

# MEMBRAPOR ELECTROCHEMICAL GAS SENSORS

## SPECIFICATION SHEET FOR HYDROGEN CYANIDE -SENSOR TYPE HCN/M-50

### PERFORMANCE CHARACTERISTICS

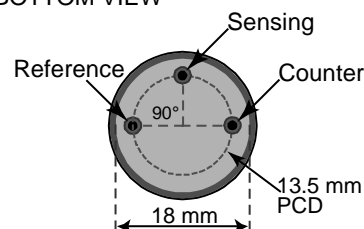
Nominal Range	0 – 50 ppm
Maximum Overload	n.d.
Expected Operation Life	2 years in air
Output Signal	200 ± 50 nA/ppm
Resolution	0.5 ppm
Temperature Range	- 20 °C to + 50 °C
Pressure Range	Atmospheric ± 10 %
Pressure Coefficient	No data
T <sub>90</sub> Response Time	< 30 sec
Relative Humidity Range	15 % to 90 % R.H. non-condensing
Typical Baseline Range (pure air, 20°C)	-0.5 ppm to +2 ppm
Maximum Zero Shift	n.d.
Long Term Output Drift	n.d.
Recommended Load Resistor	10 Ohm
Bias Voltage	Not recommended
Repeatability	< 2 % of signal
Output Linearity	Linear

### PHYSICAL CHARACTERISTICS

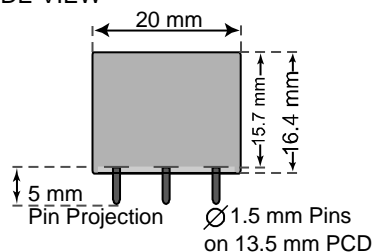
Weight	~ 5.4 g
Position Sensitivity	None
Storage Life	Six months in container
Recommended Storage Temperature	5 °C – 20 °C
Warranty Period	12 months from date of dispatch

### Miniature-Size Outline Dimensions

#### BOTTOM VIEW



#### SIDE VIEW



### CROSS-SENSITIVITY DATA

Interfering Gas	Concentration	Reading
CO	100 ppm	~ 2 ppm
H <sub>2</sub> S	15 ppm	~ 25 ppm
SO <sub>2</sub>	20 ppm	~38 ppm
NO	35 ppm	0 ppm
NO <sub>2</sub>	5 ppm	~ -12 ppm
H <sub>2</sub>	100 ppm	~ 2 ppm
Ethylene	100 ppm	0 ppm

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

### APPLICATIONS

Safety and Environmental Control  
For Portable Gas Detectors

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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