

TECHNICAL DATA FOR ATMOSPHERIC OXYGEN SENSORS Gxx 570/370 and Gxx 581/381

TECHNICAL SPECIFICATIONS:	Gxx 570/370	Gxx 581/381
Sensor element:	GOEL 370	GOEL 381
	Oxygen partial pressure sensor, built into the housing, interchangeable (temperature sensor integrated into the housing)	
Special features:	long service life for shielding gases with high O ₂ concentration and oxygen content <35 vol. % O ₂	for the lowest O ₂ concentrations, for protective gases in general, precise even with very small measured values and over 35 vol. % O ₂
Measuring range		
Oxygen partial 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	not specified
Working conditions:	0.45 °C 0.95 % RH (not condensing)	0.45 °C 0.95 % RH (not condensing)
Ambient pressure:	0.6..1.75 bar abs.	
Over/under pressure:	max. 0.25 bar (pressure difference sensor membrane to environment – if mounted)	
Storage temperature:	-15 .. + 60 °C	
Lifespan:	in air: > 4 years (warranty on sensor element: 12 months)	in air: > 2 years (warranty on sensor element: 12 months)
Device connection:	Gxx 3 ...: approx. 1.2 m long cable with mini-DIN connector; GGA/GGO/Gxx 5 ...: approx. 1 m long cable with 7-pole bayonet connection	
Housing dimensions:	GGA .../GGO ...: approx. Ø 36 mm x 95 mm (150 mm including kink protection) GOO ...: approx. Ø 40 mm x 105 mm (160 mm including kink protection) housing with M16X1 screw thread (sensor can be coupled into line tube using the tube adapter supplied.)	
Weight:	approx. 135 g (GGO ...) or approx. 145 g (GOO .../GGA ...)	
Scope of delivery:	GGA .../GGO ...: sensor, tube adapter, T-piece; GOO ...: Sensor, tube adapter	

Note: not suitable for use in "underwater applications" (rebreather, etc.)

ACCESSORIES GMH 3692 / -95 AND GMH 5690 / -95



GOEL 370

Item No. 601490

Replacement sensor element oxygen (acidic electrolyte)

GENERAL:

Integrated in GGO 370, GGA 370, GOO 370 (for GMH 3690/91/92/95) or GGO 570, GGA 570, GOO 570 (for GMH 5690/95); universal sensor element, long-life, recommended for immersion gas and protective gases from 0.2..35 % O₂, also with an increased CO₂ content.

Note: not suitable for use in "underwater applications" (rebreather, etc.)

GOEL 381

Item No. 610035

Spare sensor element oxygen (alkaline electrolyte)

GENERAL:

Integrated in GGO 381, GGA 381, GOO 381 (for GMH 3690/91/92/95) or GGO 581, GGA 581, GOO 581 (for GMH 5690/95); fast sensor element recommended for immersion gas and shielding gases from 0.0 to 100 % O₂, not permanent with increased CO₂ content.

Note: not suitable for use in "underwater applications" (rebreather, etc.)

ACCESSORIES OR SPARE PARTS:

GDZ-11

Item No. 603144

Flow adapter, M16x1 internal thread with 6/4 mm tube connection, for measuring the oxygen concentration



ESA 369

Item No. 603058

Tube adapter / flow diverter, M16x1 thread, for tubes with an inner diameter of 15 mm



ZOT 369

Item No. 603094

T-piece for plugging onto ESA 369/ESA 100



GAS PUMP



SUPPLEMENT FOR
GAS ANALYSIS AND
AIR QUALITY
MEASURING DEVICES



HIGHLIGHTS:

- Simple application
- Robust membrane pump
- Quiet
- Low gas flow
- Mobile operation with battery
- Battery level indicator

GS 150

Item No. 610005

Gas pump for gas sampling

APPLICATION:

E.g. in connection with residual oxygen measuring devices for protective gas applications, ...

TECHNICAL SPECIFICATIONS:

Working principle:	motor-operated membrane pump with inlet/outlet connection, battery-operated
Max. Negative pressure:	approx. -360 mbar
Delivery rate:	open: approx. 280 ml / min, with GDZ 29: approx. 150 ml / min
Connection:	universal pressure connection for 6/4 mm tube (inside Ø 4 mm)
Usable gases:	non-corrosive, dust-free gases; a condensate trap is recommended for high gas moisture
Service:	On / off slide switch
Environmental conditions:	+10 .. + 50 °C, 0.95 % RH
Battery / lifetime:	9 V block battery, approx. 10 h
Battery level indicator:	2 LEDs: full / weak
Scope of delivery:	device, battery, operating instructions

ACCESSORIES OR SPARE PARTS:

GDZ-29

Item No. 601599

Filter membrane including Luer locks (GDZ-32 and GDZ-33), prevents contamination from even the finest particles and liquids