





H2O2 Gas Sensor in Miniature Housing

Applications

- Discontinuous Measurement
- Sterilization Process

Measurement

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 500 ppm
Maximum Overload	1000 ppm
Inboard Filter	-
Output Signal	200 ± 50 nA/ppm
Resolution (Electronics dependent)	< 0.25 ppm
T90 Response Time	< 60 s
Typical Baseline Range (pure air, 20°C)	0 ppm to 10 ppm 1)
Maximum Zero Shift (+20°C to +40°C)	N.D.
Repeatability	< 2 % of signal
Output Linearity	Linear
Gain (Only applies to 4-Electrode sensors)	-

¹⁾ Fresh sensors with bias need 24 - 72 h for stabilization of the baseline.

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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)	+300 mV
Conformity to RoHS directive	RoHS Compliance

Environmental

Relative Humidity Range	15 % to 90 % RH non-condensing	
Temperature Range	-20 °C to 50 °C	
Pressure Range	Atmospheric ± 10%	
Pressure Coefficient	N.D.	
Humidity Effect	None	

Lifetime

Expected Operation Life	2 years in air
Expected Long Term Output Drift in air	< 2 % signal loss per month
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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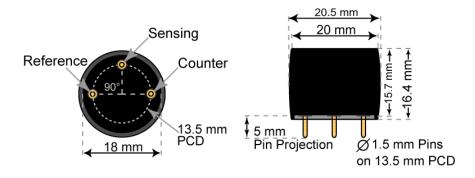






Miniature-Size Outline Dimensions

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	Concentration [ppm]	Reading [ppm]
SO ₂	20	20 ± 12

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