

## air oxygen measuring transducer



### OXY 3690 MP

air oxygen measuring transducer incl. oxygen sensor GGO370/MU

Specification:	
<b>Measuring ranges:</b>	
oxygen concentration:	0.0 ... 100.0 % O <sub>2</sub> (gaseous)
temperature:	-20.0 ... 50.0 °C
<b>Accuracy device (at nominal temperature 25 °C):</b>	
oxygen:	±0.1 % ± 1 digit
temperature:	±0.1 °C ± 1 digit
<b>Output signal (only O<sub>2</sub>):</b>	
	4 - 20 mA (2-wire - standard) 0 - 10 V (3-wire - option)
<b>Electric isolation:</b> input electrically isolated	
<b>Auxiliary energy:</b> 12 ... 30 V DC (at output 4-20 mA) 18 ... 30 V DC (at output 0-10 V - option)	
<b>Perm. impedance (at 4-20 mA):</b> R <sub>A</sub> [Ω] ≤ (U <sub>v</sub> [V] - 12 V) / 0.02 A	
<b>Permissible load (at 0-10 Volt):</b> R <sub>L</sub> > 3000 Ω	
<b>Working condition:</b> 0 ... +50 °C, 0 ... +95 % RH (non-condensing)	
<b>Storage temperature:</b> -20 ... +70 °C	
<b>Reverse voltage protection:</b> 50 V permanently	
<b>Display:</b> approx. 10 mm high, 4-digit LCD-display	
<b>Housing:</b> ABS (IP65 - with the exception of sensor plug)	
<b>Dimensions:</b> 82 x 80 x 55 mm (without elbow-type plug and sensor plug)	
<b>Electric connection:</b> elbow-type plug acc. to EN 175301-803/A (IP65), max. wire cross section: 1.5 mm <sup>2</sup> , wire diameter from 4.5 ... 7 mm	
<b>Sensor connection:</b> 5-pin jack connector, screwable	
<b>Calibration:</b> 1-point calibration in atmospheric air.	
<b>Air pressure compensation:</b> 500 ... 2000 hPa abs., manually input	

Oxygen sensor:	
<b>Sensor type:</b>	GGO 370 / MU
<b>Measuring range:</b>	0.0 ... 100.0 % O <sub>2</sub>
<b>Response time T<sub>90</sub>:</b>	<10 s, depending on temperature
<b>Warranty:</b>	12 months (assuming appropriate usage according to the manual)
<b>Application area:</b>	suitable for air and pure oxygen, suitable for high CO <sub>2</sub> -concentrations

<b>Temperature compensation:</b> integrated in oxygen sensor	
<b>Connection cable:</b>	approx. 1.3 m, with 5-pin plug, screwable
<b>Operating pressure:</b>	500 ... 2000 hPa (static).
For air and gas-stream use the oxygen sensor GOO.../MU.	
<b>Working condition:</b>	-5 ... +45 °C, 0 ... +95 % RH (non-condensing)
<b>Storage temperature:</b>	-15 ... +60 °C
<b>Dimensions of housing:</b>	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)
<b>Weight:</b>	approx. 135 g

Option:	
- AV010:	output signal 0 - 10 V
- GOO:	oxygen sensor GOO 370 / MU, open sensor type, suitable for air and gas-stream. (further information p.r.t. p 47)
- KL10:	sensor connection cable 10 m
- LO:	design type for fast measurements of low oxygen contents (0-25 %) with sensor element GOEL 380

Accessories and spare parts:	
<b>GOEL 370</b>	spare sensor element for GGO 370 / MU

## oxygen measuring transducer for dissolved oxygen in liquids



### OXY 3610 MP

oxygen measuring transducer incl. oxygen sensor GWO3600MU

Specification:	
<b>Measuring ranges:</b>	
oxygen concentration:	0.00 ... 25.00 mg/l (dissolved)
temperature:	0.0 ... 50.0 °C
<b>Accuracy device (at nominal temperature 25 °C):</b>	
oxygen:	±1.5 % of m.v ± 0.2 mg/l
temperature:	±0.1 °C ± 1 digit
<b>Output signal (only O<sub>2</sub>):</b>	
	4 - 20 mA (2-wire - standard) 0 - 10 V (3-wire - option)
<b>Electric isolation:</b> input electrically isolated	
<b>Auxiliary energy:</b> 12 ... 30 V DC (at output 4-20 mA) 18 ... 30 V DC (at output 0-10 V - Option)	
<b>Perm. impedance (at 4-20 mA):</b> R <sub>A</sub> [Ω] ≤ (U <sub>v</sub> [V] - 12 V) / 0.02 A	
<b>Permissible load (at 0-10 Volt):</b> R <sub>L</sub> > 3000 Ω	
<b>Working condition:</b> 0 ... +50 °C, 0 ... +95 % RH (non-condensing)	
<b>Storage temperature:</b> -20 ... +70 °C	
<b>Reverse voltage protection:</b> 50 V permanently	
<b>Display:</b> approx. 10 mm high, 4-digit LCD-display	
<b>Housing:</b> ABS (IP65 - with the exception of sensor plug)	
<b>Dimensions:</b> 82 x 80 x 55 mm (without elbow-type plug and sensor plug)	
<b>Electric connection:</b> elbow-type plug acc. to EN 175301-803/A (IP65), max. wire cross section: 1.5 mm <sup>2</sup> , wire diameter from 4.5 ... 7 mm	
<b>Sensor connection:</b> 5-pin jack connector, screwable	
<b>Calibration:</b> 1-point calibration: simple quick calibration in atmospheric air.	

oxygen sensor (GWO3600MU):	
<b>Electrode:</b>	active membrane type, with integrated NTC-resistor
<b>Response time:</b>	95 % in 10 s, depending on temperature
<b>Operation life::</b>	3 years or more, depending on maintenance
<b>Operating pressure:</b>	max. 3 bar.
<b>Flow rate:</b>	min. 30 cm/s
<b>Build in diameter:</b>	Ø 12.0 ±0.2 mm (suitable for ½" screw connection)
<b>Overall length:</b>	approx. 220 mm (with anti-buckling glanding)
<b>Build in length:</b>	approx. 110 mm
<b>Connection cable:</b>	approx. 4 m, with 5-pin plug, screwable
<b>Warranty:</b>	12 months
<b>Working temperature:</b>	0 ... +40 °C
<b>Scope of supply:</b>	device incl. electrode, GWOK01 and KOH100

Option:	
<b>AV010:</b>	output signal 0-10 V

Accessories and spare parts:	
<b>GWO 3600 MU</b>	Spare electrode with 4 m cable
<b>Upcharge for electrode with 10 m cable length</b>	
<b>Upcharge for electrode with 30 m cable length</b>	
<b>GSKA 3600</b>	protection cap for depth measuring
<b>GAS 3600</b>	working set (consisting of 3 spare diaphragm heads and 100 ml KOH-electrolyte)
<b>GWOK 01</b>	spare diaphragm head
<b>KOH 100</b>	spare electrolyte KOH, 100 ml-bottle