# MEMBRAPOR SPECIFICATION SHEET







## ETO/M-500

## **Ethylene Oxide Gas Sensor in Mini Housing**

#### **MEASUREMENT**

Operation Principle	3-Electrode Electrochemical	
Nominal Range	0 – 500 ppm	
Maximum Overload	1'000 ppm	
Inboard Filter	<del>-</del>	
Output Signal	50 ± 15 nA/ppm	
Resolution (Electronics dependent)	< 4 ppm	
T90 Response Time	< 140 sec	
Typical Baseline Range (pure air, 20°C)	0 ppm to 36 ppm	
Maximum Zero Shift (+20°C to +40°C)	N.D.	
Repeatability	< 2 % of signal	
Output Linearity	Linear	
Gain	_	

#### **ELECTRICAL**

Rec. Load Resistor	10 Ohm
Bias (V_Sens-V_Ref)	+300 mV
Conformity to RoHS directive	RoHS Compliance

#### **ENVIRONMENTAL**

Relative Humidity Range	15 % to 90 % R.H. non- condensing
Temperature Range	-40 °C to 50 °C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	N.D.
Humidity Effect	none

#### **LIFETIME**

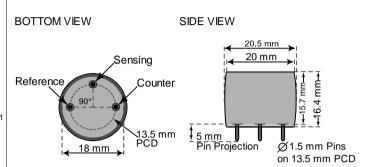
Expected Operation Life	2 years in air
Expected Long Term Output Drift in air	< 2 % per month
Filter Life	_
Storage Life	6 months in container
Otorago Eno	o months in container
Rec. Storage Temperature	5 °C – 20 °C

Performance data conditions: 20 °C, 50% RH, 1013 mbar

#### **IMPORTANT NOTE**

1) Fresh sensors with bias need 24-72 h for stabilization of the baseline

#### Miniature-Size Outline Dimensions



± 0.10 mm

#### **MECHANICAL**

Weight	5.5 g
Position Sensitivity	None

## **APPLICATIONS**

Sterilization Processes
Safety and Environmental Control

#### **CROSS-SENSITIVITY DATA**

The table below does not claim to be complete. Interfering gases should not be used for calibration.

Interfering Gas	Conc.	Reading
	ppm	ppm
CO	100	45
Ethanol	30	21
Formic Acid	42	42 ± 3
Aromatic Hydrocarbons	30	< 15

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Phone: +41 43 311 72 00

Fax: +41 43 311 72 01

Email: info@membrapor.ch

www.membrapor.ch

MEMBRAPOR AG

Birkenweg 2

CH-8304 Wallisellen

Switzerland

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