



NO2 Gas Sensor in Standard Housing

### **Applications**

• Safety and Environmental Control

### <u>Measurement</u>

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 100 ppm
Maximum Overload	600 ppm
Inboard Filter	-
Output Signal	- 370 ± 70 nA/ppm
Resolution (Electronics dependent)	< 0.2 ppm
T90 Response Time	< 60 s
Typical Baseline Range (pure air, 20°C)	-0.2 ppm to 0.5 ppm
Maximum Zero Shift (+20°C to +40°C)	0.1 ppm
Repeatability	< 2 % of signal
Output Linearity	Linear
Gain (Only applies to 4-Electrode sensors)	-

Rev.: May-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





## **Electrical**

Rec. Load Resistor	10 - 33 Ω
Bias (V_Sens-V_Ref)	not recommended
Conformity to RoHS directive	RoHS Compliance
<u>Environmental</u>	
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
<u>Lifetime</u>	
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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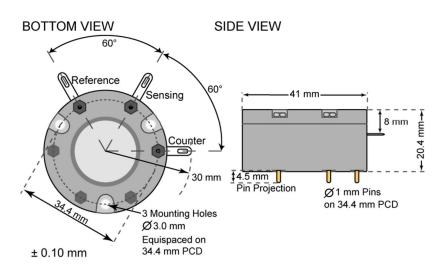
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#### **Standard-Size Outline Dimensions**



### <u>Mechanical</u>

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	Concentration [ppm]	Reading [ppm]
$C_2H_4$	100	0
CH <sub>2</sub> O	7	0
Cl <sub>2</sub>	20	15
CO	100	0
Ethanol (C₂H₅OH)	60	0
H <sub>2</sub>	100	0
$H_2S$	20	< -20
HCI	20	0
NH <sub>3</sub>	80	0
NO	50	0
O <sub>3</sub>	20	< 20
SO <sub>2</sub>	5	0

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