

Assemblies for oxygen sensors COS 3/COS 3S and COS 4 COA 110

Oxygen measurement in immersion operation



Areas of application

The immersion assemblies COA 110 are designed to hold the oxygen sensors COS 3, COS 3S and COS 4.

The COA 110-40 version together with the universal suspension assembly holder CYH 101-A serves as a complete installation system for measuring transmitter and sensor and is particularly suitable for measurements in open basins or tanks (e.g. activated sludge basin in a sewage treatment plant).

The COA 110-50 version enables oxygen measurement in lakes, rivers or basins with considerable fluctuations of the water level.

Benefits at a glance

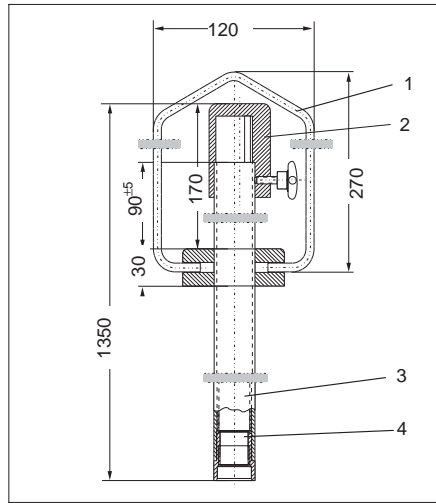
- The immersion tube and sensor have the same outside diameter. Once the sensor is attached, the immersion tube and sensor form a single ridgeless unit effectively preventing dirt accumulation on the sensor.
- All assemblies are designed so that water motion causes a slight oscillating movement of the immersion tube. This results in an additional cleaning effect on the sensor membrane surface.



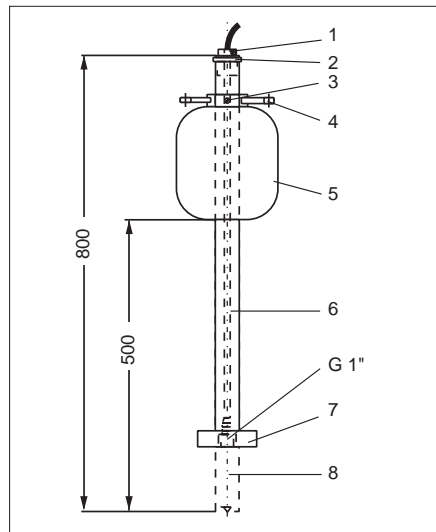
Dimensions

Immersion holder
COA 110-40

- 1 Mounting bracket
- 2 Protection cover for cable entry
- 3 Lead pipe for stabilization
- 4 G1"-internal thread for oxygen sensor COS 3 / COS 3S or COS 4



- 1 Cable strain relief
- 2 Cable outlet and rain protection
- 3 Fixing ring with clamping screw
- 4 Eyelets Ø 15; 3 x 120° for attachment of assembly by means of fastening strings
- 5 Salt water-resistant plastic float
- 6 Stainless steel pipe 40 x 1 Material 1.4571
- 7 „Shock absorber“ weight for stabilization
- 8 Oxygen sensor COS 3 / COS 3S or COS 4



COA 110-40

The immersion assembly COA 110-40 is attached to the universal suspension assembly holder (transverse pipe) with the stainless steel mounting bracket and a plastic chain. The height can be adapted to the local conditions by selecting the appropriate chain position. The integrated lead pipe secures the assembly in the vertical installation position. The sensor can be easily removed for cleaning, air calibration or general control.

COA 110-50

The COA 110-50 float assembly consists of the float body made of salt water-resistant polyurethane foam. The immersion pipe (65 cm long) with G1" thread holds the sensor. Three eyelets are arranged in an angle of 120° (attached on the fixing ring above the body) for attachment of fastening strings. An additional weight on the lower end increases the lateral stability and serves as a shock absorber. The pendulum motion of the immersion pipe has a cleaning effect on the sensor membrane. The immersion depth of the sensor tip is approx. 60 cm below the water level.

How to order

O₂ assembly COA 110

Version

40 PVC 1.30 m + mounting bracket V4A
50 V4A 0.65 cm / PUR floating body

COA 110 -

← complete order code

Accessories

Mounting bracket V4A

Order no.
50016475

Supplementary documentation

OP baffle plate, protection under extreme flow conditions
 TI COS 3/COS 3S
 TI COS 4

50028712
50057226
50085981

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