

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 CO₂ concentrations of up to 35 % O₂, 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 CO₂ concentrations of up to 35 % O₂, 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 CO₂ concentrations of up to 35 % O₂, 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 CO₂ concentrations of up to 35 % O₂, 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 CO₂ concentrations of up to 35 % O₂, 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 CO₂ concentrations of up to 35 % O₂, 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
Sensor element:	GOEL 370	GOEL 381
	Oxygen-partial pressure probe, mounted in external sensor housing replaceable (temperature sensor mounted in housing)	
Specific features:	Long service life For protective gases with a high O ₂ concentration and oxygen content <35 vol. % O ₂	for the lowest O ₂ concentrations; For protective gases, in general, precise and very small measurements and above 35 vol. % O ₂
Measuring range		
Partial oxygen pressure:	0 ... 1100 hPa O ₂	0 ... 1100 hPa O ₂
Oxygen concentration:	0.0 ... 100.0 % O ₂	0.0 ... 100.0 % O ₂
Response time: T₉₀	<10 s	<10 s
Accuracy (at 25 °C, 1013 hPa)		<1.5 % O ₂
<2 % O ₂	±0.2 % O ₂	±0.1 % O ₂
<25 % O ₂	±0.5 % O ₂	±0.5 % O ₂
>25 % O ₂	±0.5 % O ₂	no information
Operating conditions:	0 ... 45 °C 0 ... 95 % RH (non-condensing)	0 ... 45 °C 0 ... 95 % RH (non-condensing)
Ambient pressure:	0.6 ... 1.75 bar abs.	
Over-/under-pressure:	max. 0.25 bar (pressure difference sensor membrane to ambient - sensor screwed-in)	
Storage temperature:	-15 ... +60 °C	
Operation life:	on air: >4 years (warranty for sensor element: 12 months)	on air: >2 years (warranty for sensor element: 12 months)
Connection:	GGA/GGO/GOO 3...: approx. 1.2 m cable with Mini-DIN-plug. GGA/GGO/GOO 5...: approx. 1 m cable with 7-pole bayonet connector	
Dimensions of housing:	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)	
Weight:	approx. 135 g (GGO...) or approx. 145 g (GOO.../GGA...)	
Scope of supply:	GGA.../GGO...: sensor, flow diverter, T-piece GOO...: sensor, flow diverter	