

## SPECIFICATION SHEET FOR NH3 SENSOR TYPE NH3/MR-2000

### PERFORMANCE CHARACTERISTICS

Nominal Range	0 – 2000 ppm
Maximum Overload	ND
Expected Operation Life	2 years in air
Output Signal	12 ± 4 nA/ppm
Resolution	4 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 +/- 25 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	< 35 ppm

### 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

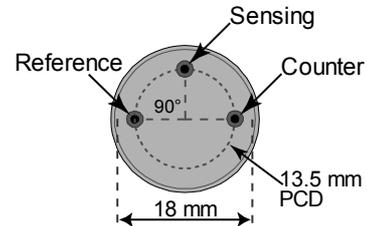
Safety and Environmental Control  
For Portable Gas Detectors

### PHYSICAL CHARACTERISTICS

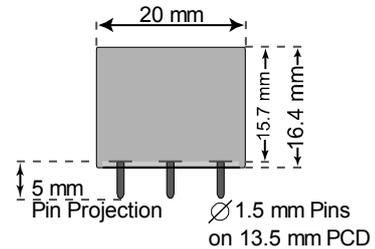
Weight	~ 5.4 g
Position Sensitivity	None
Storage Life	Six months in container
Recommended Storage Temperature	5 °C – 20 °C
Warranty Period	12 months from date of dispatch

### Miniature-Size Outline Dimensions

#### BOTTOM VIEW



#### SIDE VIEW



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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Page 1 of 1

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