

## Atmospheric oxygen sensors for GMH3691

## closed sensor type:

**GGO 380**

For low oxygen-concentration, fast response time

**GGO 370**

Universal applications, diving, longlife

**General:**

- suitable for under and over pressure
- for using in gas-tight systems

**Application:**

Suitable for measuring in normal atmosphere and in systems without or with slight under or over pressure. The sensor type features a screw thread and can be built in gas-tight in almost every system directly resp. with tube-adaptor.

**Note:**

not for under water use (Rebreathers)

## open sensor type:

**GOO 380**

for low oxygen-concentration, fast response time

**GOO 370**

universal applications, diving, longlife

**General:**

- suitable for air- or gas-stream
- quick temperature compensation

**Application:**

Because of the special sensor construction the measuring gas streams optimally around the sensor and escapes through holes in the housing into the air. No pressure build-up at slight streaming of the probe, that falsify the result of measurement.

Particularly suitable for measuring of gas out of gas-bottle etc. Even measuring indoor-gas concentration is possible.

Specification:	GGO/GOO 370	GGO/GOO 380
<b>Specific features:</b>	Stronger membrane, coated electronics, temperature compensation	for low oxygen-concentration, fast response time
<b>Measuring range:</b>		
<b>Partial oxygen pressure:</b>	0 ... 1100 hPa O <sub>2</sub>	0 ... 300 hPa O <sub>2</sub>
<b>Oxygen concentration:</b>	0.0 ... 100.0 % O <sub>2</sub>	0.0 ... 25.0 % O <sub>2</sub>
<b>Response time: T<sub>90</sub></b>	< 10 s	< 5 s
<b>Accuracy (at 25 °C, 1013 hPa):</b>		
<2 % O <sub>2</sub>	±0.2 % O <sub>2</sub>	±0.1 % O <sub>2</sub>
<25 % O <sub>2</sub>	±0.5 % O <sub>2</sub>	±0.5 % O <sub>2</sub>
>25 % O <sub>2</sub>	±0.5 % O <sub>2</sub>	no information
<b>Operating conditions:</b>	0 ... 45 °C 0 ... 95 % RH (non-condensing)	0 ... 50 °C 0 ... 95 % RH (non-condensing)
<b>Ambient pressure:</b>	0.5 ... 2.0 bar abs.	
<b>Over-/under-pressure:</b>	max. 0.25 bar (pressure difference sensor membrane to ambient – sensor screwed-in)	
<b>Storage temperature:</b>	-15 ... +60 °C	
<b>Operation life:</b>	on air: >4 years (warranty for sensor element: 12 months)	on air: >2 years (warranty for sensor element: 12 months)
<b>Sensor:</b>	GOEL 370	GOEL 380
<b>Connection:</b>	Oxygen-partial pressure probe, mounted in external sensor housing replaceable (temperature sensor mounted in housing) approx. 1.3 m cable with Mini-DIN-plug.	
<b>Dimensions of housing:</b>	GGO...: approx. Ø 36 mm x 95 mm (150 mm incl. anti-buckl. glanding), GOO...: approx. Ø 40 mm x 105 mm (160 mm incl. anti-buckl. glanding) Housing with M16 x 1-screw thread (sensor can be connected to line tubes by means of an additional adapter)	
<b>Weight:</b>	approx. 135 g (GGO...) or approx. 145 g (GOO..)	
<b>Scope of supply:</b>	GGO... : sensor, flow diverter, T-piece GOO... : sensor, flow diverter	

**Option:**

- Cable length 4 m**
- Cable length 10 m**

**Accessories and spare parts:****GOEL 380**

spare sensor element for replacement by user, suitable for low oxygen concentrations, fast

**GOEL 370**

spare sensor element for replacement by user, suitable for universal applications, diving, longlife

**GZ-11**

flow rate adapter to measure the oxygen concentration with 6/4 mm tube

**ESA 369**

spare tube-adaptor M16x1, for tubes with a inner-diameter of 15 mm

