# Flow assembly for the measurement of dissolved oxygen FlowFit W COA 260

# Plate or wall mounting assembly for the determination of dissolved oxygen traces





















#### Application

The COA 260 flow assembly has been specially developed for use with the oxygen trace membrane sensor OxyMax W COS 71.

Due to its dimensions and materials, it is particularly suitable for processes where there is a minimal concentration of dissolved oxygen, e.g. for monitoring boiler feed water in power plants.

#### Your benefits

- Easy plate or wall mounting by clip holder
- Automatic deaeration via inlet and outlet orientation
- Fast sensor response time
- Easy removal of the sensor for calibration on air
- All medium contacting parts made of stainless steel 1.4435 (AISI 316 L)





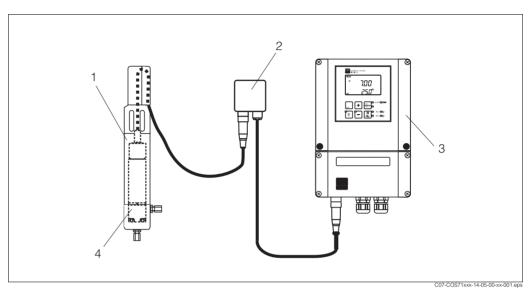
# Function and system design

#### Measuring system

A complete measuring system comprises:

- a FlowFit W COA 260 flow assembly
- an OxyMax W COS 71 oxygen sensor
- a Liquisys M COM 223/253-WX/WS transmitter

Optionally, the VS junction box can be used for cable extension.

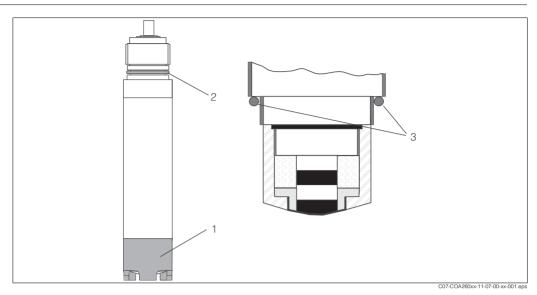


Measuring system example

- 1 FlowFit W COA 260 flow assembly
- 2 VS junction box (only if cable extension is required)
- 3 Liquisys M COM 223/253-WX/WS transmitter
- 4 COS 71 oxygen sensor

# Installation

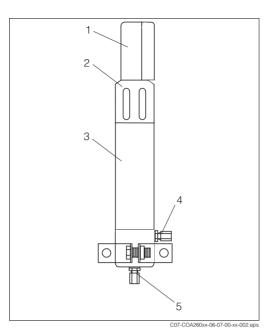
Preparing COS 71 for installation in the COA 260 assembly



Preparation of the COS 71 installation

- 1 Protection basket
- 2 O-Ring at the cable insert
- 3 O-Ring at the sensor head
- 1. Remove the O-ring at the cable insert (pos. 2). It is not required when installing the COS 71 sensor in the COA 260 flow assembly.
- 2. Remove the protection basket (pos. 1).
- 3. Fit the supplied O-ring as shown in the figure above (pos. 3).

# Installing COS 71 in the COA 260 assembly



- 1. Protective cap
- 2. Pressing screw
- 3. Intermediary
- 4. Medium outlet
- 5. Medium inlet

- 1. Remove the protective cap and the pressing screw (pos. 1 and 2).
- 2. Insert the sensor into the assembly. Make sure that the O-ring is seated on the sealing surface of the assembly.
- 3. Insert the sensor cable into the lateral slot of the pressing screw.
- 4. Keep the cable straight and tighten the pressing screw.
- 5. Place the protective cap upon the pressing screw.

#### **Removing COS 71**

- 1. Remove the protective cap.
- 2. Keep the cable straight and unscrew the pressing screw.
- 3. Remove the sensor.



Note!

When reinstalling the sensor, make sure that the O-ring is still functional.

#### **Medium** inlet

Use the bottom fitting for the medium inlet (pos. 5).

# **Environment**

## Ambient temperature

Ambient temperature not below 0 °C (32 °F).

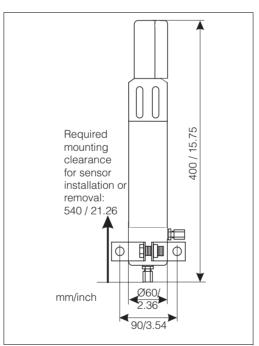
# **Process**

| Process pressure    | max. 10 bar at 50 °C / 145 psi at 122 °F |
|---------------------|--|
| Process temperature | max. 50 °C (122 °F)                      |

**Flow rate** min. 200 ml/min max. 600 ml/min

# **Mechanical construction**

### Design, dimensions



C07-COA260xx-06-07-00-en-001.6

| Weight             | approx. 2 kg (4.4 lb)   |   |  |  |
|--------------------|---|---|--|--|
| Materials          | Flow vessel<br>Intermediary<br>Pressing screw<br>Protective cap<br>Sealing ring | stainless steel 1.4435 (AISI 316L) PVC PVC PA EPDM          |  |  |
| Process connection | Pipe connection 6 mr  | Pipe connection 6 mm (0.24") outer diameter                 |  |  |
| Connection parts   | -   | Threaded joint with screw fitting G 1/8 threaded connection |  |  |

# **Ordering information**

#### **Product structure**

| Version  |  |  |  |  |
|--|--|--|--|--|
| A Material: stainless steel 1.4435 (AISI 316L), for COS 71 |  |  |  |  |
|  |  | Process connection   |  |  |
|  |  | 0 Process connection: for pipe 6 mm (0.24") outer diameter |  |  |
| COA 260-   |  | complete order code  |  |  |

### Scope of delivery

The scope of delivery includes:

- 1 FlowFit W COA 260 flow assembly with clip holder and pressing screw
- 1 Protective cap
- 1 O-ring, inner diameter 32.92 mm (1.30"), thickness 3.53 mm (0.14")
- Technical Information TI 310C/07/en

## **Accessories**

□ Kit COA 260, O-ring 32.92 x 3.53 mm (1.30" x 0.14"), EPDM, packed in storage bag; order no. 51512460

# **Documentation**

□ Liquisys M COM 223/253, Technical Information TI 199C/07/en; order no. 51500281 □ OxyMax W COS 71, Technical Information TI 286C/07/en; order no. 51506697

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