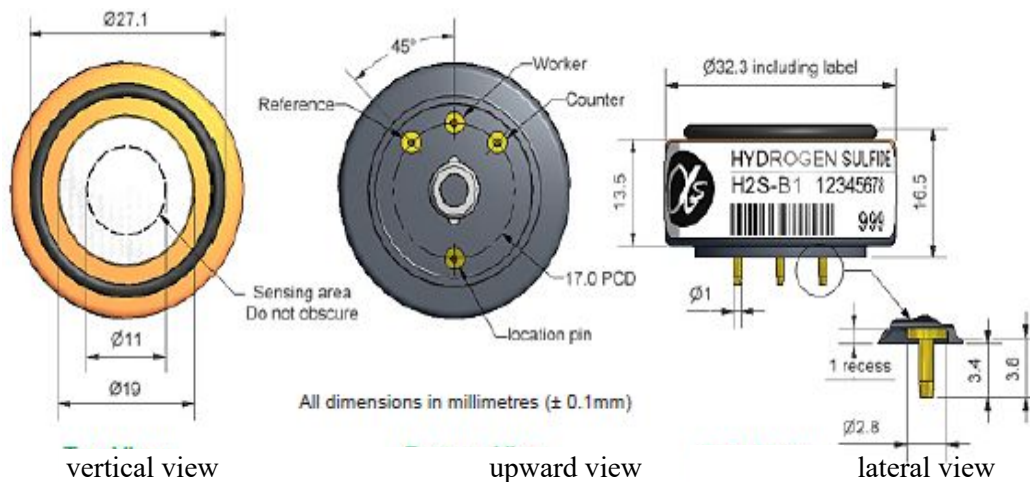


H2S-B1 Sulfur Dioxide Sensor



PATENTED

Figure 1 Schematic Diagram of H2S-B1



function	sensitivity	Sensitivity in 2 ₂ ppm H ₂ S (nA /ppm)	300~525
	reaction time	Time to t ₉₀ from zero to 20ppmH ₂ S (s)	< 55
	zero current	Equivalent ppm value of zero air	± 0.8
	resolution ratio	RMS noise (equivalent ppm value)	< 0.05
	scope	Measuring limits (ppm) that guarantee product performance	200
	degree of linearity	The ppm value of the full scale error is linear from 0 to 20ppm	1~5
	overload	Maximum ppm value of gas pulse stabilization reaction	500
life span	zero drift	Equivalent ppm values that change in the laboratory air from year to year	< 0.05
	sensitivity drift	Percentage change in laboratory air over the year, measured monthly	< 3
	working life	Number of months to which the output is reduced to 80% of the original signal (24 months guaranteed)	> 24
environment	-20°C sensitivity	At 20ppmH ₂ S, (output at -20°C/ output at 20°C)%	80~92
	Sensitivity at 50°C	At 20ppmH ₂ S, (output at 50°C/ output at 20°C)%	100~110
	-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	< 0~1.5
cross sensitivity	NO ₂	Gas sensitivity percentage ₂ measured at 10ppmNO	< -30
	Cl ₂	Gas sensitivity percentage measured at 10ppmCl ₂	< -25
	NO	Gas sensitivity percentage measured at 50ppmNO	< 35
	SO ₂	Gas sensitivity percentage ₂ at 20ppmSO	< 18
	CO	Gas sensitivity percentage measured at 400ppmCO	< 3
	H ₂	Gas sensitivity percentage measured at 400ppmH ₂	< 0.5
	C ₂ H ₄	Gas sensitivity percentage measured at 400ppmC ₂ H ₄	< 0.5
	NH ₃	Gas sensitivity percentage measured ₃ at 400ppmNH	< 0.1
CO ₂	Gas sensitivity percentage measured at 5%CO ₂	< 0.1	
key parameter	temperature range	°C	-30~50
	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 (recommend)	10~47
	weight	g	< 13

Figure 2 Sensitivity Temperature Characteristics

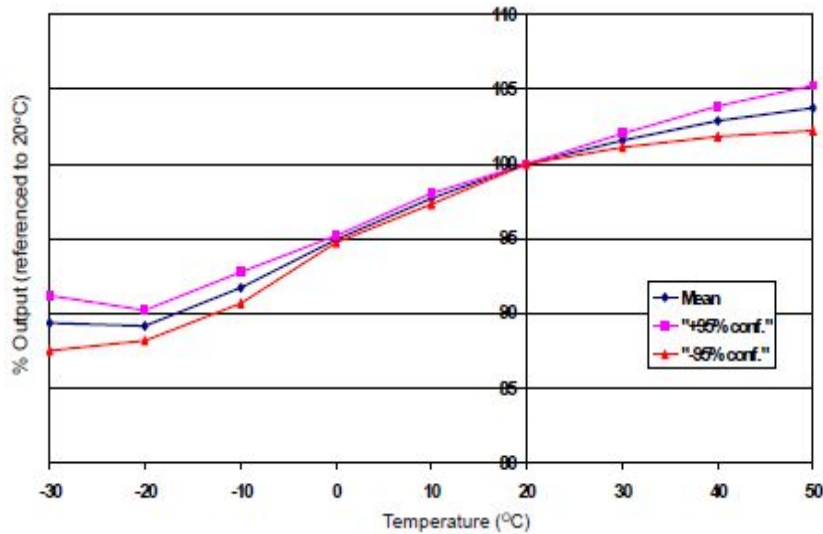


Figure 2 shows the change in sensor sensitivity caused by temperature changes.

Data was collected from typical batch sensors.

Figure 3 Zero Temperature Characteristics

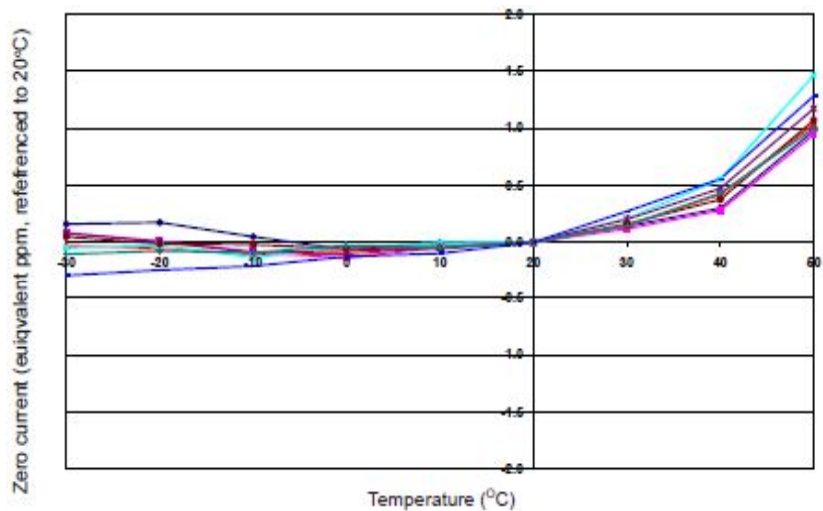
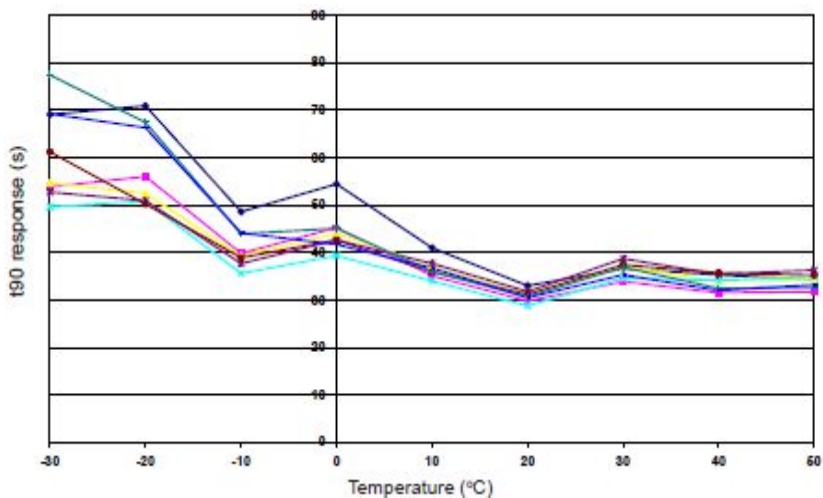


Figure 3 shows the change of zero output caused by temperature change, which is expressed as equivalent ppm value, with reference to the zero point at 20°C.

Data taken from a typical batch sensor.

Figure 4 Temperature Characteristics of Response Time



At low temperature, the response speed of electrochemical gas sensor is relatively slow.

The data source shown in Figure 4 is from the standard batch of sensors.

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