

Installation Instructions

Kit for Memosens COL37E

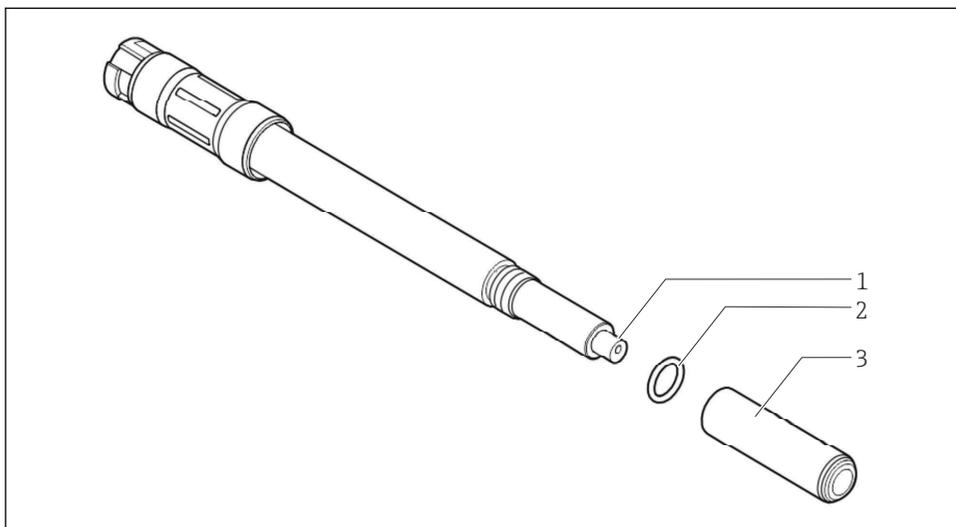
For the oxygen sensor COL37E



Table of contents

1	Overview of Memosens COL37E	3
2	Intended use	3
3	Authorized installation personnel	4
4	Scope of delivery	5
5	Additional documentation	5
6	Replacement of spare parts	6
7	Performing a calibration	9
8	Disposal	11

1 Overview of Memosens COL37E



A0048111

1 Overview of Memosens COL37E

- 1 Optical fiber with temperature sensor
- 2 O-ring
- 3 Sensor cap

2 Intended use

- The parts of the kits must only be used as retrofit parts or replacement parts for the COL37E sensors. Any other use is not permitted!
- Only use original parts from Endress+Hauser.
- In the W@M Device Viewer, check if the spare part is suitable for the existing device.

3 Authorized installation personnel

- Installation, commissioning, operation and maintenance of the measuring system may be carried out only by specially trained technical personnel.
- The technical personnel must be authorized by the plant operator to carry out the specified activities.
- The electrical connection may be performed only by an electrical technician.
- The technical personnel must have read and understood these Installation Instructions and must follow the instructions they contain.
- Faults at the measuring point may only be rectified by authorized and specially trained personnel.

 Repairs not described in the Operating Instructions provided must only be carried out directly at the manufacturer's site or by the service organization.

4 Scope of delivery

4.1 COL37E kit

The kit contains the following parts →  2,  5:

1 x	Sensor cap	1 x	Calibration bottle
1 x	O-ring	1 x	Manufacturer's certificate
1 x	O-ring mounting tool	1 x	Instructions
1 x	Cleaning cloth		



A0046113

 2 COL37E kit

5 Additional documentation

Detailed information on the device can be found in the Operating Instructions for the sensor and in the other documentation available via:

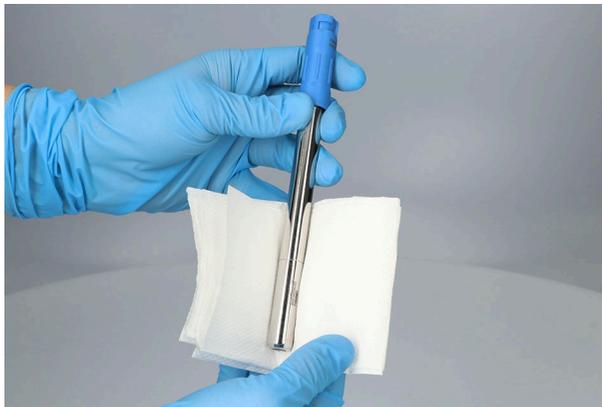
- www.endress.com/device-viewer
- Smartphone/tablet: Endress+Hauser Operations app

6 Replacement of spare parts

- ▶ Replace the O-ring immediately if it is damaged.

Replacing the O-ring

1. Clean the sensor before replacing the O-ring. For this, use a cleaning agent that suits the type of contamination.



A0048114

2. Unscrew the sensor cap and remove it.



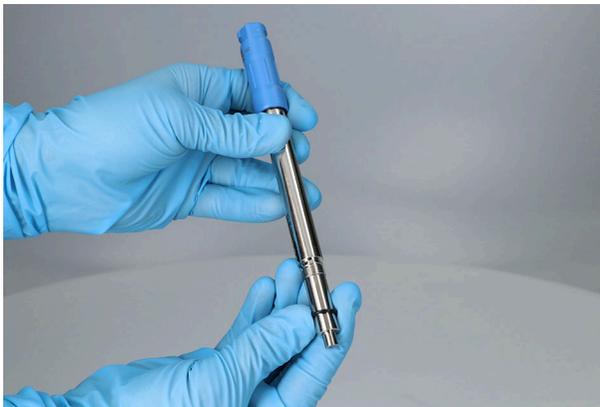
A0048115

NOTICE**Material damage from mechanically cleaning the optical fiber with the temperature sensor!**

Polishing or scratching can result in the impaired functionality or total failure of the sensor.

► Clean the optical fiber with the temperature sensor by dabbing carefully with a damp cloth.

3. Carefully remove the O-ring from the sensor. To remove, do not use any sharp or pointed objects so that you do not damage the sensor.



A0048116

4. Fit the O-ring mounting tool over the sensor optics.



A0048117

5. Slide the O-ring over the O-ring mounting tool onto the shaft sleeve until it has reached its end position.



A0048121

6. Remove the O-ring mounting tool and fit the sensor cap.

Replacing the sensor cap

1. Perform a visual inspection of the new sensor cap:
Hold the new sensor cap up against the light.
 - ↳ Only the green homogeneous fluorescence layer should be visible inside the sensor cap.
2. Unscrew the existing sensor cap and remove it.



A0048115



Recommendation: Always replace the O-ring each time you replace the sensor cap.

3. Screw the new sensor cap onto the sensor shaft to the end stop so that a gap is no longer visible between the cap and the sensor shaft.



A0048120

4. Perform the **Cap Change** process in the SmartBlue app. You can find this under the following menu path: Guidance → Calibration → Change sensor cap
↳ The sensor is now operational again.

i Each time you replace the cap, make sure to perform a zero point calibration and a calibration in oxygen. If performing maintenance without changing the cap, please check the sensor in air. The calibration can be performed using the device directly in the Guidance menu. It is also possible to perform a calibration in the SmartBlue app via the Guidance → Calibration menu item. Pay attention to the Operating Instructions of the measuring device used.

7 Performing a calibration

i Avoid direct sunlight or wind during the calibration.

Performing zero point calibration

1. Open the bottle with the COY8 zero-point gel and cover the sensor with gel, making sure there are no bubbles. Then put the sensor in the bottle.
2. Wait until the sensor displays stable measured values.
3. Start the calibration via the CML18 handheld device or via the SmartBlue app and save the values for adjustment.

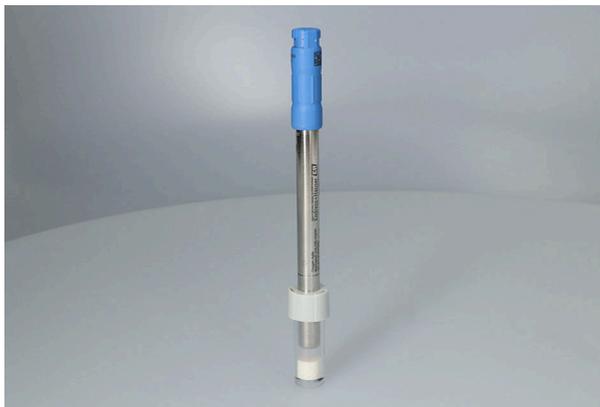
Performing calibration in oxygen

1. Wet the sponge in the calibration bottle.



A0048660

2. Then mount the calibration bottle containing the sponge on the sensor.



A0048661

3. Start the calibration via the CML18 handheld device or via the SmartBlue app.

More information is provided in the Technical Information TI01244C/07 and in the Operating Instructions BA02002C/07 in the Download Area on www.endress.com.

8 Disposal

8.1 Sensors



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 Endress+Hauser for disposal under the applicable conditions.



71565759

www.addresses.endress.com
