SPECIFICATION SHEET for AMMONIA SENSOR with FAST RESPONSE TYPE NH3/CR-50

PERFORMANCE CHARACTERISTICS

0 – 50 ppm	
100 ppm	
2 years in air	
155 ± 30 nA/ppm	
0.5 ppm	
- 10 °C to 40 °C	
Atmospheric 1)	
No data	
< 50 sec	
15 % to 90 % R.H.	
non-condensing	
0 ppm ± 2.5 ppm	
-5 ppm	
< 5% per 6 months	
10 Ohm	
Not allowed	
< 3 % of signal	
< 5 % full scale	
< 2.5 ppm	

¹⁾ no data for deviations

CROSS-SENSITIVITY DATA

Interfering Gas	Concentration	Reading	
СО	300 ppm	0 ppm	
H_2	200 ppm	0 ppm	
SO ₂ 3)	20 ppm	-7 ppm	
H ₂ S ³⁾	20 ppm	7 ppm	
NO 3)	20 ppm	-1 ppm	
NO ₂ 3)	20 ppm	-20 ppm	
Cl ₂	20 ppm	-55 ppm	
CO2	2 %	0 ppm	
C2H4	1000 ppm	0 ppm	

³⁾ Long term exposures and high concentrations may affect the performance characteristics

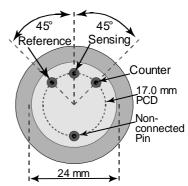
Performance data conditions: 20 °C, 50% RH and 1013 mbar

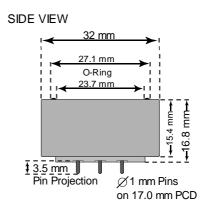
PHYSICAL CHARACTERISTICS

Weight	~ 13 g
Position Sensitivity	None
Storage Life	Six months in
	container
Recommended Storage	5 °C – 20 °C
Temperature	
Warranty Period	12 months from date
	of dispatch

Compact-Size Outline Dimensions







APPLICATIONS

Leak Detection Safety and Environmental Control

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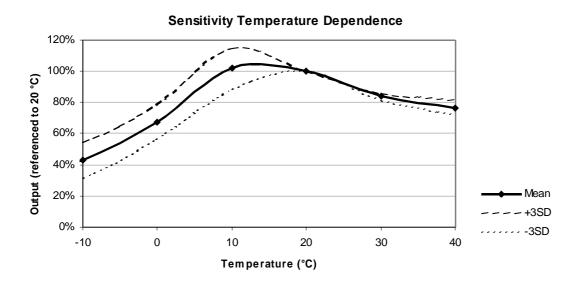
²⁾ abrupt changes in rel. humidity causes a short term transient signal

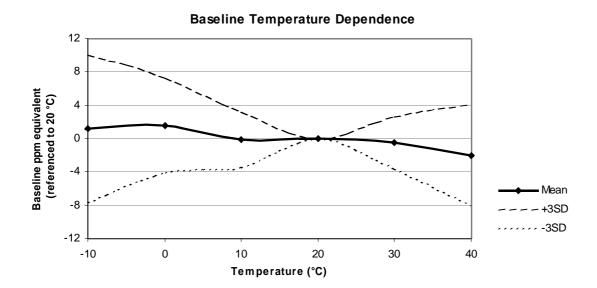


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TEMPERATURE DEPENDENCE

The output of an electrochemical sensor varies with temperature. The graphs below show the variation in output with temperature for this type of sensor. The results are shown in the graphs as a mean for a batch of sensors, along with confidence intervals corresponding to ±3 times the standard deviation. The sensitivity dependence is expressed as a percentage of the signal at 20 °C. The shift in baseline is shown in ppm referenced to 20 °C.





The data contained in this document is for guidance only. Membrapor AG accepts no liability for any consequential losses, injury or damage resulting from the use of this document or the information contained within it. The data is given for guidance only. Customers should test under their own conditions, to ensure that the sensors are suitable for their own requirements.

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