



Systems

Components



Technical Information

Flowfit COA250

Flow assembly for oxygen sensors Assembly for unsupported installation in pipes or wall mounting



Application

The flow assembly COA250 has been specially designed to hold oxygen sensors with a diameter of 40 mm (1.57 inch). It can be used wherever normal sensor immersion is either impossible or undesirable.

Main areas of application are:

- Wastewater treatment
- Drinking water
- Monitoring of surface waters
- Analysis stations
- Process applications

Your benefits

- Simple wall installation or unsupported installation in pipes
- Automatic self-venting due to bottom inlet/top outlet design
- Quick oxygen sensor response is assured by minimized inside volume
- Construction is insensitive to clogging
- Oxygen sensor can be easily removed for calibration in air
- Allows connection of a spray head for sensor membrane cleaning during operation





People for Process Automation

Function and system design

Measuring system

- A complete measuring system comprises:
- Flowfit COA250
- Oxygen sensor, e.g. COS31, COS41, COS61 or COS51D
- Measuring cable, e.g. CYK10
- Transmitter, e.g. Liquiline M CM42

Optional:

Junction box for cable extension, e.g. RM junction box

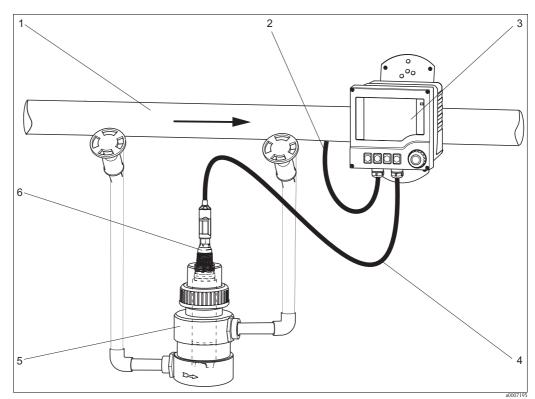


Fig. 1: Measuring system

- 1 Process line with bypass and valves
- Supply line of the transmitter
- 2 3 Transmitter Liquiline M CM42
- 4 Measuring cable CYK10
- 5 Flowfit COA250
- 6 Oxygen sensor COS51D

Installation

Installation instructions

To get a flow through the bypass, pressure p1 has to be higher than pressure p2. Therefore, you have to install an aperture in the main conduit ($\rightarrow \square 2$).

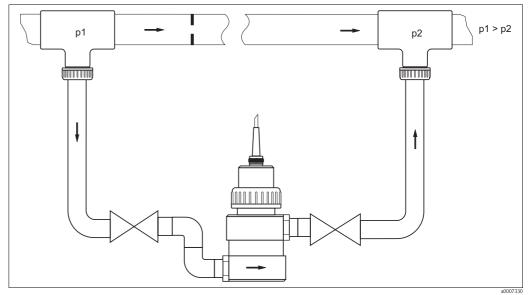


Fig. 2: Installation example with bypass and aperture in the main conduit

In case of an open outlet installation, no pressure increasing procedure is needed (\rightarrow \square 3).

Fig. 3: Installation example with open outlet

Environment Ambient temperature range 0 ... 50 °C (32 ... 120 °F) Storage temperature 0 ... 50 °C (32 ... 120 °F)

Process

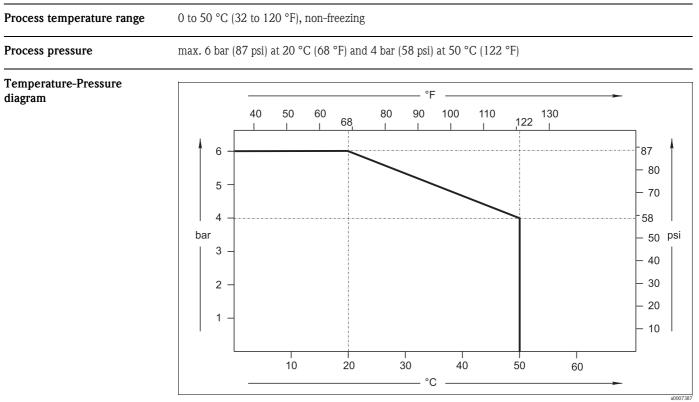


Fig. 4: Temperature-Pressure diagram

Design, dimensions

Mechanical construction

Fig. 5: Dimensions

* with long sensor sleeve (COA250-B)

** with short sensor sleeve (COA250-A)

Weight	0.5 to 0.8 kg (1.1 to 1.8 lbs), depending on process connection
Materials	EPDM (sealings) PVC
Process connection	G¾ (for usual fittings)
Suitable sensors	Amperometric and optical sensors with Ø40 mm (1.57 inch) and G1 thread
	Installation lengths COA250-A: 110 to 150 mm (4.3 to 5.9 inch), e.g. COS 3 / 3HD / 4 / 4HD / 41 / 51D COA250-B: 140 to 190 mm (5.5 to 7.5 inch), e.g. COS 31 / 61

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Ordering information

Product structure	Version
	A Short sensor sleeve for COS41 / 51D / 3 / 3HD / 3S / 4 / 4HD
	B Long sensor sleeve for COS31 / 61
	COA250- complete order code
Scope of delivery	 The scope of delivery comprises: Flowfit assembly (ordered version) Operating Instructions (English)
	Accessories Note! In the following sections, you find the accessories available at the time of issue of this documentation. For information on accessories that are not listed here, please contact your responsible service.
Accessories kits	Long sensor sleeve For later installation of sensor COS31 / 61 into COA250-A assembly order no. 51507172
	Pipe clamp COY250For panel or wall mountingorder no. 50065132
Sensors	 Oxymax W COS31 Oxygen sensor for drinking water and wastewater measurements, potentiostatic amperometric principle Material: stainless steel 1.4571 (AISI 316 Ti) Ordering acc. to product structure, see Technical Information (TI285C/07/en)
	 Oxymax W COS41 Oxygen sensor for drinking water and wastewater measurements, amperometric principle Material: POM Ordering acc. to product structure, see Technical Information (TI284C/07/en)
	 Oxymax W COS51D Amperometric sensor for dissolved oxygen, with Memosens technology Ordering acc. to product structure, see Technical Information (TI413C/07/en)
	 Oxymax W COS61 Optical oxygen sensor for drinking water and wastewater measurements, fluorescence quenching principle Material: stainless steel 1.4571 (AISI 316 Ti) Ordering acc. to product structure, see Technical Information (TI387C/07/en)
Cleaning systems	Chemoclean CUR3 Spray head for flow assemblies CUA250 and COA250 order no. CUR3-1
	 Chemoclean Injector CYR10 and programme sequencer CYR20 Ordering acc. to product structure, see Technical Information (TI046C/07/en)

中国E+H技术销售 www.ainstru.com 电话: 18923830905 邮箱: sales@ainstru.com

