

## SPECIFICATION SHEET FOR NH<sub>3</sub> SENSOR TYPE NH<sub>3</sub>/MR-100-2E

### PERFORMANCE CHARACTERISTICS

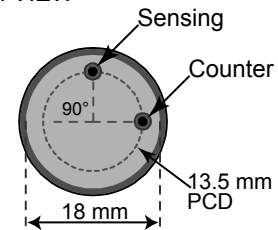
Nominal Range	0 – 100 ppm
Maximum Overload	ND
Expected Operation Life	2 years in air
Output Signal	50 ± 10 nA/ppm
Resolution	2 ppm
Temperature Range	- 10 °C to + 50 °C
Pressure Range	Atmospheric ± 10 %
Pressure Coefficient	No data
t <sub>90</sub> Response Time	< 60 sec
Relative Humidity Range	15 % to 90 % R.H. non-condensing
Typical Baseline Range (pure air, 20°C)	- 8 ppm to + 4 ppm
Maximum Zero Shift (+20°C to +40 °C)	-16 ppm equivalent
Expected Long Term Output Drift	< 2 % signal loss/month
Recommended Load Resistor	33 Ohm
Bias Voltage	Not required
Repeatability	< 3 % of signal
Output Linearity	Linear

### PHYSICAL CHARACTERISTICS

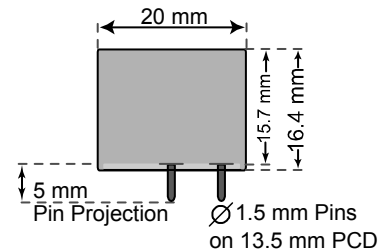
Weight	~ 5.4 g
Position Sensitivity	None
Storage Life	Six months in container
Recommended Storage Temperature	5 °C – 20 °C
Warranty Period	12 months from date of dispatch

### Miniature-Size Outline Dimensions

BOTTOM VIEW



SIDE VIEW



### CROSS-SENSITIVITY DATA

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

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

### APPLICATIONS

For Portable Gas Detectors