

## SPECIFICATION SHEET FOR NH3 SENSOR TYPE NH3/MR-500

### PERFORMANCE CHARACTERISTICS

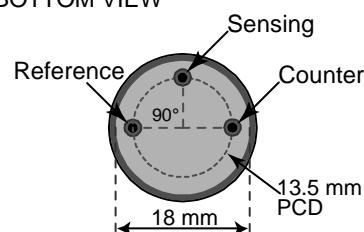
Nominal Range	0 – 500 ppm
Maximum Overload	ND
Expected Operation Life	2 years in air
Output Signal	35 ± 15 nA/ppm
Resolution	3 ppm
Temperature Range	- 10 °C to 50 °C
Pressure Range	Atmospheric <sup>1)</sup>
Pressure Coefficient	No data
T <sub>90</sub> Response Time	< 35 sec
Relative Humidity Range	15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

### PHYSICAL CHARACTERISTICS

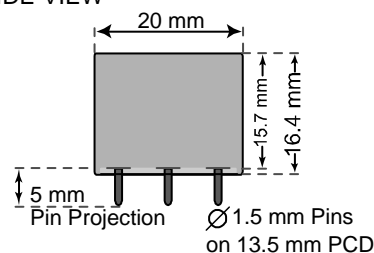
Weight	~ 5.4 g
Position Sensitivity	None
Storage Life	Six months in container
Recommended Storage Temperature	5 °C – 20 °C
Warranty Period	12 months from date of dispatch

### Miniature-Size Outline Dimensions

BOTTOM VIEW



SIDE VIEW



### CROSS-SENSITIVITY DATA

Interfering Gas	Concentration	Reading
CO	300 ppm	0 ppm
H <sub>2</sub>	200 ppm	0 ppm
SO <sub>2</sub> <sup>3)</sup>	20 ppm	-7 ppm
H <sub>2</sub> S <sup>3)</sup>	20 ppm	7 ppm
NO <sup>3)</sup>	20 ppm	-1 ppm
NO <sub>2</sub> <sup>3)</sup>	20 ppm	-20 ppm
Cl <sub>2</sub>	20 ppm	-55 ppm
CO <sub>2</sub>	2 %	0 ppm

<sup>3)</sup> Long term exposures and high concentrations may affect the performance characteristics

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

### APPLICATIONS

Safety and Environmental Control  
For Portable Gas Detectors

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