



Ammonia Gas Sensor NH3/SR-200-S

NH3 Gas Sensor in Slim Housing

Applications

- Leak Detection
- Discontinuous Measurement
- Safety and Environmental Control

Measurement

Operation Principle	3-Electrode Electrochemical	
Nominal Range	0 - 100 ppm	
Maximum Overload	200 ppm	
Inboard Filter	-	
Output Signal	90 ± 18 nA/ppm	
Resolution (Electronics dependent)	< 0.6 ppm	
T90 Response Time	< 50 s	
Typical Baseline Range (pure air, 20°C)	-4 ppm to 4 ppm	
Maximum Zero Shift (+20°C to +40°C)	-8 ppm	
Repeatability	< 3% of signal	
Output Linearity	< 5 % full scale	
Gain (Only applies to 4-Electrode sensors)	-	

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





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Electrical

Rec. Load Resistor	10 - 33 Ω
Bias (V_Sens-V_Ref)	not allowed
Conformity to RoHS directive	RoHS Compliance

Environmental

Relative Humidity Range	15 % to 90 % RH non-condensing	
Temperature Range	-10 °C to 50 °C	
Pressure Range	Atmospheric ± 10%	
Pressure Coefficient	N.D.	
Humidity Effect 1)	< 4 ppm	

¹⁾ Abrupt changes in rel. Humidity causes a short-term transient signal.

<u>Lifetime</u>

Expected Operation Life	2 years in air
Expected Long Term Output Drift in air	< 5 % signal loss per 6 months
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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Switzerland

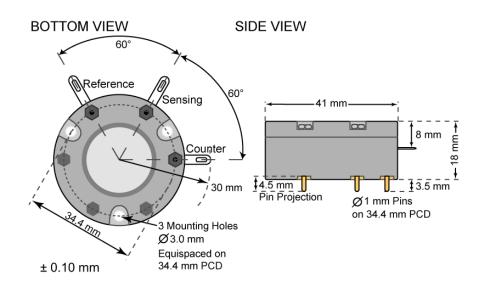
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Slim-Size Outline Dimensions



Mechanical

Weight 27 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]
Cl_2	20	-55
CO	300	0
CO ₂	20000	0
H ₂	200	0
H ₂ S	20	7
NO	20	-1
NO_2	20	-20
SO ₂	20	-7

Important Application Notes

• Long term exposures and high concentrations of SO2, H2S, NO, NO2 can affect the performance characteristics.

Rev.: Apr-20 Page 4 of 4

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