

**Introduction** The GS+7H2SDC is a market leading premium industrial H<sub>2</sub>S sensor, ideal for fixed gas detectors and designed for high temperature operation.

**Key Features:** High stability, fast response and recovery, able to withstand high temperature for extended periods

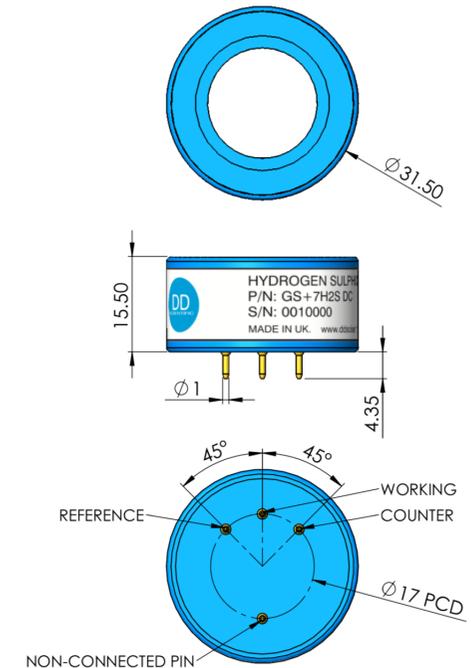
Performance Characteristics	
Output signal	250 ± 100 nA / ppm
Typical Baseline Range (pure air)	<±1 ppm H <sub>2</sub> S equivalent
T90 Response Time	< 40 seconds
Measurement Range	0 - 200 ppm
Maximum Overload	1000 ppm
Linearity	Linear
Repeatability	< ±2% FSD
Recommended Load Resistor	10 ohms
Resolution (Electronics dependent)	< 0.2 ppm typical

Environmental Details	
Temperature Range Continuous	-30°C to +70°C
Pressure Range	800 to 1200 mbar
Operating Humidity Range	0% to 95% RH non condensing

**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.

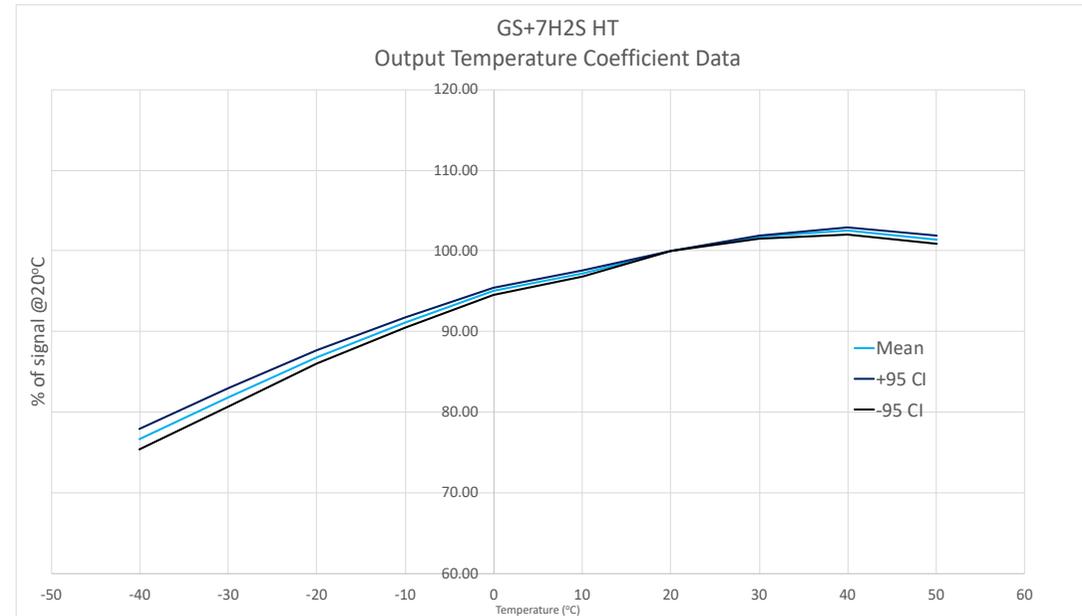


**Product Dimensions**

All dimensions in mm  
All tolerances ±0.15 mm

Lifetime Details	
Long Term Output Drift	+/- 2% FSD per annum
Recommended Storage Temp	0°C to 20°C
Expected Operating Life	> 24 months in air
Standard Warranty	12 months from date of dispatch

Cross - Sensitivity Data		
GAS	CONC.	GS+7H2SHT
Carbon Monoxide	300 ppm	<6 ppm
Sulphur dioxide	5 ppm	<1 ppm
Nitrogen Dioxide	5 ppm	<±0.5 ppm
Nitric Oxide	50 ppm	<1 ppm
Hydrogen	500 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.

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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