

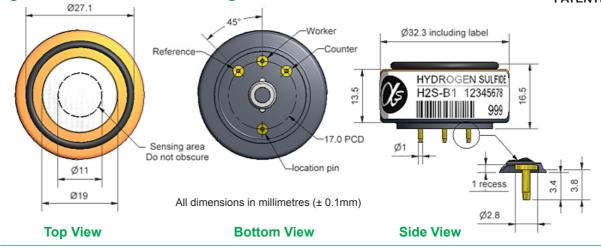
H2S-B1 Hydrogen Sulfide Sensor



Specification

Figure 1 H2S-B1 Schematic Diagram

PATENTED



PERFORMANCE	Sensitivity Response time Zero current Resolution Range Linearity Overgas limit	nA/ppm in 20ppm H ₂ S t ₉₀ (s) from zero to 20ppm H ₂ S ppm equivalent in zero air RMS noise (ppm equivalent) ppm H ₂ S limit of performance warranty ppm error at full scale, linear at zero and 20ppm H ₂ S maximum ppm for stable response to gas pulse	300 to 450 < 55 ± 0.8 < 0.05 200 1 to -5 500
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)	< 0.05 < 3 > 24

ENVIRONMENTAL	Sensitivity @ -20°C	% (output @ -20°C/output @ 20°C) @ 20ppm	80 to 92
	Sensitivity @ 50°C	% (output @ 50°C/output @ 20°C) @ 20ppm	100 to 110
	Zero @ -20°C	ppm equivalent change from 20°C	$< \pm 0.5$
	Zero @ 50°C	ppm equivalent change from 20°C	< 0 to 1.5

CROSS	NO ₂ sensitivity % measured gas @ 10ppm	NO_2	< -30
SENSITIVITY	Cl ₂ sensitivity % measured gas @ 10ppm	Cl ₂	< -25
	NO sensitivity % measured gas @ 50ppm	NÕ	< 35
	SO ₂ sensitivity % measured gas @ 20ppm	SO ₂	< 18
	CO sensitivity % measured gas @ 400ppm	CO	< 3
	H ₂ sensitivity % measured gas @ 400ppm	H_2	< 0.5
	C ₂ H ₄ sensitivity % measured gas @ 400ppm	C_2H_4	< 0.5
	NH ₃ sensitivity % measured gas @ 400ppm		< 0.1
	CO sensitivity % measured gas @ 5%	CO	< 0.1

KEY	Temperature range	°C	-30 to 50
SPECIFICATIONS	Pressure range	kPa	80 to 120
	Humidity range	% rh	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.

NOTE: all sensors are tested at ambient environmental conditions, with 10 ohm load resistor, unless otherwise stated. As applications of use are outside our control, the

Apollosense Ltd

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Adress: Room 712, Huaneng Building, Shennan Zhong Road, Shenzhen 518031,

Tel: (86-755) 83680810 83680820 83680830 83680860 Fax: (86-755) 83680866

Hong Kong:

Adress: Unit 1502, Hollywood Plaza, 610 Nathan Road, Mong Kok, Kln., H.K.

Tel: (852) 2737 0903 Fax: (852) 2737 0938 Email: sales@apollounion.com



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H2S-B1 Performance Data

Figure 2 Sensitivity Temperature Dependence

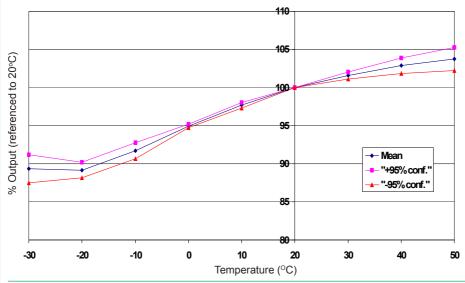


Figure 2 shows the variation in sensitivity caused by changes in temperature.

This data is taken from a typical batch of sensors.

Figure 3 Zero Temperature Dependence

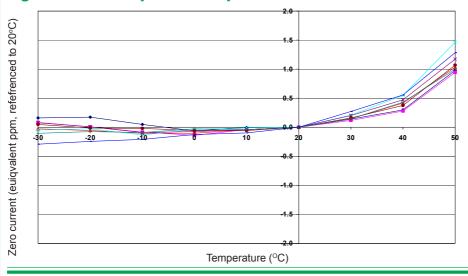
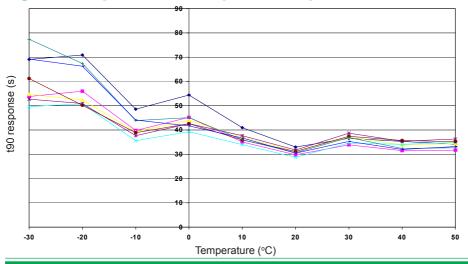


Figure 3 shows the variation in zero output caused by changes in temperature, expressed as ppm gas equivalent, referenced to zero at 20°C.

This data is taken from a typical batch of sensors.

Figure 4 Response Time Temperature Dependence



Electrochemical gas cells respond slower at lower temperatures.

Results are from a standard batch of sensors.

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