CO-AM Carbon Monoxide Sensor

Worker

-Counter



PATENTED

Ø20.2 including label

CARBON MOM

CO-AF 12345

16.5

Figure 1 CO-AM Schematic Diagram Ø10 13.5 PCD-Specification Reference Sensing area Το PERFORMA LIFETIME ENVIRONM **CROSS SENSITIVIT** echnica KEY SPECIFICA^T At th

Ø16	Sensing area Do not obscure			0.7 recess
All dime		Bottom View	Side View	Т
ANCE	Sensitivity Response time Zero current Resolution Range Linearity Overgas limit	nA/ppm in 400ppm CO t_{90} (s) from zero to 400ppm CO ppm equivalent in zero air RMS noise (ppm equivalent) ppm CO limit of performance warranty ppm error at full scale, linear at zero, 1000ppm CO maximum ppm for stable response to gas pulse		55 to 90 < 25 -4 to +2 < 0.5 5,000 +15 to +25 10,000
	Zero drift Sensitivity drift Operating life	ppm equivalent change/year in lab air % change/year in lab air, monthly test months until 80% original signal (24 month warranted)		< 0.2 < 8 > 24
IENTAI	ITAL Sensitivity @ -20°C % (output @ -20°C/output @ 20°C) @ 400ppm COSensitivity @ 50°C% (output @ 50°C/output @ 20°C) @ 400ppm COZero @ -20°Cppm equivalent change from 20°CZero @ 50°Cppm equivalent change from 20°C		63 to 88 102 to 115 < ± 3 < ± 8	
ТҮ	$\begin{array}{llllllllllllllllllllllllllllllllllll$	ppm-hours ppm-hours ppm-hours ppm-hours % measured gas @ 20ppm % measured gas @ 10ppm % measured gas @ 10ppm % measured gas @ 50ppm % measured gas @ 20ppm % measured gas @ 400ppm % measured gas @ 20ppm		250,000 600,000 20,000 300,000 < 0.1 < 0.1 < 0.1 < 5 < 0.1 < 60 < 25 < 0.1
	Temperature range Pressure range Humidity range Storage period Load resistor Weight the product's life, do not dis	°C kPa % rh continuous months @ 3 to 20°C (stored Ω (recommended) g		-30 to 50 80 to 120 15 to 90 6 10 to 47 < 6 e, but contact the

At the end of the product's life, do not dispose of any electronic sensor, component or instrument in the domestic wast instrument manufacturer, Alphasense or its distributor for disposal instructions.

CO-AM Performance Data

Figure 2 Sensitivity Temperature Dependence

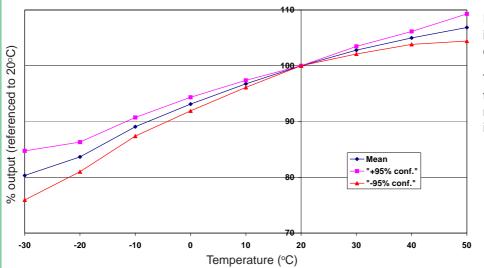


Figure 2 shows the variation in sensitivity caused by changes in temperature.

This data is taken from a typical batch of sensors. The mean and $\pm 95\%$ confidence intervals are shown.

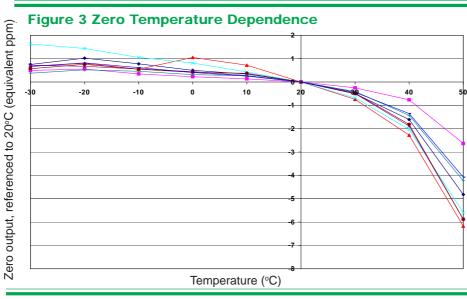


Figure 3 shows the variation in zero output caused by changes in temperature, expressed as ppm gas equivalent, referenced to zero at 20°C.

This data is taken from a typical batch of sensors.

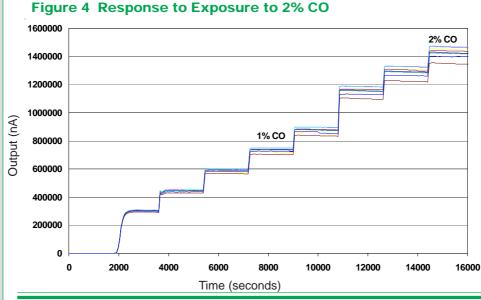


Figure 4 shows the excellent response to step changes in CO concentrations from zero to 2% CO by volume.

This data is taken from a typical batch of sensors.