

ELECTROCHEMICAL GAS SENSORS

SPECIFICATION SHEET FOR HCI SENSOR TYPE HCI/M-200

PERFORMANCE CHARACTERISTICS

Nominal Range	0 – 200 ppm
Maximum Overload	400 ppm
Expected Operation Life	2 years in air
Output Signal	80 ± 30 nA/ppm
Resolution	1.5 ppm
Temperature Range	- 20 °C to 45 °C
Pressure Range	Atmospheric
Pressure Coefficient	No data
T ₉₀ Response Time	< 60 sec
Relative Humidity Range	15 % to 90 % R.H. non-condensing ¹⁾
Typical Baseline Range (pure air, 20°C)	-5 to +5 ppm
Maximum Zero Shift (+20°C to +40°C)	ND
Expected Long Term Output Drift	< 2 % signal loss/month
Recommended Load Resistor	10 - 20 Ohm
Bias Voltage	Not allowed
Repeatability	< 2 % of signal
Output Linearity	Linear

¹⁾ Abrupt changes in rel. humidity causes a short term transient signal

CROSS-SENSITIVITY DATA

Interfering Gas	Concentration	Reading
CO	1000 ppm	0 ppm
H ₂	1%	0 ppm
Isopropanol	vapor	0 ppm
Ethylene	100 ppm	0 ppm
SO ₂	100 ppm	0 ppm
H ₂ S	20 ppm	31 ppm
NO	25 ppm	0 ppm
NO ₂	20 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.

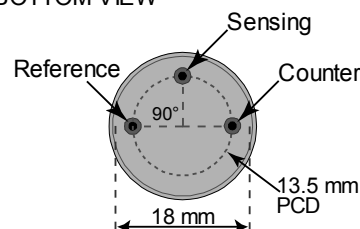
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PHYSICAL CHARACTERISTICS

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

