

CO-CF Carbon Monoxide Sensor



PATENTED

Figure 1 schematic diagram of CO-CF



function	sensitivity	Sensitivity in 400ppmCO (nA/ppm)		55~90
	reaction time	Time from zero to 400ppmCO t90 (s)		< 30
	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		< ± 30
	overload	Maximum ppm value of gas pulse stabilized reaction		20000
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 has been reduced to 80% of the original signal (24-month guarantee)		> 24
environment	-20°C sensitivity	400ppm CO when, (output at -20°C/ output at 20°C)%		63~85
	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 the zero point	Change of equivalent ppm value with reference to 20°C zero point		< ± 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	400,000
	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		< 0.1
	SO ₂	Gas sensitivity percentage ₂ at 20ppmSO		< 0.1
	H ₂	Gas sensitivity percentage measured at 400ppmH ₂ (20°C)		< 45
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		< 8

Figure 2 Sensitivity Temperature Characteristics

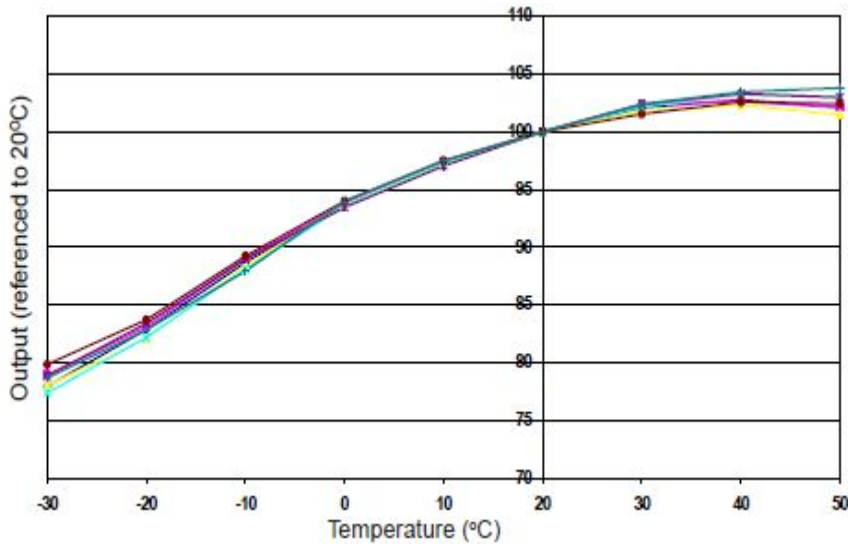


Figure 2 shows the change in sensor sensitivity caused by temperature changes.

Data was collected from typical batch sensors.

Figure 3 Zero Temperature Characteristics

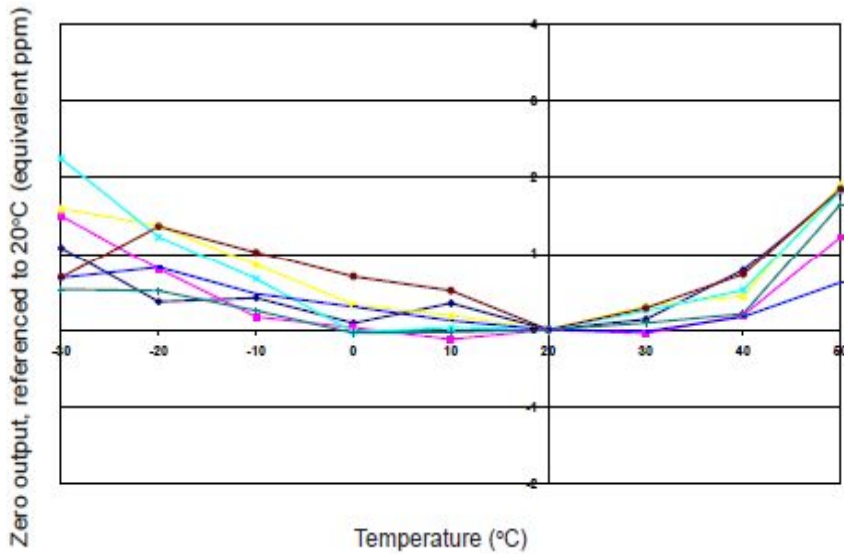


Figure 3 shows the change in zero point output caused by temperature changes, expressed as equivalent ppm values, with reference to the zero point at 20°C.

Data was taken from a typical batch of sensors.

Figure 4 Reaction Exposed to 2% CO

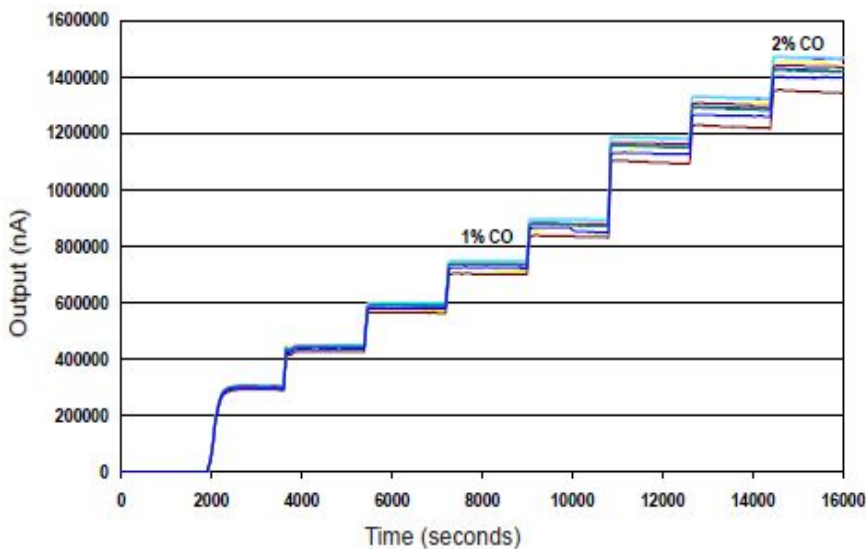


FIG. 4 shows the good response of the sensor output when the CO concentration is increased from 0 to 2%.

This data is taken from a typical batch of sensors.

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