Operating Instructions Field Xpert SMT70

Universal, high-performance tablet PC for device configuration in Ex Zone 2 and non-Ex areas





Change history

| Product version | Operating Instructions | Changes | Comments |
|-----------------|---------------------------|--|---|
| 1.00.xx | BA01709S/04/EN/ 01.17 | - | - |
| 1.02.xx | BA01709S/04/EN/ 02.18 | New chapter 8.5 | HART via PROFINET via Fieldgate PAM SFG600 |
| 1.03.xx | BA01709S/04/EN/ 03.18 | New chapter 8.6 New chapter 8.7 New chapter 8.8 New screenshots | Automatic DTM update Uploading HART device report to IIoT Library RFID |
| 1.04.xx | BA01709S/04/EN/ 04.19 | New screenshots Chapter 1.2.3 Chapter 4.2.2 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 | BA01709S/04/EN/ 05.20 | New screenshots Chapter 1.2.3 Chapter 4.2.1 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 |
| 1.06.xx | BA01709S/04/EN/ 06.22 | New screenshots Chapter 5.3 Chapter 10.1 Appendix | Screenshots in English from this version Software update service Battery Protecting mobile devices |
| 1.07.xx | BA01709S/04/EN/ 07.22 | Chapter 1.2.3 Chapter 1.3 Chapter 8 Chapter 8.3.6 | Updated explanation of symbols Acronyms used Screenshots modified New Bluetooth |

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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 symbols

| Symbol | Meaning |
|--------------------|--|
| ዑ | Switch tablet on and off. |
| | Windows button |
| ((_T)) | Wireless communication (WLAN, WWAN, GPS, Bluetooth) |
| 4 | Battery |
| (#) | Opens the Offline Dynamic Installed Base Analysis (DIBA) |
| A | Open the home screen of the device configuration software. |
| < | Jump back to the last page opened. |
| E | Information and software settings. |
| ? | Additional information about the software. |
| | Minimize the program. |
| スコ | Enable full screen. |
| NK NK | 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) |
| (((° | Connect with Endress+Hauser WLAN and Bluetooth devices |
| N | RFID |
| \bigcirc | Cloud |
| ☆ | Favorites |
| | Keypad |
| Ô | Camera |
| 7 | Link to Netilion Library |
| Q | Attach photos and PDFs to an asset in Netilion Library |
| | Start |
| Ť | Trash |

1.3 Acronyms used

| Acronyms | Explanation |
|----------|-----------------------------------|
| DFS | Dynamic Frequency Selection |
| DTM | Device Type Manager |
| FCC | Federal Communications Commission |

| Acronyms | Explanation |
|----------|--|
| HF | High frequency [RF = radio frequency] |
| MSD | Menu Structure Description |
| SD | Secure Digital |
| WWAN | Wireless Wide Area Network |

1.4 Documentation

Field Xpert SMT70

Technical Information TI01342S/04/EN

Field Xpert SMT77

- Technical Information TI01418S/04/EN
- Operating Instructions BA01923S/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.

Durabook is a registered trademark of Twinhead International Corp., Taiwan.

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.

PROFIBUS® is a registered trademark of the 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.

- H
 - Commissioning $\rightarrow \cong 20$ • Operation $\rightarrow \cong 22$

2.4 Operational safety

Risk of injury!

- Operate the device in proper technical condition and fail-safe condition only.
- ► The operator is responsible for 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 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 fulfills general safety requirements and legal requirements. It also conforms to the EC directives listed in the device-specific EC Declaration of Conformity. The manufacturer 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.

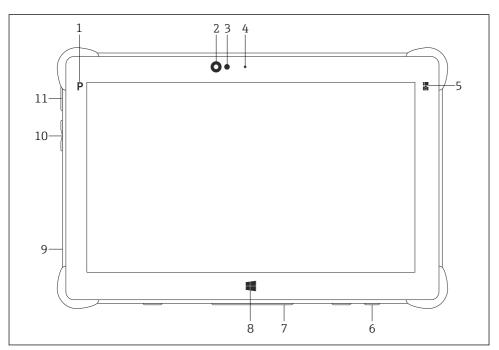
IT security measures, which provide additional protection for the device and associated data transfer, must be implemented by the operators themselves in line with their security standards.

3 Product description

With an ultra-compact form factor, the tablet PC meets the most demanding requirements, such as ingress protection (IP65) and shock resistance (4-foot drop-test and MIL-STD 810G). The additional screen protector offers complete protection in harsh working environments. The tablet PC's good ergonomic features also protect workers' health, keeping physical strain to a minimum.

With the increasing popularity of 4G/LTE connectivity in hazardous areas, the tablet PC ensures swift and seamless access to data. However, in situations where not even WLAN is available, the optional docking station with an Ethernet interface gives the tablet PC the necessary flexibility to link into existing network infrastructures. In addition, the latest Bluetooth standards are also supported.

After use in the field, the tablet PC can be used as an office PC with the optional office docking station, allowing the tablet to be seamlessly integrated into the office and business networks.

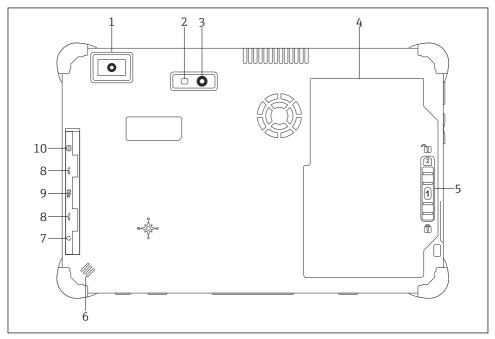


I Front view of tablet PC

- 1 Program button
- 2 Front camera
- 3 Ambient light sensor
- 4 Microphone
- 5 Function key
- 6 DC socket (underside)
- 7 Dock connector (underside)
- 8 Windows button
- 9 Slot for Kensington lock (left side)
- 10 Volume buttons (left side)
- 11 On/off button (left side)

| Component | Description |
|----------------------|---|
| Program button | Go to user-defined program |
| Front camera | For video recordings (e.g. at video conferences) |
| Ambient light sensor | Measures the current ambient lighting conditions |
| Microphone | To record ambient sounds |
| Function key | The key function can be assigned via the "Quick Menu" |
| DC socket | For connecting the power adapter |

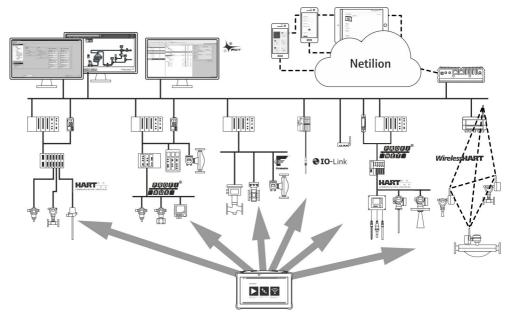
| Component | Description |
|--------------------------|--|
| Dock connector | For connecting the tablet PC to a docking station |
| Windows button | Launch the Windows start screen |
| Slot for Kensington lock | For connecting a Kensington-compatible security lock |
| Volume buttons | For setting the volume |
| On/off button | For switching the tablet PC on or off |



- 2 Rear view of tablet PC
- 1 Barcode scanner
- 2 Camera LED flash
- 3 Camera
- 4 Battery compartment
- 5 Button to unlock the battery compartment
- 6 Loudspeaker
- 7 Combined audio jack
- 8 2 x USB 3.0
- 9 Memory card slot for Micro SD memory cards
- 10 SIM card slot

| Component | Description |
|--|---|
| Barcode scanner | For scanning barcodes. |
| Camera LED flash | For additional lighting in poor light. |
| Camera | For taking pictures. |
| Battery compartment | Contains the battery. |
| Button to unlock the battery compartment | Press down the button and hold to unlock the battery compartment. |
| Loudspeaker | For sound |
| SIM card slot | For inserting a SIM card for WWAN (LTE+GPS). |
| 2 x USB 3.0 | For connecting USB 3.0 peripheral devices. |
| | WARNING The use of the USB ports in the hazardous area is not permitted and can cause an explosion. In the hazardous area, always use an Ex tablet with the MACTek VIATOR Bluetooth HART modem or the mobiLink. |
| Memory card slot | For inserting Micro SD memory cards, and SD, SDXC, SDHC memory cards using an adapter. |
| Combined audio jack | For connecting headphones, external loudspeakers or a microphone. |

3.1 Product design



3 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.

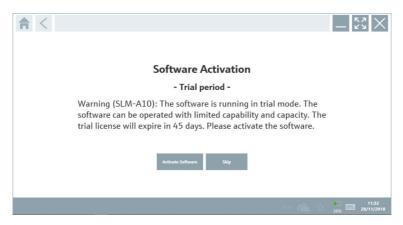
3.3 License model

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.

| ≜ < | | | | | | \times |
|------------|--------------|------------------|----------------|--------|---------------------------------|----------------|
| | | | | | oftware Portal. new account. | |
| | I have forgo | tten my password | | | | |
| | | Activate | Create Account | Cancel | | |
| | | | | | | |
| | | | | | NI 🙈 🕁 | l:33 1/2018 |

- 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

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

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

Scope of delivery

- Field Xpert SMT70 tablet PC with handle
- 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
- Operating Instructions with safety instructions from Ecom

4.2 Product identification

4.2.1 Nameplate





- 1 Endress+Hauser software ID
- 2 Endress+Hauser product name
- 3 Endress+Hauser serial number
- 4 Manufacturer nameplate
- 5 Manufacturer model number
- 6 Manufacturer technical information
- 7 Manufacturer serial number

4.2.2 Manufacturer's address

Ecom Instruments GmbH is responsible for the tablet hardware and produces it exclusively for Endress+Hauser.

-7

Hardware

Ecom Instruments GmbH Industriestraße 2 97959 Assamstadt

Germany

www.ecom-ex.com

Software

•

Endress+Hauser Process Solutions AG Christoph Merian-Ring 12 4153 Reinach Switzerland www.endress.com

4.3 Storage and transport

Always use the original packaging when transporting the product.

4.3.1 Storage temperature

-20 to 60 °C (-4 to 140 °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.



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 | About | | | | $ \frac{\kappa}{\kappa}$ \times |
|---------|---------|--------|------|-------------------------|---|---------------------|---------|-----------------------------------|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | DTMs/Drivers Update | e | | | |
| | | | | symbol in the status b | indress+Hauser Netilion Librar ar) to activate the automatic D TMs will be downloaded in the II be installed silently. | TM 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 | n update service will expire on | 1/8/2020 11:59 PM | | |
| | | | | | Check for update | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | © № 🛆 🕁 | 1:01 PM |

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

Avoid damage to the housing and components:

- Always place the device on a stable surface.
- ▶ Do not cover the ventilation opening, or block it by other objects.
- ► Keep the device away from liquids.
- ► Do not expose the device to direct sunshine or very dusty conditions.
- ▶ Do not expose the device to excess heat or humidity.

6.1 Status indicators

The status indicators on the interface of the tablet PC are lit as soon as the corresponding functions are active.



E 4 Status indicator

| Symbol | Meaning | Description |
|--------------------|---------------------------|--|
| | Power | The LED is lit green when the system is in operation. The LED flashes when the system is in sleep mode. |
| ((_†)) | Wireless communication | Indicates the status of wireless communication (WLAN, WWAN or Bluetooth). The LED is lit blue if at least one wireless communication option is active. The "Quick Menu" application must be installed to be able to display the status for wireless communication. |
| 4 | Battery | Indicates the battery charge state: • Green, battery is fully charged • Amber, battery is charging • Flashing amber, error while charging • Red, battery less than 10 % charged • Off, battery is empty |

6.2 Shutting down the tablet PC

Make sure you shut down the tablet PC properly, as this is the only way to avoid losing unsaved data.

Tap the Windows icon → ⓓ → Shut down.

The tablet PC shuts down.

Do not disconnect the power source until the tablet PC is switched off completely.

6.3 Switching off the tablet PC

▶ Press and hold the 🕁 button until the power LED flashes.

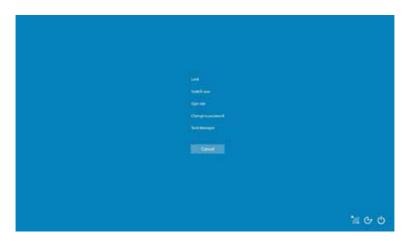
The tablet PC is in sleep mode.

6.4 Security screen



If the tablet PC is used without an external keyboard, the Ctrl+Alt+Del key combination is replaced by the key combination of simultaneously pressing the **()** and **()** keys.

- 1. Press the 🕁 and 🔣 keys simultaneously.
 - └ The tablet PC switches to the Windows security screen.



2. Select an action.

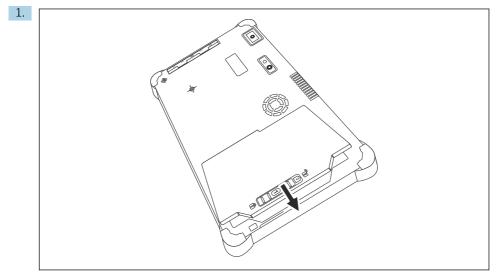
Possible actions:

- Lock the device
- Change to another user
- Log out
- Change the password
- Open Task Manager
- Shut down or restart the device

7 Commissioning

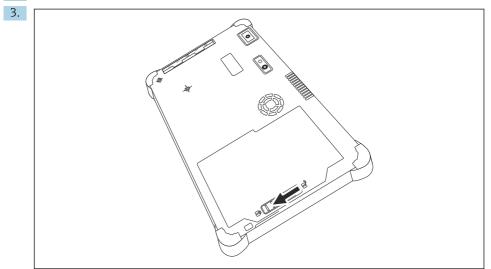
The tablet PC can be powered by the AC adapter or the lithium ion battery.

7.1 Inserting the battery



Insert the battery in the battery compartment.

2. Press down until the battery clicks into place.



Slide the battery lock into the "Locked" position. The battery is inserted.

7.2 Charging the battery



Due to transport safety regulations, the lithium ion battery is not fully charged when purchased.

- The battery must be inserted.
 Connect the AC adapter to the DC socket of the tablet PC.
- 2. Connect the AC adapter to the power cable.
- 3. Connect the power cable to a power outlet.

7.3 Switching on the tablet PC

▶ Press and hold the 🕁 button until the power LED is lit.

The tablet PC starts.

7.4 Connecting the AC adapter

The AC adapter powers the tablet PC and charges the battery.

Yhen using the AC adapter:

Place the device sufficiently close to a power outlet that the power cable can still reach the outlet.

Only operate the device with the type of power source indicated on the device nameplate.

Disconnect the AC adapter from the power outlet if the device will not be used for an extended period.

- 1. Connect the AC adapter to the DC socket of the tablet PC.
- 2. Connect the AC adapter to the power cable.
- 3. Connect the power cable to a power outlet.
- The tablet PC may only be used with the corresponding AC adapter.

If the tablet PC is connected to a socket and the battery is inserted, the tablet PC is powered via the socket.

8 Operation

NOTICE

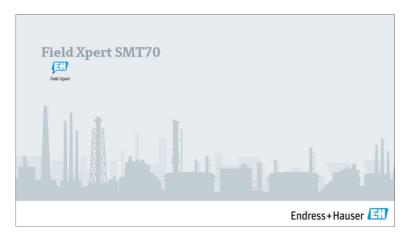
The use of unsuitable objects to operate the device can damage the screen.

► 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/in | iterfaces a | re supported | d by the tablet PC. | ÷ |
|---------------|-----------|-------------|--------------|---------------------|---|
| | | | | | |

| Communication protocol | Connection | Modems/interfaces |
|------------------------|---|--------------------------------------|
| HART | | Commubox FXA195 4 to 20 mA |
| | *e., | |
| | | MACTek Bluetooth modem 4 to 20 mA |
| | *e. | |
| | *e., | Memograph RSG45 (4 to 20 mA) |
| | | MACTek USB modem (4 to 20 mA) |
| | *e a | |
| | | FieldPort SFP20 |
| | * eo | |
| | ₹ _₹ | Fieldgate SFG250 |
| | *e., | Tank Scanner NXA820 |
| WirelessHART | *e., | WirelessHART adapter SWA70 |
| | ** | WirelessHART adapter SWG70 |
| HART via PROFINET | B | Fieldgate PAMSFG600 |
| | The Remote Wizard connection is visible in combination with the Fieldgate PAM SFG600. | |
| PROFIBUS | ₹ _{€0} | Softing PROFIusb |
| | 4 6 | Softing PBpro USB |

| Communication protocol | Connection | Modems/interfaces |
|--------------------------------------|-----------------|---|
| | et. | FieldPort SFP20 |
| | et. | Fieldgate SFG500 |
| FOUNDATION Fieldbus | ν _{τα} | NI USB |
| | ν _{τα} | FieldPort SFP20 |
| | e _{to} | Softing FFusb |
| Modbus | ₹ _{₹0} | Modbus serial |
| Endress+Hauser service interfaces | | Commubox FXA291 CDI |
| | \$4 0 | |
| | Ne. | Commubox FXA291 IPC, ISS, PCP |
| | ₹ _{€0} | Commubox FXA193 IPC, ISS |
| | **** | TXU10 V2 CDI |
| | | TXU10 V2 PCP |
| | ₽ _{€0} | |
| | \$ 40 | TXU10 V1 PCP, CDI |
| | | CDI USB |
| | \$e. | |
| | \$e., | CDI TCP/IP |
| Bluetooth | A0041855 | Endress+Hauser Bluetooth devices, also level and pressure devices in some cases |

| Communication protocol | Connection | Modems/interfaces |
|------------------------|------------|------------------------------|
| Wi-Fi | | Endress+Hauser Wi-Fi devices |
| | A0041855 | |
| IO-Link | | FieldPort SFP20 |
| | *e., | |

"Automatic" connection

| | | ≡ ¢ | 9_\$3× |
|--|--|---|--------|
| Connection: | | | |
| | ч _ю | (((o | |
| 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 | |
| | | | |
| | | | |

Tap the 🕨 icon.

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

"Assistant" connection

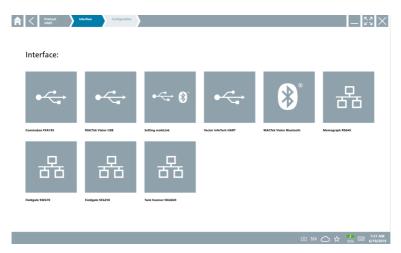
| 1. | 合 < | | | ≡ (?) – \$\$ × | |
|----|-----|--|--|---|--|
| | | Connection: | | | |
| | | | ч. | | |
| | | Automatic Connect to HART and IO- Link device automatically | Assistant Connect to device step-by- step | Wireless Connect to Endress-Hauser Bluetooth and WLAN device | |

Tap the ⊾ icon.

└ An overview of all the protocols available opens.

| 命 | Protocol | Interface Cenfiguration | | | | - ^{KX} XX |
|---|--|---|---|--|-------------------------------------|--|
| | Protocol: | | | | | |
| | | <u>PROFU</u> ° BUS B | Foundation | Modbus | 😵 IO-Link | |
| | HART Connect to HART devices point-to-point or via multidrop. | PROFIBUS Connect to PROFIBUS DP or PIROFIBUS PA devices. | FOUNDATION Fieldbus Connect to FOUNDATION Fieldbus devices in bench mode or in a segment. | Modbus Connect to Modbus devices over serial. | 10-Link Connect to IO-Link devices. | Endress+Hauser Interfaces Connect to devices using CDL ISS, IPC or PCP. |
| | | | | | | |
| | | | | | | |
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| | | | | | (4 | É @ N 🛆 û 🚋 📼 |

- 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.

| | - KA |
|--|---|
| 9 | T O |
| Process Values | Signal Strength |
| | \$ > |
| Physical address (MAC): 00:07:05:11:af:d0, Secured | Ref 1 |
| | ≈ ▶ |
| PV: 0.725 m | ≈ ▶ |
| | Ref. 1 |
| | ≈ ▶ |
| | ≈ ▶ |
| | Ref. 1 |
| | Ref. 1 |
| | > |
| PV: bde_enum_forkxovered SV: 569.8 Hz | \$\overline\$ |
| Physical address (MAC): 00:07:05:13:1e:3a, Secured | > |
| ient in your network? | Click here to conne |
| | |
| | Physical address (MAC) 2010/7/05/11 adds), Second Physical address (MAC) 2010/7/05/11 adds), Second Phy. 66.225 m Phy. Sole_mourn_forkcomment Phy. Sole_mourn_forkcomment 502:50/06.102 |

"Bluetooth" connection

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

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

| 1 | ふ く | SWASO | 8T10 / L+P Display | | | Į– | к л К У | X |
|---|------------|-------|--------------------|---|-------------|----------|---------------|-----------------|
| | 俞 | | | | | | | |
| | | | | User Name admin | | | | |
| | | | | Password 🗠 | | | | |
| | | | | Login Forgot password | | | | |
| | | | | Credentials will be saved Hint: Visit the Bluetooth Settings for changing the saving options | | | | |
| | | | | Additional Information: | | | | |
| | | | | | | ĩ | **C 2 | 3 |
| | | | | | | 4 | 2 181 5 | 3 M N O 6 |
| | | | | | | 7 | ток 8 | **** 9 |
| | | | | | | 0 | • | - BACK |
| | | | | | | TAB + | ↑ ↓ | BACK → |
| | | | | | | CLEAR | SYM | ENTER |
| Ð | - | | | | 1911 (1912) | |) ☆ | |

- 3. Enter the **User Name** (admin) and **Password** and tap **Login**.
 - └ The DTM (default) or the MSD opens.

The initial password corresponds to the serial number of the device.

Please contact the Endress+Hauser sales organization to receive the reset code.

"WLAN" connection

1. Tap the 💿 icon to filter for WLAN devices.

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

| | a MLAN device Configure CommOTM Configure WLAN device | — × | $\langle \times \rangle$ |
|---|---|------------|--------------------------|
| | | | |
| | | | |
| | | | |
| | ionnect to WLAN device | | |
| | evice name DI_Promass 300 500_1002000 | | |
| P | associal | | |
| | Cannet | | |
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| | | 😤 🖸 NI 🛆 🏠 | 78% |

- 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.

| 2n | DTM Device Type | Version | Manufacturer | Date | Protocol | State |
|-----|--|------------|-------------------------------------|------------|----------------|-------|
|) | | | | | | New |
| | _D0-MIO-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 |
| ł. | 0990 Fieldbus Switch Box Rev 4 | DORev 0x1 | EL-D-MATIC BV (IDTM) | 2000-09-01 | Fieldbus FF H1 | ок |
| • | 1000 Rev 3 | DORev 0x1 | ROSEMOUNT ANALYTICAL DWISION (IDTM) | 2001-05-09 | Fieldbus FF H1 | ок |
| | 1056 Rev 1 | DD Rev 0x1 | Rosemount Analytic (IDTM) | 2019-05-14 | HART | ок |
| | 1056 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 |
| ł | 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 | OK |
| 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.

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

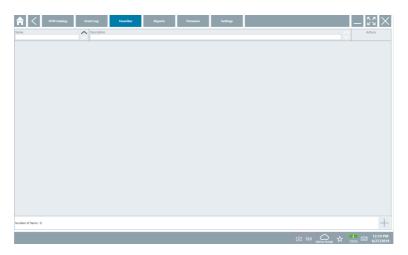
- Click the **Event Log** tab or the gray status bar.
 - └ An overview of all the events opens.

| | DTM Catalog | Event Log Favorites | Reports Firmware | Settings | | 52 X |
|-------|---|--|--|-------------|--------|----------------------------|
| Type | Tes | Ders. | | | | |
| | 642/279 1449 PM 642/279 14114 PM 642/279 14114 PM 642/279 94312 PM 642/279 94312 PM 642/279 94312 PM 642/279 94312 PM 642/279 9432 PM 642/279 942 PM 642/279 PM 642/270 PM 700/270 PM 700/270 PM 700/270 PM 700/270 PM 700/270 PM 700/270 PM 700/270 PM 700/270 PM 700/270 PM 700/270 PM 700/270 PM 700/2 | Pace WIL 201004, 13, 14, 04, 74 Disk and Mina and Yoshi Disk and Mina and Yoshi Buench www. Liuki na bioleful Generative Buench www. | jog has been successfully angeheed to asset in t | kation Boys | | |
| Numbe | er of Items: 5 | | | | | Clear |
| | | | | | 💿 Ni 🕰 | 12:10 PM 100% 6/27/2019 |

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.



8.3.4 Managing reports

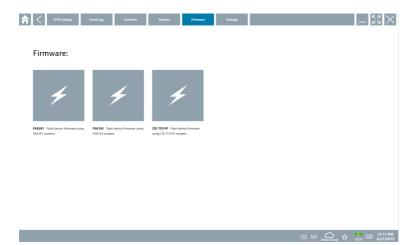
- 1. Click the **Reports** tab.
 - └ The overview with the "Manage saved device reports" folder opens.

| n Cotalog Event Log Fare | orites Reports | Firmware | Settings | | _ <u></u> |
|---------------------------|----------------|----------|----------|------------|----------------------------|
| Manage saved device repor | ts: | | | | |
| | | | | | |
| | | | | | |
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| | | | | © NI ADD # | 12:11 PM 100% 6/27/2019 |

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

8.3.5 Firmware

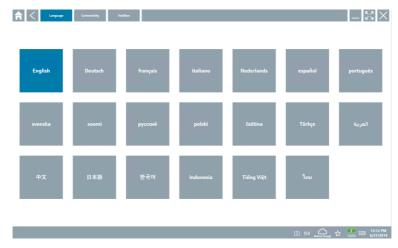
- ► Click the **Firmware** tab.
 - └ An overview of the firmware opens.



8.3.6 Settings

Language

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



- 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.

| Image Connectivity Netilion Bluetooth | - 23 |
|---|-----------------|
| tatus Name Description | Actions Actions |
| | |
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| unber of Items: 0 | |
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The "Connectivity" tab is relevant only in conjunction with the Fieldgate PAM SFG600 HART via PROFINET $\rightarrow \bigoplus 40$.

Netilion

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

| | Language | Connectivity | Netilion | | | | \mathbf{X} |
|---------|----------|------------------------|--------------------------|---|---|------|-----------------------|
| | Data s | torage settin | igs | | | | |
| | Vse | Netilion central data | a storage | | | | |
| | Vplo | ad asset information w | hen going online to devi | e | | | |
| | V Uplo | ad created reports | | | | | |
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Bluetooth

- Click the **Bluetooth** tab.
 - └ The Bluetooth device security data function opens.

| 命く・ | ngange Connectivity Nettion Buetowth | - K2 × |
|----------|---|------------|
| | SmartBlue Password settings | |
| | Save Password for all the Bluetooth devices | |
| | | |
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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.

| Update | EULA | About | - ⁵⁷ × |
|--------|------|---|-------------------|
| | | | |
| | | | |
| | | | |
| | | Software License Management | |
| | | Product FieldCare SFE300 | |
| | | Version 1.04.00 | |
| | | Serial number P1000324342 | |
| | | Software ID ULBVS-PQBXB-2U4J8-HSG7H-RBV4G | |
| | | Licensee Adrian Stangl / null | |
| | | License usage Perpetual | |
| | | Usage period This product is licensed. | |
| | | Renew License Return License | |
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Renewing the license

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:

- 1. 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.

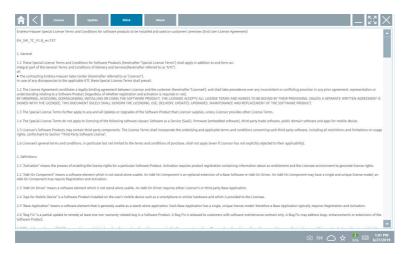
8.4.2 Update

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

| A | < | License | Update | EULA | About | | | | _ | К Л И И | \times |
|---|---|---------|--------|------|------------------------|---|--------------------|--|-----------|------------|----------|
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | DTMs/Drivers Updat | e | | | | | |
| | | | | | symbol in the status b | indress+Hauser Netilion Library ar) to activate the automatic D1 ITMs 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 Software | e Update | | | | | |
| | | | | | Last check for update | | 6/26/2019 9:59 AM | | | | |
| | | | | | Field Xpert applicatio | n update service will expire on | 1/8/2020 11:59 PM | | | | |
| | | | | | | Check for update | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | 11 | 1:0 | 1 PM |

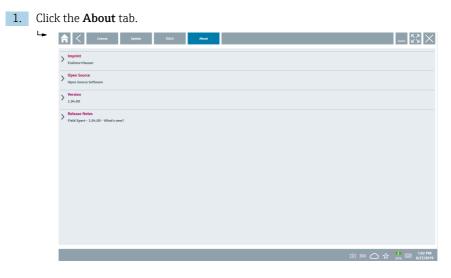
8.4.3 EULA

- ► 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.

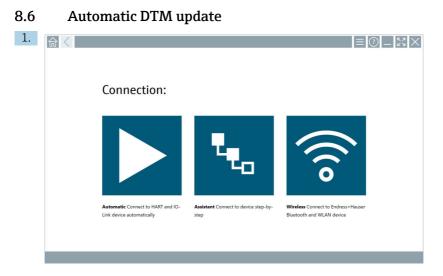


For detailed information on "Fieldgate PAM SFG600", see the Brief Operating Instructions $\rightarrow \square 7$

| 命 < | | | ≡?⊱₹ |
|--|--|---|---|
| Connection: | | | |
| | ч., | •)) | |
| 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 | Remote Assistant Connect to remote device step-by-step |
| | | | 実 o Ni 🗘 🕁 🎘 |

Click the 👿 icon.

└ The **Communication server** overview opens.



Click the \bigcirc icon in the status bar.

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

| | Goliee | $ \frac{1}{2}$ \times \times |
|----------|--|----------------------------------|
| Sign ir | n to Netilion Library | |
| E-Mail | | |
| Password | | |
| | Sign in | |
| | Count? Sign up password? Reset password | |
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| | | 99% E 1:03 PM 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).

| 1. | 命 < | | | Ξ | ?_\$\$× |
|----|-----------------------------------|--------|---|---|---------|
| | | | | | |
| | Conne | ction: | | | |
| | | | | | |
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| | Automatic Con Link device auto | | ssistant Connect to device step-by- ep | Wireless Connect to Endress+Hauser Bluetooth and WLAN device | |
| | | | | | |
| | | | | | |

Click the 🛆 icon in the status bar.

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

| and the offline | Online | | _ 52 × |
|-----------------|--|---------|---------------------------|
| Sign | in to Netilion Library | | |
| E-Mail | | | |
| Passwo | d | | |
| | | Sign in | |
| | account? Sign up our password? Reset password | | |
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| | | | |
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| | | | |
| | | | I:03 PM I:03 PM G/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

 Establish a connection to the device and open the DTM. Click the icon.

- 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 icon.
- 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.



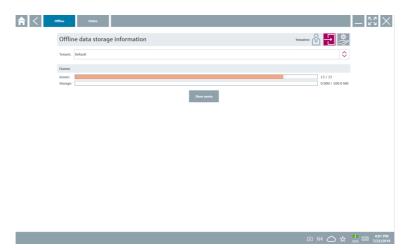
Click the 🛆 icon in the status bar.

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

| _ < □ ~ | ffline | Online | | | - KX × |
|---------|----------|---|---------|---------|--------------------------|
| | Sign in | to Netilion Library | | | |
| | E-Mail | | | | |
| | Password | | | | |
| | | | Sign in | | |
| | | ount? Sign up password? Reset password | | | |
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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.

| usset filter | | | |
|-------------------------------------|--------------------|---------------------------------|----------------------|
| enant: Default | | | |
| anufacturer | Product | Serial number | Created Actions |
| 8 | TTX300 series | 001A00080000058F9F7 | 7/4/2019 8:40:05 AM |
| Documents | | Pictures | |
| Category Name Number of Items: 0 | | File name Number of items: 0 | |
| sdress+Hauser | | M5008D02000 | 7/4/2019 7:24:16 AM |
| dress+Hauser | Prowirl 200 PA | KAD5BA19000 | 7/4/2019 7:43:32 AM |
| dress+Hauser | | K100140438C | 7/4/2019 7:56:42 AM |
| dress+Hauser | Cerabar S | 99068F018E8 | 7/4/2019 8:08:46 AM |
| dress+Hauser | | H7000004428 | 7/4/2019 8:30:49 AM |
| dress+Hauser | TMT125 | LB04030426B | 774/2019 8:55:18 AM |
| dress+Hauser | Cerabar S PMx7x | 9401140109C | 7/4/2019 9:40:42 AM |
| dress+Hauser | Deitabar S xMD x3x | dsmmy_00110009000002000FD | 7/4/2019 10:30:48 AM |
| dress+Hauser | iTemp TMT182 | dummy_001100C8000000598625 | 7/4/2019 10/42/45 AM |
| 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 考 icon in the status bar.
 - └ The Netilion Library dialog box opens.
- 2. Sign in to the Netilion Library.

8.8 Scanner App

| 1. | 佘 < | | | = <u>0</u> _ 53 × |
|----|------------|--|--|---|
| | | 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 wizard to create a device in the Netilion Library is started.

| 俞 | Manufacturer | Serial number | Product | Take or add pictures | Review and Save | - | - K 7 X |
|------|---|---------------|---------|----------------------|-----------------|------------|---------|
| Tag: | | | | | | | |
| ٩ | | | | | | | |
| | DCM-FMR62 Undefined | | | | | | ×. |
| | DCM-TMT72 Undefined | | | | | | |
| | FMR50 Undefined | | | | | | |
| | FT02_03_HA Undefined | | | | | | |
| | FT1002 Undefined | | | | | | |
| | FT4711-8901234567890123456789012 Undefined | | | | | | |
| | LT1001 Undefined | | | | | | |
| | MFEL62 SB factory Undefined | | | | | | |
| | Number of hemz: 14 | | | | | | |
| 8 | zset | | | | | Skip | Next |
| | | | | | | (#) 🛛 N# 🛆 | ☆ 💯 📼 |

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.

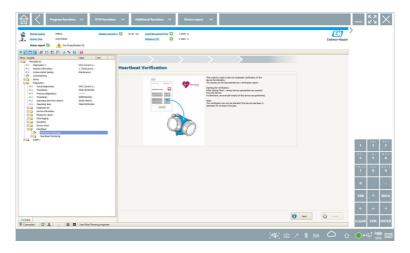
The Scanner App also works in offline mode. Data already saved in the Netilion Library are not available offline.

8.9 Uploading a Heartbeat Verification report to the Netilion Library



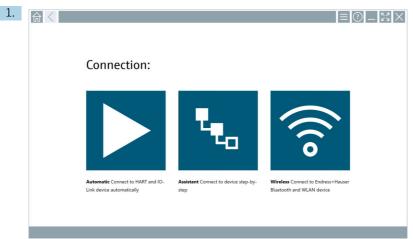
Click the ▶ icon.

← 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



Click the \mathbf{M} icon in the status bar.

└ The "RFID TAG Editor" dialog box opens.

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| | |
| RFID TAG Editor | |
| NØ 010000 Serial number: | Chear |
| Analysis and the second | \diamond |
| Short description: | |
| Tag line 1: | |
| Tag line 2: | |
| Read tag Write tag | |
| keaa tag wind tag | |
| | |
| | |
| | |
| | 💿 N# 🛆 🕁 <table-cell-rows> 🛄 📴 1:08 PM</table-cell-rows> |
| | |

- 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

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.

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

ADANGER

Incorrect replacement of the battery

can cause an explosion.

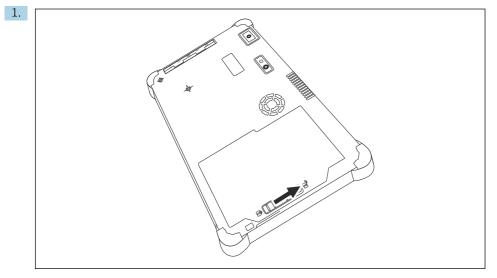
► Always replace the battery with an identical battery or an equivalent type of battery recommended by the manufacturer.



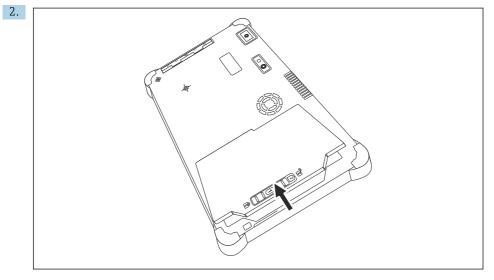
The battery capacity gradually diminishes over time, depending on how the battery is used. The battery can be replaced after 18 to 24 months.

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 $\rightarrow \cong 21$

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9.2 Cleaning

When cleaning the device:

Switch off the device correctly and disconnect the AC adapter.

Wipe the device with a clean, dry cloth.

Never use abrasive cleaning agents to clean the device.

10 Repair

10.1 General notes

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

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.

12 Technical data

For detailed information on the "technical data": see the Technical Information \rightarrow \bigcirc 7

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.



H

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.

13.2 Federal Communication Commission (FCC)

This device has been tested and complies with the limit values for Class B digital devices in accordance with Part 15 of the FCC regulations. These limit values ensure adequate protection against electromagnetic interference when operating in residential areas. This device generates, uses and can emit radio frequency energy and can interfere with wireless communication if it is not installed and used as specified in the Operating Instructions. However, it is not possible to guarantee that interference will not occur in certain installations. If the device causes interference with radio and television reception - which can be determined by switching the device off and on again - it is the responsibility of the user to rectify the problem .

13.3 Canada, Industry Canada (IC) Notices / Canada, avis d'Industry Canada (IC)

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES- 003 et RSS-210. Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne

doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

13.3.1 Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized. This device has been evaluated for and shown compliant with the IC Specific Absorption Rate ("SAR") limits when installed in specific host products operated in portable exposure conditions.

Informations concernant l'exposition aux fréquences radio (RF) La puissance de sortie émise par l'appareil de sans fil est inférieure à la limite d'exposition aux fréquences radio d'Industry Canada (IC). Utilisez l'appareil de sans fil de façon à minimiser les contacts humains lors du fonctionnement normal. Ce périphérique a été évalué et démontré conforme aux limites SAR (Specific Absorption Rate – Taux d'absorption spécifique) d'IC lorsqu'il est installé dans des produits hôtes particuliers qui fonctionnent dans des conditions d'exposition à des appareils portables.

13.4 Warning Explosion Hazard

Class I, Division 2, Groups A, B, C, D, T Code T5

Model R11XXXXXX, Rugged Tablet PC, Battery Powered (Battery P/N R11AH or R11AH2XXXXXX rechargeable lithium-ion battery pack), Ambient Temperature Range: 0°C to +40°C. Note: The "X" in the model designations may be any alphanumeric character or blank denoting minor mechanical options, system configuration options and/or safety extra low voltage secondary circuit options.

Conditions of Safe Use:

Connection to or from this device, which enters or leaves the system enclosure, must be completely restricted in Class I, Division 2 Hazardous Locations.

Rugged Tablet PC is to be charged by the supplied charging adaptor, type FSP065-RAB, manufactured by FSP Group, in Non-Hazardous Location only.

Suitable for use in Class I, Division 2 Groups A, B, C and D hazardous locations or non-hazardous locations only;

"WARNING - EXPLOSION HAZARD - SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2."

AVERTISSEMENT - RISQUE D'EXPLOSION – LA SUBSTITUTIOND E COMPOSANTSP EUTR ENDRE CE MATERIEL INACCEPTABLE POUR LES EMPLACEMENTS DE CLASSE I, DIVISION 2.

"WARNING: TO PREVENT IGNITION OF A HAZARDOUS ATMOSPHERE, BATTERIES MUST ONLY BE CHARGED IN AN AREA KNOWN TO BE NON- HAZARDOUS."

"AVERTISSEMENT- RISQUED 'EXPLOSION- AFIN D'EVITER TOUT RISQUE D'EXPLOSION, S'ASSURER QUE L'EMPLACEMENT EST DESIGNE NON DANGEREUX AVANT DE CHANGER LA BATTERIE."

"WARNING - EXPLOSION HAZARD - DO NOT CONNECT OR DISCONNECT WHILE CIRCUIT IS LIVE UNLESS AREA IS KNOWN TO BE NON- HAZARDOUS."

"AVERTISSEMENT - RISQUE D'EXPLOSION. NE PAS BRANCHER OU DÉBRANCHER TANT QUE LE CIRCUIT EST SOUS TENSION, À MOINS QU'IL NE S'AGISSE D'UN EMPLACEMENT NON DANGEREUX."

13.5 Class 1 laser product

Class 1 laser product in accordance with EN 60825

This device contains a laser system and is categorized as a "Class 1 laser product". To use this device correctly, you must read this manual carefully and keep it in a safe place so that it is also available for future reference. If you encounter any problems with this model, please contact your nearest "Authorized service point". To avoid direct laser radiation, do not attempt to open this housing.



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www.addresses.endress.com

