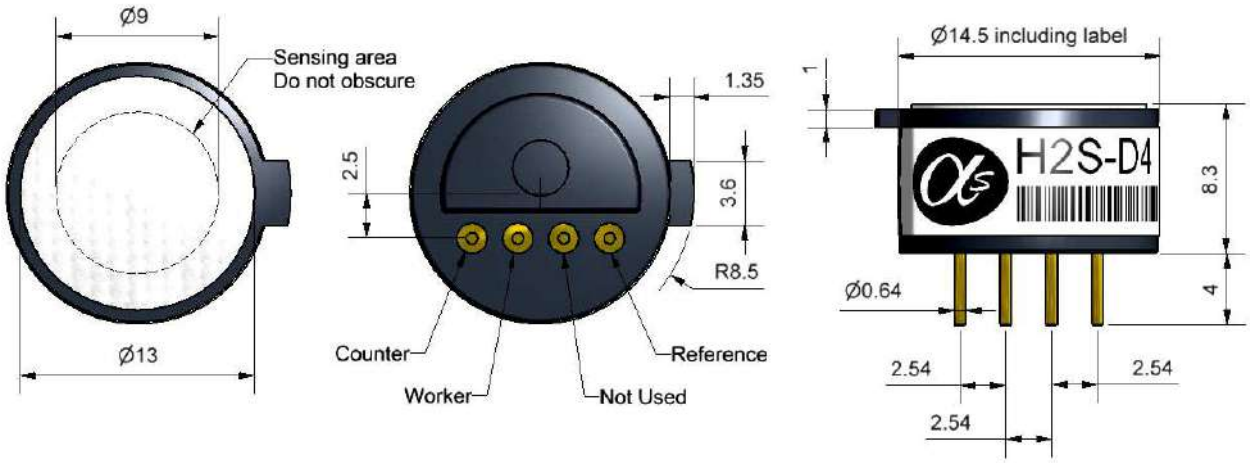
ЗАКАЗАТЬ: H2S-D4 сенсор сероводорода 0-100 ppm

H2S-D4 Hydrogen Sulfide Sensor – Miniature Size



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

Dimensions are in millimetres (± 0.1 mm). A three pin version is available on request, coded H2S-D1.

Performance	Sensitivity	nA/ppm 20ppm H_2S		110 to 170
	Response time	t90 (s) from zero to 20ppm H_2S		< 25
	Zero current	ppm equivalent in zero air		< ± 1
	Resolution	RMS noise (ppm equivalent)		< 0.2
	Range	ppm H_2S limit of performance warranty		100
	Linearity	ppm error at full scale, linear at zero and 20ppm H_2S		< ± 6
	Overgas limit	maximum ppm for stable response to gas pulse		200
Lifetime	Zero drift	ppm equivalent change/year in lab air		< 0.2
	Sensitivity drift	% change/year in lab air, monthly test		< 3
	Operating life	months until 80% original signal (24-month warranted)		> 18
Environmental	Sensitivity @ -20°C	% (output @ -20°C/output @ 20°C) @ 20ppm		75 to 90
	Sensitivity @ 50°C	% (output @ 50°C/output @ 20°C) @ 20ppm		103 to 112
	Zero @ -20°C	ppm equivalent change from 20°C		< -0.3 to 0.2
	Zero @ 50°C	ppm equivalent change from 20°C		< ± 1
Cross Sensitivity	NO_2 sensitivity	% measured gas @ 10ppm	NO_2	< -25
	Cl_2 sensitivity	% measured gas @ 10ppm	Cl_2	< -25
	NO sensitivity	% measured gas @ 50ppm	NO	< 12
	SO_2 sensitivity	% measured gas @ 20ppm	SO_2	< 20
	CO sensitivity	% measured gas @ 400ppm	CO	< 2.5
	H_2 sensitivity	% measured gas @ 400ppm	H_2	< 0.5
	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 (see note below)		15 to 90
	Storage period	months @ 3 to 20°C (stored in sealed pot)		6
	Load resistor	Ω (recommended)		10 to 47
	Weight	g		< 2

Figure 1 Sensitivity Temperature Dependence

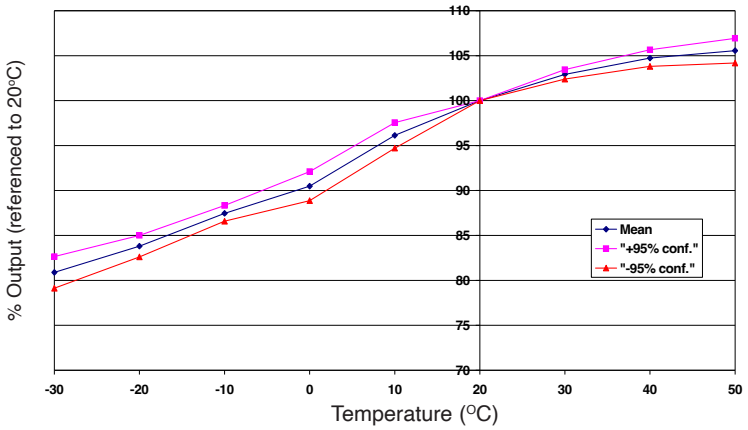


Figure 1 shows the mean and ±95% confidence intervals for the variation in sensitivity caused by changes in temperature.

The repeatable temperature dependence ranges from -30 to +50°C allows more accurate temperature.

Figure 2 Zero Temperature Dependence

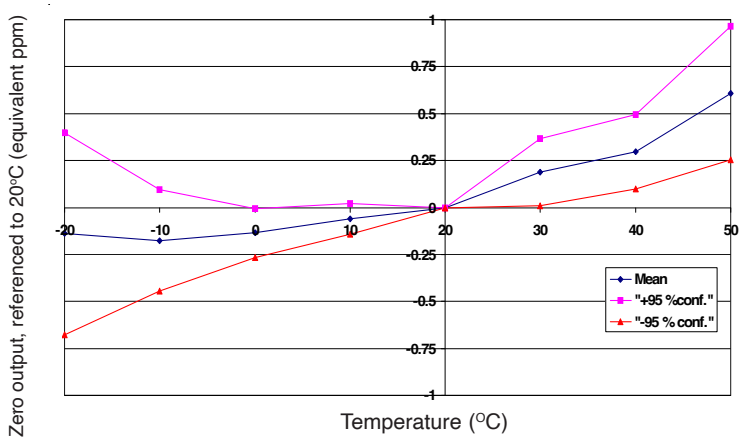


Figure 2 shows the variation in zero output caused by changes in temperature, expressed as ppm gas equivalent, referenced to zero at 20°C.

This data is taken from a typical batch of sensors. The mean and ± 95% confidence intervals are shown.

Figure 3 Sensitivity Long-term Stability

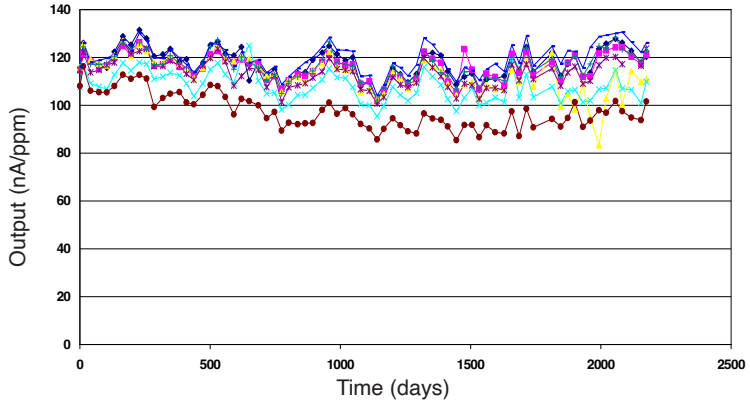


Figure 3 shows the long-term stability of the H2S-D4 sensitivity in ambient air.

Continuous use at low humidities may reduce sensitivity.

Note: Above 85% rh and 40°C a maximum continuous exposure period of 10 days is warranted. Where such exposure occurs the sensor will recover normal electrolyte volumes when allowed to rest at lower % rh and temperature levels for several days.

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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