



## Nitrogen Dioxide Gas Sensor NO2/S-1000

NO2 Gas Sensor in Standard Housing

## **Applications**

- · Stack/ Flue Gas Monitoring
- Emission Monitoring

### **Measurement**

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 1000 ppm
Maximum Overload	2000 ppm
Inboard Filter	-
Output Signal	- 170 ± 30 nA/ppm
Resolution (Electronics dependent)	< 0.5 ppm
T90 Response Time	< 60 s
Typical Baseline Range (pure air, 20°C)	-1 ppm to 3 ppm
Maximum Zero Shift (+20°C to +40°C)	0.2 ppm
Repeatability	< 2 % of signal
Output Linearity	Linear
Gain (Only applies to 4-Electrode sensors)	-

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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)	not recommended
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	2 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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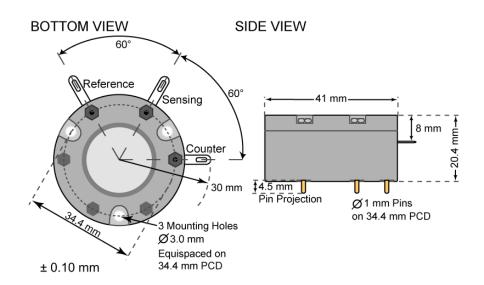
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## Nitrogen Dioxide Gas Sensor NO2/S-1000

#### Standard-Size Outline Dimensions



## **Mechanical**

Weight 32 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	Cross-Sens. [%]
$C_2H_4$	0
CH <sub>2</sub> O	0
$Cl_2$	~ 80
CO	0
Ethanol (C <sub>2</sub> H <sub>5</sub> OH)	0
H <sub>2</sub>	0
NO	0
O <sub>3</sub>	100

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