



Specification

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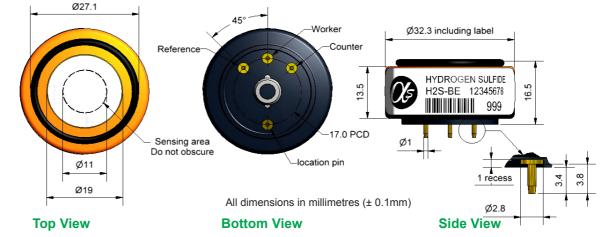
H2S-BE Hydrogen Sulfide Sensor

High Concentration



Figure 1 H2S-BE Schematic Diagram

PATENTED



PERFORMANCE	Sensitivity Response time Zero current Resolution Range Linearity Overgas limit	nA/ppm in 200ppm H_2S t_{90} (s) from zero to 200ppm H_2S ppm equivalent in zero air RMS noise (ppm equivalent) ppm H_2S limit of performance warranty ppm error at 2000ppm, linear at zero and 400ppm H_2S maximum ppm for stable response to gas pulse	80 to 115 < 50 < ± 3 < 0.5 2,000 < 30 10,000
LIFETIME	Zero drift Sensitivity drift Operating life	ppm equivalent change/year in lab air % change/year in lab air, monthly test months until 80% original signal (24 month warranted)	< 0.25 < 3 > 24
ENVIRONMENTA	Sensitivity @ -20°C	% (output @ -20°C/output @ 20°C) @ 200ppm % (output @ 50°C/output @ 20°C) @ 200ppm ppm equivalent change from 20°C	83 to 92 102 to 112 < ± 4

	Zero @ -20°C Zero @ 50°C	ero @ -20°C ppm equivalent change from 20°C		<pre>< ± 4</pre>
CROSS SENSITIVITY	NSITIVITY Cl ₂ sensitivity % measured gas @ 10ppm Cl ₂ NO sensitivity % measured gas @ 50ppm NO SO ₂ sensitivity % measured gas @ 20ppm SO ₂ CO sensitivity % measured gas @ 400ppm CO H ₂ sensitivity % measured gas @ 400ppm H ₂		CI ₂ NO SO ₂ CO	
KEY	NH ₃ sensitivity Temperature range	% measured gas @ 20ppm	3	-30 to 50

KEY SPECIFICATIONS	Temperature range	°C kPa	-30 to 50 80 to 120
0. 2010.110.110	Humidity range	% rh continuous	15 to 90
	Storage period	months @ 3 to 20°C (stored in sealed pot)	6
	Load resistor	Ω (recommended)	10 to 47
	Weight	g	< 13



At the end of the product's life, do not dispose of any electronic sensor, component or instrument in the domestic waste, but contact the instrument manufacturer, Alphasense or its distributor for disposal instructions.

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H2S-BE Performance Data

Figure 2 Sensitivity Temperature Dependence

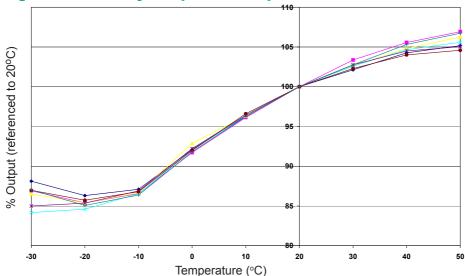


Figure 2 shows the variation in sensitivity caused by changes in temperature.

This data is taken from a typical batch of sensors.

Figure 3 Zero Temperature Dependence

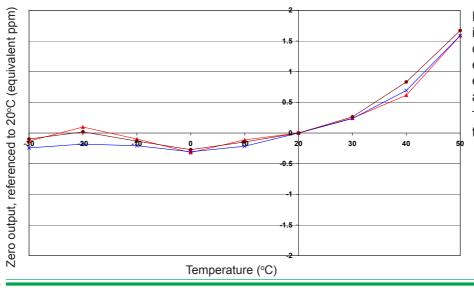
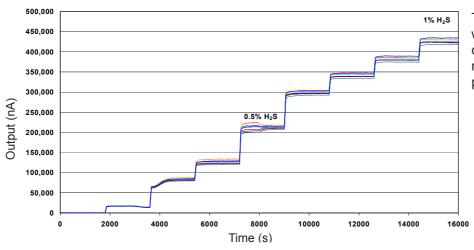


Figure 3 shows the variation in zero output caused by changes in temperature, expressed as ppm gas equivalent, referenced to zero at 20°C.

This data is taken from a typical batch of sensors.

Figure 4 Response to high concentations



This sensor is built to withstand periodic high concentrations of H₂S and recover without changing performance.

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