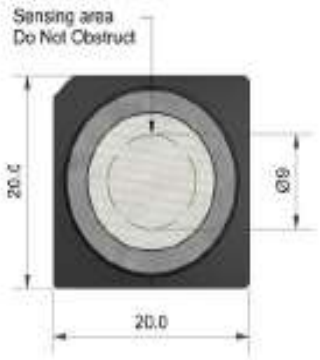
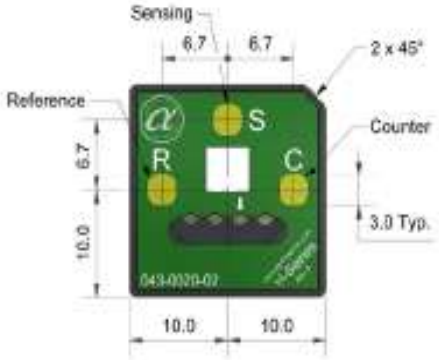
Technical specifications version 1.0

SO2-H4 sulfur dioxide sensor--micro

lateral view



top view



bottom view

All dimensions are in mm (±0. 1mm)

Performance sensitivity		Sensitivity $_2$ in 10ppmSO(nA/ppm)	180~420
	reaction time	Time $_2$ to 90% from zero to 10ppmSO (s)	< 15
	zero current	Equivalent ppm value of zero air	± 0.7
	resolution ratio	RMS noise (equivalent ppm value)	< 0.2
	range	Measuring limits (ppm) that guarantee product performance	20
	degree of linearity	The ppm value of the full scale error is linear from 0 to 10ppm	< 5
	overload	Maximum ppm value of gas pulse stabilized reaction	50
life span	zero drift	Equivalent ppm values that change in the laboratory air from year to year	< 0.2
	sensitivity drift	Percentage change in laboratory air over the year, measured monthly	< 6
	working life	Number of months to which the output is reduced to 80% of the original signal (24 months guaranteed)	> 18
Sensitivity at-20°C		10ppmSO $_2$ when (output at-20°C/ output at 20°C)%	72~88
	Sensitivity at 50°C	10ppmSO $_2$ when(output at 50°C/ output at 20°C)%	74~95
	-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 0°C 20	< ± 0.5
Crossed H $_2$ S		Gas sensitivity percentage at 20ppmH $_2$ S	< 400
Sensitivity NO $_2$		Gas sensitivity percentage $_2$ measured at 10ppmNO	< -120
	Cl_2	Sensitivity percentage of gas measured $_2$ at 10ppmCl	< -60
	NO	Gas sensitivity percentage measured at 50ppmNO	< 3
	CO	Gas sensitivity percentage measured at 400ppmCO	< 0.5
	H_2	Gas sensitivity percentage measured at 400ppmH $_2$	< 0.2
	C_2H_4	Gas sensitivity percentage measured at 400ppmC $_2$ H $_4$	< 15
	NH_3	Percentage sensitivity of gas $_3$ at 20ppmNH	< 0.1
	CO_2	10% CO $_2$ gas sensitivity percentage measured	< 0.1
Key temperature ranges		℃	-20~50
Pressure range of parameters		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)	22
	weight	g	< 2

Figure 1 Sensitivity Temperature Characteristics

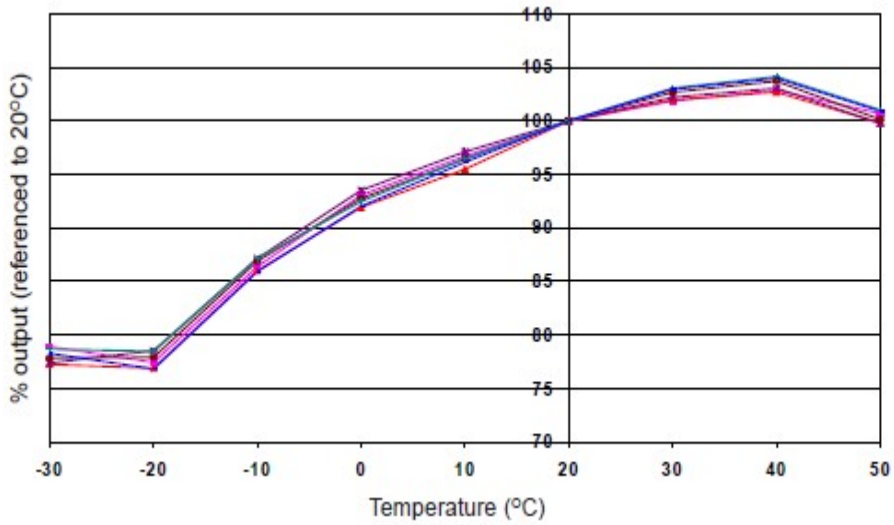


Figure 1 shows the change in sensor sensitivity caused by temperature changes.

Data was collected from typical batch sensors.

Figure 2 Zero Temperature Characteristics

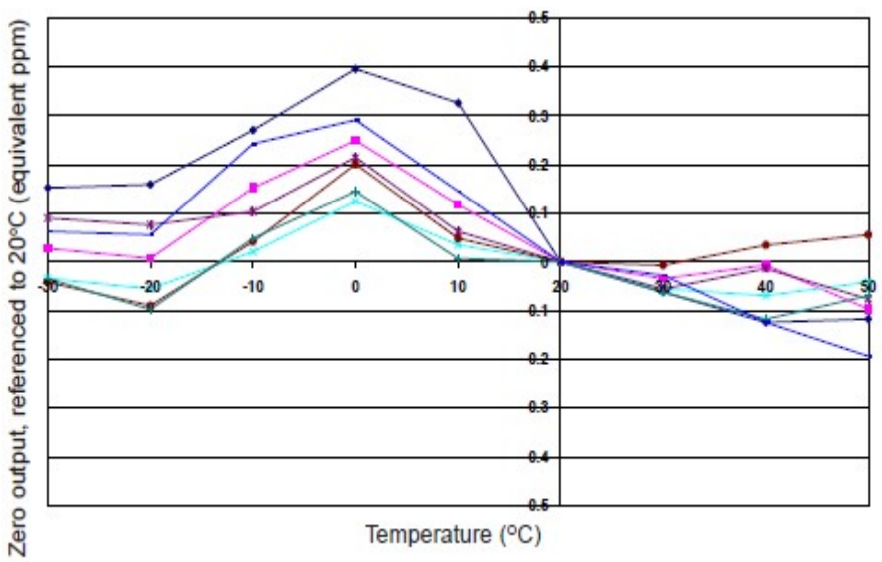
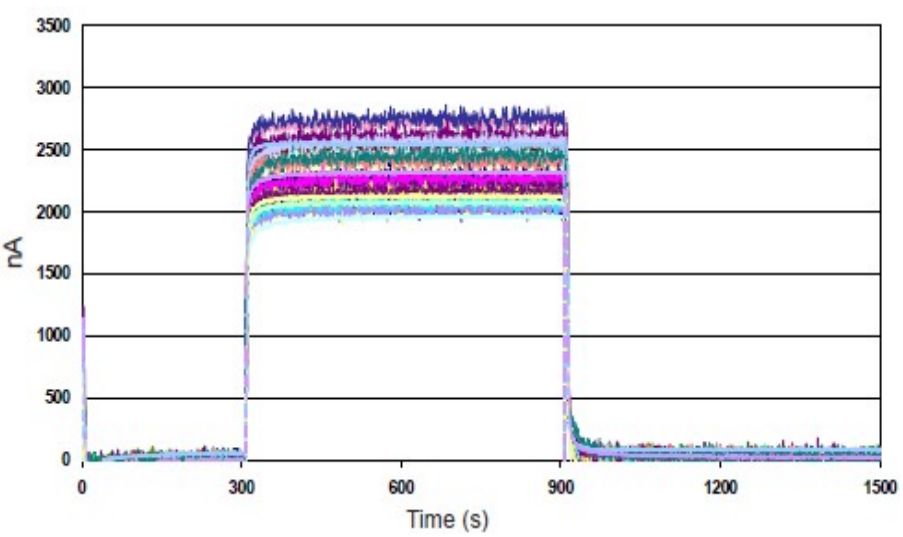


Figure 2 shows the change in zero point output caused by temperature changes, expressed as equivalent ppm values, with reference to the zero point at 20 ℃.

Data was taken from a typical batch of sensors.

Figure 3 Reaction $_2$ of 10ppm SO



As shown in Figure 3, the 64 typical batches of sensors responded quickly and reliably to 10ppm SO $_2$.

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