

# MEMBRAPOR SPECIFICATION SHEET

## NO/C-1



### Nitric Oxide Gas Sensor in Compact Housing

#### MEASUREMENT

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 – 1 ppm
Maximum Overload	5 ppm
Inboard Filter	–
Output Signal	6000 ± 2000 nA/ppm
Resolution (Electronics dependent)	< 0.01 ppm
T90 Response Time	< 40 sec
Typical Baseline Range (pure air, 20°C)	< 0.3 ppm
Maximum Zero Shift (+20°C to +40°C)	1 ppm
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	-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	N.D.
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

#### IMPORTANT NOTE

1) Fresh sensors with bias need 24-48 h for stabilization of the baseline

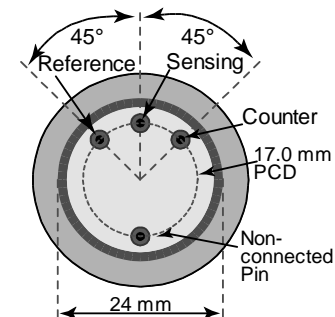
2) The sensor has no protection against condensation

#### SPECIAL FEATURE

Highly Sensitive

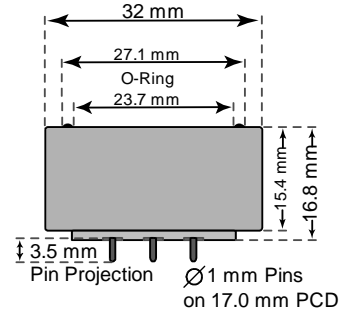
#### Compact-Size Outline Dimensions

##### BOTTOM VIEW



± 0.10 mm

##### SIDE VIEW



#### MECHANICAL

Weight	13 g
Position Sensitivity	None

#### APPLICATIONS

Air Quality Monitoring  
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. ppm	Reading ppm
CO	300	0
H <sub>2</sub> S	15	< 5
NO <sub>2</sub>	20	< 5
H <sub>2</sub>	300	0
SO <sub>2</sub>	5	0

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