MEMBRAPOR Specification Sheet



Hydrogen Peroxide Gas Sensor H2O2/MB-5000

H2O2 Gas Sensor in Miniature Housing

Applications

- Discontinuous Measurement
- Sterilization Process

Measurement

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 5000 ppm
Maximum Overload	10000 ppm
Inboard Filter	-
Output Signal	25 ± 5 nA/ppm
Resolution (Electronics dependent)	< 2 ppm
T90 Response Time	< 60 s
Typical Baseline Range (pure air, 20°C)	0 ppm to 80 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.

Rev.: May-20

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Membrapor AG Birkenweg 2 CH-8304 Wallisellen Switzerland

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

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<u>Electrical</u>	
Rec. Load Resistor	10 - 33 Ω
Bias (V_Sens-V_Ref)	+300 mV
Conformity to RoHS directive	RoHS Compliance
<u>Environmental</u>	
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
<u>Lifetime</u>	
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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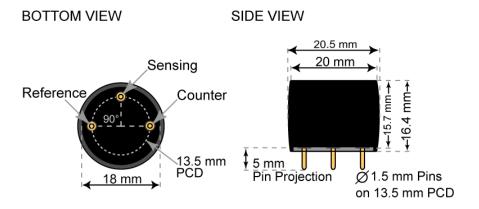
Performance data recorded at 20 – 25 °C, 30 - 50% RH, 900 - 1100 mbar





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Miniature-Size Outline Dimensions



± 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. [%]

 ${\rm SO}_2$

100

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