





O2 Gas Sensor in Miniature Housing

Key Features

- · Fast equilibration time
- Long-Life sensor with no consumable parts and lead-free (RoHS compliant)

Applications

- Trace oxygen measurements
- · Continuous Air Quality Monitoring
- Safety and Environmental Control

Measurement

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 1 %
Maximum Overload	21 %
Inboard Filter	-
Output Signal	1300 ± 300 μA/%
Resolution (Electronics dependent)	< 50 ppm
T90 Response Time	< 10 s
Typical Baseline Range (pure N2, 20°C)	0.01 %-equivalent
Maximum Zero Shift (+20°C to +40°C)	N.D.
Repeatability	< 2 % of signal
Output Linearity	Linear
Gain (Only applies to 4-Electrode sensors)	-

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Switzerland

Performance data recorded at 20 - 25 °C, 30 - 50% RH, 900 - 1100 mbar







Electrical

Rec. Load Resistor	10 - 33 Ω
Bias (V_Sens-V_Ref)	-600 mV
Conformity to RoHS directive	RoHS Compliance

Environmental

Relative Humidity Range	15 % to 90 % RH non-condensing
Temperature Range	-40 °C to 50 °C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	N.D.
Humidity Effect	None

<u>Lifetime</u>

Expected Operation Life	3 years in air
Expected Long Term Output Drift in air	< 4% signal per 3 years
Filter Life	
Storage Life	6 months in container
Rec. Storage Temperature	5°C - 20°C
Warranty Period	12 months from date of dispatch

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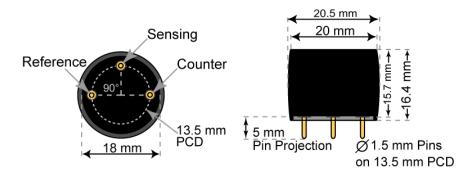






Miniature-Size Outline Dimensions

BOTTOM VIEW SIDE VIEW



± 0.10 mm

Mechanical

Weight 5.5 g

Orientation Any

Housing material Polycarbonate

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Cross Sensitivity Data

The table below does not claim to be complete. Interfering gases should not be used for calibration. Please contact Membrapor AG for further support regarding cross sensitivities.

Interfering Gas Cross-Sens. [%]

H ₂ S	N.D.
SO ₂	N.D.

Important Application Notes

• Conversion factor: 10000 ppm = 1%

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