

air oxygen measuring transducer



OXY 3690 MP incl. oxygen sensor GGO369/MU

Specification

Measuring ranges:

oxygen concentration: 0.0 to 100.0 % O₂ (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 O₂):

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 4-20mA):

RA [Ω] = (U_v [V] - 12 V) / 0.02 A

Permissible load (at 0-10V):

RL > 3000 Ω

Working condition:

0 to +50 °C, 0 to +95 %RH (non-condensing)

Storage temperature:

-20 to +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 DIN 43650 (IP65),
 max. wire cross section: 1.5 mm²,
 wire diameter from 4.5 to 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:

Standard GGO 369 / MU **Option: ... /S**

Sensor type:

GGO 369 / MU GGO 369 S / MU

Measuring range:

0.0 to 100.0 % O₂ 0.0 to 25.0 % O₂

Response time τ₉₀:

<10 sec., depending on temperature <15 sec., depending on temperature

Operating life:

warranty: 12 months warranty: 12 months
(assuming appropriate usage according to the manual)

Application area:

suitable for air and pure oxygen suitable for air and high CO₂-concentrations

Temperature compensation:

integrated in oxygen sensor

Connection cable:

approx. 1.3 m, with 5-pin plug, screwable

Operating pressure:

500 ... 2000 hPa (static).

For air and gas-stream use the oxygen sensor GGO.../MU.

Working condition:

-5 to +50 °C, 0 to +95 %RH (non-condensing)

Storage temperature:

-15 to +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

Options / upcharge

AV010: output signal 0-10V

S: oxygen sensor GGO 369 S / MU, for measurements in gas with CO₂ (for further information p.r.t. page 31)

GOO: oxygen sensor GGO369S/MU, open sensor type, suitable for air and gas-stream. (for further information p.r.t. page 31)

KL10: sensor connection cable 10 m

Accessories / spare parts

GOEL 369 S spare sensor element for GGO 369 S / MU

GOEL 369 spare sensor element for GGO 369 / MU

oxygen measuring transducer for dissolved oxygen in liquids



OXY 3610 MP incl. oxygen sensor

Specification

Measuring ranges:

oxygen concentration: 0.00 to 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 O₂):

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 4-20mA)
 18 ... 30 V DC (at output 0-10V - option)

Perm. impedance (at 4-20mA):

RA [Ω] = (U_v [V] - 12 V) / 0.02 A

Permissible load (at 0-10V):

RL > 3000 Ω

Working condition:

0 to +50 °C, 0 to +95 %RH (non-condensing)

Storage temperature:

-20 to +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 DIN 43650 (IP65),
 max. wire cross section: 1.5 mm²,
 wire diameter from 4.5 to 7 mm

Sensor connection:

5-pin jack connector, screwable

Calibration:

1-point calibration: simple quick calibration in atmospheric air.

oxygen sensor (GWO3600MU):

Electrode:

active membrane type, with integrated NTC-resistor

Response time:

95% in 10 sec., depending on temperature

Operation life:

3 years or more, depending on maintenance

Operating pressure:

max. 3 bar.

Flow rate:

min. 30 cm/sec.

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

Working temperature:

0 to +40 °C

Storage temperature:

0 to +60 °C

Scope of supply: device incl. electrode, GWOK01 and KOH100

Options / upcharge

AV010: output signal 0-10V

Accessories / spare parts

GWO 3600 MU Spare electrode with 4m cable

Upcharge for electrode with 10m cable length

Upcharge for electrode with 30m cable length

GSKA 3600 protection cap for depth measuring

GAS 3600 working set

(consisting of 3 spare diaphragm heads and 100ml KOH-electrolyte)

GWOK 01 spare diaphragm head

per piece

KOH 100 spare electrolyte KOH

100 ml-bottle

Flow apparatus for 12mm electrodes

upon request

Provides sufficient flow for the electrode permanently, therefore the minimum flow is ensured (e.g. for measurements in large depths)