

Introduction The GS+4H2S 300 is a world leading premium industrial H₂S sensor with extended measurement range, suitable for portable and fixed gas detectors.

Key Features: High stability, fast response and recovery, robust environment performance, low cross sensitivity to methanol.

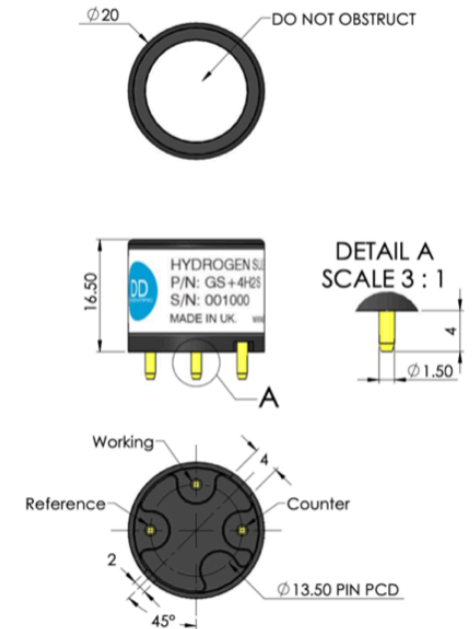
Performance Characteristics	
Output signal	460 ± 140 nA / ppm
Typical Baseline Range (pure air)	±200nA
T90 Response Time	< 30 seconds
Measurement Range	0 - 300 ppm
Maximum Overload	500 ppm
Linearity	0-300ppm <2% 300-500ppm <10%
Repeatability	< ±2% H2S equivalent
Recommended Load Resistor	10 ohms
Resolution (Electronics dependent)	< 0.1 ppm typical

Environmental Details	
Temperature Range Continuous	-30°C to +50°C
Pressure Range	800 to 1200 mbar
Operating Humidity Range	15% to 90% RH

Important Note:

All performance data is based on conditions at 20°C, 50%RH and 1 atm, using DD Scientific recommended circuitry.

Sensor performance is temperature dependent, and please contact DD Scientific for temperature performance other than 20°C.

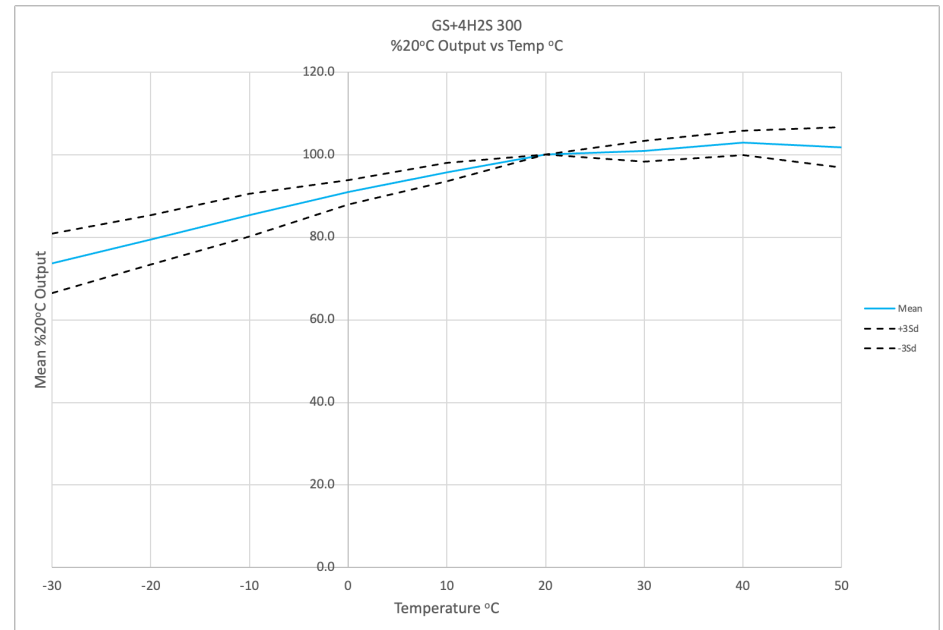


Product Dimensions
All dimensions in mm
All tolerances ±0.15 mm

Lifetime Details	
Long Term Output Drift	< 10% per annum
Recommended Storage Temp	0°C to 20°C
Expected Operating Life	> 24 months in air
Standard Warranty	24 months from date of dispatch

Cross - Sensitivity Data		
GAS	CONC.	GS+4H2S 300
Carbon Monoxide	200 ppm	±0.2 ppm
Sulphur dioxide	20 ppm	<2ppm
Nitrogen Dioxide	20 ppm	~ -5ppm
Nitric Oxide	50 ppm	<0.5ppm
Ammonia	50 ppm	0ppm
Hydrogen	100 ppm	0ppm

Intrinsic Safety Data	
Maximum at 500 ppm	<0.5 mA
Maximum o/c Voltage	1.3 V
Maximum s/c Current	<1.0 A



Poisoning:

DD Scientific sensors are designed to operate in a wide range of harsh environments and conditions. However, it is important that exposure to high concentrations of solvent vapours is avoided, both during storage, fitting into instrument and operation. When using sensors on printed circuit boards (PCB's), degreasing agents should be used prior to the sensor being fitted.

Please note gluing or soldering direct to the pins of DD Scientific Ltd gas sensors will void warranty, please use PCB sockets when connecting DD Scientific sensors.

WARNING: By the nature of the technology used, any electrochemical gas sensor offered by DD Scientific can potentially fail to meet specification without warning. Although DD Scientific Ltd makes every effort to ensure the reliability of our products of this type, where life safety is a performance requirement of the product, we recommend that all sensors and instruments using these sensors are checked for response to gas before use.

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