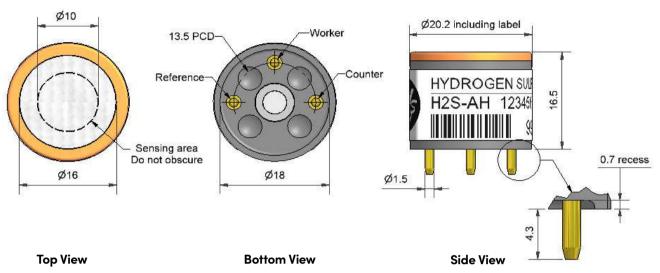


Technical specifications Version 1.0

H2S-AH Hydrogen Sulfide Sensor – High Sensitivity



Dimensions are in millimetres (± 0.1 mm).

Performance	Sensitivity Response time Zero current Resolution Range Linearity Overgas limit	nA/ppm in 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 2 H ₂ S maximum ppm for stable response to g	
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	< 0.05 < 2 a warranted) > 24
Environmental	Sensitivity @ -20°C Sensitivity @ 50°C Zero @ -20°C Zero @ 50°C	% (output @ -20°C/output @ 20°C) @ 20pp % (output @ 50°C/output @ 20°C) @ 20pp ppm equivalent change from 20°C ppm equivalent change from 20°C	
Cross-sensitivity	NO_2 sensitivity CI_2 sensitivity NO sensitivity SO_2 sensitivity CO sensitivity C_2H_4 sensitivity C_2H_3 sensitivity C_3H_3 sensitivity	% measured gas @ 10ppm NO_2 % measured gas @ 10ppm Cl_2 % measured gas @ 50ppm NO % measured gas @ 20ppm SO_2 % measured gas @ 400ppm CO % measured gas @ 400ppm H_2 % measured gas @ 400ppm $\operatorname{C}_2\operatorname{H}_4$ % measured gas @ 20ppm NH_3	< -30 < -25 < 2 < 10 < 1.5 < 0.15 < 0.15 < 0.1
Key Specifications	Temperature range Pressure range Humidity range Storage period Load resistor Weight	°C kPa % rh continuous 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 < 6

Figure 1 Sensitivity Temperature Dependence

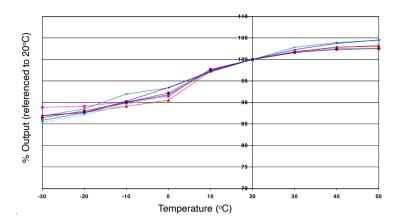


Figure 1 shows the variation in sensitivity caused by changes in temperature.

This data is taken from a typical batch of sensors.

Figure 2 Zero Temperature Dependence

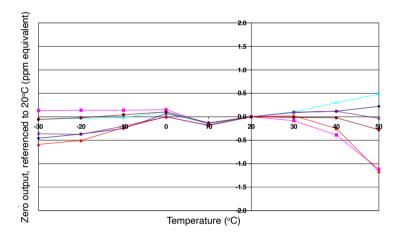


Figure 2 shows the variation in zero output caused by changes in temperature, expressed as ppm gas equivalent, referenced to zero at 20°C.

This data is taken from a typical batch of sensors.

Figure 3 Sensitivity Long-term Stability

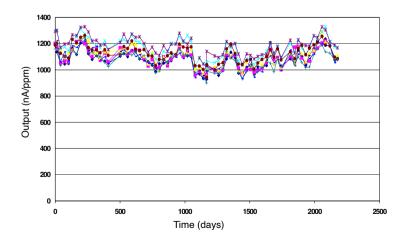


Figure 3 shows the excellent long-term stability of the sensitivity of the H2S-AH resulting from the combination of patented design, superior electrochemistry and automated.

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.

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-AH/SEP22