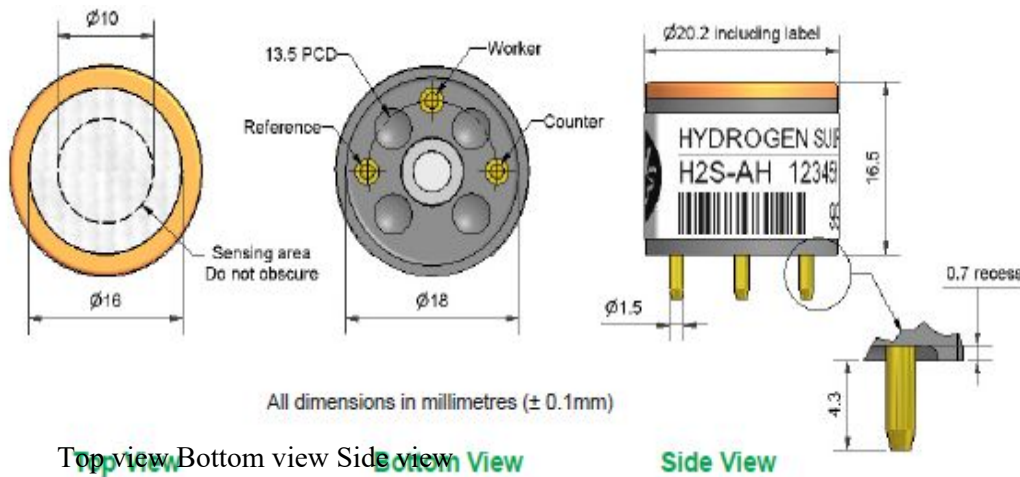


## H2S-AH Sulfur Dioxide Sensor High Sensitivity



Figure 1 Schematic Diagram of H2S-AH



function	sensitivity	Sensitivity in 2 <sub>2</sub> ppm H of H <sub>2</sub> S (nA /ppm)	900~1500
	reaction time	Time to t90 from zero to 20ppmH <sub>2</sub> S (s)	< 30
	zero current	Equivalent ppm value in zero air	< $\pm 0.2$
	resolution ratio	RMS noise (equivalent ppm value)	< 0.03
	scope	Measurable limit (ppm) that guarantees product performance	50
	degree of linearity	The ppm value of the full scale error is linear between 0 and 20ppm	0~-2.5
	overload	Maximum ppm value of gas pulse stabilization reaction	250
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	< 2
	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 <sub>2</sub> S, (output at -20°C/ output at 20°C)%	80~92
	Sensitivity at 50°C	At 20ppmH <sub>2</sub> S, (output at 50°C/ output at 20°C)%	100~110
	-20°C when zero point	Change in equivalent ppm values with reference to 0°C 20	< $\pm 0.5$
	50°C at zero point	Change in equivalent ppm values with reference to 0°C 20	< 0.5~-2
cross connection sensitivity	NO <sub>2</sub>	Percentage sensitivity measured at 10ppmNO <sub>2</sub>	< -30
	Cl <sub>2</sub>	Percentage sensitivity measured at 10ppmCl <sub>2</sub>	< -25
	NO	Percentage of sensitivity measured at 50ppmNO	< 2
	SO <sub>2</sub>	Percentage sensitivity <sub>2</sub> measured at 20ppmSO <sub>2</sub>	< 10
	CO	Percentage sensitivity measured at 400ppmCO	< 1.5
	H <sub>2</sub>	Percentage sensitivity <sub>2</sub> measured at 400ppmH <sub>2</sub>	< 0.15
	C <sub>2</sub> H <sub>4</sub>	Percentage sensitivity measured at 400ppmC <sub>2</sub> H <sub>4</sub>	< 0.15
	NH <sub>3</sub>	Percentage sensitivity <sub>3</sub> measured at 20ppmNH <sub>3</sub>	< 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	$\Omega$ ( recommend )	10~47
	weight	g	< 6