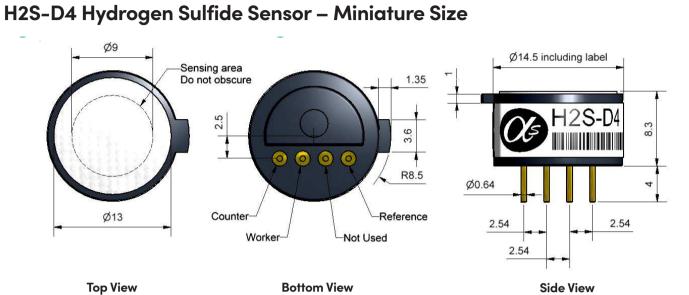


Technical specifications Version 1.0



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

Performance	Sensitivity Response time Zero current Resolution Range Linearity Overgas limit	nA/ppm 20ppm H ₂ S t90 (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	110 to 170 < 25 < ± 1 < 0.2 100 < ± 6 200
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 warrante	< 0.2 < 3 d) > 18
Environmental	Sensitivity @ -20°C Sensitivity @ 50°C Zero @ -20°C Zero @ 50°C	% (output @ -20°C/output @ 20°C) @ 20ppm % (output @ 50°C/output @ 20°C) @ 20ppm ppm equivalent change from 20°C ppm equivalent change from 20°C	75 to 90 103 to 112 < -0.3 to 0.2 < ± 1
Cross Sensitivity	NO ₂ sensitivity Cl ₂ sensitivity NO sensitivity SO ₂ sensitivity CO sensitivity H ₂ sensitivity C ₂ H ₄ sensitivity NH ₃ sensitivity	% measured gas @ 10ppm NO2 % measured gas @ 10ppm CI2 % measured gas @ 50ppm NO % measured gas @ 20ppm SO2 % measured gas @ 400ppm CO % measured gas @ 400ppm H2 % measured gas @ 400ppm C2H4 % measured gas @ 20ppm NH3	< -25 < -25 < 12 < 20 < 2.5 < 0.5 < 0.15 < 0.1
Key Specifications	Temperature range Pressure range Humidity range Storage period Load resistor Weight	°C kPa % rh (see note below) months @ 3 to 20°C (stored in sealed pot) Ω (recommended) g	-30 to 50 80 to 120 15 to 90 6 10 to 47 < 2

Figure 1 Sensitivity Temperature Dependence

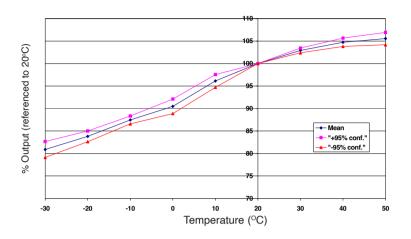


Figure 1 shows the mean and ±95% confidence intervals for the variation in sensitivity caused by changes in temperature.

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

Figure 2 Zero Temperature Dependence

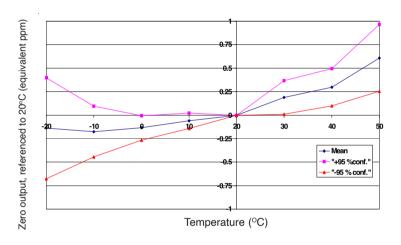


Figure 2 shows the variation in zero output caused by changes in temperature, expressed as ppm gas equivalent, referenced to zero at 20°C.

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

Figure 3 Sensitivity Long-term Stability

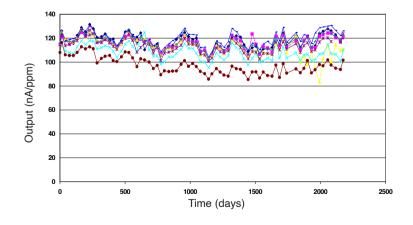


Figure 3 shows the long-term stability of the H2S-D4 sensitivity in ambient air.

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.

In the interest of continued product improvement, we reserve the right to change design features and specifications without prior notification. The data contained in this document is for guidance only. Alphasense Ltd accepts no liability for any consequential losses, injury or damage resulting from the use of this document or the information contained within.(@ALPHASENSE LTD) Doc. Ref. H2S-D4/SEP22