

Product Data Sheet

P/N : GS+4H2 1000

GS+4H2 1000

Hydrogen Sensor (H2)

Introduction The GS+4H2 1000 is a high quality H2 sensor provided in a miniature 4-series housing

Key Features: Fast response, Filter to reduce CO false alarms

Performance Characteristics

Output signal	20±10 nA / ppm
Typical Baseline Range (pure air)	±10ppm
T90 Response Time	< 40 sec (Typically <25secs)
Measurement Range	0 - 1000 ppm
Maximum Overload	2000ppm
Linearity	<5%
Repeatability	< ±2%
Recommended Load Resistor	10 ohms
Resolution (Electronics dependent)	<2ppm

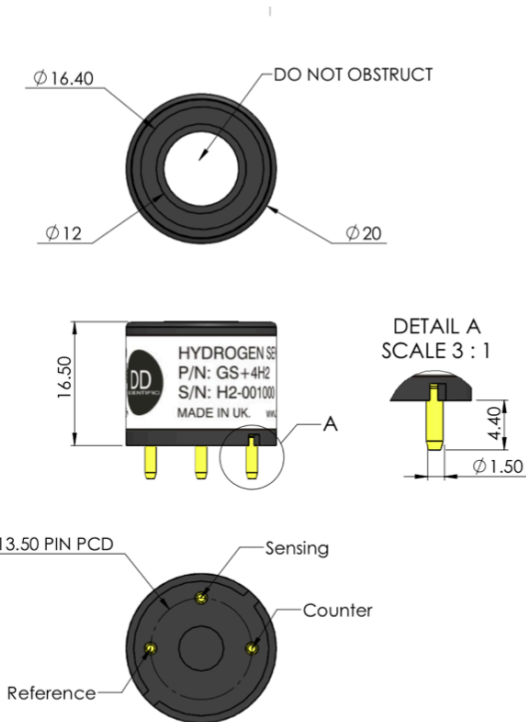
Environmental Details

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.

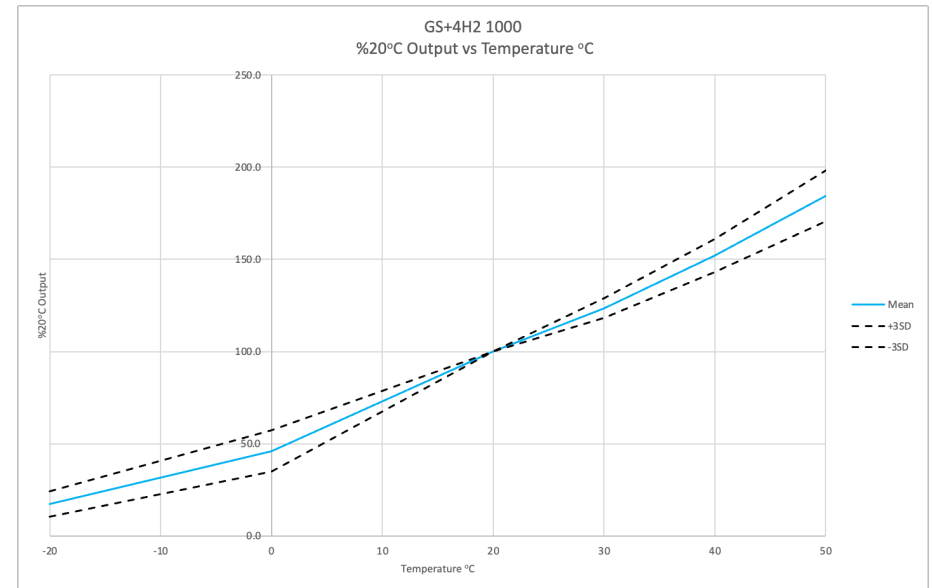
Sensor performance is temperature dependent, and please contact DD Scientific for temperature performance other than 20°C.



Product Dimensions
All dimensions in mm
All tolerances ±0.15 mm

Lifetime Details	
Long Term Output Drift	< 25% Signal/year
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.	ppm H ₂
Hydrogen Sulphide	25 ppm	<2ppm
Sulphur dioxide	20 ppm	0ppm
Carbon Monoxide	200 ppm	<5ppm
Nitric Oxide	50 ppm	<30ppm
Nitrogen Dioxide	20 ppm	0ppm
Chlorine	50 ppm	0ppm



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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