

Product Data Sheet

P/N : GS+4H2

GS+4H2
Hydrogen Sensor (H2)

Introduction The GS+4H2 is a premium high quality robust H2 sensor provided in a miniature 4 Series housing.

Key Features: The GS+4H2 delivers high stability in all applications and provided with a CO filter to eliminate false alarms.

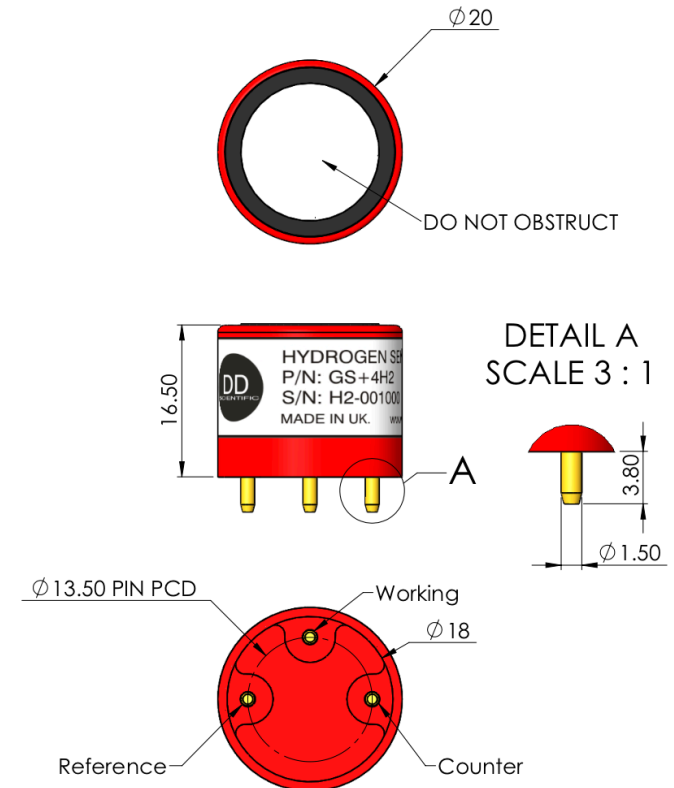
Performance Characteristics	
Output signal	20± 10 nA / ppm
Typical Baseline Range (pure air)	0 to -20ppm H2 equivalent
Filter	To reduce CO response
T90 Response Time	< 60 seconds
Measurement Range	0 - 1000 ppm
Maximum Overload	2000 ppm
Linearity	Linear up to 1000 ppm
Repeatability	< ±2% H2 equivalent
Recommended Load Resistor	10 ohms
Resolution (Electronics dependent)	< 0.5 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:

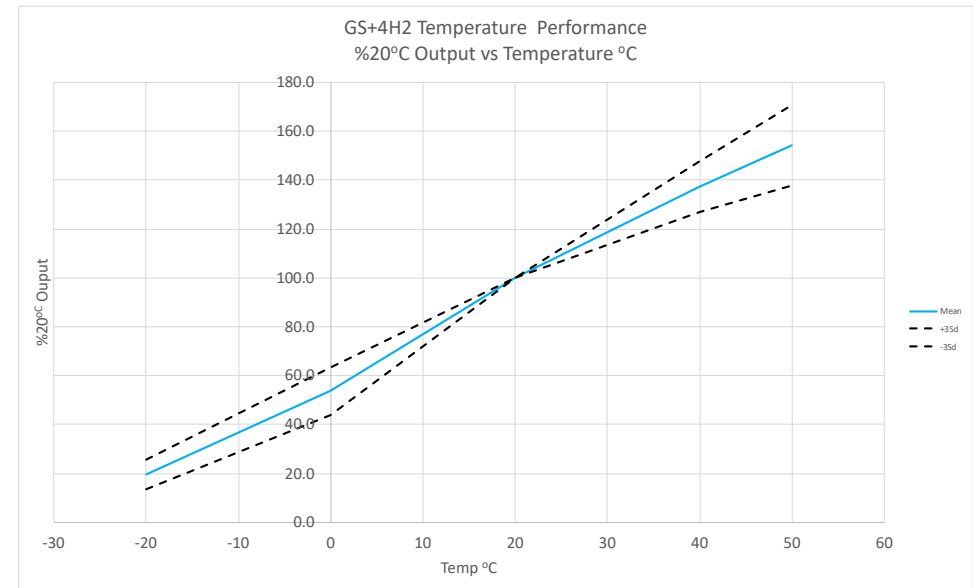
All performance data is based on conditions at 20°C, 50%RH and 1 atm, using DD Scientific recommended circuitry.

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



Lifetime Details	
Long Term Output Drift	< 5% 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+4H2 (ppmH2)
Hydrogen Sulphide	50 ppm	
Sulphur dioxide	20 ppm	
Carbon Monoxide	200 ppm	
Nitric Oxide	50 ppm	
Ethanol	200 ppm	
Ammonia	50 ppm	
Chlorine	15 ppm	
Ethylene	100 ppm	
Acetylene	100 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

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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