AIR OXYGEN MEASURING TRANSDUCER









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

OXY 3690 MP

Art. no. 602027

Air oxygen measuring transducer incl. sensor; For protective gases with a high O₂ concentration and oxygen content <35 vol.% O₂ (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:

0.0 ... 100.0 % O₂ (gaseous) Oxygen concentration:

OXY 3690 MP: recommended range 0.2 ... 35.0 vol.% O₂

(reduced precision outside)

OXY 3690 MP-LO: also suitable for values ≤0.2 vol.% O₂

Temperature:

Accuracy device (at nominal temperature 25 °C):

±0.1 % ±1 digit Oxvaen: ±0.1 °C ±1 digit Temperature:

Output signal (O, 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)

 $R_A [\Omega] \le (Uv [V] - 12 V) / 0.02 A$ Perm, impedance

(at 4 ... 20 mA):

Permissible load $R_{_{I}} > 3000 \Omega$

(at 0 ... 10 Volt):

Working condition: 0 ... +50 °C, 0 ... 95 % RH (non-condensing)

Storage temperature: -20 ... +70 °C Reverse voltage pro-50 V permanently

tection:

approx. 10 mm high, 4-digit LCD-display

Display: ABS (IP65 - with the exception of sensor plug) Housing:

82 x 80 x 55 mm (without elbow-type plug and sensor plug) **Dimensions:** elbow-type plug acc. to EN 175301-803/A (IP65), max. wire **Electric connection:** 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

Response time T₉₀: <10 s, depending on temperature

Warranty: 12 months (assuming appropriate usage according to the

suitable for air and pure oxygen, protective gases **Application area:**

Temperature integrated in sensor housing

compensation:

Connection cable: approx. 1.3 m, with 5-pin plug, screwable

500 ... 2000 hPa (static). Operating pressure: For air and gas-stream use the option ${\sf GOO}.../{\sf MU}.$

0 ... +45 °C, 0 ... +95 % RH (non-condensing) Working condition:

-15 ... +60 °C Storage temperature:

approx. Ø 40 x 103 mm (153 mm incl. anti-buckling glanding), Dimensions of housing: 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

G00:

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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1.	O²-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	
	-G00	Open sensor design	
3.	Output signal		
	-A1	4-20 mA (2-wire)	
	-V2	0-10 V	
4.	Measuring range		
		$0,0\dots 100,0\%$ O_2 , recommended measuring range $0.2\dots 35.0\%$ 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	