0.7 recess



CO-CX Carbon Monoxide Sensor EN 50379 Compliant for Stack Gases





Figure 1 CO-CX Schematic Diagram 920.2 Including label PATENTED CARBON MON CO-CX 1234 Sensing area Do not obscure

All dimensions in millimetres (± 0.1mm) unless otherwise stated

Top View Bottom View

			7111
Side	View	6.3	

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PERFORMANCE	Sensitivity Response time Zero current Resolution Range Linearity Overgas limit	nA/ppm in 400ppm CO t ₉₀ (s) from zero to 800ppm 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 800ppm CO maximum ppm for stable response to gas pulse	55 to 100 < 40 < ± 3 < 0.5 2,000 < ±40 4,000
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)	< 0.2 < 6 > 24
ENVIRONMENTAL	Sensitivity @ -20°C Sensitivity @ 0°C Sensitivity @ 40°C Zero @ -20°C Zero @ 0°C Zero @ 50°C	% (output @ -20°C/output @ 20°C) @ 400ppm CO % (output @ 0°C/output @ 20°C) @ 400ppm CO % (output @ 40°C/output @ 20°C) @ 400ppm CO ppm equivalent change from 20°C ppm equivalent change from 20°C ppm equivalent change from 20°C	50 to 85 80 to 95 100 to 125 < 0 to 4 < 0 to 3 < 0 to -10
CROSS SENSITIVITY	Filter capacity ppr Filter capacity ppr Filter capacity ppr Filter capacity ppr H ₂ sensitivity % I H ₂ sensitivity % I H ₂ sensitivity % I NO ₂ sensitivity % I NO sensitivity % I SO ₂ sensitivity % I	m-hours H_2S m-hours NO_2 m-hours NO_2 m-hours SO_2 measured gas @ 900ppm H_2 in 900ppm CO @ 10°C measured gas @ 900ppm H_2 in 900ppm CO @ 20°C measured gas @ 900ppm CO @ 30°C measured gas @ 20ppm CO @ 30°C measured gas @ 10ppm CO CO measured gas @ 20ppm CO CO CO measured gas @ 20ppm CO CO CO CO CO CO CO CO	250,000 500,000 400,000 250,000 < 2 < 5 < 6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 2 < 0.1
KEY SPECIFICATIONS	Temperature range Pressure range Humidity range	°C kPa % rh continuous	-30 to 50 80 to 120 15 to 90

Storage period months @ 0 to 20°C (stored in sealed pot) 6 Load resistor Ω (recommended) 10 to 47 Weight g < 8

Important. The CO-CX must be operated with a 0 Volt bias between Reference & Working electrodes. Failure to comply with this requirement will result in a loss of its low Hydrogen cross sensitivity performance.

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.

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CO-CX Performance Data

Figure 2 Sensitivity Temperature Dependence

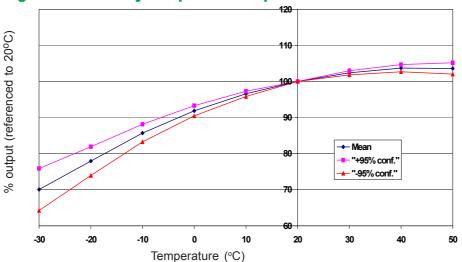


Figure 2 shows the variation in sensitivity caused by changes in temperature.

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

Figure 3 Zero Temperature Dependence

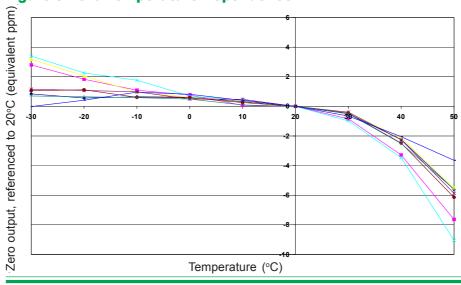
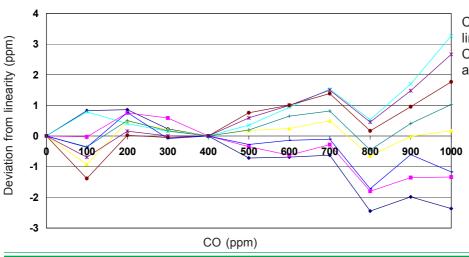


Figure 3 shows the variation in zero output caused by changes in temperature, expressed as ppm gas equivalent, referenced to zero at 20°C.

This data is taken from a typical batch of sensors.

Figure 4 Linearity to 1,000ppm



CO-CX shows very good linearity from 0 to 1,000 ppm CO, with less than ±0.3% error at 1,000ppm CO.

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