AIR OXYGEN MEASURING TRANSDUCER


pic. sensor GGO


pic. sensor GOO

THE DEVICE IS ONLY INTENDED FOR CONTROL. IT IS NOT A REPLACEMENT FOR A MONITORING DEVICE SUBJECT TO AUTHORISATION!

OXY 3690 MP

Art. no. 602027

Air oxygen measuring transducer incl. sensor; For protective gases with a high O_2 concentration and oxygen content <35 vol.% O_2 (GOEL 370)

OXY 3690 MP-LO

Art. no. 602139

Air oxygen measuring transducer incl. sensor; For protective gases in general, precise even with very low measurements (e.g. <0.5 vol. % O_2) and above 35 vol.% O_2 (GOEL 381)

Specifications:	
Measuring ranges:	
Oxygen concentration:	0.0 ... 100.0 % O_2 (gaseous) **OXY 3690 MP:** recommended range 0.2 ... 35.0 vol.% O_2 (reduced precision outside) **OXY 3690 MP-LO:** also suitable for values ≤0.2 vol.% O_2
Temperature:	-20.0 ... 50.0 °C
Accuracy device (at nominal temperature 25 °C):	
Oxygen:	±0.1 % ±1 digit
Temperature:	±0.1 °C ±1 digit
Output signal (O_2 only):	4 ... 20 mA (2-wire - standard), 0 ... 10 V (3-wire - option)
Electric isolation:	input electrically isolated
Auxiliary energy:	12 ... 30 V DC (at output 4 ... 20 mA) 18 ... 30 V DC (at output 0 ... 10 V - option)
Perm. impedance (at 4 ... 20 mA):	R_A [Ω] ≤ (Uv [V] - 12 V) / 0.02 A
Permissible load (at 0 ... 10 Volt):	R_L >3000 Ω
Working condition:	0 ... +50 °C, 0 ... 95 % RH (non-condensing)
Storage temperature:	-20 ... +70 °C
Reverse voltage protection:	50 V permanently
Display:	approx. 10 mm high, 4-digit LCD-display
Housing:	ABS (IP65 - with the exception of sensor plug)
Dimensions:	82 x 80 x 55 mm (without elbow-type plug and sensor plug)
Electric connection:	elbow-type plug acc. to EN 175301-803/A (IP65), max. wire cross section: 1.5 mm², wire diameter from 4.5 ... 7 mm
Sensor connection:	5-pin jack connector, screwable
Calibration:	1-point calibration in atmospheric air
Air pressure compensation:	500 ... 2000 hPa abs., manually input

Oxygen sensor:	
Sensor type:	depending on the version, see above
Measuring ranges:	0.0 ... 100.0 % O_2
Response time T_{90}:	<10 s, depending on temperature
Warranty:	12 months (assuming appropriate usage according to the manual)
Application area:	suitable for air and pure oxygen, protective gases
Temperature compensation:	integrated in sensor housing
Connection cable:	approx. 1.3 m, with 5-pin plug, screwable
Operating pressure:	500 ... 2000 hPa (static).
For air and gas-stream use the option GOO.../MU.	
Working condition:	0 ... +45 °C, 0 ... +95 % RH (non-condensing)
Storage temperature:	-15 ... +60 °C

Dimensions of housing:	approx. Ø 40 x 103 mm (153 mm incl. anti-buckling glanding), housing with M16x1-screw thread (sensor can be connected to line tubes by means of an included adapter piece)
Weight:	approx. 135 g

Option:

AV010:
Output signal 0 ... 10 V

GOO:
Oxygen sensor, open sensor type, suitable for air and gas-stream.
(further information p.r.t. page 77)

KL10:
Sensor connection cable 10 m

LO:
Design type for fast measurements of low oxygen contents (0 ... 25 %) with sensor element GOEL 381

Accessories and spare parts:

GOEL 370
Art. no. 601490
Spare sensor element

GOEL 381
Art. no. 610035
Spare sensor element

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Greisinger		
1.	O^2-sensor-element	
	0	GOEL 370, protection gases with higher CO_2 concentrations and O_2 concentrations below < 35 Vol. % O_2
	2	GOEL 381, precise measuring at low O_2 (e.g. <0.5 Vol. % O_2 or concentrations above 35 Vol. % O_2
2.	Sensor design	
	-GGO	Closed sensor
	-GOO	Open sensor design
3.	Output signal	
	-A1	4-20 mA (2-wire)
	-V2	0-10 V
4.	Measuring range	
	...	0,0 ... 100,0 % O_2, recommended measuring range 0.2 ... 35.0 % Vol. O_2 (beyond reduced precision)
	-LO	0.0 ... 100.0 % Vol. O_2 (also for values <=0.2 % Vol. O_2)
5.	Cable length	
	-L01	1.3 m
	-L04	4 m
	-L10	10 m