SPECIFICATION SHEET FOR CO SENSOR TYPE CO/CFA-5000

PERFORMANCE CHARACTERISTICS

Nominal Range $0-5'000 \text{ ppm}$ Maximum OverloadNdInboard FilterTo remove acid gasesExpected Operation Life3 years in airOutput Signal $30 \pm 5 \text{ nA/ppm}$ Resolution $2,5 \text{ ppm}$ Temperature Range $-20 \ C$ to $40 \ C$ Pressure RangeAtmospheric $\pm 10\%$ Pressure CoefficientNo dataT $_{90}$ Response Time $<40 \text{ sec}$ Relative Humidity Range $15 \% \text{ to } 90 \% \text{ R.H.}$ non-condensingTypical Baseline Range (pure air, $20 \ C$)Maximum Zero Shift (+20 \ C to + $40 \ C$) 50 ppm Expected Long Term Output Drift $<2\% \text{ signal loss/month}$ Recommended Load Resistor10 OhmBias VoltageNot recommended		
Inboard FilterTo remove acid gasesExpected Operation Life3 years in airOutput Signal $30 \pm 5 \text{ nA/ppm}$ Resolution $2,5 \text{ ppm}$ Temperature Range $- 20 \ \ C$ to $40 \ \ C$ Pressure RangeAtmospheric $\pm 10\%$ Pressure CoefficientNo dataT $_{90}$ Response Time $< 40 \ \text{sec}$ Relative Humidity Range $15 \ \% \text{ to } 90 \ \% \text{ R.H.}$ non-condensingTypical Baseline Range (pure air, $20\ \ C$) $-5 \ \text{to } +15 \ \text{ppm}$ Maximum Zero Shift (+20\ \ C \ to +40\ \ C) $50 \ \text{ppm}$ Expected Long Term Output Drift $< 2\% \ \text{signal loss/month}$		•••
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Output Signal $30 \pm 5 \text{ nA/ppm}$ Resolution2,5 ppmTemperature Range- 20 °C to 40 °CPressure RangeAtmospheric ± 10%Pressure CoefficientNo dataT ₉₀ Response Time< 40 sec	Inboard Filter	To remove acid gases
Resolution2,5 ppmTemperature Range- 20 °C to 40 °CPressure RangeAtmospheric \pm 10%Pressure CoefficientNo dataT_{90} Response Time< 40 sec	Expected Operation Life	3 years in air
Temperature Range- 20 °C to 40 °CPressure RangeAtmospheric \pm 10%Pressure CoefficientNo dataT_{90} Response Time< 40 sec	Output Signal	30 ± 5 nA/ppm
Pressure RangeAtmospheric \pm 10%Pressure CoefficientNo data T_{90} Response Time< 40 sec	Resolution	2,5 ppm
Pressure CoefficientNo data T_{90} Response Time< 40 sec	Temperature Range	- 20 ℃ to 40 ℃
$\begin{array}{lll} \hline T_{90} \mbox{ Response Time} & < 40 \mbox{ sec} \\ \hline \mbox{Relative Humidity Range} & 15 \% \mbox{ to } 90 \% \mbox{ R.H.} \\ & non-condensing \\ \hline \mbox{Typical Baseline Range (pure air, 20°C)} & -5 \mbox{ to } +15 \mbox{ ppm} \\ \hline \mbox{Maximum Zero Shift (+20°C to} & 50 \mbox{ ppm} \\ \hline \mbox{+40°C)} & \hline \\ \hline \mbox{Expected Long Term Output} \\ \hline \mbox{Drift} & \hline \\ \hline \mbox{Recommended Load Resistor} & 10 \mbox{Ohm} \end{array}$	Pressure Range	Atmospheric ± 10%
Relative Humidity Range15 % to 90 % R.H. non-condensingTypical Baseline Range (pure air, 20°C)-5 to +15 ppmMaximum Zero Shift (+20°C to +40°C)50 ppmExpected Long Term Output Drift< 2% signal loss/month	Pressure Coefficient	No data
non-condensingTypical Baseline Range (pure air, 20°C)-5 to +15 ppmMaximum Zero Shift (+20°C to +40°C)50 ppmExpected Long Term Output Drift< 2% signal loss/month	T ₉₀ Response Time	< 40 sec
Typical Baseline Range (pure air, 20°C)-5 to +15 ppmMaximum Zero Shift (+20°C to +40°C)50 ppmExpected Long Term Output Drift< 2% signal loss/month	Relative Humidity Range	15 % to 90 % R.H.
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Maximum Zero Shift (+20°C to +40°C)50 ppmExpected Long Term Output Drift< 2% signal loss/month	Typical Baseline Range (pure	-5 to +15 ppm
+40°C)Expected Long Term Output Drift< 2% signal loss/month	air, 20℃)	
Expected Long Term Output Drift< 2% signal loss/monthRecommended Load Resistor10 Ohm	Maximum Zero Shift (+20℃ to	50 ppm
Drift Recommended Load Resistor 10 Ohm	+40℃)	
Recommended Load Resistor 10 Ohm	Expected Long Term Output	< 2% signal loss/month
	Drift	-
Bias Voltage Not recommended	Recommended Load Resistor	10 Ohm
	Bias Voltage	Not recommended
Repeatability < 2 % of signal		< 2 % of signal
Output Linear Linear	Output Linearity	Linear

CROSS-SENSITIVITY DATA

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

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

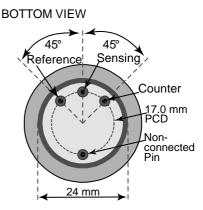
APPLICATIONS

CO Detection in CO/H₂-Mixtures Medical Applications

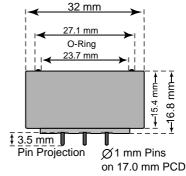
PHYSICAL CHARACTERISTICS

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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