

Ø2.8

Side View

CO-BM Carbon Monoxide Sensor



Specification

Figure 1 CO-BM Schematic Diagram **PATENTED** Ø27.1 -Worker Ø32.3 including label Reference CARBON MONOXIDE CO-BF 12345678 999 17.0 PCD Sensing area Do not obscure -location pin Ø19 All dimensions in millimetres (± 0.1mm)

Bottom View

	VIEW	Bottom view	Side view	
PERFORMANCE	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 limit of performance warranty ppm CO error at full scale, linear at zero, 1000ppm CO maximum ppm for stable response to gas pulse		80 to 130 < 25 < ± 4 < 0.5 5,000 < ± 30 10,000
LIFETIME	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)		< 0.1 < 3 > 24
ENVIRONMENTA		% (output @ -20°C/output @ % (output @ 50°C/output @ 2 ppm equivalent change from 2 ppm equivalent change from 2	70 to 88 102 to 115 < -1 to +4 < ± 6	
CROSS SENSITIVITY	Filter capacity Filter capacity Filter capacity Filter capacity Filter capacity H ₂ S sensitivity NO ₂ sensitivity NO sensitivity NO sensitivity SO ₂ sensitivity H ₂ sensitivity C ₂ H ₄ sensitivity NH ₃ sensitivity	ppm·hrs ppm·hrs ppm·hrs ppm·hrs ppm·hrs % measured gas @ 20ppm % measured gas @ 10ppm % measured gas @ 50ppm % measured gas @ 20ppm % measured gas @ 20ppm % measured gas @ 400ppm % measured gas @ 400ppm % measured gas @ 400ppm % measured gas @ 20ppm	$\begin{array}{l} {\rm H_2S} \\ {\rm NO_2} \\ {\rm NO} \\ {\rm SO_2} \\ {\rm H_2S} \\ {\rm NO_2} \\ {\rm CI_2} \\ {\rm NO} \\ {\rm SO_2} \\ {\rm H_2at20^\circ C} \\ {\rm C_2H_4} \\ {\rm NH_3} \end{array}$	250,000 120,000 120,000 160,000 < 0.1 < 0.1 < 0.1 < 25 < 0.1 < 65 < 65 < 0.1
KEY SPECIFICATIONS At the end of	Humidity range Storage period Load resistor Weight	°C kPa % rh continuous months @ 3 to 20°C (stored in Ω (recommended) g pose of any electronic sensor, component		-30 to 50 80 to 120 15 to 90 6 10 to 47 < 13

contact the instrument manufacturer. Alphasense or its distributor for disposal instructions.

NOTE: all sensors are tested at ambient environmental conditions, with 10 ohm load resistor, unless otherwise stated. As applications of use are outside our control, the information provided is given without legal responsibility. Customers should test under their own conditions, to ensure that the sensors are suitable for their own requirements

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Top View

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CO-BM Performance Data

Figure 2 Sensitivity Temperature Dependence

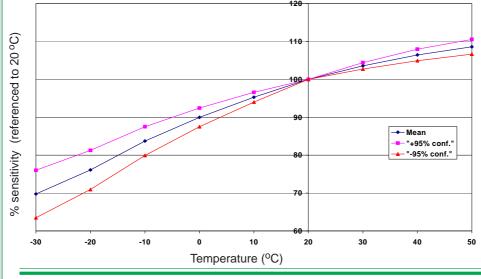
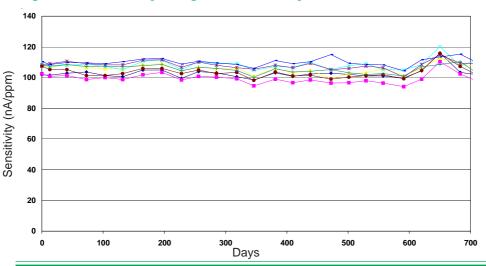


Figure 2 shows the variation in sensitivity caused by changes in temperature.

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

Figure 3 Sensitivity Long Term Stability



When sensors are tested monthly, their very good stability shows that they can be used in fixed sites, where maintenance and recalibration costs are important.

Figure 4 Response to 1% CO

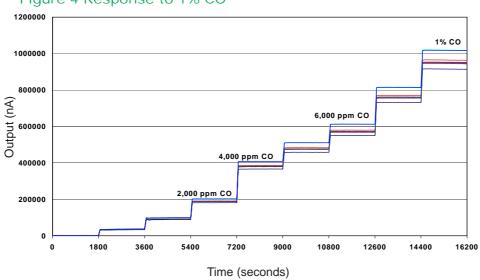


Figure 4 shows the response to step changes in CO concentrations from zero to 1% by volume.

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