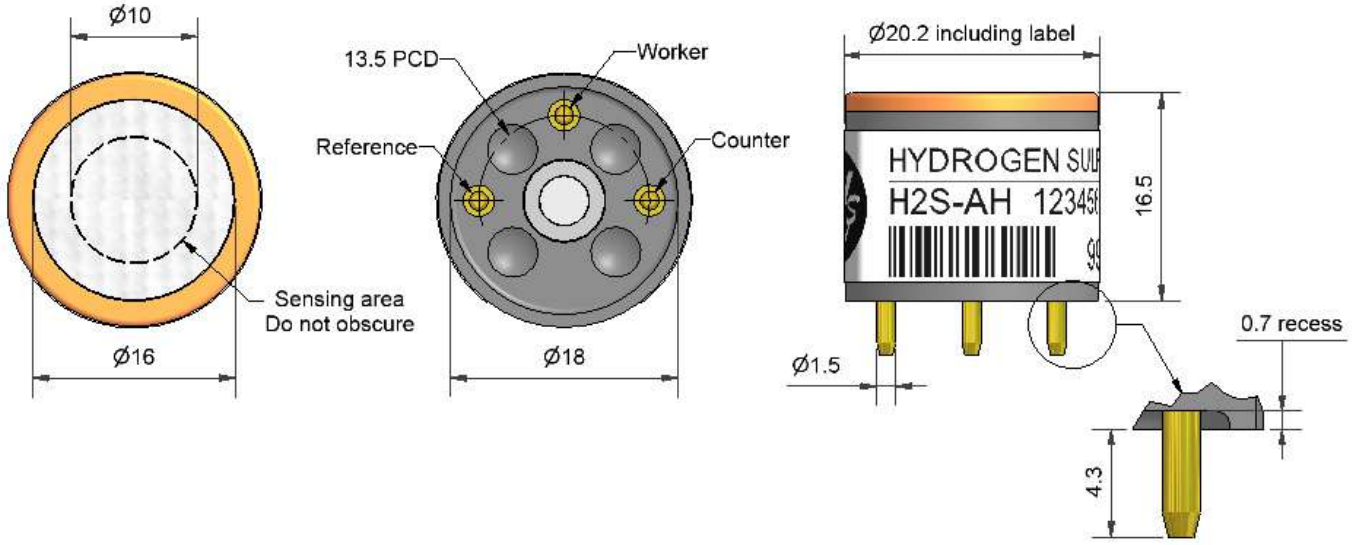
ЗАКАЗАТЬ: H2S-AH сенсор сероводорода 0-50 ppm

H2S-AH Hydrogen Sulfide Sensor – High Sensitivity



Top View **Bottom View** **Side View**

Dimensions are in millimetres (± 0.15 mm).

Sensor Data

Performance	Sensitivity	nA/ppm in 20ppm H_2S		900 to 1500
	Response time	t90 (s) from zero to 20ppm H_2S		< 30
	Zero current (typical)	ppm equivalent in zero air		< ± 0.2
	Resolution	RMS noise (ppm equivalent)		< 0.03
	Range	ppm H_2S limit of performance warranty		50
	Linearity	ppm error at full scale, linear at zero and 20ppm H_2S		0 to -2.5
	Overgas limit	H_2S maximum ppm for stable response to gas pulse		250
Lifetime	Zero drift	ppm equivalent change/year in lab air		< 0.05
	Sensitivity drift	% change/year in lab air, monthly test		< 2
	Operating life	months until 80% original signal (24-month warranted)		> 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		< ± 0.5
	Zero @ 50°C	ppm equivalent change from 20°C		< 0.5 to -2
Cross Sensitivity	NO_2 sensitivity	% measured gas @ 10ppm	NO_2	< -30
	Cl_2 sensitivity	% measured gas @ 10ppm	Cl_2	< -25
	NO sensitivity	% measured gas @ 50ppm	NO	< 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_2H_4 sensitivity	% measured gas @ 400ppm	C_2H_4	< 0.15
	NH_3 sensitivity	% measured gas @ 20ppm	NH_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	g		< 6

Figure 1 Sensitivity Temperature Dependence

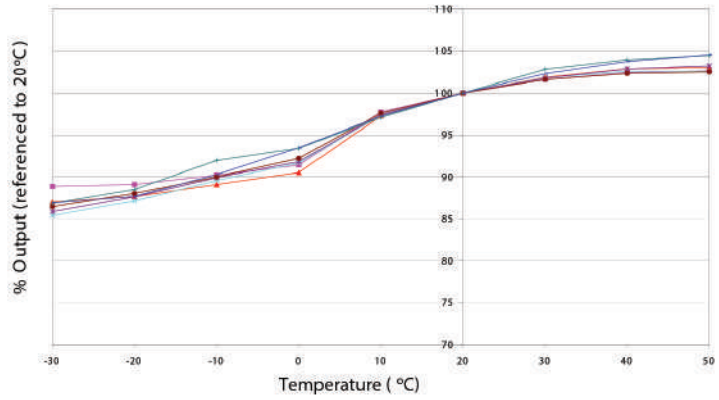


Figure 1 shows the variation of sensitivity caused by changes in temperature.

This data is taken from a typical batch of sensors.

Figure 2 Zero Temperature Dependence

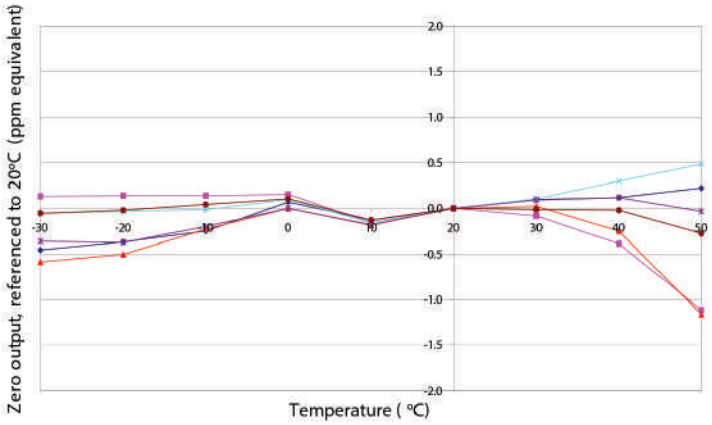


Figure 2 shows the variation in zero output caused by changes in temperature, expressed as ppm gas equivalent, referenced to zero at 20°C.

This data is taken from a typical batch of sensors.

Figure 3 Sensitivity Long-term Stability

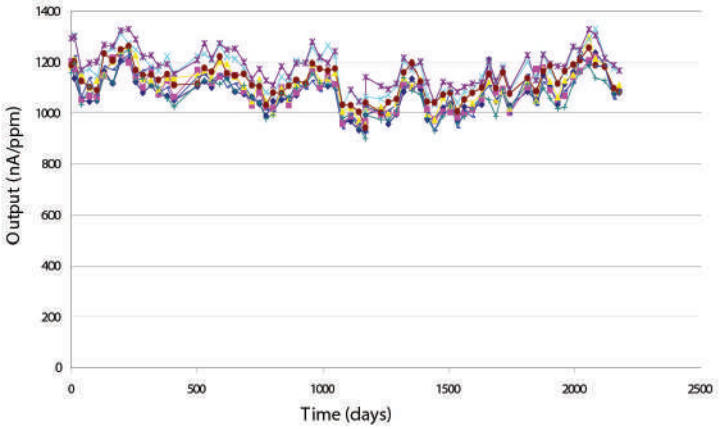


Figure 3 shows the excellent long-term stability of the sensitivity of the H2S-AH resulting from the combination of patented design, superior electrochemistry and automated.

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 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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