

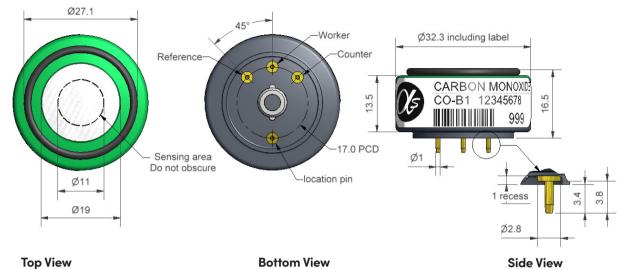


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> α lphasense **METEK**®

Technical specifications Version 1.0





Side View

Dimensions are in millimetres (± 0.1 mm).

Performance	Sensitivity	nA/ppm in 400ppm CO	80 to 130
	Response time	t90 (s) from zero to 400ppm CO	< 25
	Zero current	ppm equivalent in zero air	< ± 4
	Resolution	RMS noise (ppm equivalent)	< 0.5
	Range	ppm limit of performance warranty	5,000
	Linearity	ppm CO error at full scale, linear at zero, 1000ppm	CO < ± 30
	Overgas limit	maximum ppm for stable response to gas pulse	10,000
Lifetime	Zero drift	ppm equivalent change/year in lab air	< 0.1
	Sensitivity drift	% change/year in lab air, monthly test	< 3
	Operating life	months until 80% original signal (24-month warran	ted) > 24
Environmental	Sensitivity @ -20°C	% (output @ -20°C/output @ 20°C) @ 400ppm CO	70 to 88
	Sensitivity @ 50°C	% (output @ 50°C/output @ 20°C) @ 400ppm CO	102 to 115
	Zero @ -20°C	ppm equivalent change from 20°C	< ± 1
	Zero @ 50°C	ppm equivalent change from 20°C	< ± 6
Cross Sensitivity	$\begin{array}{lll} H_2S & sensitivity \\ NO_2 & sensitivity \\ CI_2 & sensitivity \\ NO & sensitivity \\ SO_2 & sensitivity \\ H_2 & sensitivity \\ C_2H_4 & sensitivity \\ NH_3 & sensitivity \end{array}$	% measured gas @ 20ppmH2S% measured gas @ 10ppmNO2% measured gas @ 10ppmCl2% measured gas @ 50ppmNO% measured gas @ 20ppmSO2% measured gas @ 400ppmH2 at 20°C% measured gas @ 400ppmC2H4% measured gas @ 20ppmNH3	< 200 < 50 < -1 < 80 < 50 < 65 < 65 < 0.1
Key Specifications	Temperature range	°C	-30 to 50
	Pressure range	kPa	80 to 120
	Humidity range	% rh continuous	15 to 90
	Storage period	months @ 3 to 20°C (stored in sealed pot)	6
	Load resistor	Ω (recommended)	10 to 47
	Weight	g	< 13





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Figure 1 Sensitivity Temperature Dependence

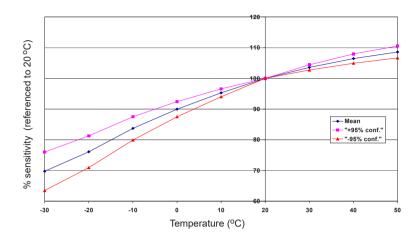


Figure 1 shows the variation in sensitivity caused by changes in temperature.

This data is taken from a typical batch of sensors.

Figure 2 Zero Temperature Dependence

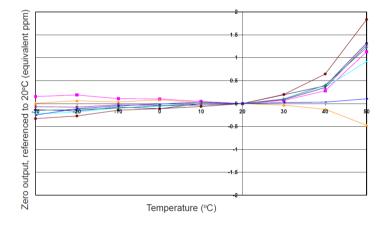
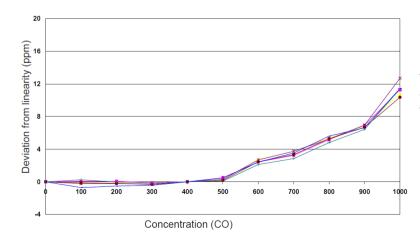


Figure 2 shows the variation in zero output caused by changes in temperature, expressed as ppm gas equivalent, referenced to zero at 20°C.

This data is taken from a typical batch of sensors.





When calibrated at 0 and 400ppm, the sensor shows good linearity with typically 1% non-linearity at 1,000ppm.

At the end of the product's life, do not dispose of any electronic sensor, component or instrument in the domestic waste, but contact the instrument manufacturer, Alphasense or its distributor for disposal instructions. NOTE: all sensors are tested at ambient environmental conditions 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.

In the interest of continued product improvement, we reserve the right to change design features and specifications without prior notification. The data contained in this document is for guidance only. Alphasense Ltd accepts no liability for any consequential losses, injury or damage resulting from the use of this document or the information contained within. (©ALPHASENSE LTD) Doc. Ref. CO-B1/JAN23

For further information on the performance of this sensor, on other sensors in the range or any other subject, please contact Alphasense Ltd. or visit our website at "www.alphasense.com".