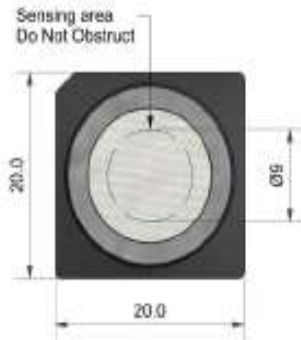


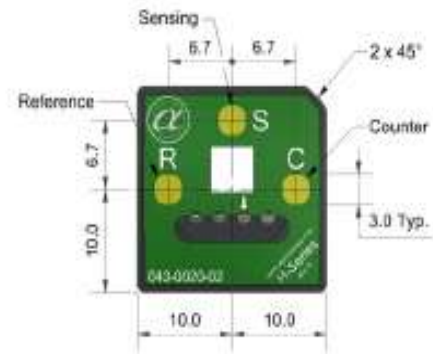
## HCN-H4 hydrogen cyanide sensor--miniature



lateral view



top view



bottom view

All dimensions are in mm (±0.1mm)

<b>Performance sensitivity</b>	<b>Sensitivity in 20ppmHCN (nA/ppm)</b>	30~50
Response time	<b>Time from zero to 20ppmHCN (s)</b>	< 50
zero current	<b>Equivalent ppm value of zero air</b>	±5
resolution ratio	<b>RMS noise (equivalent ppm value)</b>	< 0.3
<b>range</b>	<b>Measuring limits (ppm) that guarantee product performance</b>	50
degree of linearity	<b>The ppm value of the full scale error is linear from 0 to 200ppm</b>	0~4
overload	<b>Maximum ppm value of gas pulse stabilized reaction</b>	250

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 over the year, measured monthly	nd
	<b>working life</b>	Number of months output drops to 80% of original signal (12 months guaranteed)	> 12

<b>Sensitivity at -10°C</b>	<b>20ppmHCN when, (output at -10°C/20°C output)%</b>	55~90
Sensitivity at 50°C	<b>At 20ppmHCN, (output at 50°C/20°C)%</b>	105~120
-20°C when zero point	<b>Change in equivalent ppm values with reference to 20°C zero</b>	< ± 1
50°C at the zero point	<b>Change in equivalent ppm values with reference to 0°C 20</b>	< ± 1

<b>Crossed H<sub>2</sub>S</b>	<b>Gas sensitivity percentage at 20ppmH<sub>2</sub>S</b>	< 50
<b>Sensitivity NO<sub>2</sub></b>	<b>Gas sensitivity percentage<sub>2</sub> at 10ppmNO</b>	< -120
Cl <sub>2</sub>	<b>Sensitivity percentage of gas measured<sub>2</sub> at 10ppmCl</b>	< -40
NO	<b>Gas sensitivity percentage measured at 50ppmNO</b>	< -1
SO <sub>2</sub>	<b>Gas sensitivity percentage<sub>2</sub> at 20ppmSO</b>	< 25
CO	<b>Gas sensitivity percentage measured at 400ppmCO</b>	< 0.1
H <sub>2</sub>	<b>Gas sensitivity percentage measured 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</b>	< 5

<b>Key temperature ranges</b>	°C	-10~50
parameter		The sensitivity decreases when the temperature is between -30 and -10
pressure limit	kPa	80~120
Humidity range	<b>Percentage of continuous relative humidity (see below)</b>	15~90
Storage period	<b>Number of months for preservation from 3 to 20°C (to be kept in the original container)</b>	6
load resistance	<b>Ω ( recommend )</b>	10~47
weight	g	< 2

Figure 1 Sensitivity Temperature Characteristics

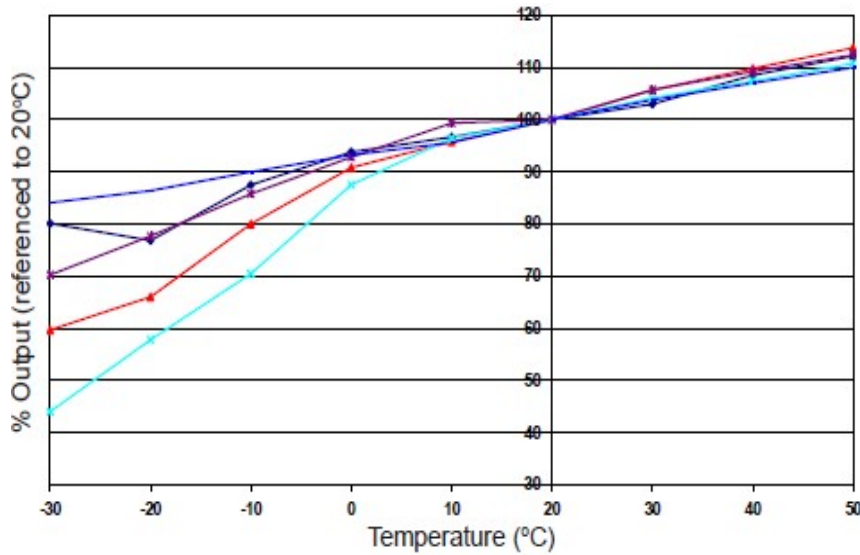


Figure 1 shows the change in sensor sensitivity caused by temperature changes.

The data was collected from a typical batch of HCN - H4 sensors.

Figure 2 Zero Temperature Characteristics

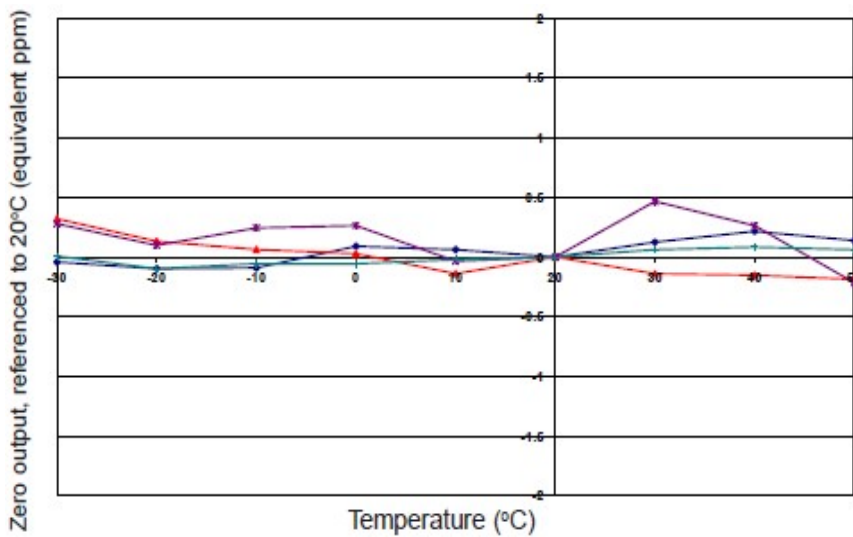


Figure 2 shows the change in zero point output caused by temperature changes, expressed as equivalent ppm values, with reference to the zero point at 20 °C.

Data was taken from a typical batch of sensors.

Figure 3 Reaction at 25ppm HCN

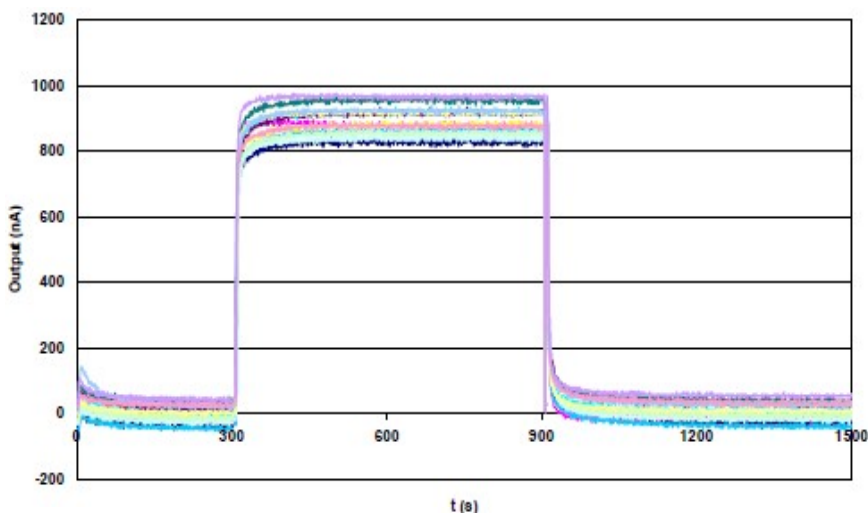


Figure 3 shows the reaction of the sensor with zero grade gas, 25ppm HCN and zero grade air successively.

Fast response time and excellent zero point stability can ensure that the sensor can respond quickly and reliably in gas emergency accidents.