

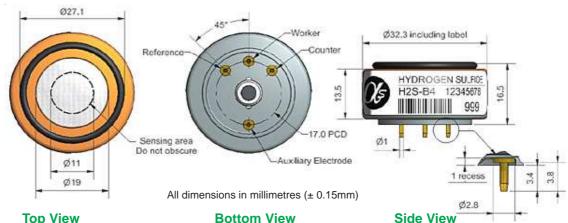


Specification

H2S-B4 Hydrogen Sulfide Sensor 4-Electrode



Figure 1 H2S-B4 Schematic Diagram



Top View		Bottom View	Side View	7.
PERFORMANCE	Sensitivity Response time Zero current Noise* Range Linearity Overgas limit * Tested with Alpha	nA/ppm at 2ppm H ₂ S t ₉₀ (s) from zero to 2ppm H nA in zero air at 20°C ±2 standard deviations (pp ppm H ₂ S limit of performan ppb error at full scale, linea maximum ppm for stable re	1450 to 2150 < 55 -250 to 200 1 100 < ±4 200	
LIFETIME	Zero drift Sensitivity drift Operating life	ppb equivalent change/yea % change/year in lab air, m months until 50% original s		< ±100 < 20 > 24
ENVIRONMENTAL		o o		77 to 90 100 to 110 50 to 60 -120 to -160
CROSS SENSITIVITY	CI ₂ sensitivity % NO sensitivity % SO ₂ sensitivity % CO sensitivity % H ₂ sensitivity %	6 measured gas @ 5ppm 6 measured gas @ 100ppm 6 measured gas @ 100ppm		< -10 < -12 < 12 < 20 < 3 < 0.5 < 0.1

KEY	Temperature range°C	-30 to 50
	CO ₂ sensitivity % measured gas @ 5% CO ₂	< 0.1
	NH ₃ sensitivity % measured gas @ 20ppm NH ₃	< 0.1
	C ₂ H ₄ sensitivity % measured gas @ 100ppm C ₂ H ₄	< 0.1
	H ₂ sensitivity % measured gas @ 100ppm H ₂	< 0.5
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KEY	remperature range*C		-30 to 50
SPECIFICATIONS	Pressure range	kPa	80 to 120
	Humidity range	% rh	15 to 90

months @ 3 to 20°C (stored in sealed pot) Storage period Load resistor Ω (ISB circuit is recommended) 33 to 100 Weight < 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.

NOTE: all sensors are tested at ambient environmental conditions, with 47 ohm load resistor, unless otherwise stated. As applications of use are outside our control, the information provided is given without legal responsibility. Customers should test under their own conditions, to ensure that the sensors are suitable for their own requirements.

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Specification

H2S-B4 Performance Data

Figure 2 Sensitivity Temperature Dependence

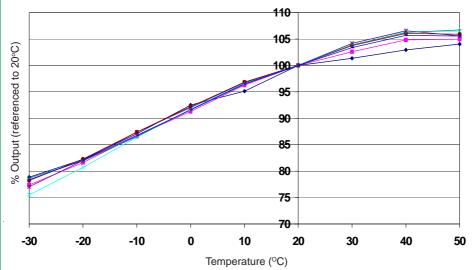


Figure 2 shows the temperature dependence of sensitivity at 2ppm H₂S.

This data is taken from a typical batch of sensors.

Figure 3 Zero Temperature Dependence

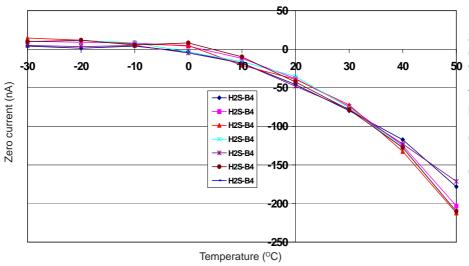


Figure 3 shows the variation in zero output of the working electrode caused by changes in **50** temperature, expressed as nA.

This data is taken from a typical batch of sensors.

Contact Alphasense for futher information on zero current correction.

Figure 4 Linearity to 200 ppb H₂S

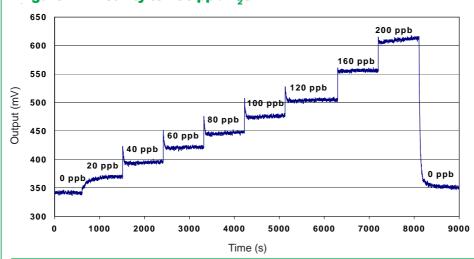


Figure 4 shows response to 200ppb H₂S.

Use of Alphasense ISB circuit reduces noise to 1ppb, with the opportunity of digital smooting to reduce noise even further

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