

## ATMOSPHERIC OXYGEN SENSORES FOR GMH 569X AND GMH 369X

## CLOSED SENSOR TYPE GGO



CLOSED

**GGO 581**

Art. no. 610029

Atmospheric oxygen sensores, closed sensor type, incl. GOEL 381, precise even at 20.2 % and 35 %, suitable for GMH 569x

**GGO 570**

Art. no. 607480

Atmospheric oxygen sensores, closed sensor type, incl. GOEL 370 recommended for high CO<sub>2</sub> concentrations of up to 35 % O<sub>2</sub>, immersion gas, longlife, suitable for GMH 569x

**GGO 381**

Art. no. 610030

Atmospheric oxygen sensores, closed sensor type, incl. GOEL 381, precise even at 20.2 % and 35 %, suitable for GMH 369x

**GGO 370**

Art. no. 601224

Atmospheric oxygen sensores, closed sensor type, incl. GOEL 370 recommended for high CO<sub>2</sub> concentrations of up to 35 % O<sub>2</sub>, immersion gas, longlife, suitable for GMH 369x

**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-adapter.

longer cable length 4 m and 10 m on demand

## OPEN SENSOR TYPE GOO



OPEN

**GOO 581**

Art. no. 610033

Atmospheric oxygen sensor, open sensor type, incl. GOEL 381, precise even at 20.2 % and 35 %, suitable for GMH 569x

**GOO 570**

Art. no. 607482

Atmospheric oxygen sensor, open sensor type, incl. GOEL 370 recommended for high CO<sub>2</sub> concentrations of up to 35 % O<sub>2</sub>, immersion gas, longlife, suitable for GMH 569x

**GOO 381**

Art. no. 610034

Atmospheric oxygen sensor, open sensor type, incl. GOEL 381, precise even at 20.2 % and 35 %, suitable for GMH 369x

**GOO 370**

Art. no. 601228

Atmospheric oxygen sensor, open sensor type, incl. GOEL 370 recommended for high CO<sub>2</sub> concentrations of up to 35 % O<sub>2</sub>, immersion gas, longlife, suitable for GMH 369x

**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.

longer cable length 4 m and 10 m on demand

Note: not suited for „under water“-applications (rebreather, etc.)

## CLOSED SENSOR TYPE WITH PRESSURE CONNECTION GGA

FOR DEVICES WITH PRESSURE CONNECTION

**GGA 581**

Art. no. 610031

Atmospheric oxygen sensor with pressure connection, incl. GOEL 381, precise even at 20.2 % and 35 %, suitable for GMH 569x

**GGA 570**

Art. no. 607486

Atmospheric oxygen sensor with pressure connection, incl. GOEL 370 recommended for high CO<sub>2</sub> concentrations of up to 35 % O<sub>2</sub>, immersion gas, longlife, suitable for GMH 569x

**GGA 381**

Art. no. 610032

Atmospheric oxygen sensor with pressure connection, incl. GOEL 381, precise even at 20.2 % and 35 %, suitable for GMH 369x

**GGA 370**

Art. no. 607484

Atmospheric oxygen sensor with pressure connection, incl. GOEL 370 recommended for high CO<sub>2</sub> concentrations of up to 35 % O<sub>2</sub>, immersion gas, longlife, suitable for GMH 369x

**General:**

For devices with external pressure port (GMH 5695 / 3695) is this housing optimal. Especially for systems with high or low pressure or with existing back pressure by flow.

**Application:**

It can be screwed airtight (Attention: Observe permissible operating pressure!). The device-pressure port is connected to the sensor pressure port. The device measures and compensates for the actual pressure at the sensor.

longer cable length 4 m and 10 m on demand

Specifications:	GGA/GGO/GOO 570/370	GGA/GGO/GOO 581/381
<b>Sensor element:</b>	GOEL 370	GOEL 381
	Oxygen-partial pressure probe, mounted in external sensor housing replaceable (temperature sensor mounted in housing)	
<b>Specific features:</b>	Long service life For protective gases with a high O <sub>2</sub> concentration and oxygen content <35 vol. % O <sub>2</sub>	for the lowest O <sub>2</sub> concentrations; For protective gases, in general, precise and very small measurements and above 35 vol. % O <sub>2</sub>
<b>Measuring range</b>		
<b>Partial oxygen pressure:</b>	0 ... 1100 hPa O <sub>2</sub>	0 ... 1100 hPa O <sub>2</sub>
<b>Oxygen concentration:</b>	0.0 ... 100.0 % O <sub>2</sub>	0.0 ... 100.0 % O <sub>2</sub>
<b>Response time: T<sub>90</sub></b>	<10 s	<10 s
<b>Accuracy (at 25 °C, 1013 hPa)</b>		<1.5 % O <sub>2</sub>
<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 ... 45 °C 0 ... 95 % RH (non-condensing)
<b>Ambient pressure:</b>	0.6 ... 1.75 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>Connection:</b>	<b>GGA/GGO/GOO 3...:</b> approx. 1.2 m cable with Mini-DIN-plug. <b>GGA/GGO/GOO 5...:</b> approx. 1 m cable with 7-pole bayonet connector	
<b>Dimensions of housing:</b>	GGA.../ 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.../GGA...)	
<b>Scope of supply:</b>	GGA.../ GGO...: sensor, flow diverter, T-piece GOO...: sensor, flow diverter	