SPECIFICATION SHEET FOR CO SENSOR TYPE CO/CFA-500

PERFORMANCE CHARACTERISTICS

Nominal Range0 – 500 ppmMaximum Overload1'000 ppmInboard FilterTo remove acid gasesExpected Operation Life3 years in airOutput Signal160 ± 30 nA/ppmResolution0.3 ppmTemperature Range- 40 °C to 50 °CPressure RangeAtmospheric ± 10%Pressure CoefficientNo dataT ₉₀ Response Time< 40 secRelative Humidity Range15 % to 90 % R.H.non-condensing-2 to +1 ppmair, 20°C)7 ppmMaximum Zero Shift (+20°C to +40°C)7 ppm	Nominal Pango	0 – 500 ppm
Inboard FilterTo remove acid gasesExpected Operation Life3 years in airOutput Signal $160 \pm 30 \text{ nA/ppm}$ Resolution 0.3 ppm Temperature Range $-40 ^{\circ}\text{C}$ to $50 ^{\circ}\text{C}$ Pressure RangeAtmospheric $\pm 10\%$ Pressure CoefficientNo dataT ₉₀ Response Time< 40 sec	Nominal Range	· ·
Expected Operation Life3 years in airOutput Signal $160 \pm 30 \text{ nA/ppm}$ Resolution 0.3 ppm Temperature Range $-40 \degree \text{C}$ to $50 \degree \text{C}$ Pressure RangeAtmospheric $\pm 10\%$ Pressure CoefficientNo dataT ₉₀ Response Time< 40 sec	Maximum Overload	••
Output Signal $160 \pm 30 \text{ nA/ppm}$ Resolution 0.3 ppm Temperature Range $-40 \degree \text{C}$ to $50 \degree \text{C}$ Pressure RangeAtmospheric $\pm 10\%$ Pressure CoefficientNo dataT ₉₀ Response Time $< 40 \sec$ Relative Humidity Range 15% to 90% R.H.non-condensingTypical Baseline Range (pure air, $20\degree \text{C}$) -2 to +1 ppm Maximum Zero Shift (+20°C to $+40\degree \text{C}$)7 ppm	Inboard Filter	To remove acid gases
Resolution 0.3 ppm Temperature Range $-40 \degree \text{C}$ to $50 \degree \text{C}$ Pressure RangeAtmospheric $\pm 10\%$ Pressure CoefficientNo dataT ₉₀ Response Time $< 40 \sec$ Relative Humidity Range 15% to 90% R.H.non-condensingTypical Baseline Range (pure air, $20\degree \text{C}$)Maximum Zero Shift (+20°C to + $40\degree \text{C}$)7 ppm	Expected Operation Life	3 years in air
Temperature Range - 40 °C to 50 °C Pressure Range Atmospheric ± 10% Pressure Coefficient No data T ₉₀ Response Time < 40 sec	Output Signal	160 ± 30 nA/ppm
Pressure Range Atmospheric ± 10% Pressure Coefficient No data T ₉₀ Response Time < 40 sec	Resolution	0.3 ppm
Pressure Coefficient No data T ₉₀ Response Time < 40 sec	Temperature Range	- 40 °C to 50 °C
T90 Response Time< 40 secRelative Humidity Range15 % to 90 % R.H. non-condensingTypical Baseline Range (pure air, 20°C)-2 to +1 ppmMaximum Zero Shift (+20°C to +40°C)7 ppm	Pressure Range	Atmospheric \pm 10%
Relative Humidity Range15 % to 90 % R.H. non-condensingTypical Baseline Range (pure air, 20°C)-2 to +1 ppmMaximum Zero Shift (+20°C to +40°C)7 ppm	Pressure Coefficient	No data
non-condensingTypical Baseline Range (pure air, 20°C)-2 to +1 ppmMaximum Zero Shift (+20°C to +40°C)7 ppm	T ₉₀ Response Time	< 40 sec
Typical Baseline Range (pure air, 20°C)-2 to +1 ppmMaximum Zero Shift (+20°C to +40°C)7 ppm	Relative Humidity Range	15 % to 90 % R.H.
air, 20°C) Maximum Zero Shift (+20°C to 7 ppm +40°C)		non-condensing
Maximum Zero Shift (+20°C to 7 ppm +40°C)	Typical Baseline Range (pure	-2 to +1 ppm
+40°C)	air, 20°C)	
	Maximum Zero Shift (+20°C to	7 ppm
Expected Long Term Output < 2% signal loss/month	+40°C)	
	Expected Long Term Output	< 2% signal loss/month
Drift	Drift	_
Recommended Load Resistor 10 Ohm	Recommended Load Resistor	10 Ohm
Bias Voltage Not recommended	Bias Voltage	Not recommended
Repeatability < 2 % of signal	Repeatability	< 2 % of signal
Output Linearity Linear	Output Linearity	Linear

CROSS-SENSITIVITY DATA

Interfering Gas	Cross-Sensitivity (%)
H₂S	0
SO ₂	0
NO	0
NO ₂	0
H ₂	< 15

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

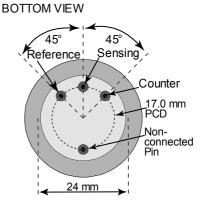
APPLICATIONS

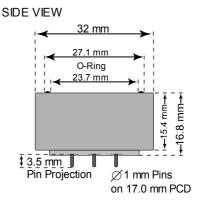
CO Detection in CO/H2-Mixtures

PHYSICAL CHARACTERISTICS

Weight	~ 13 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

Compact-Size Outline Dimensions





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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 1

MEMBRAPOR AG Birkenweg 2 CH-8304 Wallisellen Switzerland