





C2H4O Gas Sensor in Miniature Housing

Applications

- Sterilization Processes
- Safety and Process Control
- For Portable Gas Detectors

Measurement

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 1000 ppm
Maximum Overload	2000 ppm
Inboard Filter	-
Output Signal	25 ± 6 nA/ppm
Resolution (Electronics dependent)	< 1 ppm
T90 Response Time	< 100 s
Typical Baseline Range (pure air, 20°C)	1 ppm to 70 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	-40 °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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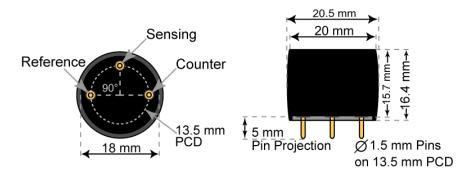






Miniature-Size Outline Dimensions

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.

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