MEMBRAPOR Specification Sheet



Ethylene Oxide Gas Sensor ETO/C-5000

C2H4O Gas Sensor in Compact Housing

Applications

Sterilization Processes

Safety and Process Control

Measurement

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 5000 ppm
Maximum Overload	10000 ppm
Inboard Filter	-
Output Signal	15 ± 8 nA/ppm
Resolution (Electronics dependent)	< 15 ppm
T90 Response Time	< 100 s
Typical Baseline Range (pure air, 20°C)	5 ppm to 200 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.: Apr-20

Phone: +41 43 311 72 00 Fax: +41 43 311 72 01 E-Mail: <u>info@membrapor.ch</u> Website: <u>www.membrapor.ch</u> Page 1 of 4

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	-40 °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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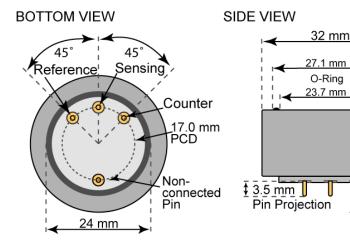
++15.4 mm→ +16.8 mm→

Ø1 mm Pins

on 17.0 mm PCD

Ethylene Oxide Gas Sensor ETO/C-5000

Compact-Size Outline Dimensions





Mechanical

Weight	13 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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