

Installation Instructions

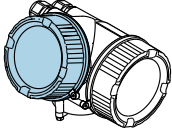
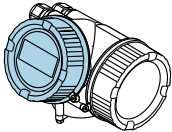
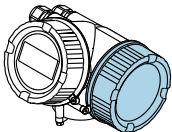
Cover, cover seal

Levelflex FMP5x, Micropilot FMR5x, FMR6x,
Promag 200, Promass 200, Prosonic Flow 200,
Prowirl 200, Remote Display FHX50



1 Overview

The manual applies to the following spare part sets:

Housing cover	Order number	Original spare parts set	Use
 A0033184	71110281	Cover GT18 316L, HNBR	Levellflex FMP5x, Micropilot FMR5x, Micropilot FMR6x, Promass 200, Prosonic Flow 200, Prowirl 200
	71383631	Cover GT18 316L, FVMQ	Levellflex FMP5x, Micropilot FMR5x, Prowirl 200
	71110293	Cover GT19 PBT, EPDM	Levellflex FMP5x, Micropilot FMR5x, Micropilot FMR6x
	71110299	Cover GT20 alu, HNBR	Levellflex FMP5x, Micropilot FMR5x, Micropilot FMR6x, Promag 200, Promass 200, Prosonic Flow 200, Prowirl 200
	71383674	Cover GT20 alu, FVMQ	Levellflex FMP5x, Micropilot FMR5x, Prowirl 200
 A0033185	71110282	Cover GT18 316L, sight glass, HNBR	Levellflex FMP5x, Micropilot FMR5x, Micropilot FMR6x, Remote Display FHX50, Promass 200, Prosonic Flow 200, Prowirl 200
	71383666	Cover GT18 316L, sight glass, FVMQ	Levellflex FMP5x, Micropilot FMR5x, Prowirl 200
	71110292	Cover GT19 PBT, sight glass, EPDM	Levellflex FMP5x, Micropilot FMR5x, Micropilot FMR6x, Remote Display FHX50
	71110297	Cover GT20 alu, sight glass, HNBR	Levellflex FMP5x, Micropilot FMR5x, Micropilot FMR6x, Promag 200, Promass 200, Prosonic Flow 200, Prowirl 200
	71383675	Cover GT20 alu, sight glass, FVMQ	Levellflex FMP5x, Micropilot FMR5x, Prowirl 200
 A0033186	71110284	Cover GT18 316L, terminal Ex, HNBR	Levellflex FMP5x, Micropilot FMR5x, Micropilot FMR6x, Promass 200, Prosonic Flow 200, Prowirl 200
	71110291	Cover GT18 316L, terminal Ex d, HNBR	
	71185516	Cover GT18 316L, terminal, OVP, HNBR	
	71383668	Cover GT18 316L, terminal Ex, FVMQ	Levellflex FMP5x, Micropilot FMR5x, Prowirl 200
	71383670	Cover GT18 316L, terminal Ex d, FVMQ	
	71383671	Cover GT18 316L, terminal, OVP, FVMQ	

Housing cover	Order number	Original spare parts set	Use
	71110295	Cover GT19 PBT, terminal Ex, EPDM	Levellflex FMP5x, Micropilot FMR5x, Micropilot FMR6x
	71185518	Cover GT19 PBT, terminal, OVP, EPDM	
	71110301	Cover GT20 alu, terminal Ex, HNBR	Levellflex FMP5x, Micropilot FMR5x, Micropilot FMR6x, Promag 200, Promass 200, Prosonic Flow 200, Prowirl 200
	71110302	Cover GT20 alu, terminal Ex d, HNBR	
	71185517	Cover GT20 alu, terminal, OVP, HNBR	
	71383679	Cover GT20 alu, terminal Ex, FVMQ	Levellflex FMP5x, Micropilot FMR5x, Prowirl 200
	71383680	Cover GT20 alu, terminal Ex d, FVMQ	Levellflex FMP5x, Micropilot FMR5x, Prowirl 200
	71383682	Cover GT20 alu, terminal, OVP, FVMQ	



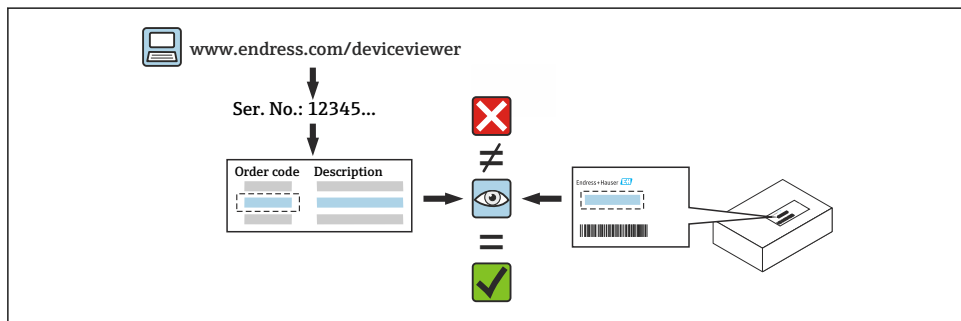
We recommend that you keep the Installation Instructions and packaging together at all times.

2 Intended use

- A defective unit can only be replaced with a functioning unit of the same type.
- Only use original parts from Endress+Hauser.
- In the *Device Viewer* (www.endress.com/deviceviewer), check whether the spare part is suitable for the device in question.



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.



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3 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.

4 Safety instructions

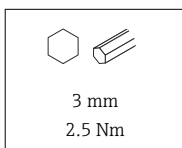
- Observe the Operating Instructions for the device.
- Comply with national regulations regarding mounting, electrical installation, commissioning, maintenance and repair.
- Device is live! Risk of fatal injury from electric shock. Open the device only when the device is deenergized.
- For devices intended 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.

5 Tools list



6 Removal

WARNING

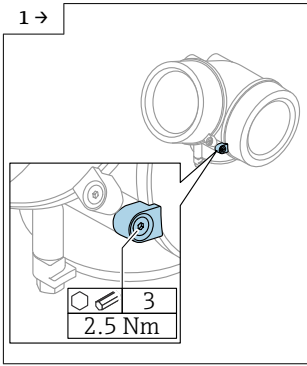
Risk of electric shock from contact with live components!

Burns and injuries caused by startle responses may result.

- Switch off the power supply before opening the device.

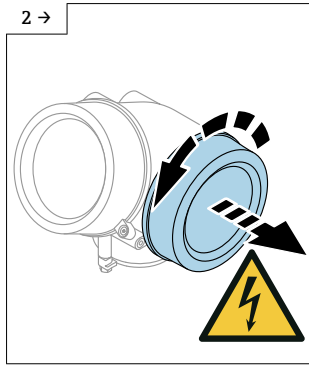
6.1 Replacing the cover, seal

6.1.1 Connection compartment



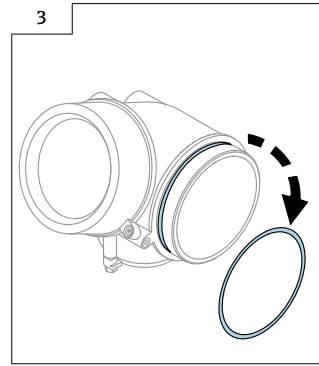
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- ▶ Loosen the screw of the securing clamp on the connection compartment cover using an Allen key and turn the securing clamp 90° counterclockwise.
- ▶ Pay attention to the tightening torque during installation.



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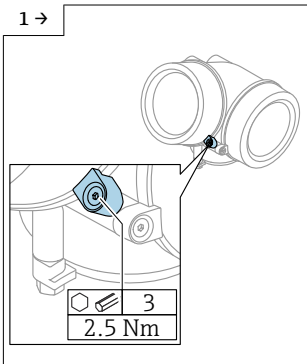
- ▶ Unscrew the connection compartment cover.



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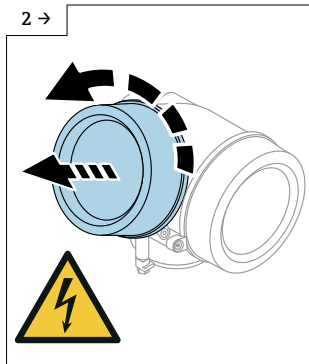
- ▶ Remove the seal.

6.1.2 Electronics compartment



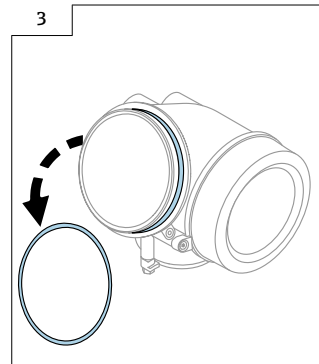
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- ▶ Loosen the screw of the securing clamp on the electronics compartment cover using an Allen key. Swivel the securing clamp 90° counterclockwise.
- ▶ Pay attention to the tightening torque during installation.



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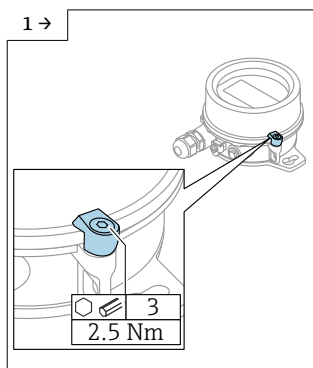
- ▶ Unscrew the electronics compartment cover.



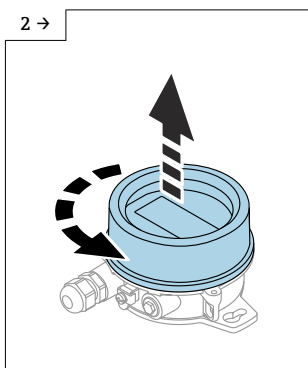
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- ▶ Remove the seal.

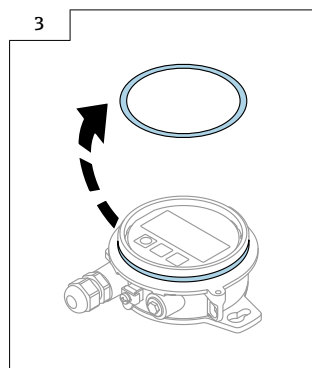
6.1.3 Remote display FHX50



- ▶ Loosen the screw of the securing clamp for the cover using an Allen key. Swivel the securing clamp 90° counterclockwise.
- ▶ Pay attention to the tightening torque during installation.



- ▶ Unscrew the cover.



- ▶ Remove the seal.

7 Installation

7.1 General installation instructions

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

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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