# **MEMBRAPOR** Specification Sheet



## Nitric Oxide Gas Sensor NO/M-250

NO Gas Sensor in Miniature Housing

#### **Applications**

- Continuous Air Quality Monitoring
- Safety and Environmental Control
- For Portable Gas Detectors

#### **Measurement**

Operation Principle	3-Electrode Electrochemical	
Nominal Range	0 - 250 ppm	
Maximum Overload	500 ppm	
Inboard Filter	-	
Output Signal	360 ± 80 nA/ppm	
Resolution (Electronics dependent)	< 0.5 ppm	
T90 Response Time	< 10 s	
Typical Baseline Range (pure air, 20°C)	0 ppm to 4 ppm <sup>1)</sup>	
Maximum Zero Shift (+20°C to +40°C)	9.7 ppm	
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

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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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## **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

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Expected Operation Life	3 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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## Nitric Oxide Gas Sensor NO/M-250

#### **Miniature-Size Outline Dimensions**

BOTTOM VIEW SIDE VIEW 20.5 mm 20 mm Sensing +16.4 mm→ +-15.7 mm→ Reference Counter 13.5 mm U 5 mm PCD Pin Projection Ø1.5 mm Pins 18 mm on 13.5 mm PCD

± 0.10 mm

#### **Mechanical**

Weight	5.5 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.

Interfering Gas	Concentration [ppm]	Reading [ppm]
CO	300	0
H <sub>2</sub>	300	0
$H_2S$	15	< 5
NO <sub>2</sub>	20	< 5
SO <sub>2</sub>	5	~ 0

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