# SPECIFICATION SHEET FOR CO SENSOR TYPE CO/MF-500

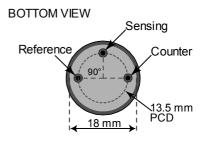
### PERFORMANCE CHARACTERISTICS

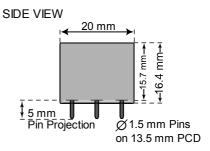
Nominal Range	0 – 500 ppm
Maximum Overload	2000 ppm
Expected Operation Life	2 years in air
Output Signal	70 ± 20 nA/ppm
Inboard Filter	To remove H2S and SO2
Resolution	1 ppm
Temperature Range	- 20 °C to + 50 °C
Pressure Range	Atmospheric ± 10 %
Pressure Coefficient	No data
t90 Response Time	< 25 sec
Relative Humidity Range	15 % to 90 % R.H.
	non-condensing
Typical Baseline Range (pure air, 20°C)	- 3 ppm to +2 ppm
Maximum Zero Shift (+20°C to +40 °C)	-8 ppm equivalent
Expected Long Term Output	< 2 % signal
Drift	loss/month
Recommended Load Resistor	10 Ohm
Bias Voltage	Not required
Repeatability	< 2 % of signal
Output Linearity	< 5 % full scale

### 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	Cross-Sensitivity (%)
H₂S	0
SO <sub>2</sub>	0
NO	ND
NO <sub>2</sub>	ND
H <sub>2</sub>	< 60

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

### APPLICATIONS

Safety and Environmental Control For Portable Gas Detectors

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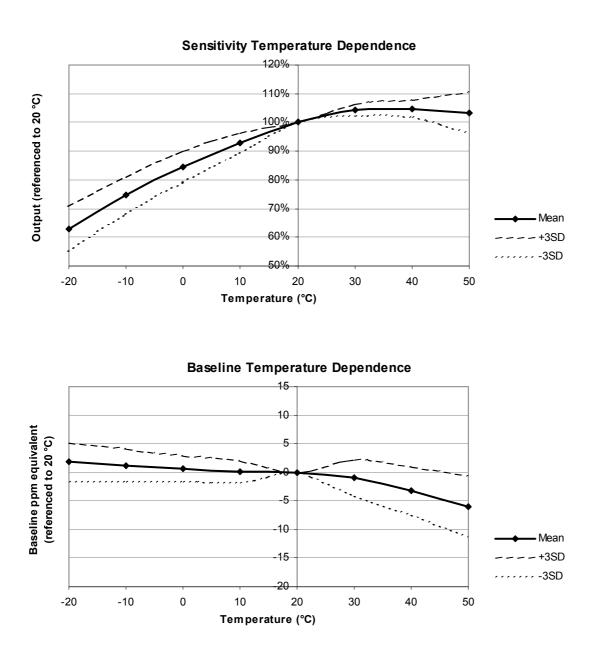
Phone: +41 43 311 72 00 Fax : +41 43 311 72 01 Email: info@membrapor.ch www.membrapor.ch Page 1 of 2

MEMBRAPOR AG Birkenweg 2 CH-8304 Wallisellen Switzerland

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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 a batch of sensors, along with confidence intervals corresponding to  $\pm 3$  times the standard deviation. The sensitivity dependence is expressed as a percentage of the signal at 20 °C. The shift in baseline is shown in ppm referenced to 20 °C.



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Phone: +41 43 311 72 00 Fax : +41 43 311 72 01 Email: info@membrapor.ch www.membrapor.ch MEMBRAPOR AG Birkenweg 2 CH-8304 Wallisellen Switzerland