MEMBRAPOR

Specification Sheet

Formaldehyde Gas Sensor CH2O/M-50

CH2O Gas Sensor in Miniature Housing

Applications

- Safety and Environmental Control
- For Portable Gas Detectors

Measurement

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 50 ppm
Maximum Overload	100 ppm
Inboard Filter	-
Output Signal	1000 ± 300 nA/ppm
Resolution (Electronics dependent)	< 0.2 ppm
T60 Response Time	< 30 s
Typical Baseline Range (pure air, 20°C)	-0.3 ppm to 0.3 ppm
Maximum Zero Shift (+20°C to +40°C)	1 ppm
Repeatability	< 2 % of signal
Output Linearity	Linear
Gain (Only applies to 4-Electrode sensors)	-

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Performance data recorded at 20 – 25 °C, 30 - 50% RH, 900 - 1100 mbar
For further information about usage of Membrapor sensors, see application note MEM1. The data contained in this document is for guidance only. Membrapor AG accepts no liability for any consequential losses, injury or damage resulting from the use of this document or from any omissions or errors herein. Customers should test under their own conditions to ensure that the sensors are suitable for their own requirements.

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Electrical

Rec. Load Resistor	10 - 33 Ω
Bias (V_Sens-V_Ref)	not recommended
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	Abrupt changes in RH causes a short term transient signal

Lifetime

Expected Operation Life	3 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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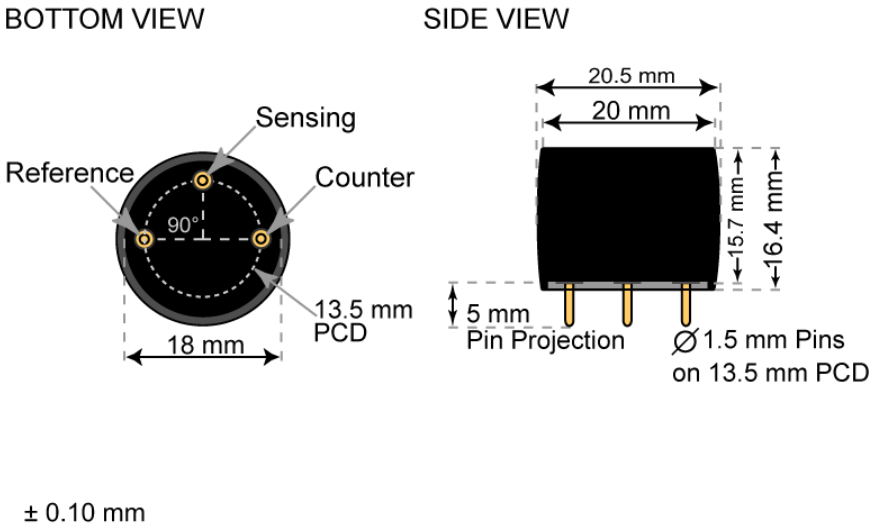
Miniature-Size Outline Dimensions



± 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]
CO	100	< 20
H_2	100	< 10

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