Operating Instructions Field Xpert SMT77

Universal, high-performance tablet PC for device configuration in Ex Zone 1 areas





Change history

Product version	Operating Instructions	Changes	Comments
1.00.xx	BA01923S/04/EN/ 01.18	-	-
1.04.xx	BA01923S/04/EN/ 02.19	New screenshots Chapter 1.2.3 Chapter 4.2.1 Chapter 8.2 Chapter 8.4 Chapter 8.7.1 Chapter 8.7.2 Chapter 8.8	- New symbols Manufacturer address "Bluetooth" connection Renewing the license Offline use case Link to Netilion Library Uploading a photo to the Netilion Library
1.05.xx	BA01923S/04/EN/ 03.20	New screenshots Chapter 1.2.3 Chapter 4.2 Chapter 8.2 Chapter 8.4 Chapter 8.7 Chapter 8.8 Chapter 8.9	- New symbols Nameplate "Bluetooth" and "WLAN" connection Renewing the license New Netilion Library chapter Scanner App Uploading a Heartbeat Verification report to the Netilion Library
1.05.xx	BA01923S/04/EN/ 04.22	New screenshots Chapter 5.3 Chapter 10.1 Appendix	Screenshots in English from this version Software update service Maintenance Protecting mobile devices

Table of contents

1	About this document 4
1.1	Document function 4
1.2	Symbols 4
1.3	Acronyms used 6
1.4	Documentation 7
1.5	Registered trademarks 7
2	Basic safety instructions 7
2.1	Requirements for the personnel 8
2.2	Designated use 8
2.3	Workplace safety 8
2.4	Operational safety 8
2.5	Product safety
2.6	IT security 9
3	Product description9
3.1	Product design 12
3.2	Application 13
3.3	License model 13
4	Incoming acceptance and
	product identification 14
4.1	Incoming acceptance 14
4.2	Nameplate
4.3	Product identification 15
4.4	Storage and transport 15
5	Installation 16
5.1	System requirements
5.2	Installing the software
5.3	Updating the software
5.4	Removing the software 17
6	Operation 17
7	Commissioning 17
8	Operation 18
8.1	How to start 18
8.2	Establishing a connection to the device
8.3	Information and software settings 27
8.4	Additional information about the
5.1	software
8.5	Fieldgate PAM SFG600 HART via
	PROFINET
	PROFINE1
8.6	Automatic DTM update

8.7 8.8 8.9 8.10	Netilion Library37Scanner App41Uploading a Heartbeat Verificationreport to the Netilion Library42RFID44
9 9.1	Maintenance 45 Battery 45
10 10.1 10.2 10.3 10.4	Repair 48 General information 48 Spare parts 48 Return 48 Disposal 48
11	Accessories 49
12	Technical data 49
13 13.1	Appendix49Protecting mobile devices49

1 About this document

1.1 Document function

These Operating Instructions contain all the information that is required in various phases of the life cycle of the device: from product identification, incoming acceptance and storage, to mounting, connection, operation and commissioning through to troubleshooting, maintenance and disposal.

1.2 Symbols

1.2.1 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.

1.2.2 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.
i	Tip Indicates additional information.
Ĩ	Reference to documentation.
	Reference to page.
	Reference to graphic.

Symbol	Meaning
►	Notice or individual step to be observed.
1., 2., 3	Series of steps.
L.	Result of a step.
?	Help in the event of a problem.
	Visual inspection.

1.2.3 Field Xpert icons

Symbol	Meaning
ወ	Switch tablet on and off.
	Windows button
((_T))	Wireless communication (WLAN, WWAN, GPS, Bluetooth)
	Battery
<u>-8</u> 3	Scanner App
A	Open the home screen of the device configuration software.
<	Jump back to the last page opened.
	Information and software settings.
?	Additional information about the software.
	Minimize the program.
スピ	Enable full screen.
<u>ук</u>	Disable full screen.
\times	Close the program.
•	Scroll up

Symbol	Meaning
-	Scroll down
Ċ	Update
\odot	Expand information.
\odot	Collapse information.
►	Connect automatically
₹ _{to}	Connect with wizard (manual connection)
((10	Connect with Endress+Hauser WLAN and Bluetooth devices
NU	RFID
\bigcirc	Cloud
☆	Favorites
	Keypad
õ	Camera
7	Link to Netilion Library
Q	Attach photos and PDFs to an asset in Netilion Library
►	Start
₽	Trash

1.3 Acronyms used

Acronyms	Explanation
DFS	Dynamic Frequency Selection
FCC	Federal Communications Commission
HF	High frequency [RF = radio frequency]

Acronyms	Explanation
SD	Secure Digital
WWAN	Wireless Wide Area Network

1.4 Documentation

Field Xpert SMT77

Technical Information TI01418S/04/EN

Field Xpert SMT70

- Technical Information TI01342S/04/EN
- Operating Instructions BA01709S/04//EN

Fieldgate PAM SFG600

- Technical Information TI01408S/04/EN
- Brief Operating Instructions KA01400S/04/EN

1.5 Registered trademarks

Windows 10 IoT Enterprise[®] is a registered trademark of Microsoft Corporation, Redmond, Washington, USA.

Intel[®] Core[™] is a registered trademark of Intel Corporation, Santa Clara, USA.

BARTEC is a registered trademark of BARTEC Top Holding GmbH, Bad Mergentheim/Germany.

FOUNDATIONTM 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.

 $\mathsf{PROFIBUS}^{\textcircled{B}}$ is a registered trademark of the $\mathsf{PROFIBUS}$ User Organization, Karlsruhe/Germany.

Modbus is the registered trademark of Modicon, Incorporated.

IO-Link[®] is a registered trademark of the IO-Link Community c/o PROFIBUS User Organization, (PNO) Karlsruhe/Germany - www.io-link.com

All other brand and product names are trademarks or registered trademarks of the companies and organizations in question.

2 Basic safety instructions

The Operating Instructions supplied with the device and containing the safety instructions of the tablet PC manufacturer must be observed.

2.1 Requirements for the personnel

The personnel for installation, commissioning, diagnostics and maintenance must fulfill the following requirements:

- Trained, qualified specialists must have a relevant qualification for this specific function and task.
- Are authorized by the plant owner/operator.
- Are familiar with federal/national regulations.
- Before starting work, read and understand the instructions in the manual and supplementary documentation as well as the certificates (depending on the application).
- ► Follow instructions and comply with basic conditions.

The operating personnel must fulfill the following requirements:

- Are instructed and authorized according to the requirements of the task by the facility's owner-operator.
- ▶ Follow the instructions in this manual.

2.2 Designated use

The tablet PC for device configuration enables mobile plant asset management in hazardous and non-hazardous areas. It is suitable for commissioning and maintenance staff to manage field instruments with a digital communication interface and to record progress. This tablet PC is designed as a complete solution and is an easy-to-use, touch-enabled tool which can be used to manage field instruments during their entire life cycle. It provides extensive, pre-installed driver libraries and offers access to the "Industrial Internet of Things" as well as to information and documentation during the entire life cycle of the device. The tablet PC offers a modern software user interface and the option of online updates based on a secure Microsoft Windows 10 multi-functional environment.

2.3 Workplace safety

The tablet PC is used for device configuration. Incorrect configurations may lead to unwanted or hazardous situations in a plant. The device configuration software is already installed on the tablet PC upon delivery. These Operating Instructions describe how to commission and operate the tablet PC.



- 📮 Commissioning→ 🖺 17
- Operation $\rightarrow \stackrel{\circ}{\cong} 18$

2.4 Operational safety

Risk of injury!

- Operate the device in proper technical condition and fail-safe condition only.
- ▶ The operator is responsible for the interference-free operation of the device.

Modifications to the device

Unauthorized modifications to the device are not permitted and can lead to unforeseeable dangers:

► If, despite this, modifications are required, consult with Endress+Hauser.

Repair

To ensure continued operational safety and reliability:

- ► Carry out repairs on the device only if they are expressly permitted.
- Observe federal/national regulations pertaining to the repair of an electrical device.
- ► Use only original spare parts and accessories from the manufacturer.

2.5 Product safety

The tablet PC is designed in accordance with good engineering practice to meet state-of-theart safety requirements, has been tested, and left the factory in a condition in which it is safe to operate.

It meets general safety standards and legal requirements. It also complies with the EC directives listed in the device-specific EC Declaration of Conformity. Endress+Hauser confirms this by affixing the CE mark to the device.

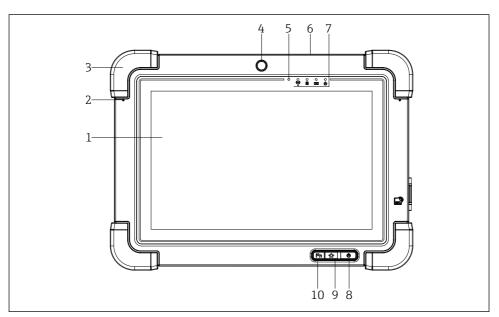
2.6 IT security

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

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

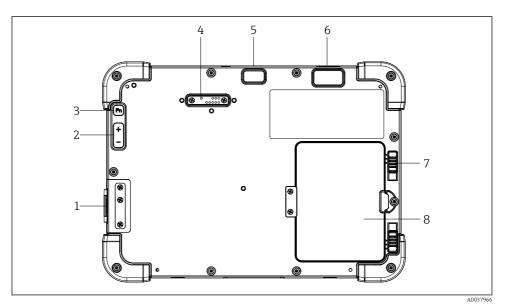
3 Product description

The Field Xpert SMT77 tablet PC is a robust and flexible industry tablet PC for harsh working environments. It has numerous international certifications and can be used worldwide. It is certified for ATEX and IECEx Zone 1 as well as for UL Class I Division 1. Other national certifications are available on customer request. Thanks to its many functions, the Field Xpert SMT77 is the perfect companion for service technicians, engineers and project managers in mobile applications and in industry.

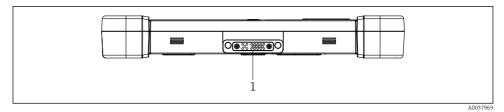


I Front view of tablet PC

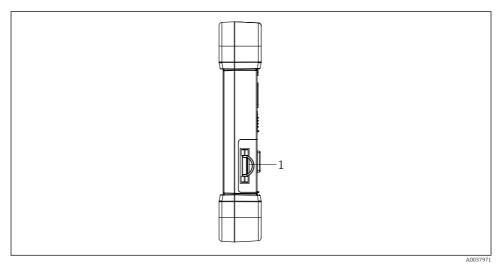
- 1 Full HD 10-finger multi-touch display
- 2 2 x digital microphone including noise cancellation
- 3 Rubber bumper
- 4 Front camera
- 5 Brightness sensor
- 6 Kensington lock
- 7 LED indicators
- 8 On/off button
- 9 Home button
- 10 Function key (Fn1), can be programmed as required



- 2 Rear view of tablet PC
- 1 I/O ports
- 2 Volume
- 3 Function key
- 4 Expansion port for add-on modules
- 5 5 MP auto-focus camera with flash
- 6 1D/2D imager SE4500 from Zebra Technologies Corporation (optional)
- 7 Multi-stage battery compartment lock
- 8 Empty module/external battery (hot-swappable) for battery compartment



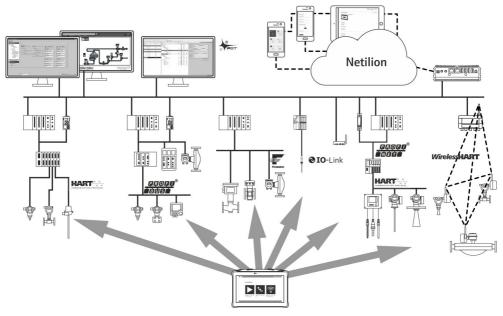
- ☑ 3 Bottom view of tablet PC
- 1 Port for docking station



☑ 4 Side view of tablet PC

1 Charger connection, Micro SIM card slot, MicroSD card slot, USB 2.0 port

3.1 Product design



E 5 Network architecture

3.2 Application

The tablet PC for device configuration enables mobile plant asset management in hazardous and non-hazardous areas. It is suitable for commissioning and maintenance staff to manage field instruments with a digital communication interface and to record progress. This tablet PC is designed as a complete solution and is an easy-to-use, finger-operated tool which can be used to manage field instruments during their entire life cycle. It provides pre-installed driver libraries and offers access to the "Industrial Internet of Things" as well as to information and documentation during the entire life cycle of the device. The tablet PC offers a modern software user interface and the option of online updates based on a secure Microsoft Windows 10 multi-functional environment.

3.3 License model

The device configuration software is already installed on the tablet PC upon delivery.

To use the software as designated, the software must be activated. A user account is required in the Endress+Hauser software portal for this purpose. This account might first need to be created via the "Create account" function.

Activating the device configuration software package

- 1. Double-click **Field Xpert** on the start screen.
 - └ The software licensing page opens.



2. Click Activate Software.

└ The dialog box where you can enter the software portal data opens.

_ <		$-\frac{\kappa}{\kappa}$
	To activate the software you need access to the Software Portal. Please fill in your credentials or register to get a new account.	
	Password Thave forgotten my password	
	Activate Create Account Cancel	
	N# 👛 🕁	11:33 35% 28/11/2018

- 3. Enter the **E-mail address** and **Password** and click **Activate**.
 - └ The dialog box with the message "The application has been activated successfully." opens.

4. Click **Show license**.

- ← The dialog box with the licensing information opens.
- 5. Click Close.

The home screen of the device configuration software program opens.

4 Incoming acceptance and product identification

4.1 Incoming acceptance

Visual inspection

- Check the packaging for visible damage arising from transportation
- Open the packaging carefully
- Check the contents for visible damage
- Check that the delivery is complete and nothing is missing
- Retain all the accompanying documents

Return the device to Endress+Hauser in the original packaging where possible.

The device may not be put into operation if the contents are found to be damaged beforehand. In this case, please contact your Endress+Hauser Sales Center: www.addresses.endress.com

The scope of delivery comprises:

- Field Xpert SMT77 tablet PC
- AC charger (100 to 240 V_{AC}, 1.5 A, 50 to 60 Hz) with connecting cable as per order
- Software and interfaces/modem as per order

4.2 Nameplate



- 1 Endress+Hauser software ID
- 2 Endress+Hauser product name
- 3 Endress+Hauser serial number

4.3 Product identification

4.3.1 Manufacturer's address

BARTEC GmbH, 97980 Bad Mergentheim, Germany is responsible for the tablet hardware and produces it exclusively for Endress+Hauser.

Hardware

BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany

www.bartec.de

Software

Endress+Hauser Process Solutions AG Christoph Merian-Ring 12 CH-4153 Reinach Switzerland

www.endress.com

4.4 Storage and transport



Always use the original packaging when transporting the product.

4.4.1 Storage temperature

-20 to 50 °C (-4 to 122 °F)

5 Installation

5.1 System requirements

The software is already installed on the tablet PC upon delivery.

5.2 Installing the software

The device configuration software is already installed on the tablet PC upon delivery. The device configuration software must be activated.



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Licensing model $\rightarrow \square 13$

5.3 Updating the software

Software update service

The inclusive maintenance period starts with the creation of the license and ends automatically after one year (reference date). Irrespective of when the software update service is purchased, each additional software update service subsequently purchased will follow on from the last reference date without interruption. If the purchase date is after the reference date, the new maintenance period will first cover the gap between the reference date and the creation of the software update service that has been purchased.

It is also important to note that software updates can also be loaded at a later point in time provided that the software release has been released within a valid, active maintenance period.

1. Click the **?** icon on the home page of the device configuration software.

└ The dialog box with the licensing information opens.

2. Click the **Update** tab.

← The dialog box with the update information opens.

♠ <	License	Update	EULA	Abost				- "x" ×
				DTMs/Drivers Updat	te			
				symbol in the status After signing in, the I	Endress+Hauser Netilion Library bar) to activate the automatic D' DTMs will be downloaded in the ill be installed silently.	M update function.		
				Last check for update		6/26/2019 3:13 PM		
					Check for update			
				Application Softwar	e Update			
				Last check for update		6/26/2019 9:59 AM		
				Field Xpert application	n update service will expire on	1/8/2020 11:59 PM		
					Check for update			
							© № 🛆 🕁	• 📕 🔤 1:01 PM 99% 🖾 6/27/2019

3. Click **Check for updates**.

└ The device configuration software searches for updates.

5.4 Removing the software

The device configuration software may not be uninstalled.

6 Operation

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Information regarding operation can be found in the manufacturer's Brief Operating Instructions. www.bartec.de

7 Commissioning

Information regarding commissioning can be found in the manufacturer's Brief Operating Instructions. www.bartec.de

8 Operation

NOTICE

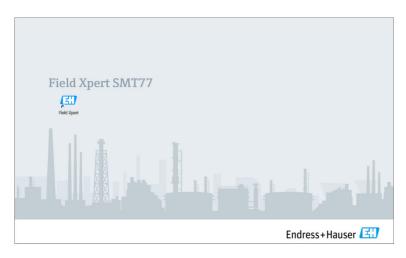
The use of unsuitable objects to operate the device

can damage the screen.

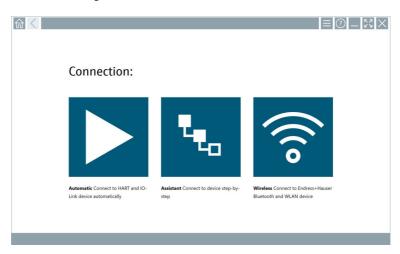
• Do not use pointed objects for the screen.

8.1 How to start

The user must accept the terms of use the first time the device configuration software is started.



- Double-click **Field Xpert** on the start screen.
 - └ The device configuration software starts.



8.2 Establishing a connection to the device

A connection can be established in one of three ways:

- Automatically
- Using a wizard (manually)
- Wi-Fi and Bluetooth

Connect the desired modem or interface. Wait until the modem or interface has been detected (e.g. USB icon).

The following	modems/inter	rfaces are sup	oported by the	tablet PC:
, ,				

Communication protocol	Connection	Modems/interfaces
HART		Commubox FXA195 4 to 20 mA
	€ _{€0}	
		MACTek Bluetooth modem 4 to 20 mA
	فو	
	لالون	Memograph RSG45 (4 to 20 mA)

Communication protocol	Connection	Modems/interfaces
		MACTek USB modem (4 to 20 mA)
	t _{eo}	
		FieldPort SFP20
	Ne.	
	تو	Fieldgate SFG250
	₹ _{₹0}	Tank Scanner NXA820
		BARTEC add-on module
	t _{to}	
WirelessHART	•••	WirelessHART adapter SWA70
	₹ _{₹0}	WirelessHART adapter SWG70
HART via PROFINET	B	Fieldgate PAMSFG600
	The Remote Wizard connection is visible in combination with the Fieldgate PAM SFG600.	
PROFIBUS	****	Softing PROFIusb
	فور	Softing PBpro USB
	تو	FieldPort SFP20 FieldPort SFP20 Fieldgate SFG250 Tank Scanner NXA820 BARTEC add-on module WirelessHART adapter SWA70 WirelessHART adapter SWG70 Fieldgate PAMSFG600 Fieldgate PROFIusb
	تو	Fieldgate SFG500
FOUNDATION Fieldbus	t _{eo}	NI USB
	t _{eo}	FieldPort SFP20
	₹ _{₹0}	Softing FFusb

Connection	Modems/interfaces
ч _о	Modbus serial
	Commubox FXA291 CDI
₹ _{₹0}	
ч _о	Commubox FXA291 IPC, ISS, PCP
14 ₀	Commubox FXA193 IPC, ISS
\$ ₆	TXU10 V2 CDI
	TXU10 V2 PCP
₹ _{€G}	
₹ _{€0}	TXU10 V1 PCP, CDI
	CDI USB
₹ _{€0}	
₹ 4 0	CDI TCP/IP
्रि	Endress+Hauser Bluetooth devices
A0041855	
	Endress+Hauser Wi-Fi devices
A0041855	
	FieldPort SFP20
₹ _{₹0}	
	→ → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → <t< td=""></t<>

"Automatic" connection

► ☆ <				D_\$3×
Connect	ion:			
Automatic Connect Link device automat		nnect to device step-by-	Res Connect to Endress+Hauser coth and WLAN device	

Tap the 🕨 icon.

└ The device configuration software establishes a connection to the connected device.

"Assistant" connection

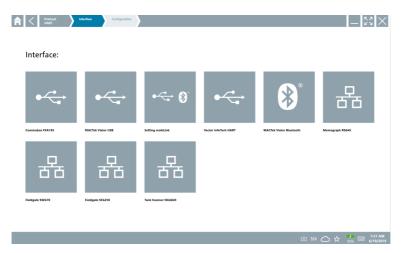
1.	合 <			
		Connection:		
		Automatic Connect to HART and ID-	Assistant Connect to device step-by-	Wireless Connect to Endress+Hauser
		Link device automatically	step	Bluetooth and WLAN device

Tap the ⊾ icon.

└ An overview of all the protocols available opens.

俞	Protocol	Interface Configuration				_ <u>*</u> \$ ×
	Protocol:					
	HART AND A CONSTRUCTION OF A C	Profess Connect to PROfess De or PROFess 34 deposes	FOUNDATION FOUNDATION FOUNDATION Fielded downs in function mode or as sequence.	Active Correct to Motive devices corr setal.	€ IO-Link	Defense House Interfece Convect In devices using CD, ISS, IPC or ADD
					(H	╡ © № 🛆 ☆ 👷 🔤

- 2. Select a communication protocol.
 - ← An overview of all the modems available opens.



- 3. Select a modem.
 - └ The device can be configured.

"Wireless" connection

命く				? <u> </u>
C	Connection:			
		۹.,	(((o	
	atomatic Connect to HART and IO- nk device automatically	Assistant Connect to device step-by- step	Wireless Connect to Endress+Hauser Bluetooth and WLAN device	

Tap the 🛜 icon.

← The live list appears with all the available Endress+Hauser Wi-Fi and Bluetooth devices. This list can be filtered for Wi-Fi and Bluetooth devices.

∂ <		- ²²
T 😣 🔻 🛧 💠 I	9	Y O
vice Tag	Process Values	Signal Strength
M591_CM82		\$
EH_Promass 300 500_10020	0 Physical address (MAC): 00:07:05:11:af:d0, Secured	Ref 1
2618_234_M01		>
CM-FMR20	PV: 0.725 m	>
Gamma Factory		>
MCT 1 SB factory		>
MTMT71_S8_admin		>
Picomag 7kb		<u></u>
1 тмт72_dн		>
MFMR56 SB admin		≈ ►
MFEL62 SB factory	PV: bde_enum_forkcovered SV: 569.8 Hz	>
EH_Promag 300 500_0C1900	D Physical address (MAC): 00:07:05:13:1e:3a, Secured	<u> </u>
you have your WLAN device configured a	a client in your network?	Click here to conn
nber of items: 26		

"Bluetooth" connection

1. Tap the 🔢 icon to filter for Bluetooth devices.

- 2. Tap the icon next to the device that should be configured.
 - └ The Login dialog box appears.

♠ <			К Л И Ч	Х
=				
	UserName			
	Pessend			
	Login			
	Additional Information:			
			A80	01/ 3
		1 (1) (4)	2	
		7		• • x • z •
		•	- 11	
		тав	•	
		- 1×6	т •	
		CLEAN		
	© N 🔿 🤋			

- 3. Enter the **User Name** (admin) and **Password** and tap **Login**.
 - └ The dialog box for initial commissioning opens.
- The initial password corresponds to the serial number of the device.

"WLAN" connection

- 1. Tap the 💿 icon to filter for WLAN devices.
- **2.** Tap the **b** icon next to the device that should be configured.
 - └ The Connect to WLAN device dialog box appears.

命く。	energy with finite Carliguer Cannotti Carliguer WLAh davie	- <u> </u> []
	Connect to WLAN device	
	Device name EH_Promass 300 500_1002000 Password	
	Connect	
	_	
		🚝 🖻 NI 🛆 🏠 🗐 🖼

3. Enter the **Password** and tap **Connect**.

- └ The connection window opens.
- 4. Do not change the IP address leave it as is.
- 5. Tap the ► icon.
- 6. Tap Vendor specific.
- 7. The DeviceDTM opens and the device can be configured.
- The initial password corresponds to the serial number of the device.
- Tap **Click here to connect** to establish the connection directly via an IP address.

8.3 Information and software settings

- ► Click the ≡ icon in the main menu.
 - ← An overview of all the information and settings opens.

8.3.1 DTM catalog

- Click the **DTM Catalog** tab.
 - ← An overview of all the DTMs available opens.

on	DTM Device Type	Version	Manufacturer	Date	Protocol	State
9						New
>	_D0-MID-Ex12.FF Rev 1	DDRev 0x4	Pepperl+Fuchs GmbH (IDTM)	2017-01-03	Fieldbus FF H1	ок
>	0000E00084 Name not available Rev 1	DD Rev 0x1	Manufacturer Expansion (IDTM)	2019-05-14	HART	ок
,	006003E084 Name not available Rev 1	DD Rev 0x1	Power-Genex Ltd. (IDTM)	2019-05-14	HART	ОК
•	0990 Fieldbus Switch Box Rev 4	DDRev 0x1	EL-O-MATIC BV (IDTM)	2000-09-01	Fieldbus FF H1	ОК
•	1000 Rev 3	DORev 0x1	ROSEMOUNT ANALYTICAL DIVISION (IDTM)	2001-05-09	Fieldbus FF H1	ок
>	1036 Rev 1	DD Rev 0x1	Rosemount Analytic (IDTM)	2019-05-14	HART	ОК
•	1036 Rev 2	DD Rev 0x1	Rosemount Analytic (IDTM)	2019-05-14	HART	ок
•	1066 Rev 1	DD Rev 0x1	Rosemount Analytic (IDTM)	2019-05-14	HART	ок
	1066 Rev 2	DD Rev 0x1	Rosemount Analytic (IDTM)	2019-05-14	HART	ок
•	1066-C/T-FF Conductivity Analyzer Rev 1	DDRev 0x3	ROSEMOUNT ANALYTICAL INC. (IDTM)	2011-12-16	Fieldbus FF H1	ОК
•	1066-DO/CL/OZ-FF Amperometric Analyzer Rev 1	DDRev 0x3	ROSEMOUNT ANALYTICAL INC. (IDTM)	2012-01-18	Fieldbus FF H1	ок
>	1066-P-FF Fieldbus Transmitter Rev 1	DORev 0x5	ROSEMOUNT ANALYTICAL INC. (IDTM)	2010-12-21	Fieldbus FF H1	ОК
>	1151 Rev 1	DD Rev 0x1	Rosemount (IDTM)	2019-05-14	HART	ок
	1151 Rev 2	DD Rev 0x1	Rosemount (IDTM)	2019-05-14	HART	ок
119						

Device driver offline view

► Double-click the desired device driver.

The offline view of the device driver opens.



This function is only possible if the device driver supports the offline view.

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If other device drivers (DTMs) are required, they can be installed additionally. After an automatic or manual 🕐 update, these drivers appear in the DTM catalog.

8.3.2 Event log

- Click the **Event Log** tab or the gray status bar.
 - ← An overview of all the events opens.

A	C DTM Catalog	Event Log Favorites Reports	Firmware Settings	يم الايم	\times
)pe	Time	Event			
	6/26/2019 3:16:16 PM 6/26/2019 3:13:14 PM	Picture WIN_20190626_15_16_05_Pro.jpg has been successful DTMs and drivers are up-to-date.	ly attached to asset in Netilion library.		
	6/26/2019 3:13:11 PM	Checking for updates of DTMs and drivers.			
	6/26/2019 9:59:10 AM 6/26/2019 9:59:10 AM	Bluetooth server LiveList subscribed. Connected to Bluetooth server.			
umbe	r of items: 5				
				INI Antian Stangt ☆ 500 12:1 100% INI Antian Stangt ☆ 100% III 6/277	10 F

If event logs are already listed, they can be deleted using the **Clear** button.

8.3.3 Favorites

- ► Click the **Favorites** tab or the ☆ icon.
 - └ An overview of all the favorites opens.

	DTM Catalog	Event Log	Favorites	Reports	Firmware	Settings	- ^[2]
Name		Description					Actions
Number of items: 0							+
number of items: 0							
							N ♦ Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addisas Stangel Addis Addisas Stangel Addisas Addis Addisas Addis Addis Addis Addis Addis

8.3.4 Managing reports

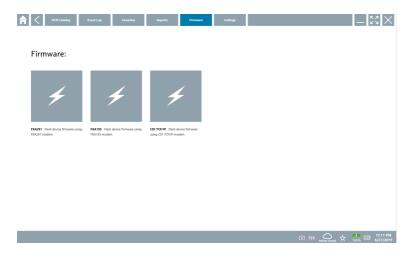
- 1. Click the **Reports** tab.
 - └ The overview with the "Manage saved device reports" folder opens.



- 2. Click the "Manage saved device reports" folder.
 - ← An overview of all the saved device reports opens.

8.3.5 Firmware

- Click the **Firmware** tab.
 - └ An overview of the firmware opens.



8.3.6 Settings

Language

- 1. Click the **Settings** tab.
 - └ The **Language** tab opens with an overview of all the languages available.

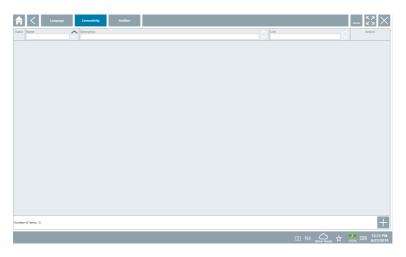
A Language	Connectivity Ne	tilion				_ <u>\$</u> 2 X
English	Deutsch	français	italiano	Nederlands	español	português
svenska	suomi	русский	polski	čeština	Türkçe	العربية
中文	日本語	한국어	Indonesia	Tiếng Việt	ไทย	
_					N NØ A010 Stand	☆ 100% 12:12 PM 6/27/2019

2. Select the desired language.

- 3. Click the \times icon.
 - └ The device configuration software closes.
- 4. Restart the device configuration software.
 - └ The selected language is saved.

Connection

- Click the **Connectivity** tab.
 - └ An overview of all the connections opens.



The "Connectivity" tab is relevant only in conjunction with the Fieldgate PAM SFG600 HART via PROFINET $\rightarrow \cong$ 35.

Netilion

- ► Click the **Netilion** tab.
 - └ An overview of data storage settings opens.

_ < □	guage Connectivity Netilian		$-\frac{\kappa_{\lambda}}{\kappa_{\lambda}} \times$
	Data storage settings		
	V Use Netilion central data storage		
	Upload asset information when going online to device		
	Vpload created reports		
		💿 Ni 🕰 🕹	12:13 PM 100% 6/27/2019

8.4 Additional information about the software

- ► Click the ? icon.
 - ← An overview of all the additional information opens.

8.4.1 License

- Click the **License** tab.
 - └ The dialog box with the licensing information opens.

A License	Update	EULA	About		ري لاي	\times
				e Management		
			Product Version	FieldCare SFE300		
			Serial number	1.04.00 P1000324342		
			Software ID	ULBVS-PQBXB-2U4J8-HSG7H-RBV4G		
			Licensee	Adrian Stangl / null		
			License usage	Perpetual		
			Usage period	This product is licensed.		
				tions Restinue		
					m Na 🔨 🛧 🏴 📼 🕬	1 PM

Field Xpert SMT71 must be ordered when the maintenance contract has expired. After Field Xpert SMT71 has been successfully ordered, the customer receives notification in the Field Xpert software (software version 1.05 and higher).

For software versions up to 1.04:

- After Field Xpert SMT71 has been successfully ordered: Click the License tab.
- 2. Click **Update license**.
- 3. Sign in once with email and password in the software portal.
 - └ The license has been renewed.

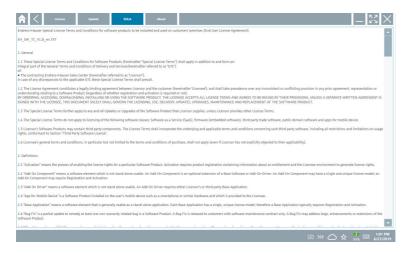
8.4.2 Update

- ▶ Click the **Update** tab.
 - └ The window with the updates opens.

f	<	License	Update	EULA	About					$\langle \times \rangle$
					DTMs/Drivers Update	,				
					symbol in the status b	ndress+Hauser Netilion Library a ar) to activate the automatic DT/ TMs will be downloaded in the b II be installed silently.	W update function.			
					Last check for update		6/26/2019 3:13 PM			
						Check for update				
					Application Software	Update				
					Last check for update		6/26/2019 9:59 AM			
					Field Xpert application	update service will expire on	1/8/2020 11:59 PM			
						Check for update				
								© № 🛆 🕁	, ,,,,,	1:01 PM 6/27/2019

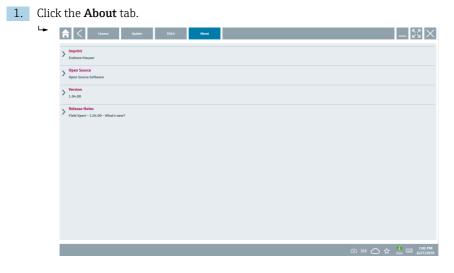
8.4.3 EULA

- Click the EULA tab.
 - ← The window with the Endress+Hauser Terms and Licensing Conditions opens.



8.4.4 Info

This tab contains information about the software currently installed, the manufacturer and the software source text.



An overview of all the information opens.

2. Click the \odot icon to view the information.

8.5 Fieldgate PAM SFG600 HART via PROFINET

The Fieldgate PAM SFG600 is a device configuration management gateway and supports HART devices via PROFINET networks. The HART devices must have a unique device TAG. Also, the devices must be in operation with a PROFINET controller and operated via the Siemens assembly ET200SP IM 155-6PN HF with the 4xl 2-wire HART analog modules with HART capabilities.



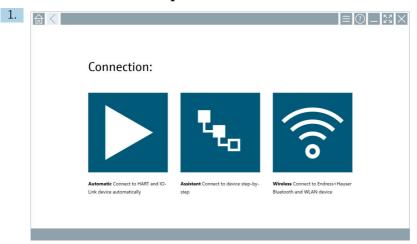
For detailed information on "Fieldgate PAM SFG600", see the Brief Operating Instructions

			≡ ⊘ _53×
Connection:			
Automatic Connect to HART and IO- Link device automatically	Assistant Connect to device step-by- tep	Virless Connect to Endress + Hauser Bluetooth and WLAN device	Remote Assistant Connect to remote device step-by-step
			😤 o Ni 🛆 ☆ 🎘 🖼

Click the 👿 icon.

└ The **Communication server** overview opens.

8.6 Automatic DTM update



Click the 🛆 icon in the status bar.

└ The "Sign in to Netilion Library" dialog box opens.

	Oolse	- Ky X
Sign in	n to Netilion Library	
E-Mail		
Password		
	Sign in	
	Count? Sign up password? Reset password	
		1:03 PM
	⊠ № 🛆 🛪 ,	99% 6/27/2019

- 2. Click Sign in.
- 3. Choose subscription (Basic/Plus/Premium).
- 4. Sign in with the Netilion data.
 - └ The tablet searches for DTMs in the background, and they are downloaded.
- 5. Confirm download.

8.7 Netilion Library

8.7.1 Uploading a device report to the Netilion Library

This function is possible with HART, PROFIBUS, FOUNDATION Fieldbus and IO-Link devices as well as via the Endress+Hauser Service interface (CDI).



Click the \bigcirc icon in the status bar.

└ The "Sign in to Netilion Library" dialog box opens.

	Gulier	- KN X
Sign i	n to Netilion Library	
E-Mail		
Password		
	Sign in	
	ccount? Sign up ur password? Reset password	
	@ N# 🔿 🛠 .	1:03 PM 99% - 6/27/2019

2. Click Sign in.

3. Choose subscription (Basic/Plus/Premium).

- 4. Connect device and open DTM.
 - └ Device is automatically stored in the Netilion Library.
- 5. Click "Save device report".
 - └ The device report is appended to the device in the Netilion Library.

8.7.2 Uploading a photo to the Netilion Library

- 1. Establish a connection to the device and open the DTM. Click the <a>[a] icon.
 - └ The camera opens.
- 2. Create a device photo.
 - └ The "New image found" dialog box opens.
- 3. Click Yes.
 - ← The photo is uploaded to the Netilion Library for the existing asset.

Uploading a photo from Camera Roll

- 1. Establish a connection to the device and open the DTM.
 - Click the 🕕 icon.
 - └ The dialog box opens.
- 2. Select the file type.
- 3. Select the photo from a directory in Field Xpert.
- 4. Click Yes.
 - ← The photo is uploaded to the Netilion Library for the existing asset.

8.7.3 Uploading a PDF to the Netilion Library

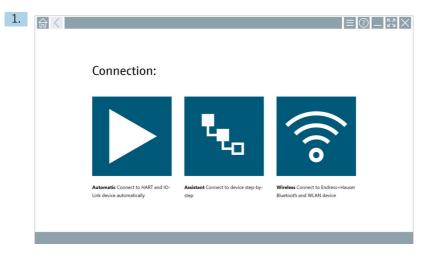
- Establish a connection to the device and open the DTM. Click the i icon.
 - └ The dialog box opens.
- 2. Select the file type.
- 3. Select the PDF from a directory in Field Xpert.
- 4. Click Yes.
 - ← The PDF is uploaded to the Netilion Library for the existing asset.

8.7.4 Uploading parameter data records to the Netilion Library

- 1. Click the 🛆 icon in the status bar and sign in.
- 2. Connect device and open DTM.
- 3. In the **Program functions** menu, click **Save device data**.
 - └ The parameter data records are uploaded to the Netilion Library for the existing asset.

8.7.5 Offline use case

Scanned devices, new photos, device reports (PDF) and parameter records are automatically saved in the offline cache. They are uploaded automatically once a new Internet connection is established.



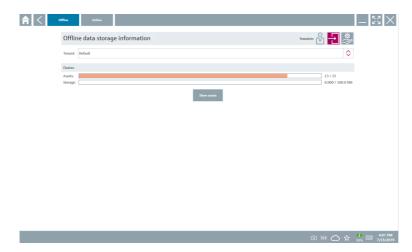
Click the 🛆 icon in the status bar.

└ The "Sign in to Netilion Library" dialog box opens.

⋒ <	Offline	Online		_ <u>*</u> * **
	Sign ir	n to Netilion Library		
	E-Mail			
	Password			
		Sign In		
		count? Sign up r password? Reset password		
			© № 🛆 🛠	1:03 PM 99% 6/27/2019

2. Click the **Offline** tab.

└ The "Offline data storage information" dialog box opens.



3. Click **Show assets**.

← An overview of all assets and documents appears.

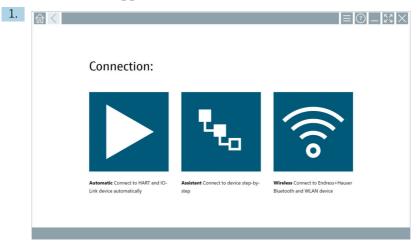
set filter							
mant: Default							
inufacturer	^	Product		Serial number		Created	Actions
3		TTX300 series		001A000800000058F9F7		7/4/2019 8:40:05 AM	-
Jocuments			Pictures				
ategory Name umber of items: 0			File name	File name Number of items: 0			
ange or idens. o			instruction i	0			
dress+Hauser				M5008D02000		7/4/2019 7:24:16 AM	Ť
dress+Hauser		Prowiri 200 PA		KA05BA19000		7/4/2019 7:43:32 AM	1
dress+Hauser				K100140438C		7/4/2019 7:56:42 AM	Ϋ
dress+Hauser		Cerabar S		99068F018E8		7/4/2019 8:08:46 AM	Ψ
dress+Hauser				H7000004428		7/4/2019 8:30:49 AM	Ť
dress+Hauser		TMT125		L8040304268		7/4/2019 8:55:18 AM	Ť
dress+Hauser		Cerabar S PMx7x		9401140109C		7/4/2019 9:40:42 AM	Ť
dress+Hauser		Deitabar S xMD x3x		dsmmy_001100090000002000FD		7/4/2019 10:30:48 AM	Ŷ
dress+Hauser		ITemp TMT182		dummy_001100C8000000598625		7/4/2019 10:42:45 AM	Ŷ
dress+Hauser		Cerabar S PMx x3x		dsmmy_00110007000000521D02		7/4/2019 11:12:59 AM	†

- 4. Click the 📋 icon to remove assets and documents.
- 5. Click the **Online** tab and sign in.
- 6. Click **Upload asset data**.
 - └ The dialog box with all of the data to upload opens.
- 7. Click Upload.

8.7.6 Link to Netilion Library

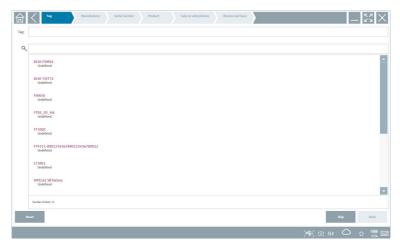
- 1. Click the 🖉 icon in the status bar.
 - └ The Netilion Library dialog box opens.
- 2. Sign in to the Netilion Library.

8.8 Scanner App



Click the 🔤 icon in the status bar.

└ The wizard to create a device in the Netilion Library is started.



2. Follow the instructions of the wizard and enter or select the data step by step.

- 3. Click Save.
 - └ The device is stored in the Netilion Library.
- 4. When the wizard has completed all the steps, it starts again automatically so that another device can be entered.

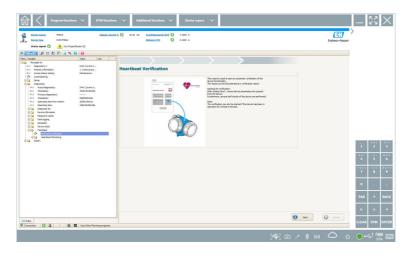
The Scanner App also works in offline mode. Data already saved in the Netilion Library are not available offline.

8.9 Uploading a Heartbeat Verification report to the Netilion Library



Click the ▶ icon.

← A connection to the desired device is established.



- 2. Start the Heartbeat wizard.
- 3. Follow the Heartbeat wizard and start a Heartbeat Verification.
- 4. When the Heartbeat Verification is finished, save the result as a PDF.
 - ← A dialog appears where you can select the storage location for the PDF file.
- 5. Select the storage location and click **Save**.
 - ← A dialog for saving in the Netilion Library appears.
- 6. Click Yes.
 - ← A dialog appears where you can select the document type.
- 7. Select Heartbeat Verification Report and click Yes.
 - └ The Heartbeat Verification Report is uploaded to the Netilion Library for the existing asset.

8.10 RFID

1.	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			
		Connection:		
		Automatic Connect to HART and IO- Link device automatically	Assistant Connect to device step-by- step	Wireless Connect to Endress + Hauser Bluetooth and WLAN device

Click the 🔤 icon in the status bar.

└ The "RFID TAG Editor" dialog box opens.

		- ²² ×
	FID TAG Editor ⑪ 010000	Clear
Seri	al number:	
Man	ufacturer: Endress+Hauser	\diamond
	rt description:	
	line 1:	
	line 2:	
149	line 3:	
	Read tag Write tag	
		I:08 PM 6/27/2019
		99% - 6/2//2019

- 2. Plug in the RFID scanner.
- 3. Click Read tag.
- 4. Place the RFID tag on the scanner, and click **Device Viewer**.
 - └ The Device Viewer opens in Internet Explorer.
- 5. Change the tag or serial numbers and click **Write tag**.
 - └ The RFID tag is changed.

9 Maintenance

Maintenance information is provided in the Manufacturer's Brief Operating Instructions. www.bartec.de

9.1 Battery

Please note the following if the battery is used:

- Charge and discharge the battery at room temperature
- The battery operating life depends on several factors:
 - Number of charge and discharge cycles
 - Ambient conditions
 - State of charge during storage
 - Demands placed on the battery
- Predominant battery usage will negatively affect the device performance
- Batteries can discharge outside the device

The deterioration in performance can increase with the battery operating life due to the stress from daily charging and discharging.

Li-ion batteries are usually replaced after 300 to 500 charge cycles (complete charge/ discharge cycles) or if the battery capacity has reached 70 to 80 %.

The actual number of cycles varies depending on the pattern of use, temperature, age and other factors.



H

To avoid permanent degradation of the battery capacity due to self-discharging, the batteries must never be discharged to under 5 %.

WARNING

Dropping, crushing or any other improper handling of the battery

can cause a fire or chemical burns.

Always use the battery properly.

NOTICE

The battery cannot be charged if temperatures are too low or too high.

This prevents potential damage to the battery.

► Only charge the battery at a temperature of approximately 20 °C (68 °F).

ACAUTION

Damaged or leaking batteries

can cause personal injury.

▶ Handle the battery with utmost care.

ACAUTION

If the battery overheats or there is a smell of burning during the charging process, leave the area immediately.

Notify safety personnel immediately.

Please note the following when using the battery:

- Replace the battery if the operating time becomes shorter
- Do not place any objects or materials on the battery
- Keep the battery away from conductive or flammable materials
- Keep the battery out of the reach of children
- Only use original batteries
- Only charge the battery with original devices or original charging stations
- Keep the battery away from water
- Do not burn the battery
- Do not expose the battery to temperatures below 0 °C (32 °F) or above 46 °C (115 °F)
 - If the battery is exposed to extreme temperatures, 100 % battery capacity cannot be achieved. The capacity may be restored if the battery returns to a temperature range of approximately 20 °C (68 °F).
- Keep the ventilation free
- Charge the battery at a location with temperatures of approximately 20 °C (68 °F)
- Do not place the battery in a microwave
- Do not take the battery apart or touch it with a pointed object
- Do not remove the battery from the device with a sharp object

Batteries are Ex-certified in combination with the device. The use of batteries not listed on the certificate will invalidate the Ex-certification.



Battery energy conservation

- Windows 10 Creators Update
 - Improve battery life
 - Check battery drain
- Switch off wireless modules that you are not using
- Check and optimize settings of the wireless devices
- Reduce the brightness of the display
- Switch off all modules not being used in the service program, e.g. GPS, scanner, camera
- Turn on the screensaver
- Create a power plan according to Microsoft guidelines
- Configure power options according to Microsoft guidelines
- Configure sleep settings according to Microsoft guidelines

9.1.1 Replacing the battery

DANGER

Incorrect replacement of the battery

can cause an explosion.

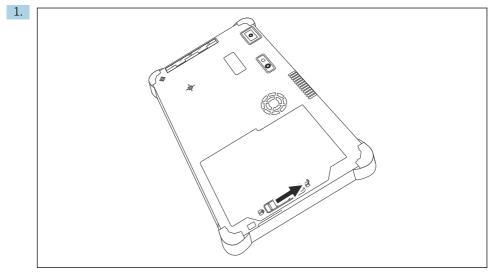
 Always replace the battery with an identical battery or an equivalent type of battery recommended by the manufacturer.



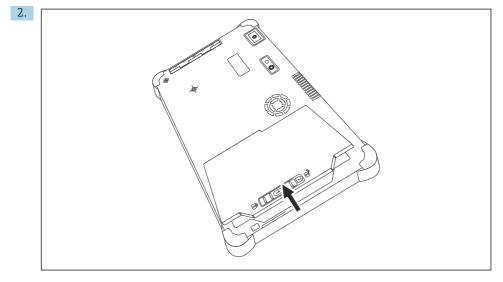
The battery capacity gradually diminishes over time, depending on how the battery is used. The battery can be replaced after 18 to 24 months.

Dispose of used batteries in accordance with the manufacturer's instructions.

Removing the battery



Slide the battery lock into the "Unlocked" position.



Open the battery compartment and remove the battery.



For information on inserting the battery

10 Repair

10.1 General information

NOTICE

Never disassemble or repair the device yourself,

as this will render the warranty invalid.

► If the device is in need of repair, always contact your Endress+Hauser Sales Center: www.addresses.endress.com

10.2 Spare parts

Accessories currently available for the product can be selected via the Product Configurator at www.endress.com:

- 1. Select the product using the filters and search field.
- 2. Open the product page.
- 3. Select Spare parts & Accessories.

10.3 Return

The requirements for safe device return can vary depending on the device type and national legislation.

- 1. Refer to the web page for information: http://www.endress.com/support/return-material
 - → Select the region.
- 2. Return the device if repairs or a factory calibration are required, or if the wrong device was ordered or delivered.

10.4 Disposal

X

If required by the Directive 2012/19/EU on waste electrical and electronic equipment (WEEE), the product is marked with the depicted symbol in order to minimize the disposal of WEEE as unsorted municipal waste. Do not dispose of products bearing this marking as unsorted municipal waste. Instead, return them to the manufacturer for disposal under the applicable conditions.

10.4.1 Battery disposal

This product contains a lithium-ion battery or a nickel-metal hydride battery. These batteries must be disposed of in the correct manner. Please contact your local environmental protection authority for information on recycling and disposal schemes in your country.

11 Accessories

The accessories currently available for the product can be selected at www.endress.com:

- 1. Select the product using the filters and search field.
- 2. Open the product page.
- 3. Select Spare parts & Accessories.

12 Technical data

For detailed information, see the "Technical data": Technical Information $\rightarrow \square 7$ 1

13 Appendix

13.1 Protecting mobile devices

These days mobile technology is an important part of modern business enterprises, since more and more of our data is stored on mobile devices. Furthermore, these devices are now just as powerful as conventional computers. As these mobile devices frequently leave the business premises, they need even more protection than desktop devices. Below you can find four quick tips to help you protect mobile devices and the information they contain.

Switch on password protection

Use a sufficiently complex password or a PIN.



Run security updates

All manufacturers release regular security updates to protect the device. This process is quick, easy and free. Under your settings, make sure that the updates are installed automatically. If the manufacturer does not plan to release any more updates for the device, the device must be replaced with an up-to-date version.

Run app and operating system updates

Update all installed applications and the operating system regularly with patches released by the software developers. These updates not only add new functions but all fix any security vulnerabilities that may have been detected. The Endress+Hauser software update function provides automatic notification of new updates. This requires Internet access. For staff it is important to know when the updates are available, how they are installed, and that this must be done as quickly as possible.



Do not connect to unknown WLAN hotspots

The easiest precaution to take is to never connect to the Internet through unknown hotspots and to use the 3G or 4G mobile communications network instead. Via virtual private networks (VPNs), your data is encrypted before being transmitted over the Internet.



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www.addresses.endress.com

