

SPECIFICATION SHEET FOR NH3 SENSOR TYPE NH3/MR-500

PERFORMANCE CHARACTERISTICS

Nominal Range	0 – 500 ppm	
Maximum Overload	ND	
Expected Operation Life	2 years in air	
Output Signal	35 ± 15 nA/ppm	
Resolution	3 ppm	
Temperature Range	- 10 ℃ to 50 ℃	
Pressure Range	Atmospheric 1)	
Pressure Coefficient	No data	
T ₉₀ Response Time	< 35 sec	
Relative Humidity Range	15 % to 90 % R.H.	
	non-condensing	
Typical Baseline Range (pure	0 ppm +/- 11 ppm	
air, 20℃)		
Maximum Zero Shift (+20℃	ND	
to +40℃)		
Expected Long Term Output	< 5 % signal loss per 6	
Drift	month	
Recommended Load Resistor	10 - 20 Ohm	
Bias Voltage	Not allowed	
Repeatability	< 3 % of signal	
Output Linearity	< 5 % full scale	
Humidity Effect	< 10 ppm	

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

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

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

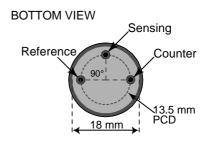
APPLICATIONS

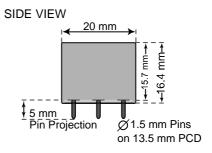
Safety and Environmental Control For Portable Gas Detectors

PHYSICAL CHARACTERISTICS

Weight	~ 5.4 g
Position Sensitivity	None
Storage Life	Six months in
	container
Recommended Storage	5 ℃ – 20 ℃
Temperature	
Warranty Period	12 months from date
	of dispatch

Miniature-Size Outline Dimensions





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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