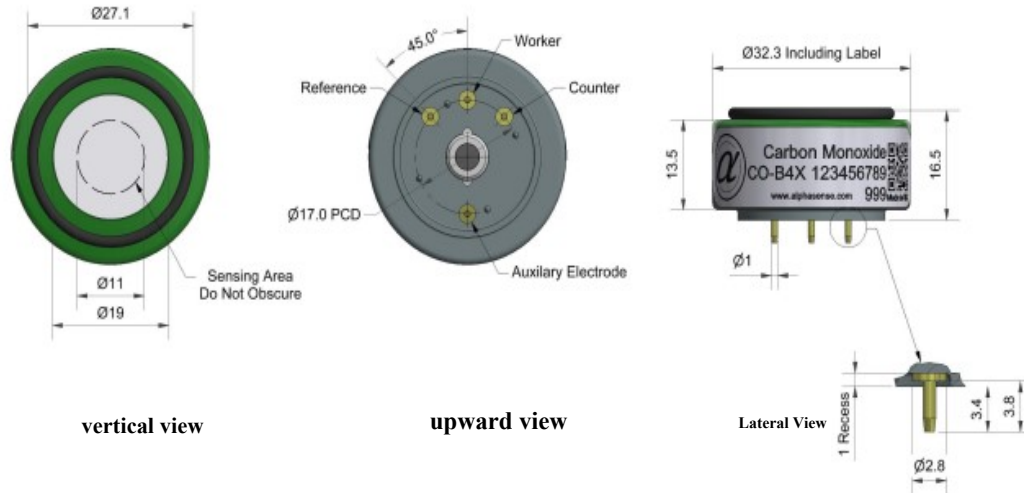


CO-B4X carbon monoxide sensor--four electrodes



All dimensions are in mm (± 0.1 mm)

function	sensitivity	Sensitivity in 2ppmCO (nA/ppm)	250~550
	response time	Time from zero to 10ppmCO (s)	< 30
	Zero current noise*	Output at 20°Cm in zero-level air (nA)	+100~-250
	range	Standard deviation ± 2 (equivalent ppb)	4
	degree of linearity	Measuring limits (ppm) that guarantee product performance	50
	overload	The value of the full scale error in ppb is linear at 0~500ppm CO	20~35
* The test uses Alphasense ISB low noise circuit board		Maximum ppm value of gas pulse stabilized reaction	100
life span	zero drift	Equivalent ppb values that change in the laboratory air from year to year	< ± 100
	sensitivity drift	Percentage change in laboratory air over the year, measured monthly	< 10
	working life	Number of months to which the output is reduced to 50% of the original signal (24 months guaranteed)	> 36
environment	-20°C sensitivity	5ppm CO when, (output at -20°C/ output at 20°C)%	30~50
	Sensitivity at 50°C	At 5ppm CO, (output at 50°C/ output at 20°C)%	125~145
	-20°C when zero point	nA	-30~+30
	50°C at zero point	nA	-50~350
cross connection	filter capacity	ppm· hour H ₂ S	250,000
sensitivity	H ₂ S	Gas sensitivity percentage measured at 5ppmH ₂ S	< 3
	NO ₂	Gas sensitivity percentage₂ at 5ppmNO	< -4
	Cl ₂	Gas sensitivity percentage ₂ measured at 5ppmCl	< -3
	NO	Gas sensitivity percentage measured at 5ppmNO	< -5
	SO ₂	Gas sensitivity percentage₂ at 5ppmSO	< 0.1
	H ₂	Gas sensitivity percentage measured at 100ppmH ₂ (20°C)	< 5
	C ₂ H ₄	Sensitivity percentage of gas measured at 100ppmC ₂ H ₄	< 15
NH ₃	Percentage sensitivity of gas₃ at 20ppmNH	< 0.1	
hinge 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 stored in a sealed tank)Ω (recommended to use ISB circuit board)	6
	load resistance		33~100
	weight	g	< 13

Figure 1 Sensitivity Temperature Characteristics

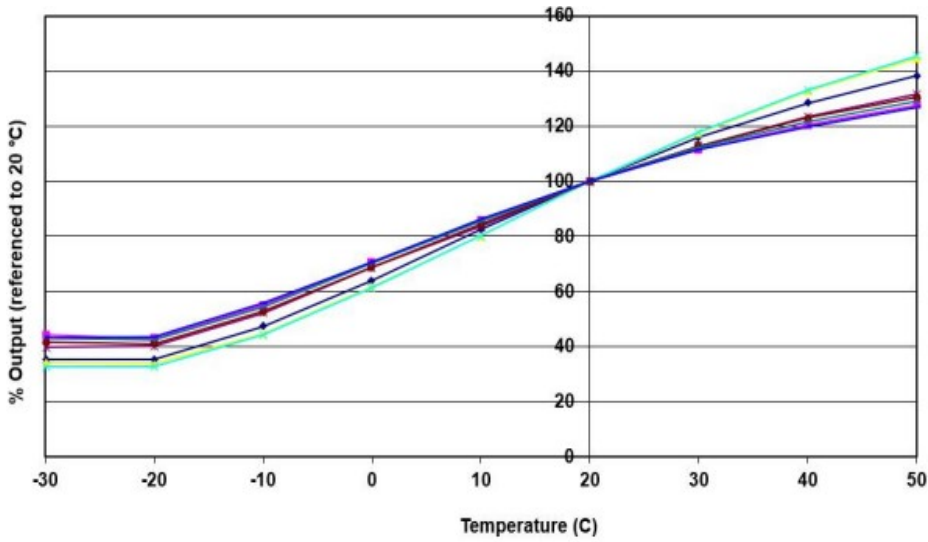


Figure 1 shows the temperature characteristics of sensitivity at 2 ppm CO.

Data was collected from typical batch sensors.

Figure 2 Temperature Characteristics of Zero Current

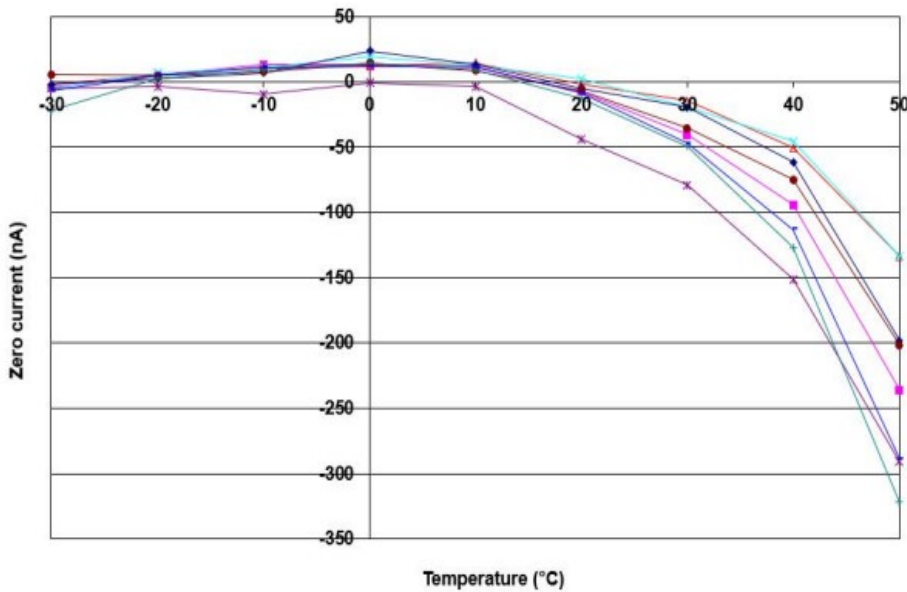


FIG. 2 shows the zero point output variation of the working electrode caused by temperature change, in units of nA.

Data was collected from typical batch sensors.

For more information about zero current correction, please contact Alphasense.

After the product reaches the end of its service life, do not dispose of any electronic sensors, components, or instruments in household waste. Please contact the instrument manufacturer, Alphasense, or its authorized distributors for disposal instructions. Important Note: Unless otherwise specified, all sensors are tested under ambient conditions. Since application scenarios may exceed our control parameters, the information provided carries no legal liability. Customers should conduct their own testing to ensure the sensors meet their specific application requirements.

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