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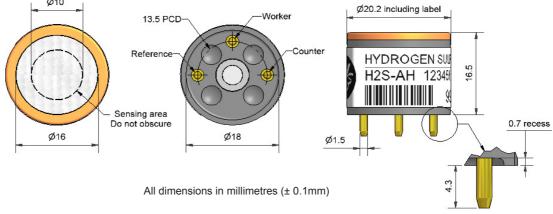
H2S-AH Hydrogen Sulfide Sensor

High Sensitivity



80 to 92

Figure 1 H2S-AH Schematic Diagram



Гор View	Bottom View	Side View

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	950 to 1450 < 30 < ± 0.2 < 0.03 50 0 to -2.5 250
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 < 2 > 24

Sensitivity @ -20°C % (output @ -20°C/output @ 20°C) @ 20ppm

ENVIRONMENTAL

Sensitivity @ 50°C % (output @ 50°C/output @ 20°C) @ 20ppm Zero @ -20°C ppm equivalent change from 20°C Zero @ 50°C ppm equivalent change from 20°C		20°C	100 to 110 < ± 0.5 < 0.5 to -2	
_	ensitivity	% measured gas @ 10ppm	NO ₂	< -30
	ensitivity	% measured gas @ 10ppm	Cl ₂	< -25

CROSS	NO ₂ sensitivity	% measured gas @ 10ppm	NO ₂	< -30
SENSITIVITY	Cl ₂ sensitivity	% measured gas @ 10ppm	Cl ₂	< -25
	NŌ sensitivity	% measured gas @ 50ppm	NŌ	< 2
	SO ₂ sensitivity	% measured gas @ 20ppm	SO_2	< 10
	CO sensitivity	% measured gas @ 400ppm	CO	< 1.5
	H ₂ sensitivity	% measured gas @ 400ppm	H_2	< 0.15
	C ₂ H ₄ sensitivity	% measured gas @ 400ppm	$C_2^-H_4$	< 0.15
	NH ₃ sensitivity	% measured gas @ 20ppm	$N\overline{H}_3$	< 0.1

KEY SPECIFICATIONS

Temperature range	°C	-30 to 50
Pressure range	kPa	80 to 120
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	q	< 6



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 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.

H2S-AH Performance Data

Figure 2 Sensitivity Temperature Dependence

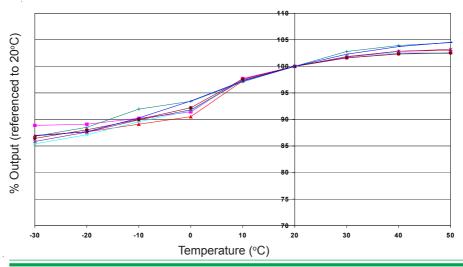


Figure 2 shows the variation in sensitivity caused by changes in temperature.

This data is taken from a typical batch of sensors.

Figure 3 Zero Temperature Dependence

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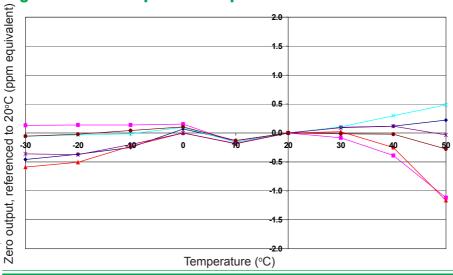


Figure 3 shows the variation in zero output caused by changes in temperature, expressed as ppm gas equivalent, referenced to zero at 20°C.

This data is taken from a typical batch of sensors.

Figure 4 Sensitivity Long Term Stability

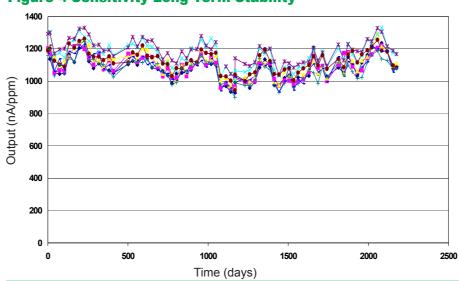


Figure 4 shows the excellent long term stability of the sensitivity of the H2S-AH resulting from the combination of patented design, superior electrochemistry and automated

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