





NO2 Gas Sensor in Miniature Housing

Applications

- · Emission Monitoring
- For Portable Gas Detectors

Measurement

Operation Principle	3-Electrode Electrochemical	
Nominal Range	0 - 500 ppm	
Maximum Overload	1000 ppm	
Inboard Filter	-	
Output Signal	- 100 ± 30 nA/ppm	
Resolution (Electronics dependent)	< 0.1 ppm	
T90 Response Time	< 40 s	
Typical Baseline Range (pure air, 20°C)	-0.6 ppm to 1.2 ppm	
Maximum Zero Shift (+20°C to +40°C)	0.3 ppm	
Repeatability	< 2 % of signal	
Output Linearity	Linear	
Gain (Only applies to 4-Electrode sensors)	-	

Rev.: Apr-20 Page 1 of 4

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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

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

Rev.: Apr-20 Page 2 of 4

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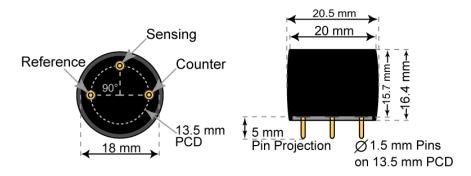






Miniature-Size Outline Dimensions

BOTTOM VIEW SIDE VIEW



± 0.10 mm

Mechanical

Weight 5.5 g

Orientation Any

Housing material Polycarbonate

Rev.: Apr-20 Page 3 of 4

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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 ₂ H ₄	100	0
Cl_2	100	~ 80
CO	300	0
Ethanol (C ₂ H ₅ OH)	60	0
H_2	300	0
NH ₃	80	0
NO	50	0
O_3	100	< 100

Rev.: Apr-20 Page 4 of 4

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