

Installation Instructions

Single-compartment housing, dual-compartment housing - Digital communication

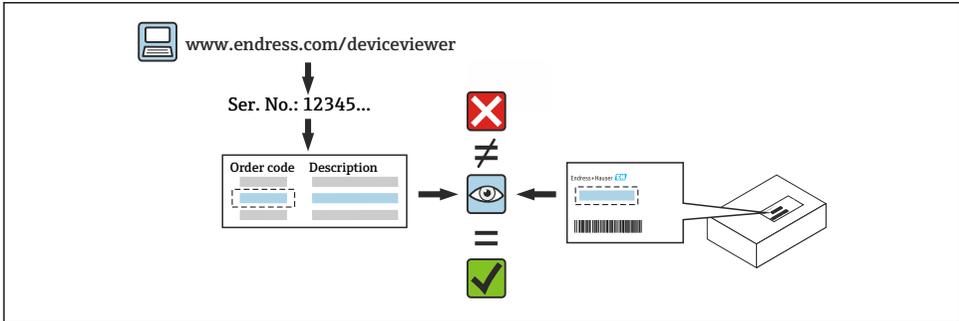
Liquiphant



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.
- Check in the W@M Device Viewer if the spare part is suitable for the existing measuring device.

 In some measuring 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 measuring devices:

- Specialized technical staff must be trained in instrument safety.
- They must be familiar with the individual operating conditions of the devices.
- In the case of Ex-certified measuring 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

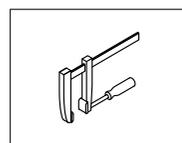
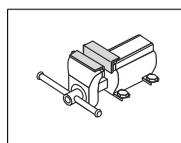
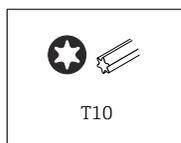
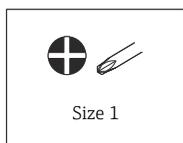
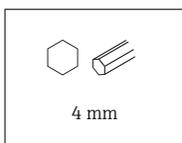
- Comply with national regulations governing mounting, electrical installation, commissioning, maintenance and repair procedures.
- Device is live! Risk of fatal injury from electric shock. Open the device only when the device is deenergized.
- For devices intended for use in hazardous locations, please 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.
- Observe the Operating Instructions for the device.
- Risk of damage to electronic components! Ensure you have a working environment protected from electrostatic discharge.
- After removing the electronics compartment cover: risk of electrical shock due to missing touch protection!
Switch the device off before removing internal covers.
- Modifications to the device are not permitted.
- Only open the housing for short periods. 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 or connection compartment cover).
- If spacing is reduced or the dielectric strength of the device is not guaranteed during repair work, perform a test on completion of the work (e.g. high-voltage test in accordance with the manufacturer's instructions).
- 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.

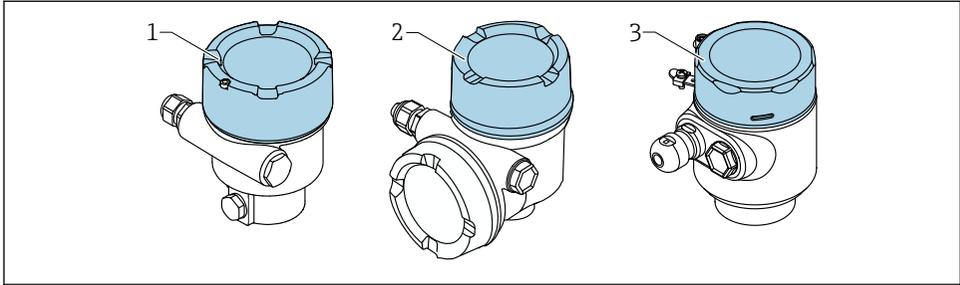


Contact Endress+Hauser Service if you have questions: www.addresses.endress.com

4 Tools list



5 Housing version

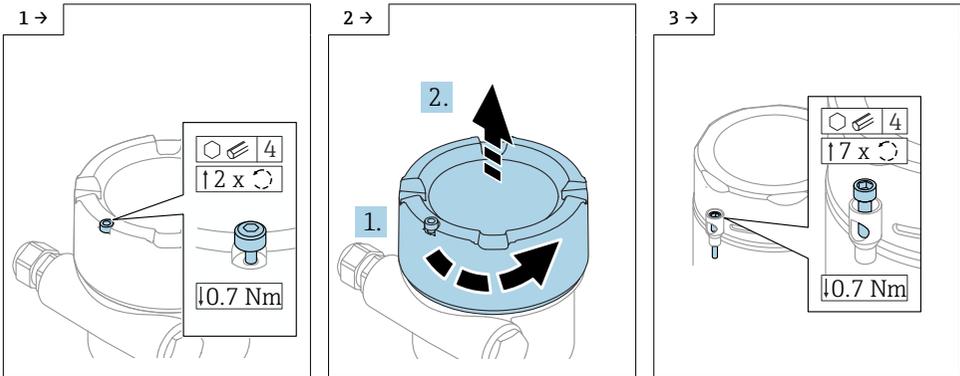


- 1 Single-compartment housing
- 2 Dual-compartment housing, L-form
- 3 Single-compartment housing, 316L hygienic

6 Removal

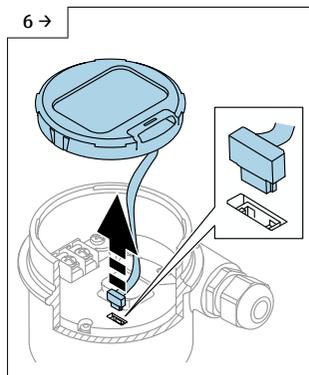
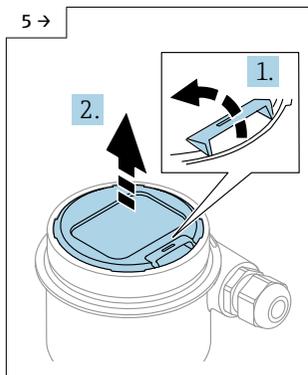
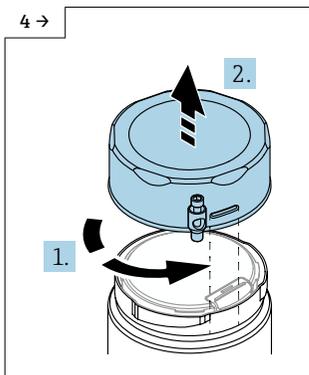
6.1 Single-compartment housing

6.1.1 Removing the cover, display and electronics module

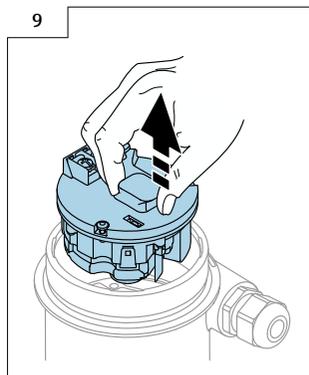
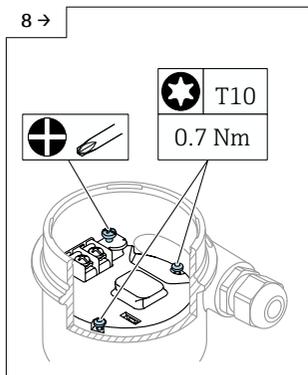
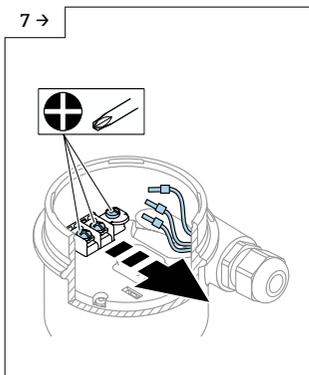


► Optional: cover lock

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

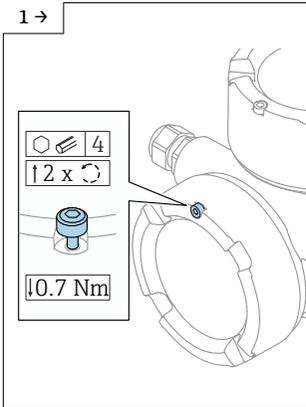


► Optional: display

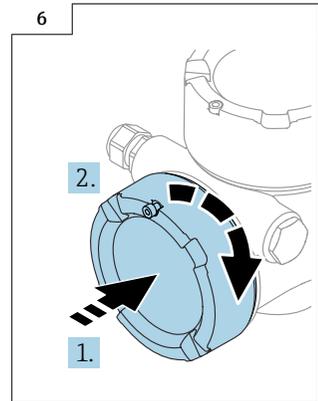
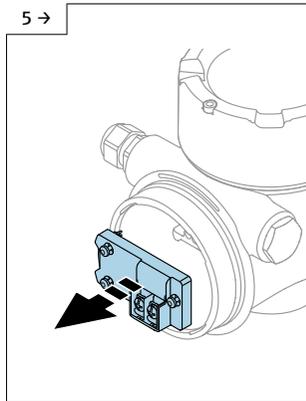
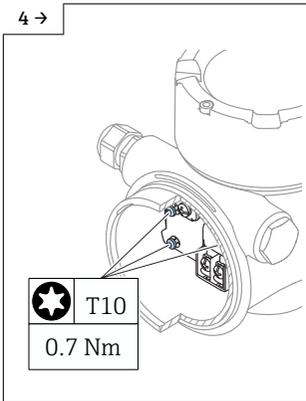
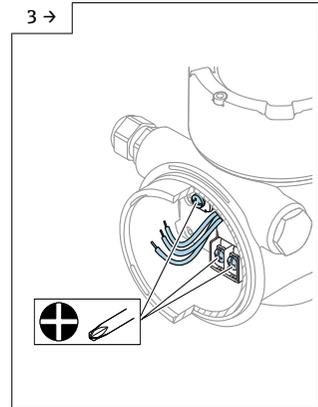
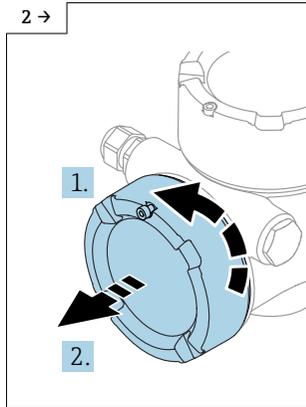


6.2 Dual-compartment housing, L-form

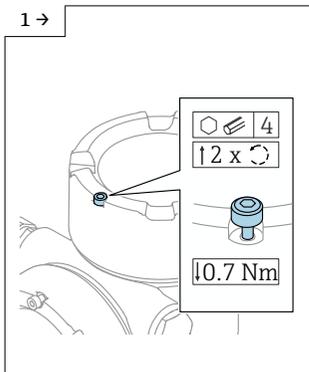
6.2.1 Removing the cover and clamping module



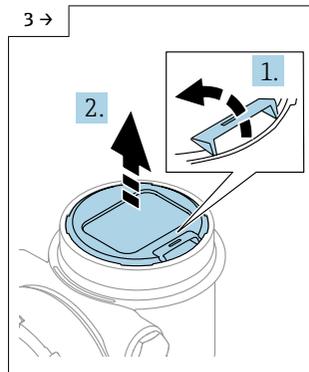
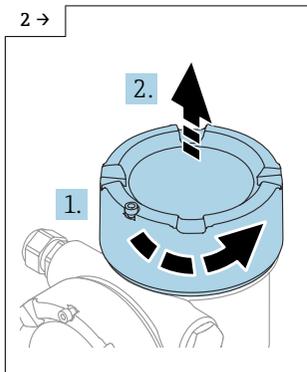
► Optional: cover lock



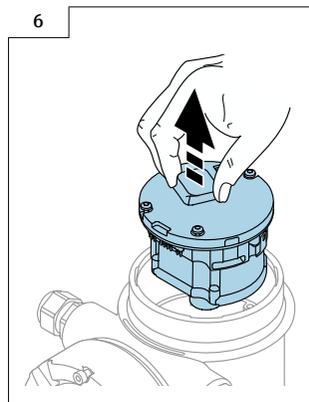
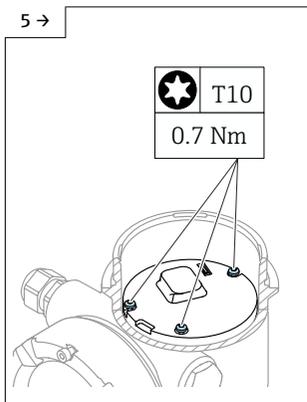
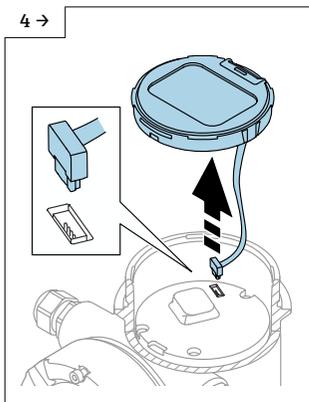
6.2.2 Removing the cover, display and electronics module



► Optional: cover lock



► Optional: display

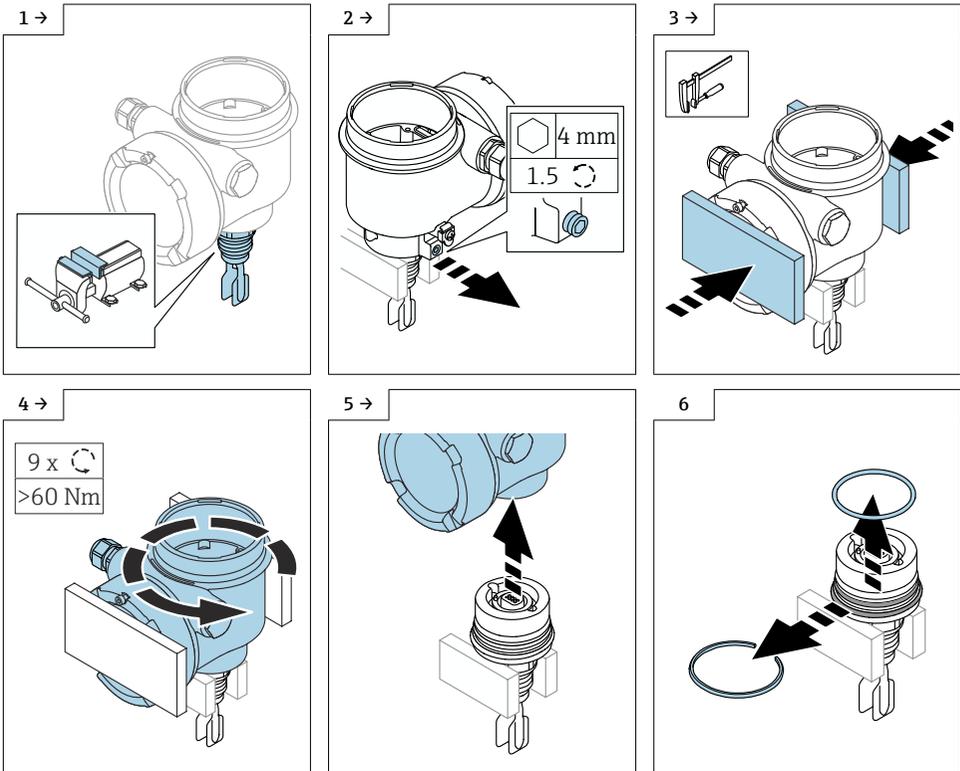


6.3 Separating the housing from the sensor assembly

The procedure is the same for all housing and sensor types; the example shows the dual-compartment housing.



- Protect the sensor assembly and housing from damage.
- Use a bench vise with braces.
- By applying significant force ($> 60 \text{ Nm}$), unscrew the housing from the sensor assembly. This involves applying force several times in and against the screw direction; the snap ring is intentionally destroyed in the process. Replace the O-ring and snap ring.



7 Installation

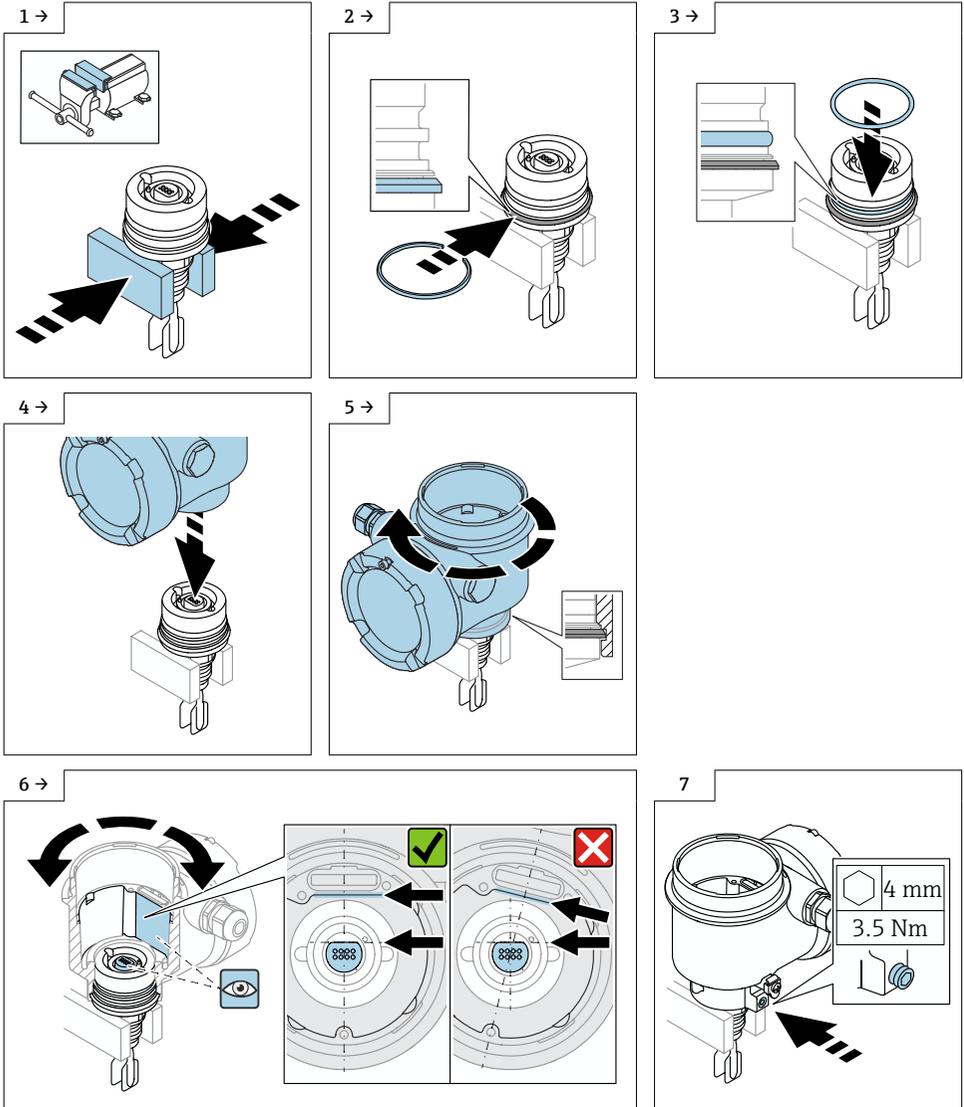
7.1 General installation instructions

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

7.2 Special installation instructions

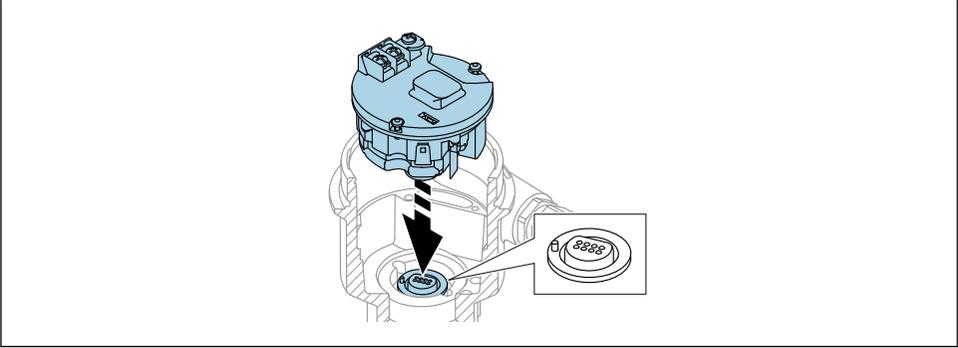
7.2.1 Mounting the new housing

The procedure is the same for all housing and sensor types; the example shows the dual-compartment housing.



7.2.2 Mounting of electronics module

- i** Please note the following:
Insert the electronics module as far as it will go into the housing in the position shown.



8 Cover lock

In the case of devices with a cover lock, the securing screw must not protrude over the lower edge of the cover. Note the position of the securing screw before and while screwing the cover on.

9 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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