

# MEMBRAPOR SPECIFICATION SHEET

## O3/M-100

### Ozone Gas Sensor in Mini Housing



#### MEASUREMENT

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 – 100 ppm
Maximum Overload	200 ppm
Inboard Filter	–
Output Signal	-400 ± 50 nA/ppm
Resolution (Electronics dependent)	< 0.2 ppm
T90 Response Time	< 60 sec
Typical Baseline Range (pure air, 20°C)	-0.3 ppm to 0.3 ppm
Maximum Zero Shift (+20°C to +40°C)	0.4 ppm
Repeatability	< 5 % of signal
Output Linearity	Linear
Gain	–

#### ELECTRICAL

Rec. Load Resistor	10 Ohm
Bias (V_Sens-V_Ref)	not recommended
Conformity to RoHS directive	RoHS Compliance

#### ENVIRONMENTAL

Relative Humidity Range	15 % to 90 % R.H. non-condensing
Temperature Range	-20 °C to 50 °C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	N.D.
Humidity Effect	none

#### LIFETIME

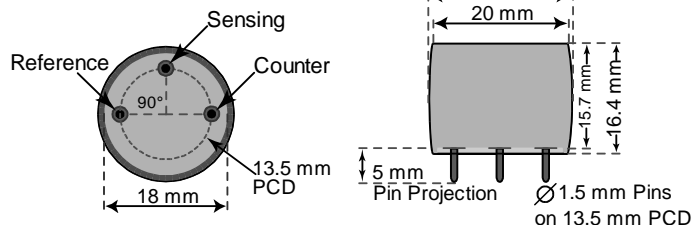
Expected Operation Life	2 years in air
Expected Long Term Output Drift in air	< 2 % per month
Filter Life	–
Storage Life	6 months in container
Rec. Storage Temperature	5 °C – 20 °C
Warranty Period	12 months from date of dispatch

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

#### Miniature-Size Outline Dimensions

BOTTOM VIEW

SIDE VIEW



± 0.10 mm

#### MECHANICAL

Weight	5.5 g
Position Sensitivity	None

#### APPLICATIONS

Disinfection Processes  
Sterilization Processes

#### CROSS-SENSITIVITY DATA

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

Interfering Gas	Conc. ppm	Reading ppm
CO	300	0
SO <sub>2</sub>	5	0
NO	35	0
H <sub>2</sub>	300	0
NO <sub>2</sub>	20	16
H <sub>2</sub> S		
C <sub>2</sub> H <sub>4</sub>	100	0
Cl <sub>2</sub>	10	7

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