SPECIFICATION SHEET FOR NO₂ SENSOR TYPE NO2/M-500

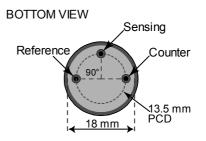
PERFORMANCE CHARACTERISTICS

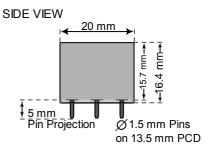
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Nominal Range	0 – 500 ppm	
Maximum Overload	1000 ppm	
Expected Operation Life	2 years in air	
Output Signal	-100 \pm 30 nA/ppm	
Resolution	0.5 ppm	
Temperature Range	- 40 °C to + 50 °C	
Pressure Range	Atmospheric ± 10 %	
Pressure Coefficient	No data	
t ₉₀ Response Time	< 40 sec	
Relative Humidity Range	15 % to 90 % R.H.	
	non-condensing	
Typical Baseline Range (pure air, 20°C)	- 0.6 ppm to + 1.2 ppm	
Maximum Zero Shift (+20°C to +40 °C)	1.5 ppm equivalent	
Expected Long Term Output	< 2 % signal	
Drift	loss/month	
Recommended Load Resistor	33 Ohm	
Bias Voltage	Not required	
Repeatability	< 2 % of signal	
Output Linearity	Linear	

PHYSICAL CHARACTERISTICS

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

Miniature-Size Outline Dimensions





CROSS-SENSITIVITY DATA

Interfering Gas	Concentration	Reading
СО	300 ppm	0 ppm
SO ₂	5 ppm	0 ppm
Cl ₂	1 ppm	~ 1 ppm

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

APPLICATIONS

For Portable Gas Detectors

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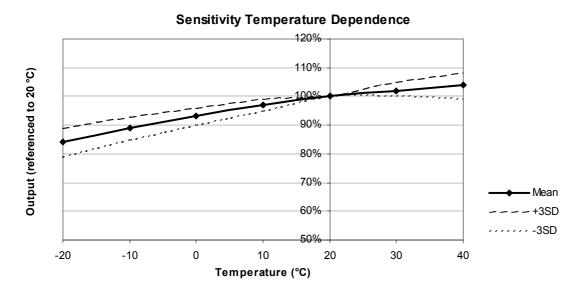
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TEMPERATURE DEPENDENCE

The output of an electrochemical sensor varies with temperature. The graphs below show the variation in output with temperature for this type of sensor. The results are shown in the graphs as a mean for two batches of sensors, along with confidence intervals corresponding to ± 3 times the standard deviation. The sensitivity dependence is expressed as a percentage of the signal at 20 °C.



The baseline is virtually not affected by changes in temperature.

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.

REV.: 01/2016

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