

Introduction The GS+7H2S HC is a world leading premium industrial H₂S sensor, ideal for applications in high concentration applications

Key Features: High measurement range, high stability, fast response and recovery

Performance Characteristics

Output signal	40 ± 20 nA / ppm
Typical Baseline Range (pure air)	<±1 ppm H ₂ S equivalent
T90 Response Time	< 40 seconds
Measurement Range	0 - 5000 ppm
Maximum Overload	10000 ppm
Linearity <small>(Measurement range)</small>	Linear
Repeatability	< ±1% H ₂ S equivalent
Recommended Load Resistor	10 ohms
Resolution <small>(Electronics dependent)</small>	< 1.0 ppm typical

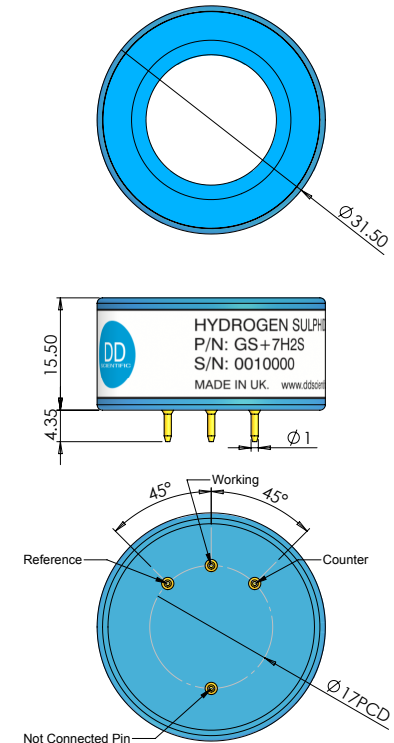
Environmental Details

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.



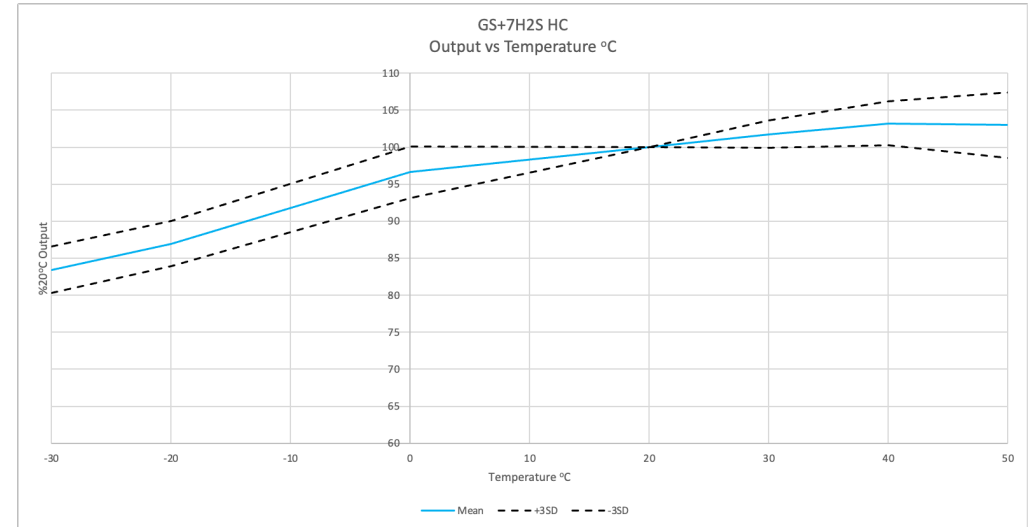
Product Dimensions
All dimensions in mm
All tolerances ±0.15 mm

Lifetime Details

Long Term Output Drift	< 2%/month
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+7H2S HC
Carbon Monoxide	200 ppm	<10 ppm
Sulphur dioxide	20 ppm	<3 ppm
Nitrogen Dioxide	20 ppm	-3ppm
Nitric Oxide	50 ppm	<0.5 ppm
Hydrogen	200 ppm	<1ppm
Chlorine	1 ppm	0 ppm
Ethylene	100 ppm	0 ppm
Carbon Dioxide	5000 ppm	0 ppm



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.

Intrinsic Safety Data

Maximum at 2000 ppm	0.3 mA
Maximum o/c Voltage	1.3 V
Maximum s/c Current	<1.0 A

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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