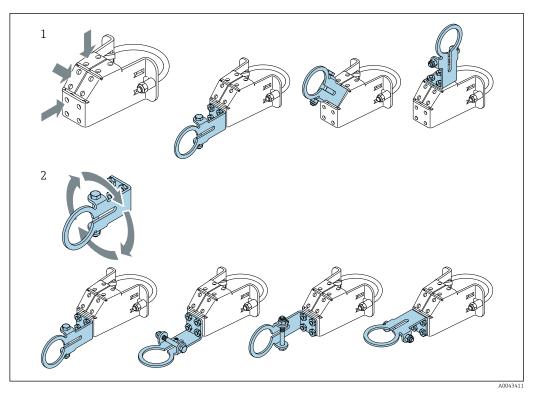
Mounting and alignment options

The mounting bracket can be mounted as follows:

- On pipes with a maximum diameter of 65 mm
- On walls

The FieldPort can be aligned as follows using the support bracket:

- Via the various mounting positions on the mounting bracket
- By rotating the support bracket

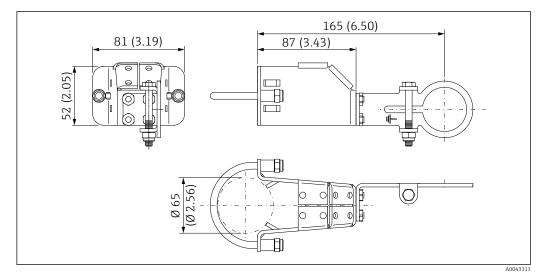


■ 17 Alignment options via support bracket

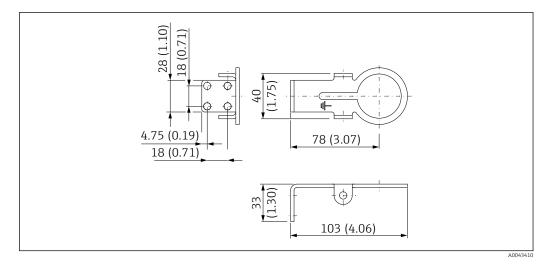
- Various mounting positions on support bracket By rotating the support bracket
- 2

Dimensions

1



I8 Dimensions of mounting bracket – pipe mounting



📧 19 Dimensions of retaining bracket – wall mounting

Supplementary documentation

Standard documentation SWA50	Operating Instructions • Bluetooth: BA01987S • WirelessHART: BA02046S Brief Operating Instructions • Bluetooth: KA01707S • WirelessHART: KA01436S Security Manual SD02984S www.endress.com/SWA50
Supplementary device- dependent documentation for SWA50	All explosion-protection data are provided in separate Ex documentation. The relevant Ex documentation is delivered with the Ex devices as standard. You can also find the Ex documentation via the Product Configurator $\rightarrow \square 16$.
Standard documentation for SGC200	Technical Information TI01468S Operating Instructions BA02058S
Standard documentation for SGC500	Technical Information TI01525S Operating Instructions BA02035S
Standard documentation for SMT50	Technical InformationTI01555SOperating InstructionsBA02053S
Standard documentation for SMT70	Technical Information TI01342S Operating Instructions BA01709S

Standard documentation for SMT77	Technical Information TI01418S
	Operating Instructions BA01923S
Standard documentation for SWA70	Technical Information TI00026S
	Operating Instructions BA00061S
Standard documentation for SWG50	Technical Information TI01677S
	Operating Instructions BA02235S

Radio approvals

Europe	This device meets the requirements of the Radio Equipment Directive RED 2014/53/EU. The applicable standards are listed in the EU declaration of conformity.
Canada and United States	FCC ID: LCGSWA50
	IC: 2519A-SWA50
	This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s).
	 Operation is subject to the following two conditions: this device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation.
	Changes or modifications made to this equipment not expressly approved by Endress+Hauser SE+Co. KG may void the FCC authorization to operate this equipment.
	This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
	 If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: reorient or relocate the receiving antenna increase the separation between the equipment and receiver connect the equipment into an outlet on a circuit different from that to which the receiver is connected consult the dealer or an experienced radio/TV technician for help with radiofrequency radiation exposure information.
	This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm (7.87 in) between the radiator and your body.
	This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
	Changes or modifications made to this device that are not expressly approved by Endress+Hauser may void the FCC authorization to operate this device. This device must be installed to ensure a minimum antenna separation distance of 20 cm from all persons.
	Français

Le présent appareil est conforme aux CNR d'industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes :

- L'appareil ne doit pas produire de brouillage, et
- L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Les changements ou modifications apportées à cet appareil non expressément approuvée par Endress+Hauser SE+Co. KG peut annuler l'autorisation FCC d'utiliser cet appareil.

Déclaration d'exposition aux radiations

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm (7.87 in) de distance entre la source de rayonnement et votre corps.

Ce transmetteur ne doit pas être placé au même endroit ou utilisé simultanément avec un autre transmetteur ou antenne.

Standard ANATEL mit Nr 00291-22-07318

Resolução 680 - ATO 14448

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados. Para maiores informações, consulte o site da ANATEL – www.gov.br/anatel.

CISPR22

Este produto não é apropriado para uso em ambientes domésticos, pois poderá causar interferências eletro-magnéticas que obrigam o usuário a tomar medidas necessárias para minimizar estas interferências.



México	IFETEL
	 La operación de este equipo está sujeta a las siguientes dos condiciones: (1) Es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) Este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.
UAE	TRA REGISTERED No.: ER97368/21
Qatar	Type Approval Reference: CRA/SM/2024/S-0016031
Japan	電気通信事業法
	Japanese Radio Law and Japanese Telecommunications Business Law Compliance.
	This device is granted pursuant to the Japanese Radio Law (電波法) and the Japanese Telecommunications Business Law (電気通信事業法).
	This device should not be modified (otherwise the granted designation number will become invalid).
Thailand	เครื่องโทรคมนาคมและอุปกรณ์นี้ มีความสอดคล้องตามข้อกำหนดของ กสทช.
	(This telecommunication equipment is in compliance with NBTC requirements.)

Brasil



(This radio communication equipment is exempted from requiring a license, user license, or radio communication station license as per NBTC notification regarding radio communication equipment and radio communication station has been exempted from requiring a license according to radio communication act B.E.2498.)

Indonesia

Cert. ID: **78107/SDPPI/2021** PLG ID: **4962**





South Korea	방송통신기자재등의 적합등록 필증
	(Registration of Broadcasting and Communication Equipments)
	기자재명칭 (제품명칭) : 특정소출력 무선기기 (무선데이터통신시스템용 무선기기)
	(Equipment code: LARN8 Registration No.: R-R-EH7-SWA50)
	해당 기자재는「전파법」제58조의2 제3항에 따라 등록되었습니다.
	(It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.)
Other radio approvals	All available radio approvals can be found on the product page of the FieldPort SWA50 or in the Endress+Hauser downloads area.
	Certificates and approvals: $\rightarrow \cong 16$

A0047301



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