

AIR OXYGEN MEASURING TRANSDUCER

**OXY 3690 MP**

Product-ID: 602027

Air oxygen measuring transducer incl. sensor

Specifications:	
Measuring ranges:	
oxygen concentration:	0.0 ... 100.0 % O ₂ (gaseous)
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 (only O ₂):	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):	$R_A [\Omega] \leq (U_v [V] - 12 V) / 0.02 A$
Permissible load (at 0-10 Volt):	$R_L > 3000 \Omega$
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 mm ² , 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:	GGO 370 / MU
Measuring range:	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, suitable for high CO ₂ -concentrations
Temperature compensation:	integrated in sensor housing
Connection cable:	approx. 1.3 m, with 5-pin plug, screwable
Operating pressure:	500 ... 2000 hPa (static).
<i>For air and gas-stream use the option GOO.../MU.</i>	
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 - 10V
GOO:	oxygen sensor GOO 370 / MU, open sensor type, suitable for air and gas-stream. (further information p.r.t. page 56)
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:	
GOEL-370	Product-ID: 601490 spare sensor element for GGO 370 / MU

OXYGEN MEASURING TRANSDUCER
FOR DISSOLVED OXYGEN IN LIQUIDS**OXY 3610 MP**

Product-ID: 602029

oxygen measuring transducer incl. sensor

Specifications:	
Messbereiche:	
oxygen concentration:	0.00 ... 25.00 mg/l (dissolved)
temperature:	0.0 ... 50.0 °C
Accuracy device (at nominal temperature 25 °C):	
oxygen:	±1.5 % of m.v ± 0.2 mg/l
temperature:	±0.1 °C ± 1 digit
Output signal (only O ₂):	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):	$R_A [\Omega] \leq (U_v [V] - 12 V) / 0.02 A$
Permissible load (at 0-10 Volt):	$R_L > 3000 \Omega$
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 mm ² , wire diameter from 4.5 ... 7 mm
Sensor connection:	5-pin jack connector, screwable
Calibration:	1-point calibration: simple quick calibration in atmospheric air.

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

Variant:	
OXY3610MP-V2	Product-ID: 602720 output signal 0-10 V

Accessories and spare parts:	
GWO 3600-L04-MU	Product-ID: 603895 Spare electrode with 4 m cable
GWO 3600-L10-MU	Product-ID: 603258 Spare electrode with 10 m cable
GWO 3600-L30-MU	Product-ID: 603259 Spare electrode with 30 m cable
GSKA 3600	Product-ID: 601414 protection cap for depth measuring
GAS 3600	Product-ID: 603497 working set (consisting of 3 spare diaphragm heads and 100 ml KOH-electrolyte)
GWOK 01	Product-ID: 601411 spare diaphragm head
KOH 100	Product-ID: 603356 spare electrolyte KOH, 100 ml-bottle