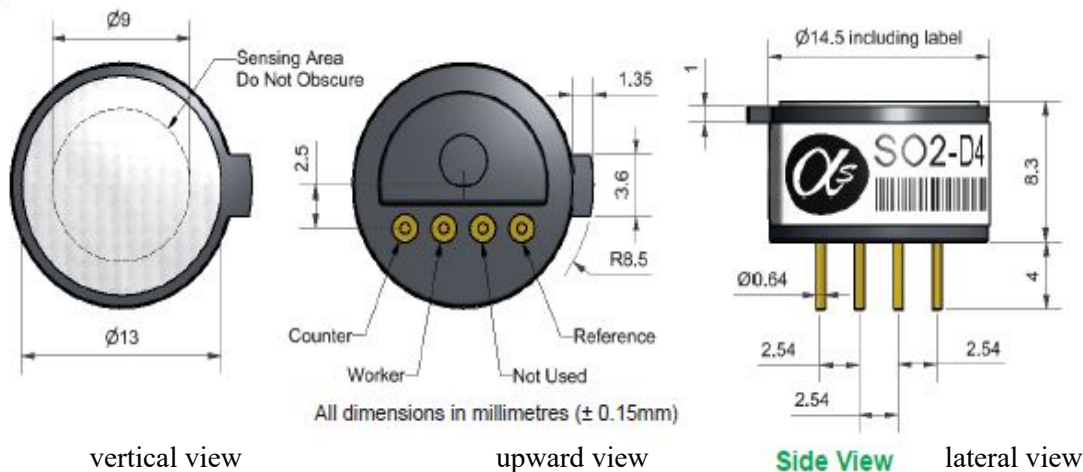


SO2-D4 Sulfur Dioxide

Sensor Micro



Figure 1 Schematic Diagram of SO2-D4



function	sensitivity	Sensitivity I_2 in 10ppmSO ₂ (nA/ppm)	180~420
	reaction time	Time t_2 to 90% from zero to 10ppmSO ₂ (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
environment	-20°C sensitivity	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
cross sensitivity	H ₂ S	Gas sensitivity percentage at 20ppmH ₂ S	< 400
	NO ₂	Gas sensitivity percentage I_2 at 10ppmNO	< -120
	Cl ₂	Sensitivity percentage of gas measured I_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 I_2 at 400ppmH	< 0.2
	C ₂ H ₄	Gas sensitivity percentage measured at 400ppm ₂ C ₄	< 15
	NH ₃	Percentage sensitivity of gas I_3 at 20ppmNH	< 0.1
CO ₂	10% CO ₂ gas sensitivity percentage measured	< 0.1	
key parameter	temperature range	°C	-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°C (to be kept in a sealed tank)	6
	load resistance	Ω (For optimized performance)	22
	weight	g	< 2

Figure 2 Sensitivity Temperature Characteristics

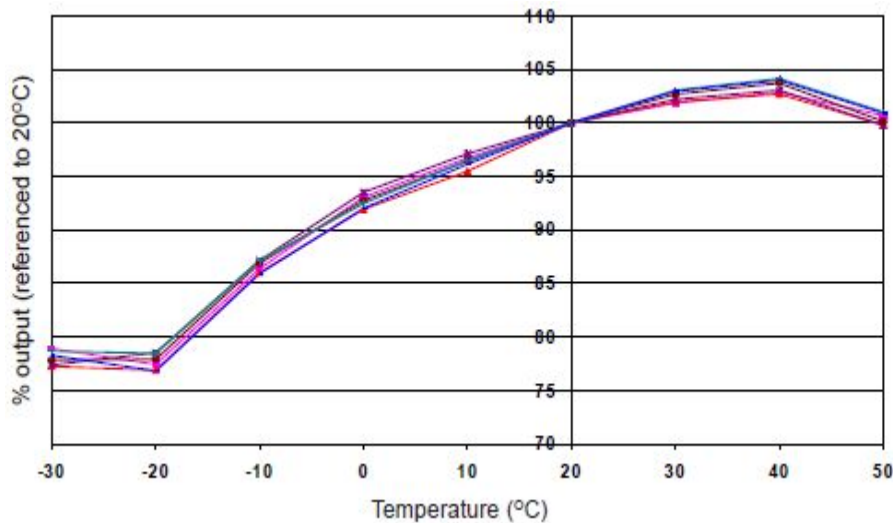


Figure 2 shows the change in sensor sensitivity caused by temperature changes.

Data was collected from typical batch sensors.

Figure 3 Zero Temperature Characteristics

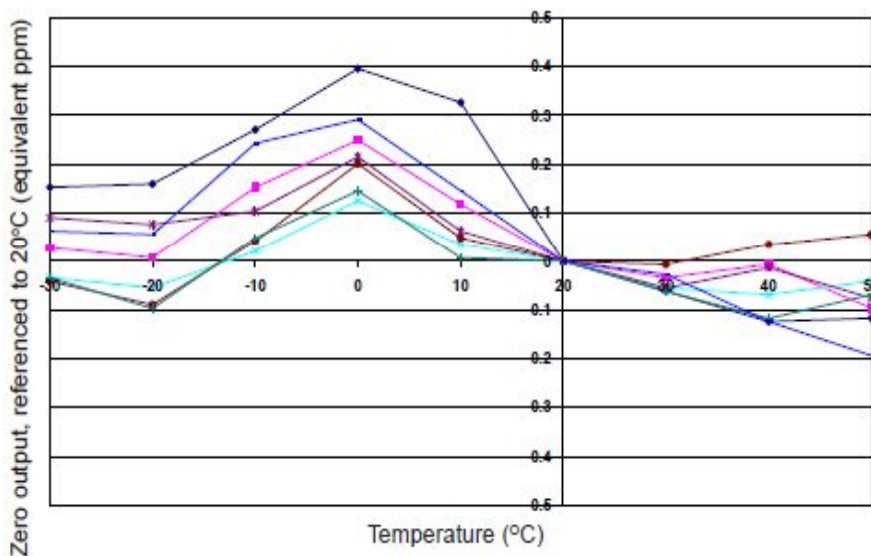
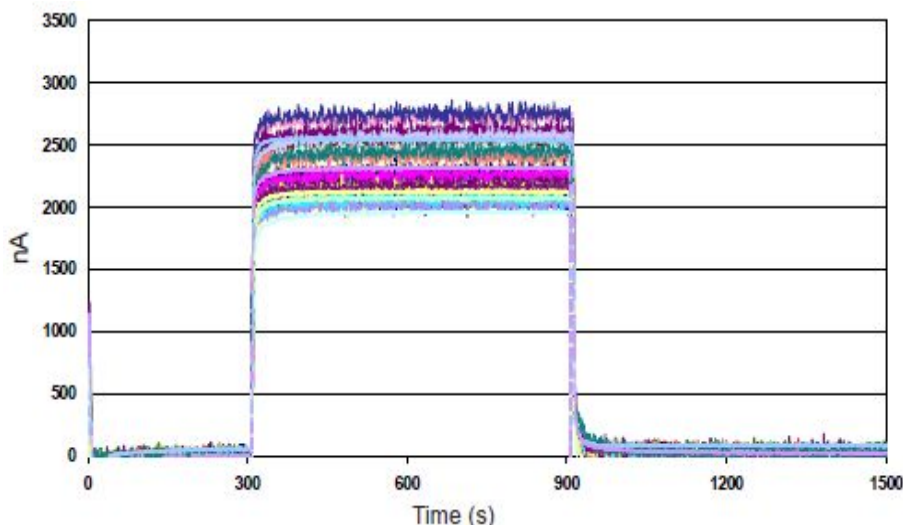


Figure 3 shows the change in zero point output caused by temperature changes, expressed as equivalent ppm values, with reference to the zero point at 20°C.

Data is taken from a typical batch of sensors.

Figure 4 Reaction ₂ of 10ppm SO



As shown in Figure 4, the 64 typical batches of sensors responded quickly and reliably to SO_2 at 10ppm.

深圳市杰晟兴电子有限公司 JM Components Limited

地址: 深圳市福田区中航路7号鼎诚国际大厦南座2007室
 手机: 13662266995 马少良 电话: 0755-83951311
 官网: cn-sensor.com

邮编: 518031
 传真: 0755-83952401
 电邮: jackson@jmcomponents.com