

Product Data Sheet

P/N : GS+4H2 HC

GS+4H2 HC

Hydrogen Sensor (H2)

Introduction The GS+4H2 HC is a premium high quality robust H2 sensor provided in a miniature 4 Series housing optimised for high concentration applications.

Key Features: Fast response, High range

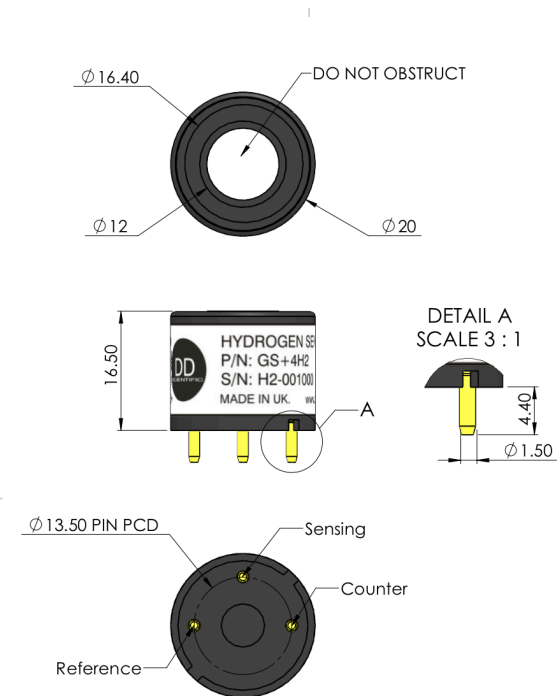
Performance Characteristics	
Output signal	0.75± 0.25 nA / ppm
Typical Baseline Range (pure air)	ppm H2 equivalent
T90 Response Time	< 20seconds
Measurement Range	0 - 5%
Maximum Overload	5%
Linearity	Linear up to 5%
Repeatability	< ±2% signal
Recommended Load Resistor	10 ohms
Resolution (Electronics dependent)	< ppm typical

Environmental Details	
Temperature Range Continuous	-20°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

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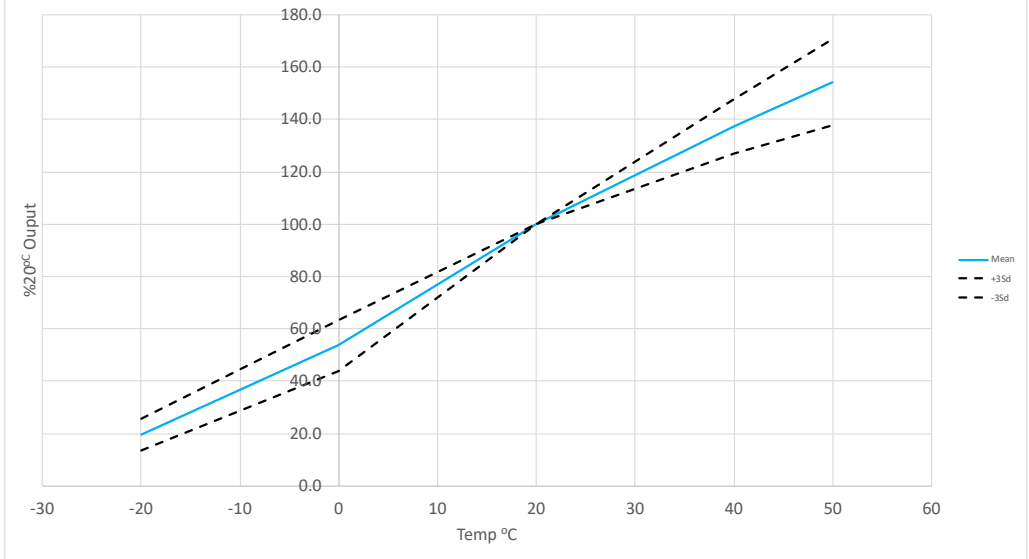
Lifetime Details

Long Term Output Drift	< 3% Signal drift / month
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+4H2 HC (ppmH2)
Hydrogen Sulphide	50 ppm	<30
Sulphur dioxide	20 ppm	
Carbon Monoxide	200 ppm	<50
Nitric Oxide	50 ppm	
Nitrogen Dioxide	20 ppm	
Ammonia	100 ppm	
Chlorine	15 ppm	

GS+4H2 HC Temperature Performance



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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