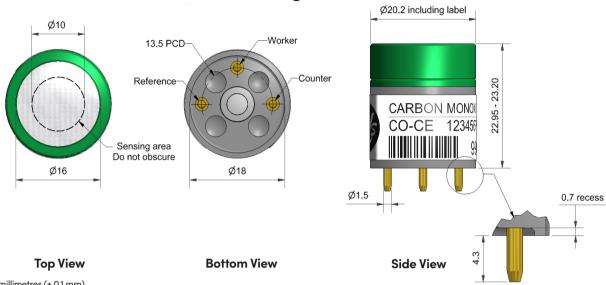
CO-CE Carbon Monoxide Sensor – High Concentration



Dimensions are in millimetres (± 0.1 mm).

Performance	Sensitivity Response time Zero current Resolution Range Linearity Overgas limit	nA/ppm in 2,000ppm CO t90 (s) from zero to 2,000ppm CO ppm equivalent in zero air RMS noise (ppm equivalent) ppm CO limit of performance warranty ppm error at full scale, linear at zero and 2,000ppm CO maximum ppm for stable response to gas pulse		10 to 25 < 75 < ± 20 < 5 10,000 < 500 100,000
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)		<1 <4 >24
Environmental	Sensitivity @ -20°C Sensitivity @ 50°C Zero @ -20°C Zero @ 50°C	% (output @ -20°C/output @ 20°C) @ 400ppm CO % (output @ 50°C/output @ 20°C) @ 400ppm CO ppm equivalent change from 20°C ppm equivalent change from 20°C		70 to 90 102 to 112 < ± 3 < ± 5
Cross Sensitivity	Filter capacity Filter capacity Filter capacity Filter capacity Filter capacity H ₂ S sensitivity NO ₂ sensitivity NO sensitivity SO ₂ sensitivity Cl 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 @ 50ppm % measured gas @ 20ppm % measured gas @ 10ppm % measured gas @ 10ppm % measured gas @ 400ppm % measured gas @ 400ppm % measured gas @ 400ppm % measured gas @ 20ppm	H ₂ S NO ₂ NO SO ₂ H ₂ S NO ₂ NO SO ₂ CI ₂ H ₂ at 20°C C ₂ H ₄ NH ₃	4,000,000 10,000,000 2,000,000 5,000,000 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1
Key Specifications	Temperature range Pressure range Humidity range Storage period Load resistor Weight	°C kPa % rh continuous months @ 3 to 20°C (stored in sec Ω (recommended) g	ıled pot)	-30 to 50 80 to 120 15 to 90 6 10 to 47 < 8

Figure 1 Sensitivity Temperature Dependence

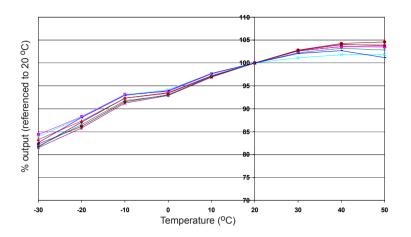


Figure 1 shows the variation in sensitivity caused by changes in temperature.

This data is taken from a typical batch of sensors.

Figure 2 Zero Temperature Dependence

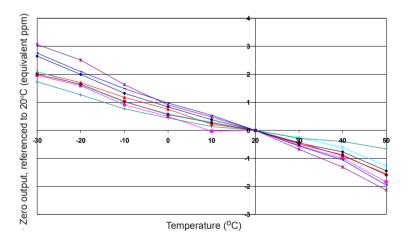


Figure 2 shows the variation in zero output caused by changes in temperature, expressed as ppm gas equivalent, referenced to zero at 20°C.

This data is taken from a typical batch of sensors and shows repeatability.

Figure 3 Response to 10% Volume CO

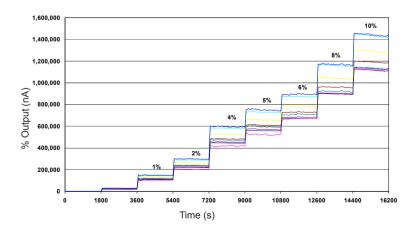


Figure 3 shows the non-linear response to step changes in CO concentrations from 10% CO to 0% CO.

This data is taken from a typical batch of sensors and shows repeatability.

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.

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