



## Nitric Oxide Gas Sensor NO/S-100-S

NO Gas Sensor in Slim Housing

### **Applications**

- · Continuous Air Quality Monitoring
- · Safety and Environmental Control

### Measurement

Operation Principle	3-Electrode Electrochemical	
Nominal Range	0 - 100 ppm	
Maximum Overload	200 ppm	
Inboard Filter	-	
Output Signal	550 ± 110 nA/ppm	
Resolution (Electronics dependent)	< 0.5 ppm	
T90 Response Time	< 15 s	
Typical Baseline Range (pure air, 20°C)	1 ppm to 4 ppm <sup>1)</sup>	
Maximum Zero Shift (+20°C to +40°C)	6.4 ppm	
Repeatability	< 2 % of signal	
Output Linearity	Linear	
Gain (Only applies to 4-Electrode sensors)	-	

<sup>1)</sup> Fresh sensors with bias need 24 - 72 h for stabilization of the baseline.

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#### 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**

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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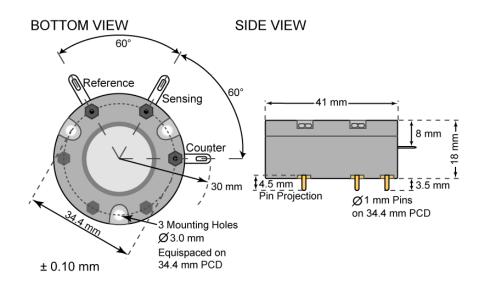
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## Nitric Oxide Gas Sensor NO/S-100-S

#### Slim-Size Outline Dimensions



### **Mechanical**

Weight 27 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
$H_2$	300	0
H₂S	15	< 5
$NO_2$	20	< 5
SO <sub>2</sub>		N.D.

### **Important Application Notes**

• To remove effect of SO2 use NO sensor with inboard filter.

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