





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)	3 ppm to 50 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.

Rev.: Aug-20 Page 1 of 4

Phone: +41 43 311 72 00 Fax: +41 43 311 72 01 E-Mail: info@membrapor.ch Website: www.membrapor.ch Membrapor AG Birkenweg 2 CH-8304 Wallisellen Switzerland

#### 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

Rev.: Aug-20 Page 2 of 4

Phone: +41 43 311 72 00 Membrapor AG
Fax: +41 43 311 72 01 Birkenweg 2
E-Mail: info@membrapor.ch
Website: www.membrapor.ch
Switzerland

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

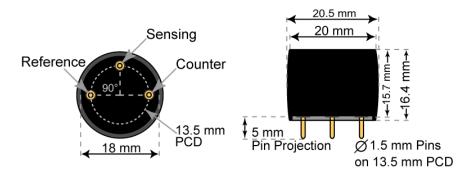






#### Miniature-Size Outline Dimensions

BOTTOM VIEW SIDE VIEW



± 0.10 mm

## **Mechanical**

Weight 5.5 g

Orientation Any

Housing material Polycarbonate

Rev.: Aug-20 Page 3 of 4

Phone: +41 43 311 72 00 Membrapor AG
Fax: +41 43 311 72 01 Birkenweg 2
E-Mail: info@membrapor.ch
Website: www.membrapor.ch
Switzerland

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







## **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. [%]

CO ~ 50

Rev.: Aug-20 Page 4 of 4

Phone: +41 43 311 72 00 Fax: +41 43 311 72 01 E-Mail: info@membrapor.ch Website: www.membrapor.ch Membrapor AG Birkenweg 2 CH-8304 Wallisellen Switzerland

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