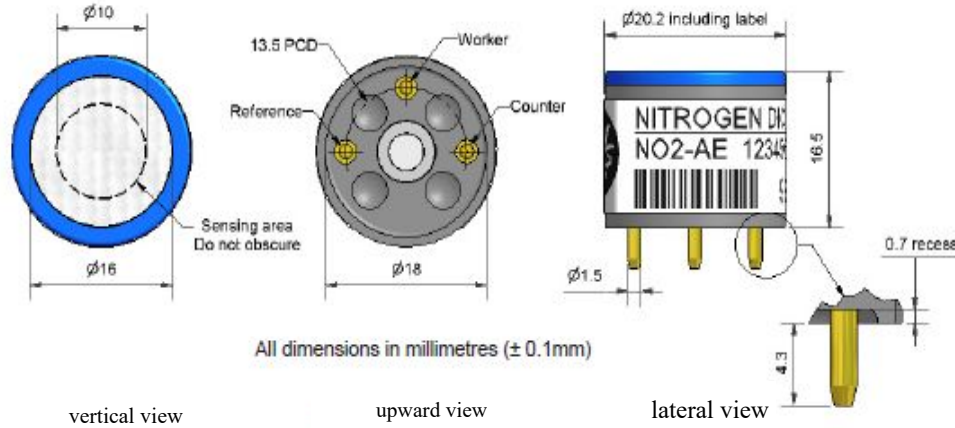


NO2-AE Nitrogen Dioxide Sensor High Concentration



PATENT PENDING

Figure 1 NO2-AE Schematic Diagram



function	sensitivity	Sensitivity at 20°C in 10ppmNO ₂ (nA/ppm) (33Ω load resistance)	-70~-170
	reaction time	Time ₂ to 10ppmNO from zero (s) (33Ω load resistance)	< 40
	zero current	Equivalent to ppm in zero grade air	< ± 1.5
	resolution ratio	RMS noise (equivalent ppm) (33Ω)	< 0.1
	range	Measuring limits (ppm) that guarantee product performance	200
	degree of linearity	The ppm value of the error at 200ppm, and it is linear at 30~100ppm	< 2~11
	overload	Maximum ppm value for 10-minute gas pulse stabilized reaction	> 1,000
life span	zero drift	Equivalent ppm values that change with the year in the laboratory air	nd
	sensitivity drift	The percentage of changes in the laboratory air year on year, gas treatment twice a month	< 2
	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	10ppmNO ₂ when (output at -20°C/ output at 20°C)%	75~95
	Sensitivity at 50°C	10ppmNO ₂ when(output at 50°C/20°C)%	98~110
	-20°C when zero point	Equivalent ppm value	< ± 0.5
	50°C at zero point	Equivalent ppm value	< 0~-5
cross sensitivity	CO	Gas sensitivity percentage measured at 400ppmCO	< 3.5
	NO	Gas sensitivity percentage measured at 50ppmNO	< 2
	SO ₂	Gas sensitivity percentage ₂ at 20ppmSO	< -30
	Cl ₂	Gas sensitivity percentage measured ₂ at 5ppmCl	< 90
	H ₂	Gas sensitivity percentage measured at 400ppmH ₂	< -0.8
	H ₂ S	Gas sensitivity percentage at 200ppmH ₂ S	< -220
	C ₂ H ₄	Gas sensitivity percentage measured at 400ppmC ₂ H ₄	< 0.1
	NH ₃	Percentage sensitivity of gas ₃ at 20ppmNH	< -1
	CO ₂	Sensitivity percentage of gas measured at 5%Vol CO ₂	0
O ₃	Sensitivity percentage of gas ₃ measured at 100ppbO	< 120	
key parameter	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
	load resistance	Ω (For optimized performance)	33
	weight	g	< 6

Figure 2 Sensitivity Temperature Characteristics

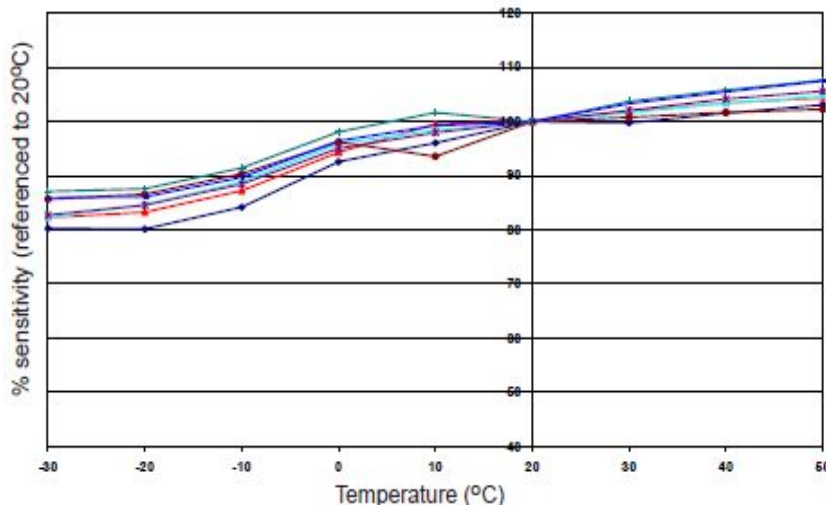


Figure 2 shows the sensitivity change caused by temperature change.

Data was collected from typical batch sensors.

Figure 3 Zero Temperature Characteristics

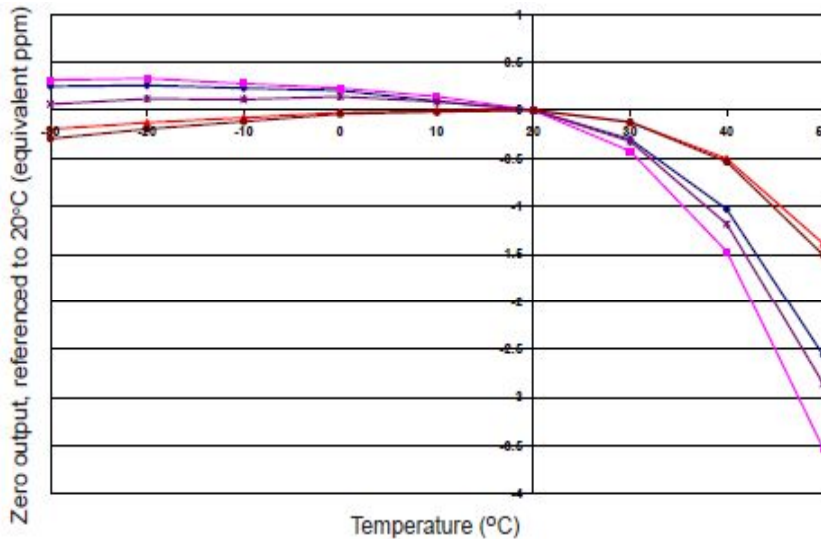


Figure 3 shows the change in zero point output caused by temperature changes, expressed in equivalent ppm values, with reference to the zero point at 20°C.

Data is taken from a typical batch of sensors.

Figure 4. Linearity of NO₂ from 0 to 200 Ppm

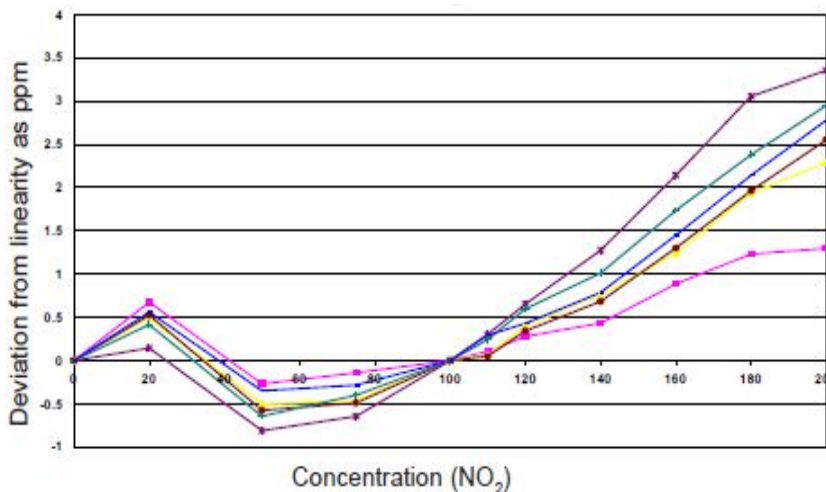


Figure 4 shows the excellent and repeatable linearity of the sensor when detecting 200ppm NO₂, so this sensor can be used at high NO₂ concentrations.

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