

Technical Information

Flowfit COA30

Flow cell for calibrating oxygen sensors with a length of 120 to 420 mm and a diameter of 12 mm



Application

Flowfit COA30 is an efficient tool for calibrating your oxygen sensors. It guarantees precise results and can be flexibly adapted to different measuring requirements. Thanks to its compact design, it can be used quickly anywhere, ensuring reliable processes.

Flowfit COA30 is the ideal solution in applications where accurate and efficient calibration of oxygen sensors is required. Furthermore, the PMMA version of Flowfit COA30 is suitable for liquids. It enables manual oxygen measurement directly at the process - even without an installed measuring point. In existing measuring points, calibration is more convenient with Flowfit COA30 as the sensor does not need to be removed.

- Power plants and energy
- Life sciences
- Food & beverages
- Chemical industry

Your benefits

- Accurate calibration of your oxygen sensors with test gases: Flowfit COA30 enables accurate calibration of oxygen sensors, adapting them precisely to the requirements of the relevant measuring point.
- Easy calibration of oxygen sensors with different sensor lengths from 120 mm to 420 mm: Install the sensor in the flow cell, connect it to the transmitter, connect the appropriate test gas, calibrate and it's done.
- Time savings when carrying out zero adjustment: Compared to conventional calibration methods using sodium sulfite or zero-point gel, the COA30 flow cell offers significantly faster calibration.
- Flowfit COA30 allows you to save significant time during zero adjustment and avoid additional cleaning. The calibration is carried out with test gases such as nitrogen, leaving no residue and requiring minimal effort.
- Flexible oxygen measurement directly at the process - even without a fixed measuring point (PMMA version only).
- Maximum efficiency: Calibration of the measuring point in the process without removing the installed sensor (PMMA version only).

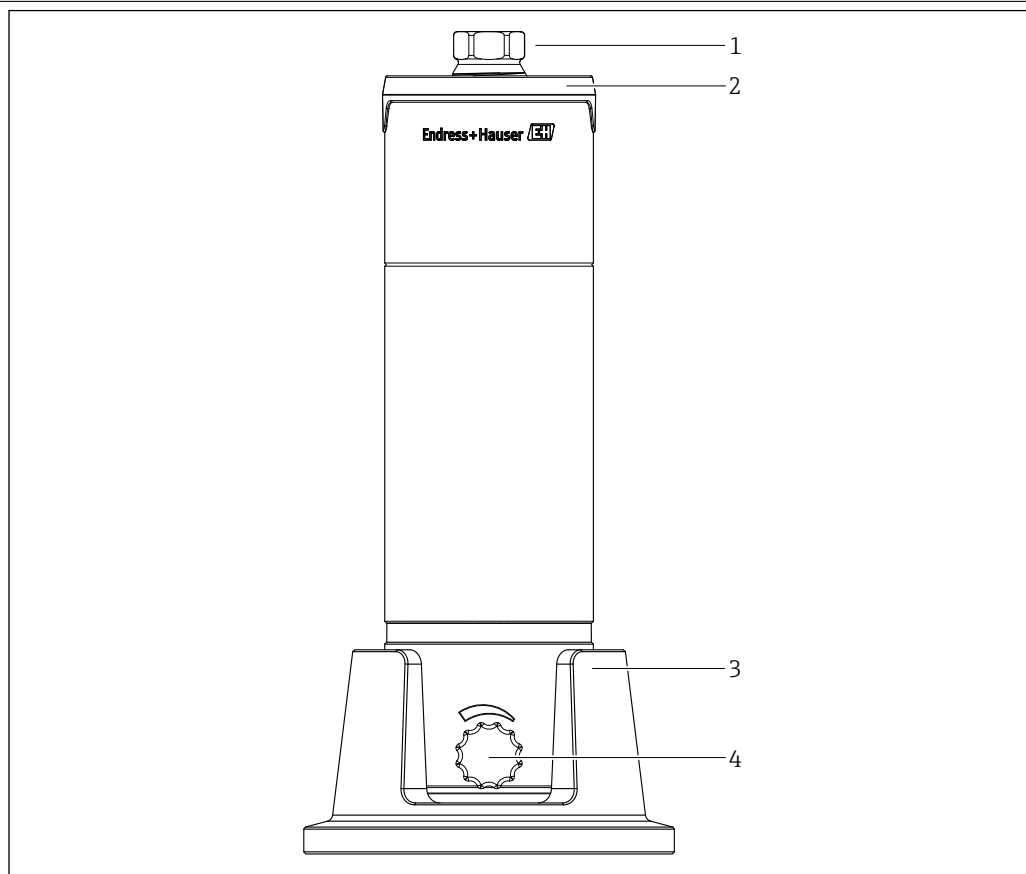
Function and system design

Operating principle

Flowfit COA30 is a flow cell for calibrating oxygen sensors using test gases (e.g. nitrogen) and for determining the oxygen content in liquids. It enables oxygen measurement when no measuring point is installed and facilitates in-process calibration of an existing measuring point. Measuring in liquids is only permitted with the PMMA version.

- The COA30 flow cell is only suitable for indoor operation. Protect from direct sunlight and UV light.

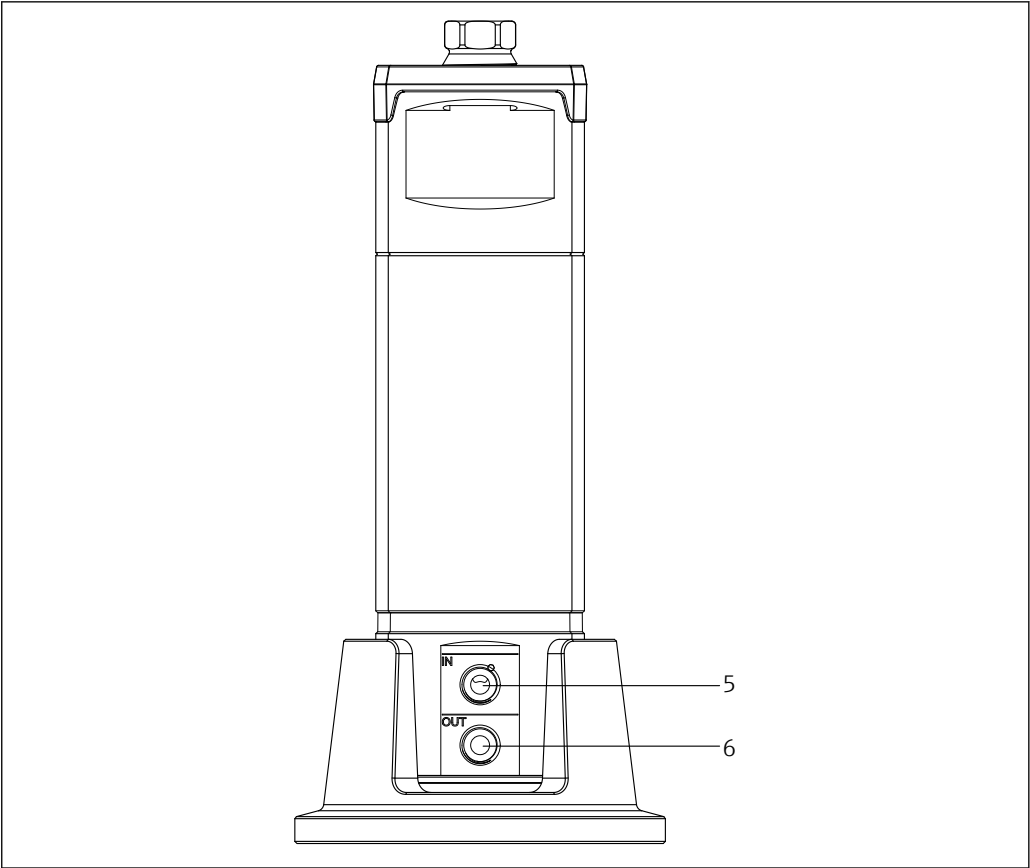
Measuring system



A0058728

1 Flowfit COA30 front view

- 1 Screw plug PG 13.5
- 2 Edge protection
- 3 Stand base
- 4 Needle valve



A0058729

2 Flowfit COA30 rear view

- 5 Inlet
- 6 Outlet

Environment

Ambient temperature

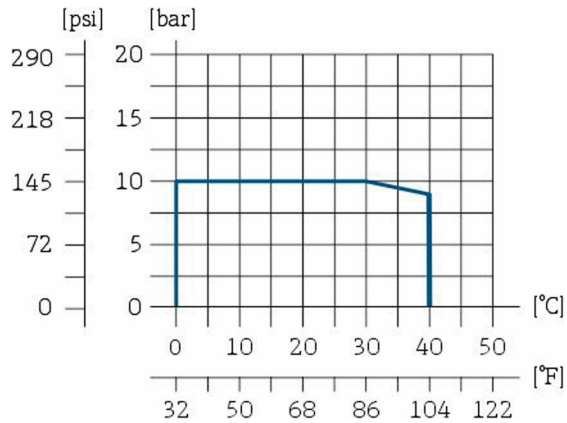
- POM**
-15 to 50 °C (5 to 122 °F)
- PMMA**
-5 to 40 °C (23 to 104 °F)

Process

Process temperature range

- POM**
0 to 50 °C (32 to 122 °F)
- PMMA**
0 to 40 °C (32 to 104 °F)

Process pressure



A0060992

Process connections

POM

Inlet: 4 mm outer diameter hose

Outlet: 4 mm outer diameter hose

PMMA

Inlet: 8 mm outer diameter hose

Outlet: 8 mm outer diameter hose

Mechanical construction

Dimensions

L x W x H

206 x 80 x 57 mm (8.1" x 3.2" x 2.2")

Weight

POM

Approx. 600 g (21.2 oz)

PMMA

Approx. 550 g (19.4 oz)

Materials

Flow assembly: POM-C, PMMA

Sealing rings: EPDM

Adapter: POM-C

Certificates and approvals

Current certificates and approvals for the product are available at www.endress.com on the relevant product page:

1. Select the product using the filters and search field.
2. Open the product page.
3. Select **Downloads**.


Ordering information

Product page

www.endress.com/COA30

Product Configurator

1. **Configure**: Click this button on the product page.

2. Select **Extended selection**.
 - ↳ The Configurator opens in a separate window.
 3. Configure the device according to your requirements by selecting the desired option for each feature.
 - ↳ In this way, you receive a valid and complete order code for the device.
 4. **Accept**: Add the configured product to the shopping cart.
-  For many products, you also have the option of downloading CAD or 2D drawings of the selected product version.
5. **CAD**: Open this tab.
 - ↳ The drawing window is displayed. You have a choice between different views. You can download these in selectable formats.

Scope of delivery

The scope of delivery includes:

- Calibration kit in the version ordered
- Operating Instructions COA30
- Manufacturer's certificate

If you have any questions, please contact your supplier or your local sales center.

Accessories

The following are the most important accessories available at the time this documentation was issued.

Listed accessories are technically compatible with the product in the instructions.

1. Application-specific restrictions of the product combination are possible.
Ensure conformity of the measuring point to the application. This is the responsibility of the operator of the measuring point.
2. Pay attention to the information in the instructions for all products, particularly the technical data.
3. For accessories not listed here, please contact your Service or Sales Center.



www.addresses.endress.com
