

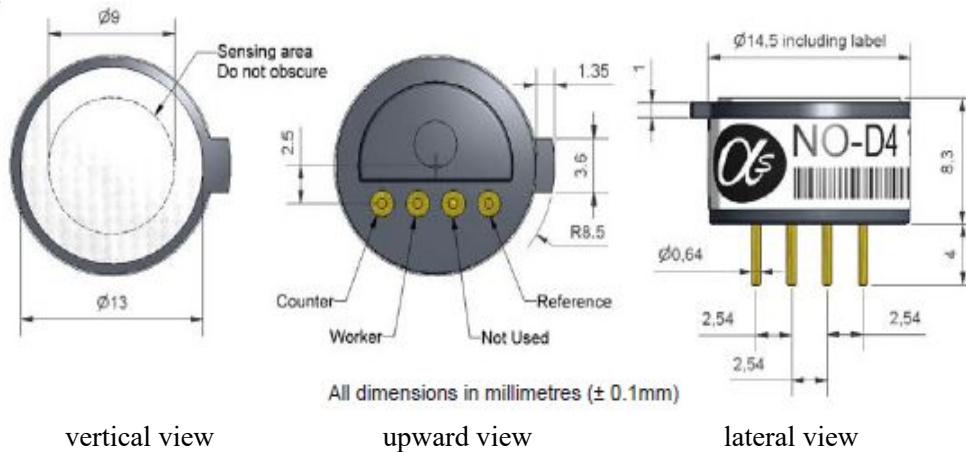
NO-D4 Nitric Oxide

Sensor Micro



PATENTED

Figure 1 NO-D4 Schematic Diagram



function	sensitivity	Sensitivity in 40ppmNO (nA/ppm)	450~600
	reaction time	Time from zero to 40ppmNO (s)	< 15
	zero current	Equivalent ppm value in zero air	< 0~1.5
	resolution ratio	RMS noise (equivalent ppm value)	< 0.1
	range	Measuring limits (ppm) that guarantee product performance	100
	degree of linearity	The ppm value of the full scale error is linear from 0 to 40ppm	< ± 1.5
	overload	Maximum ppm value of gas pulse stabilized reaction	400
life span	zero drift	Equivalent ppm values that change in the laboratory air from year to year	< 0.4
	sensitivity drift	Percentage change in laboratory air over the year, measured monthly	< 5
	working life	Number of months to which the output is reduced to 80% of the original signal (24 months guaranteed)	> 18
envi- onment	-20°C sensitivity	40ppmNO when, (output at -20°C/ output at 20°C)%	65~80
	Sensitivity at 50°C	40ppmNO 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	< ± 0.5
	50°C at zero point	Change in equivalent ppm values with reference to 20°C zero	< 1.5~6
cross sen- sitivity	H ₂ S	Gas sensitivity percentage at 20ppmH ₂ S	< 5
	NO ₂	Gas sensitivity percentage ₂ measured at 10ppmNO	< 5
	Cl ₂	Sensitivity percentage of gas measured ₂ at 10ppmCl	< 5
	SO ₂	Gas sensitivity percentage ₂ measured at 10ppmSO	< 0.5
	CO	Gas sensitivity percentage measured at 400ppmCO	< 0.1
	H ₂	Gas sensitivity percentage measured at 400ppmH ₂	< 0.1
	C ₂ H ₄	Sensitivity percentage of gas measured at 1000ppmC ₂ H ₄	< 0.1
	NH ₃	Percentage sensitivity of gas ₃ at 20ppmNH	< 0.1
	CO ₂	Sensitivity percentage of gas measured at 5%Vol CO ₂	< 0.1
key param- eter	temperature range	°C	-20~50
	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
	bias voltage	mV (working electrode potential greater than zero)	+300
	load resistance	Ω (For optimized performance)	10~47
	weight	g	< 2

Figure 2 Sensitivity Temperature Characteristics

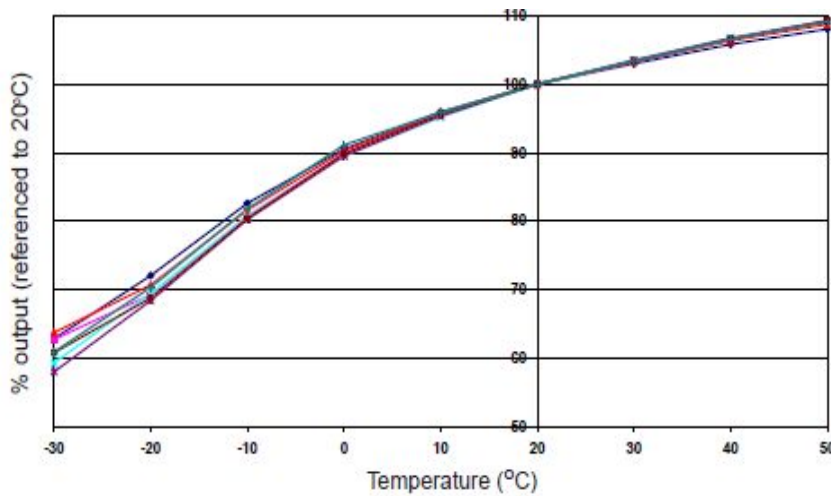


Figure 2 shows the change in sensor sensitivity caused by temperature changes.

Data is collected from typical batch transmitters.

Figure 3 Zero Temperature Characteristics

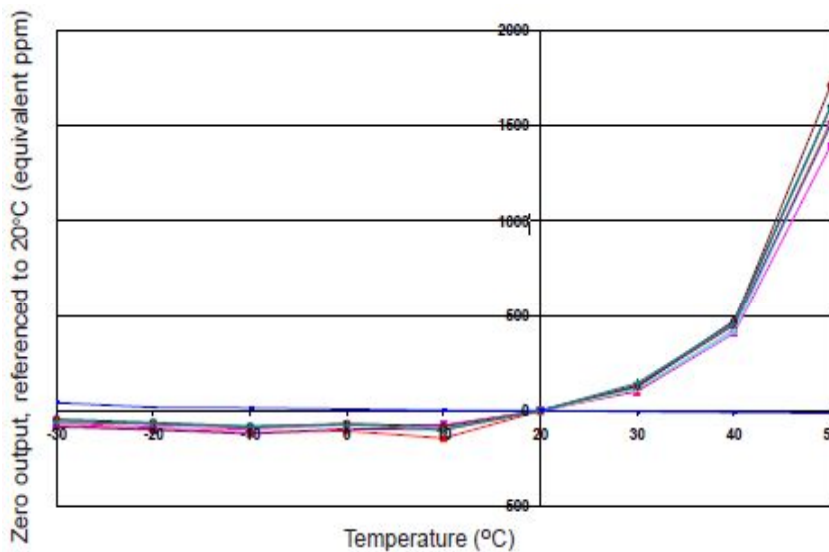
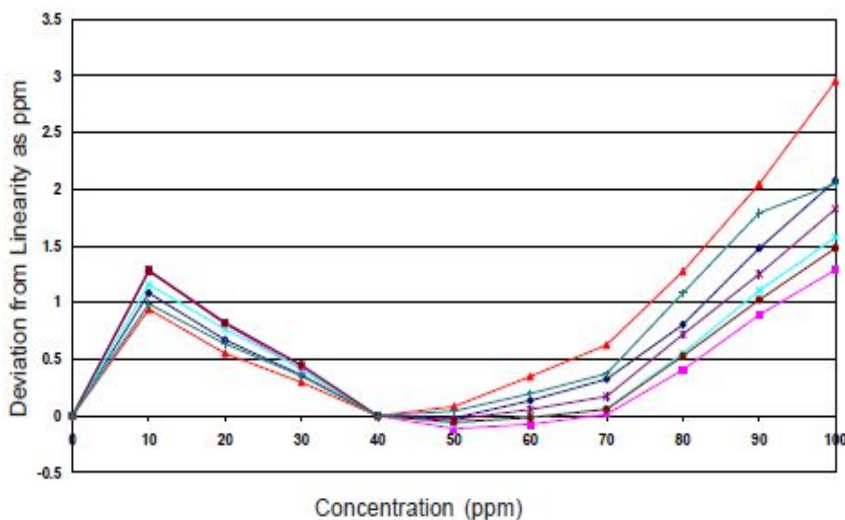


Figure 3 shows the change in zero point output caused by temperature changes, expressed as equivalent ppm values, with reference to the zero point at 20°C.

Data is taken from a typical batch of sensors.

Figure 4. Linearity of the Sensor at 0~100ppm NO



NO concentration in 0~100ppm, the linearity of the sensor is very close to the ideal state, as shown in Figure 4.

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