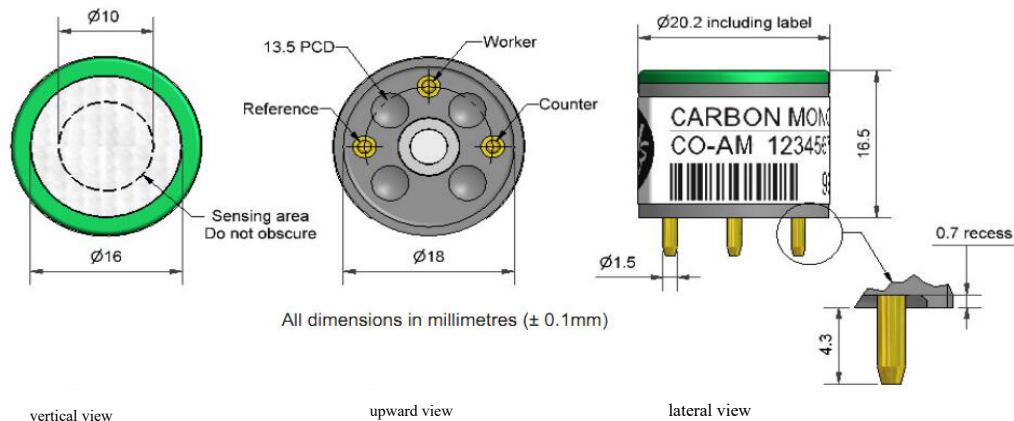


CO-AM Carbon Monoxide Sensor



Figure 1 Schematic Diagram of CO-AM



function	sensitivity	Sensitivity in 400ppmCO (nA/ppm)	55~90
	reaction time	Time from zero to 400ppmCO (s)	< 25
	zero current	Equivalent ppm value in zero air	-4~+2
	resolution ratio	RMS noise (equivalent ppm value)	< 0.5
	range	CO measurement limit (ppm) that guarantees product performance	5000
	degree of linearity	The ppm value of the full scale error is linear from 0 to 1000ppm	15~25
	overload	Maximum ppm value of gas pulse stabilized reaction	10000
life span	zero drift	Equivalent ppm values that change in the laboratory air from year to year	< 0.2
	sensitivity drift	Percentage change in laboratory air over the year, measured monthly	< 8
	working life	Number of months to which the output is reduced to 80% of the original signal (warranty 24 months)	> 24
environment	-20°C sensitivity	400ppm CO when, (output at -20°C/ output at 20°C)%	63~88
	Sensitivity at 50°C	400ppm CO when, (50°C output/20°C output)%	102~115
	-20°C when zero point	Change in equivalent ppm values with reference to 20°C zero	< ±3
	50°C at zero point	Change in equivalent ppm values with reference to 0°C 20	< ±8
cross sensitivity	filter capacity	ppm· hour H ₂ S	250,000
	filter capacity	ppm- hour NO ₂	600,000
	filter capacity	ppm- hour NO	20,000
	filter capacity	ppm- hour SO ₂	300,000
	H ₂ S	Gas sensitivity percentage at 20ppmH ₂ S	< 0.1
	NO ₂	Gas sensitivity percentage ₂ measured at 10ppmNO	< 0.1
	Cl ₂	Sensitivity percentage of gas measured ₂ at 10ppmCl	< 0.1
	NO	Gas sensitivity percentage measured at 50ppmNO	< 5
	SO ₂	Gas sensitivity percentage ₂ at 20ppmSO	< 0.1
	H ₂	Gas sensitivity percentage ₂ measured at 400ppmH(20°C)	< 60
	C ₂ H ₄	Gas sensitivity percentage measured at 400ppmC ₂ H ₄	< 25
NH ₃	Percentage sensitivity of gas ₃ at 20ppmNH	< 0.1	
key parameter	temperature range	°C	-30~50
	pressure limit	kPa	80~120
	Humidity range	Percentage of continuous relative humidity	15~90
	Storage period	Number of months for preservation from 3 to 20°C (to be kept in a sealed tank)	6
	load resistance	Ω (recommend)	10~47
	weight	g	< 6

Figure 2 Sensitivity Temperature Characteristics

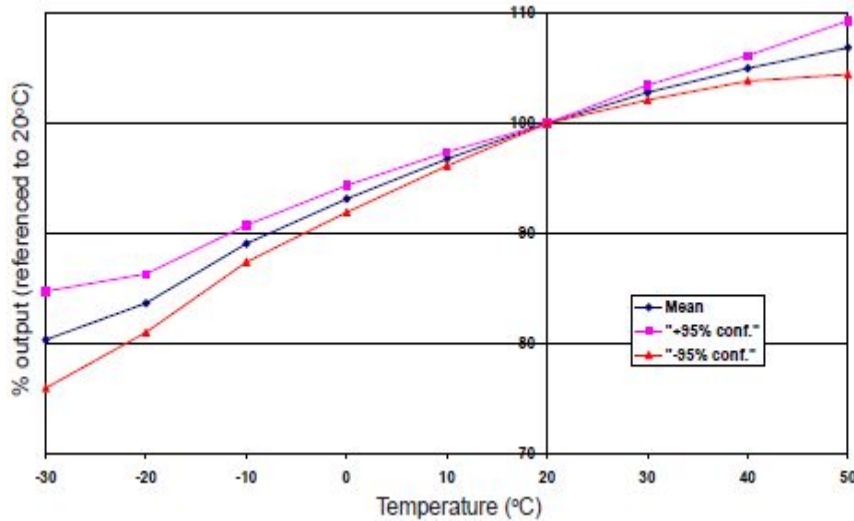


Figure 2 shows the change in sensor sensitivity caused by temperature changes.

The data were collected from a typical batch of sensors. Figure 2 shows the average percentage output (reference 20°C) and \pm 95% confidence interval.

Figure 3 Zero Temperature Characteristics

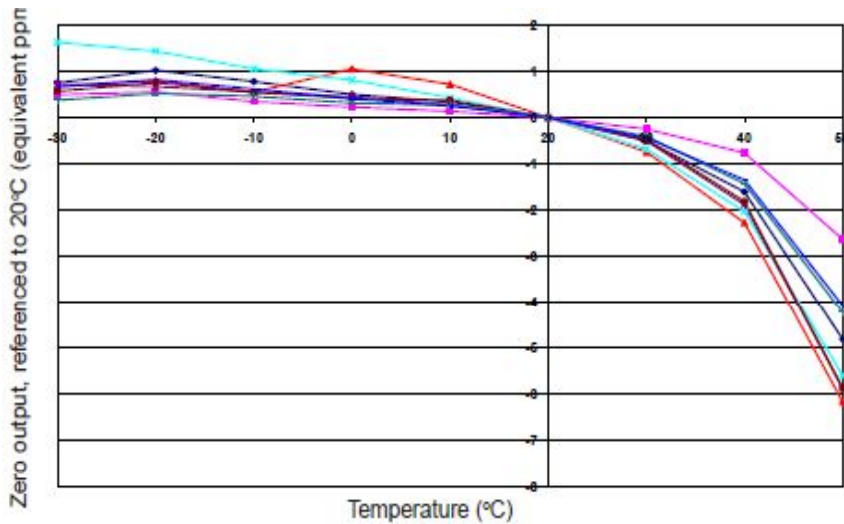


Figure 3 shows the change in zero point output caused by temperature changes, expressed as equivalent ppm values, with reference to the zero point at 20°C.

Data is taken from a typical batch of sensors.

Figure 4 Reaction Exposed to 2% CO

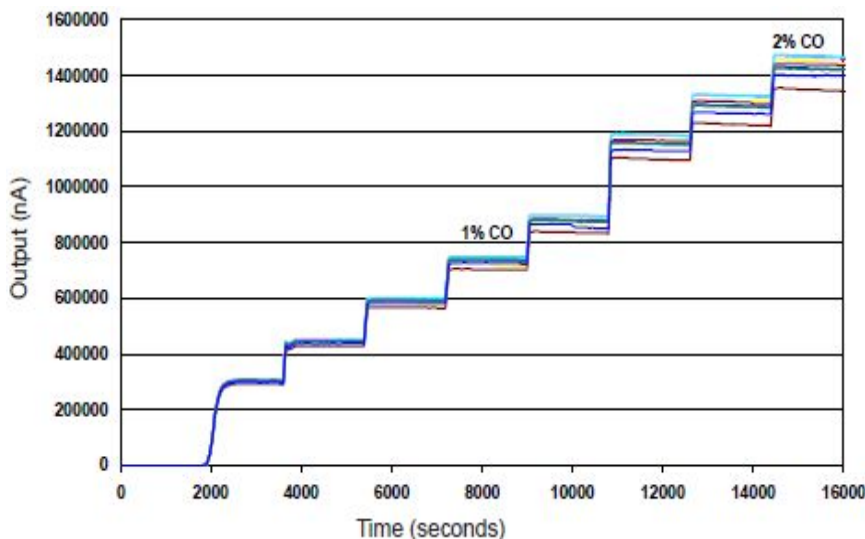


FIG. 4 shows the good response of the sensor output when the CO concentration is increased from 0 to 2%.

This data is taken from a typical batch of sensors.

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