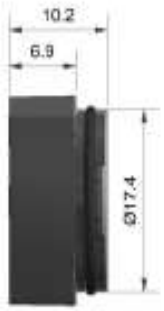
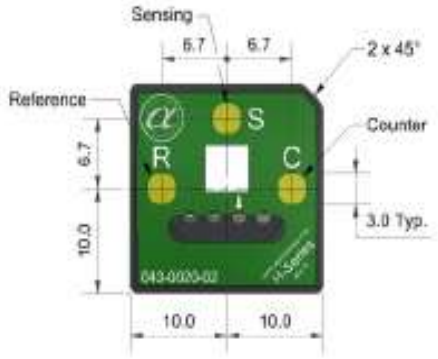
NO-H4 nitric oxide sensor--miniature



lateral view

top view



bottom view

All dimensions are in mm (±0. 1mm)

function	Sensitivity response time	Sensitivity in 40ppmNO (nA/ppm)	450~600
		from zero to t90 time in 40ppmNO (s)	< 15
	Zero point current	Equivalent ppm value of zero air	< 0~1.5
	resolution	RMS noise (equivalent ppm value)	< 0.1
	range linearity overload	The measurement limit value (ppm) of the product performance is guaranteed, the ppm value of the full range error, and the maximum ppm value of the stable reaction to gas pulse	100 < ± 1.5 400
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
environment	-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 0℃20	< ± 0.5
	50°C at zero point	Change in equivalent ppm values with reference to 0℃20	< 1.5~6
cross connection sensitivity	H_2S	Gas sensitivity percentage at 20ppmH_2S	< 5
	NO_2	Gas sensitivity percentage measured at 10ppmNO_2	< 5
	Cl_2	Sensitivity percentage of gas measured at 10ppmCl_2	< 5
	SO_2	Gas sensitivity percentage measured at 10ppmSO_2	< 0.5
	CO	Gas sensitivity percentage measured at 400ppmCO	< 0.1
	H_2	Gas sensitivity percentage measured at 400ppmH_2	< 0.1
	C_2H_4	Sensitivity percentage of gas measured at 1000ppmC_2H_4	< 0.1
	NH_3	Percentage sensitivity of gas at 20ppmNH_3	< 0.1
	CO_2	Sensitivity percentage of gas measured at 5%Vol CO_2	< 0.1
hinge parameter	temperature range	℃	-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℃(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 1 Sensitivity Temperature Characteristics

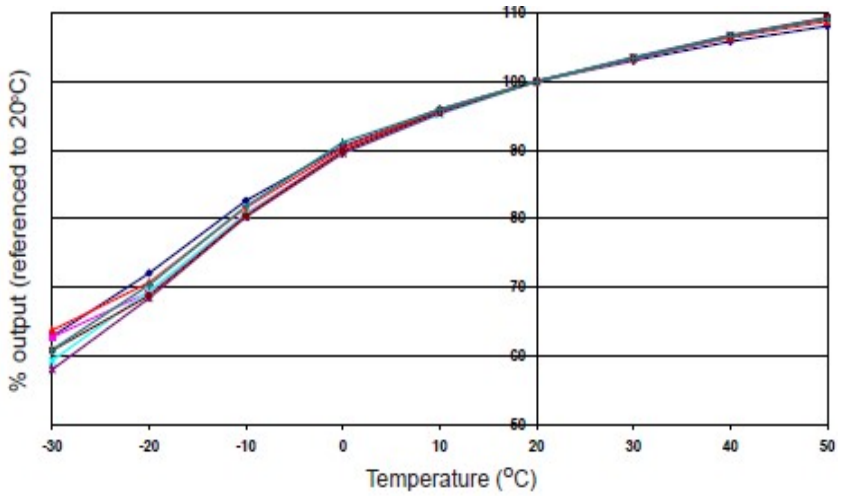


Figure 1 shows the change of sensor sensitivity caused by temperature variation.

Data is collected from typical batches of transducers.

Figure 2 Zero Temperature Characteristics

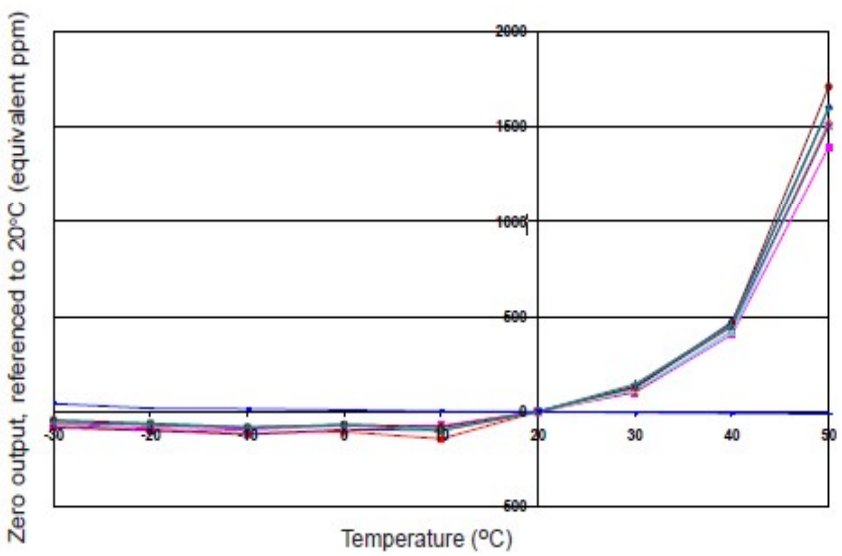
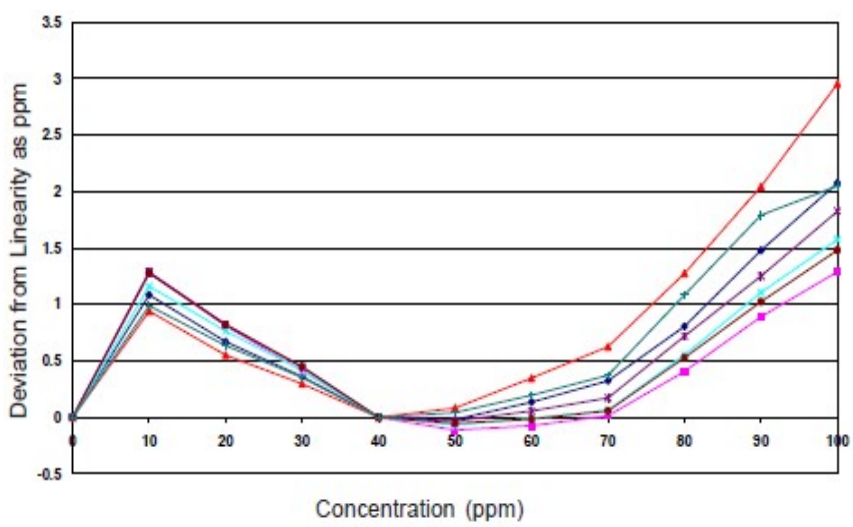


Figure 2 shows the change in zero point output caused by temperature change, expressed as ppm values of equivalent effect, with reference to the zero point at 20 ℃.

Data was taken from typical batch sensors.

Figure 3. Linearity of the Sensor at 0~100ppm NO



When NO concentration is 0~100ppm, the linearity of the sensor is very close to the ideal state, as shown in Figure 3.

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