



Nitric Oxide Gas Sensor NO/S-100

NO Gas Sensor in Standard 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 ¹⁾	
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)	-	

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

Rev.: Apr-20 Page 1 of 4

Phone: +41 43 311 72 00
Fax: +41 43 311 72 01
E-Mail: info@membrapor.ch
Website: www.membrapor.ch

Membrapor AG Birkenweg 2 CH-8304 Wallisellen Switzerland

Performance data recorded at 20 - 25 °C, 30 - 50% RH, 900 - 1100 mbar





Nitric Oxide Gas Sensor NO/S-100

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

Rev.: Apr-20 Page 2 of 4

Phone: +41 43 311 72 00
Fax: +41 43 311 72 01
E-Mail: info@membrapor.ch
Website: www.membrapor.ch

Membrapor AG Birkenweg 2 CH-8304 Wallisellen Switzerland

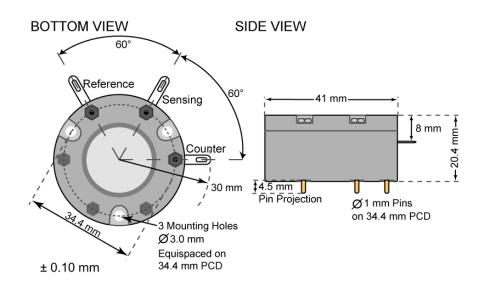
Performance data recorded at 20 - 25 °C, 30 - 50% RH, 900 - 1100 mbar





Nitric Oxide Gas Sensor NO/S-100

Standard-Size Outline Dimensions



Mechanical

Weight 32 g

Orientation Any

Housing material Polycarbonate

Rev.: Apr-20 Page 3 of 4

Phone: +41 43 311 72 00 Membrapor AG
Fax: +41 43 311 72 01 Birkenweg 2
E-Mail: info@membrapor.ch
Website: www.membrapor.ch
Switzerland

Performance data recorded at 20 - 25 °C, 30 - 50% RH, 900 - 1100 mbar





Nitric Oxide Gas Sensor NO/S-100

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
H ₂ S	15	< 5
NO_2	20	< 5
SO ₂		N.D.

Important Application Notes

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

Rev.: Apr-20 Page 4 of 4

Phone: +41 43 311 72 00 Membrapor AG
Fax: +41 43 311 72 01 Birkenweg 2
E-Mail: info@membrapor.ch
Website: www.membrapor.ch
Switzerland

Performance data recorded at 20 - 25 °C, 30 - 50% RH, 900 - 1100 mbar