

Installation Instructions

Main electronics

Digital communication

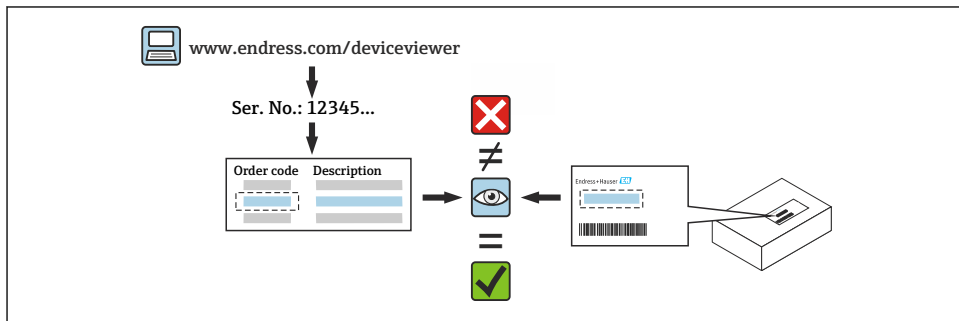
Cerabar, Deltabar



1 Intended use

- A defective unit can only be replaced with a functioning unit of the same type.
- Use only original parts from Endress+Hauser.
- In the W@M Device Viewer, check if the spare part is suitable for the existing device.

 In some devices, an overview of spare parts is provided inside the device. If the spare part set is listed in the overview, it is not necessary to check the Device Viewer.



2 Personnel authorized to carry out repairs

Technical staff must comply with the following requirements for repair, mounting, electrical installation and commissioning of the devices:

- Be trained in instrument safety.
- Be familiar with the individual operating conditions of the devices.
- In the case of Ex-certified devices, they must also be trained in explosion protection.

 Technical staff carrying out work are responsible for ensuring that the work is carried out safely and to the required quality standard. They must also guarantee the safety of the device following repair.

3 Safety instructions

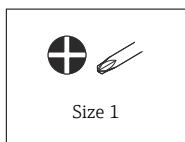
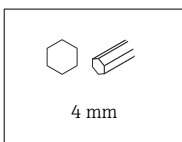
- Observe the Operating Instructions for the device.
- Comply with national regulations regarding mounting, electrical installation, commissioning, maintenance and repair.
- Device is live! Risk of fatal injury from electric shock. Open the device only when the device is deenergized.
- For devices intended for use in hazardous locations, please observe the instructions in the Ex documentation (XA).
- In the case of devices in safety-related applications in accordance with IEC 61508 or IEC 61511: Commission in accordance with Operating Instructions after repair.

- Before removing the device: set the process to a safe state and purge the pipe of dangerous process substances.
- Risk of burns from hot surfaces! Before commencing work: allow the system and device to cool down to a touchable temperature.
- In the case of devices in custody transfer, the custody transfer status no longer applies once the seal has been removed.
- Risk of damaging electronic components! Ensure that the working environment is protected against electrostatic discharge.
- After removing the electronics compartment cover: risk of electric shock due to removal of contact protection! Switch the device off before removing internal covers.
- Modifications to the device are not permitted.
- Only open the housing for a short period. Avoid ingress of foreign bodies, moisture or contaminants.
- Replace defective seals only with original seals from Endress+Hauser.
- If threads are damaged or defective, the device must be repaired.
- Do not lubricate threads (e.g. of electronics compartment cover and connection compartment cover).
- If spacing is reduced or the dielectric strength of the device cannot be guaranteed during repair work: Perform a test on completion of the work (e.g. high-voltage test in accordance with the manufacturer's specifications).
- Service connector:
 - Do not connect in potentially explosive atmospheres.
 - Only connect to Endress+Hauser service devices.
- Observe the instructions for transporting and returning the device outlined in the Operating Instructions.

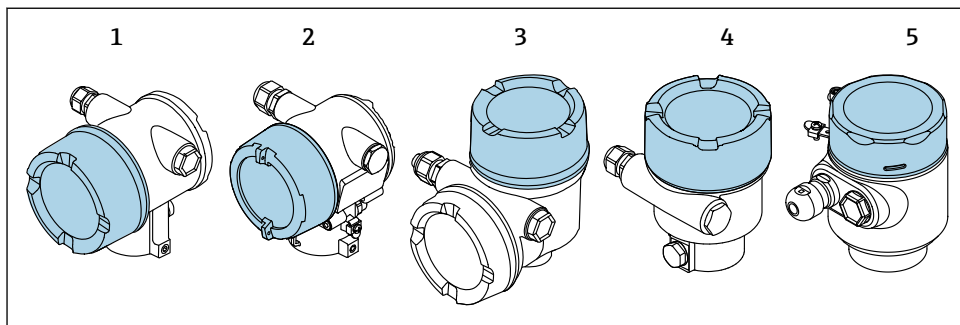


For information on service and spare parts, contact your Endress+Hauser sales center.

4 Tool list



5 Housing version



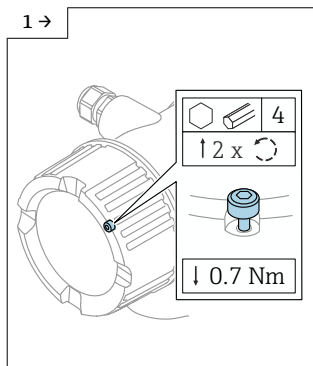
- 1 Dual-compartment housing
- 2 Stainless steel dual-compartment housing, precision cast
- 3 Dual-compartment housing, L-form
- 4 Single-compartment housing
- 5 Single-compartment housing, 316L hygiene

6 Removal

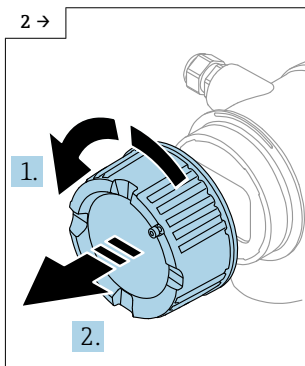
6.1 Dual-compartment housing, (not L-form)

6.1.1 Releasing the cover lock and removing the cover

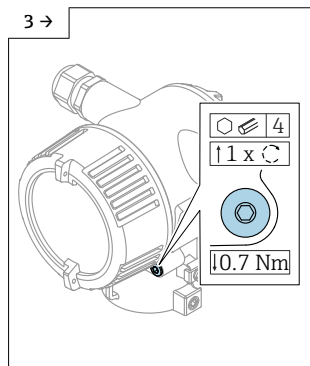
i Pay attention to the tightening torque during installation.



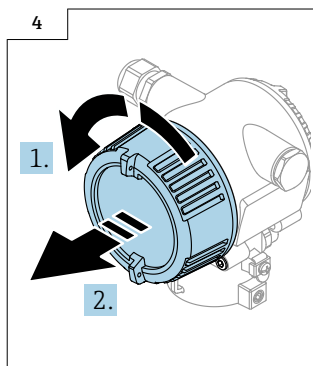
- Optional: cover lock.
- If available: release the cover securing screw using the Allen key.
- **i** The securing screw must not protrude beyond the lower edge of the cover. Note the position of the securing screw before and while screwing the cover on.



- Unscrew the cover.

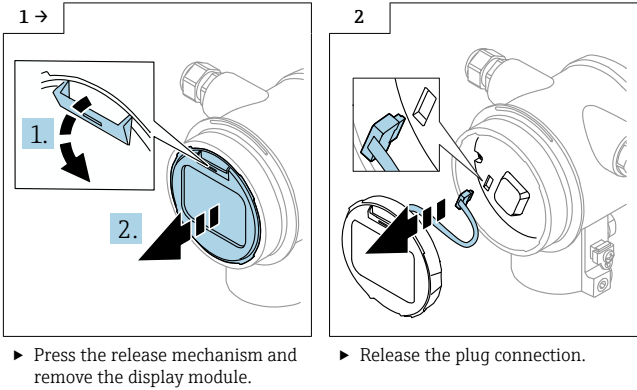


- Optional: cover lock for dual-compartment housing, stainless steel, precision casting.
- Release the tension between the cover and cover securing screw. To do so, turn the cover securing screw in the tightening direction.



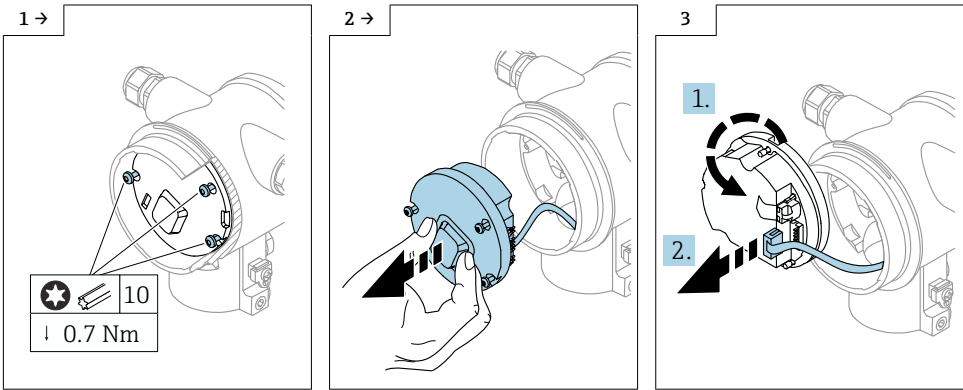
- Unscrew the cover.

6.1.2 Optional: removing the display



6.1.3 Removing the electronics

i Pay attention to the tightening torque during installation.



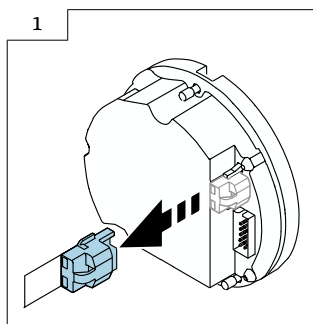
6.1.4 Removing the HistoROM

The electronics module contains a plug-in HistoROM, in which all device and measuring point data are stored.

NOTICE

The device cannot be operated without the HistoROM.

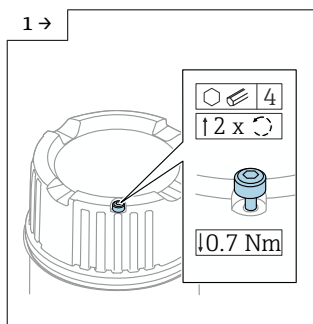
- Store the HistoROM in a safe place until it is installed in the new electronics module. After the electronics module has been installed, the device can be operated immediately.



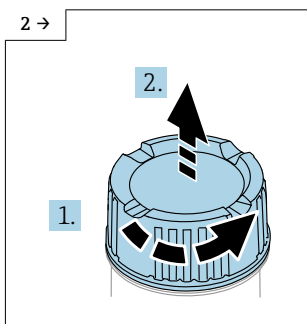
6.2 Single-compartment housing and L-form dual-compartment housing

6.2.1 Releasing the cover lock and removing the cover

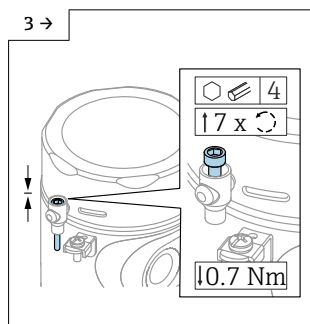
- Pay attention to the tightening torque during installation.



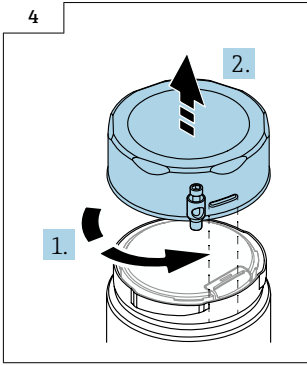
- Optional: cover lock.
- If available: release the cover securing screw using the Allen key.
- The securing screw must not protrude beyond the lower edge of the cover (does not apply to single-compartment housing, 316L hygiene). Note the position of the securing screw before and while screwing the cover on.



- Unscrew the cover.

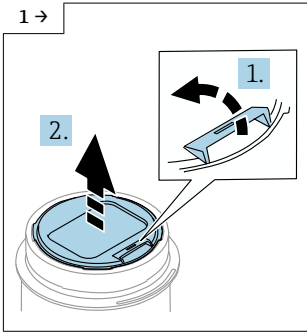


- Optional: cover lock on single-compartment housing, 316L hygiene

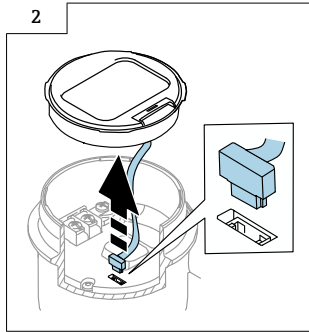


► Unscrew and remove the cover.

6.2.2 Removing the display



► Press the release mechanism and remove the display module.

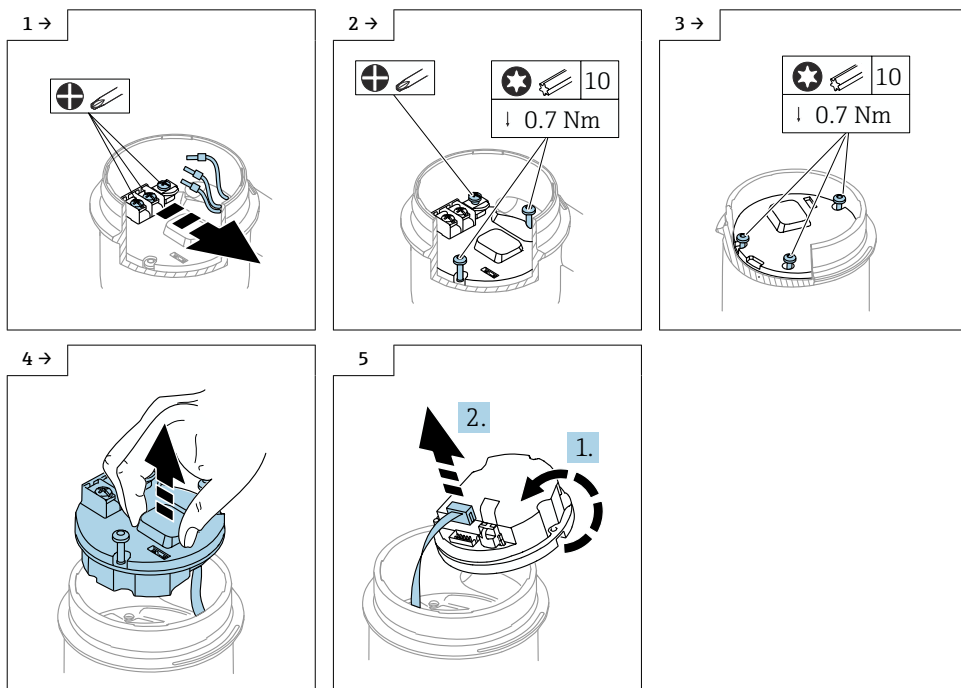


► Release the plug connection.

6.2.3 Removing the main electronics

i Pay attention to the tightening torque during installation.

- Single-compartment housing: step 1, 2, 4, 5
- Dual-compartment housing, L-form: step 3, 4, 5



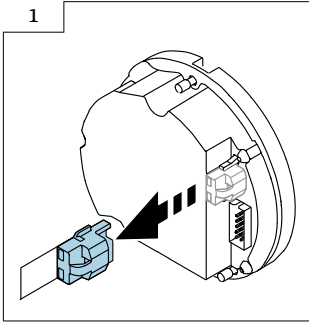
6.2.4 Removing the HistoROM

The electronics module contains a plug-in HistoROM, in which all device and measuring point data are stored.

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The device cannot be operated without the HistoROM.

- Store the HistoROM in a safe place until it is installed in the new electronics module. After the electronics module has been installed, the device can be operated immediately.



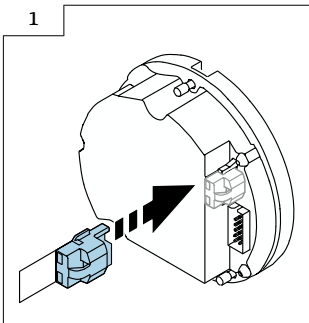
7 Installation

7.1 General installation instructions

Installation is performed by following the removal procedure in reverse order.

7.2 Special installation instructions

7.2.1 Mounting the HistoRom



8 Disposal



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.



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