



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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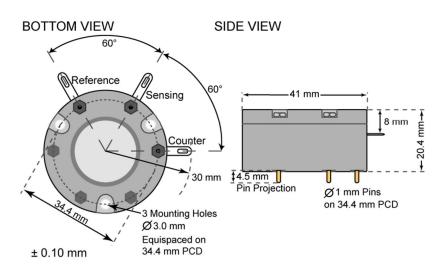
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Standard-Size Outline Dimensions



<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 ₂ O	7	0
Cl ₂	20	15
CO	100	0
Ethanol (C₂H₅OH)	60	0
H ₂	100	0
H_2S	20	< -20
HCI	20	0
NH ₃	80	0
NO	50	0
O ₃	20	< 20
SO ₂	5	0

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