

Air Oxygen Transmitter incl. Electrode OXY 3690 MP



- O₂-sensor element exchangeable
- Appropriate to air with high CO₂-concentrations
- Input electrically isolated

Characteristics

The OXY 3690 MP measures the oxygen concentration in air. Depending on the selected design type the device is appropriate to either pure oxygen (i.e. low CO₂ concentration) or to air with very high CO₂ concentration.

Technical data

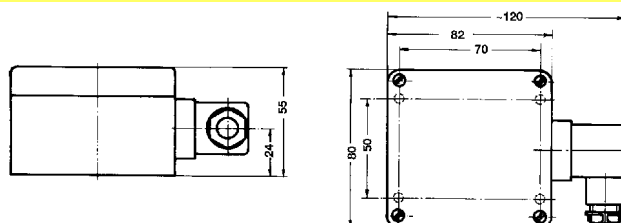
Measuring range
Oxygen concentration : 0.0..100.0 % O₂
Temperature : -20.0..+50.0 °C
Accuracy (transmitter) at 20.9 % O₂, 1000 mbar abs.
Oxygen : ±0.1 % ± 1 digit
Temperature : ±0.1 °C ± 1 digit
Output signal (only O₂) : 4..20 mA (2-wire)
0..10 V (3-wire)
Electrical isolation : input electrically isolated
Working temperature : 0..50 °C
Power supply : 12..30 V DC at 4..20 mA
18..30 V DC at 0..10 V
Permissible impedance : $R_A [\Omega] = (U_V [V] - 12 V) / 0.02 \text{ mA}$
Permissible load : $R_L > 3000 \Omega$
Reverse voltage protect.: 50 V permanent
Display : 10 mm high, 4-digit LCD display
Electric connection : elbow-type plug (EN 175301-803/A),
max. wire cross-section: 1.5 mm²,
wire diameter from 4.5..7.0 mm
Sensor connection : 5-pole screw-able diode socket
Calibration : 1-point-calibration at atmospheric air
Air pressure compensat.: 500..2000 hPa abs., manual input
Over- / under-pressure : max. 0.25 bar
Housing : ABS

O₂-sensor element

	GOEL 370
Measuring range	0.0..100.0 % O ₂
Response time T ₉₀	< 10 s
Application	for air or pure oxygen or for air or air with high CO ₂ -concentration
	GOEL 380
Measuring range	0.0..25.0 % O ₂
Response time T ₉₀	< 5 s
Application	for air with little CO ₂ -concentration, response time shoots

Temp. compensation : integrated in oxygen sensor
Connection cable : 1.3 m with 5-pole screw-able diode plug
Working pressure : 500..2000 hPa (static)
for air or gas inflow option GOO (oxygen probe GOO ... / MU) is needed

Dimensions



Measuring probe : Ø 40 x 103 mm
(153 mm incl. bend protection)

Ordering code

OXY3690MP - 1. - 2. - 3. - 4.

1. O ₂ -sensor element	
0	GOEL 370 for air and pure oxygen
1	GOEL 380
2. Sensor design	
GGO	closed sensor design (suited for over- and under- pressure, used at gas-tight systems)
GOO	open sensor design (e.g. suitable for air or gas inflow, pressure cannot be built up)
3. Output signal	
A1	4..20 mA (2-wire)
V2	0..10 V (3-wire)
4. Cable length	
L01	1.3 m cable
L10	10 m cable

Ordering example: OXY3690MP-0-GGO-A1-L01

Accessories / Spare parts

GOEL 370

Spare sensor element