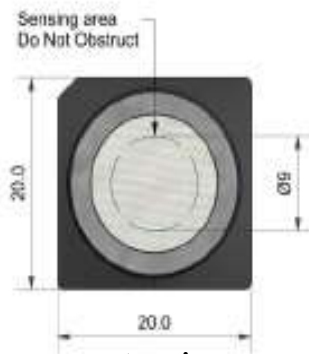


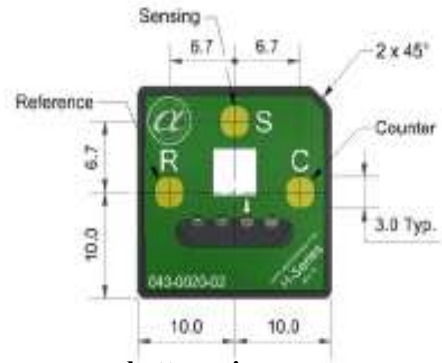
## NO2-H4 Nitrogen dioxide sensor--miniature



lateral view



top view



bottom view

All dimensions are in mm (±0.1mm)

function	sensitivity	<b>Sensitivity<sub>2</sub> in 10ppmNO (nA/ppm)</b>	-100~350
	Respond to time	<b>Time<sub>2</sub> to 90 minutes from zero to 10ppmNO (s)</b>	< 35
	zero current	<b>Output in zero grade air (nA)</b>	± 0.8
	resolution ratio	<b>RMS noise (equivalent ppm)</b>	0.1
	range	<b>Measuring limits (ppm) that guarantee product performance</b>	20
	degree of linearity	<b>The ppm value of the full scale error is linear from 0 to 10ppm</b>	0~-0.6
	overload	<b>Maximum ppm value of gas pulse stabilized reaction</b>	60
life span	<b>zero drift</b>	Equivalent ppm values that change in the laboratory air from year to year	nd
	<b>sensitivity drift</b>	Percentage change in laboratory air year on year, measured twice a month	nd
	<b>working life</b>	Number of months to which the output is reduced to 80% of the original signal (warranty 24 months)	> 18
envir- onment	<b>-20°C sensitivity</b>	<b>10ppmNO<sub>2</sub> when (output at -20°C/ output at 20°C)%</b>	75~95
	<b>Sensitivity at 50°C</b>	<b>10ppmNO<sub>2</sub> at (output at 50°C/20°C)%</b>	90~105
	<b>-20°C when zero point</b>	<b>Equivalent ppm value change, reference 20°C</b>	< ± 0.6
	<b>50°C at zero point</b>	<b>Equivalent ppm value change, reference 20°C</b>	< ± 1.5
cross co- nnection sensitivity	H <sub>2</sub> S	<b>Gas sensitivity percentage at 20ppmH<sub>2</sub>S</b>	< -200
	Cl <sub>2</sub>	<b>Sensitivity percentage of gas measured<sub>2</sub> at 10ppmCl<sub>2</sub></b>	< 120
	NO	<b>Gas sensitivity percentage measured at 50ppmNO</b>	< 0.5
	SO <sub>2</sub>	<b>Gas sensitivity percentage<sub>2</sub> at 20ppmSO<sub>2</sub></b>	< -3
	CO	<b>Gas sensitivity percentage measured at 400ppmCO</b>	< 0.1
	H <sub>2</sub>	<b>Gas sensitivity percentage<sub>2</sub> at 400ppmH<sub>2</sub></b>	< 0.1
	C <sub>2</sub> H <sub>4</sub>	<b>Gas sensitivity percentage measured at 400ppmC<sub>2</sub>H<sub>4</sub></b>	< 0.1
	NH <sub>3</sub>	<b>Percentage sensitivity of gas<sub>3</sub> at 20ppmNH<sub>3</sub></b>	< 0.1
	CO <sub>2</sub>	<b>10% CO<sub>2</sub> gas sensitivity percentage measured</b>	< 0.1
O <sub>3</sub>	<b>Gas sensitivity percentage<sub>3</sub> at 200ppbO<sub>3</sub></b>	< 70	
hinge parameter	temperature range	°C	-20~50
	pressure limit	Kpa	80~120
	Humidity range	Percentage of continuous relative humidity (see below)	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	< 2

**Figure 1 Sensitivity Temperature Characteristics**

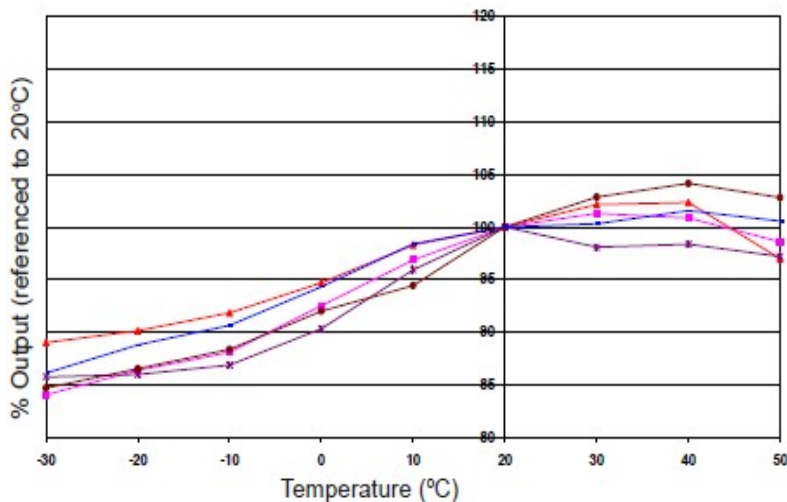


Figure 1 shows the change in sensitivity caused by temperature changes.

The data was taken from a typical batch of NO<sub>2</sub>-H4 sensors. Good repeatability means that the sensor can be precisely temperature compensated.

**Figure 2 Zero Temperature Characteristics**

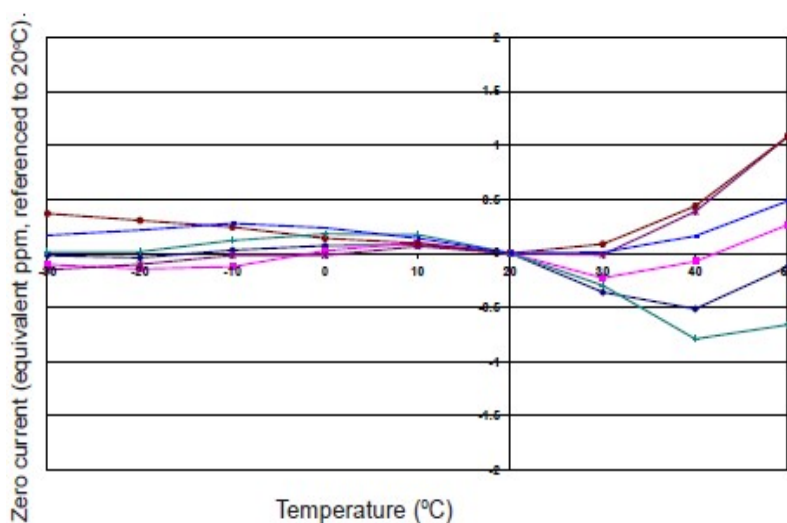
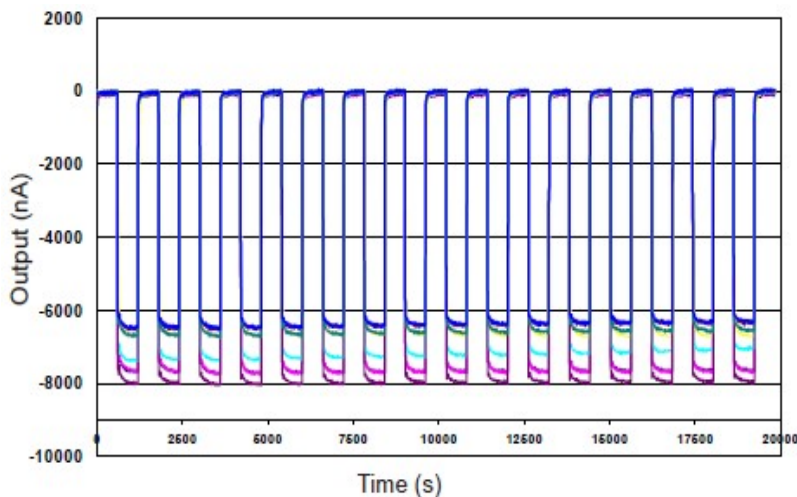


Figure 2 shows the change of zero point output of the working electrode caused by temperature change, expressed by equivalent ppm value, with reference to the zero point at 20°C.

Data was taken from a typical batch of sensors.

**Figure 3. Gas Treatment Is Repeated With 20ppm NO<sub>2</sub>**



As shown in Figure 3, when the gas is treated with 20ppm NO<sub>2</sub> repeatedly, the sensor response remains stable.

Note: When operating the sensor in environments with humidity exceeding 85% RH and temperature above 40°C, the product will only maintain operational performance for 10 days. If such conditions are encountered, temporarily store the sensor in a low-humidity and low-temperature environment for several days until its electrolyte level returns to normal levels before resuming use.

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