





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 - 100 ppm
Maximum Overload	200 ppm
Inboard Filter	-
Output Signal	110 ± 30 nA/ppm
Resolution (Electronics dependent)	< 0.5 ppm
T90 Response Time	< 100 s
Typical Baseline Range (pure air, 20°C)	1 ppm to 9 ppm <sup>1)</sup>
Maximum Zero Shift (+20°C to +40°C)	N.D.
Repeatability	< 2 % of signal
Output Linearity	Linear
Gain (Only applies to 4-Electrode sensors)	-

<sup>1)</sup> 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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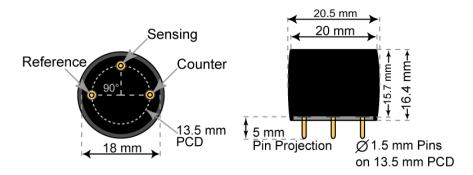






#### Miniature-Size Outline Dimensions

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.

Interfering Gas	Concentration [ppm]	Reading [ppm]
CO	100	~ 50

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