

Product Data Sheet

P/N : GS+7H2

GS+7H2
Hydrogen Sensor (H2)

Introduction The GS+7H2 is a premium high quality, robust H2 sensor, ideal for use in fixed battery monitoring and fuel cell applications.

Key Features: Enhanced environmental performance, wide measurement range.

Performance Characteristics

Output signal	20± 10 nA / ppm
Typical Baseline Range (pure air)	0 to -20ppmH2 equivalent
T90 Response Time	< 90 seconds
Measurement Range	0 - 1000 ppm
Maximum Overload	2000 ppm
Linearity	Linear
Repeatability	2% signal
Recommended Load Resistor	10 ohms
Resolution (Electronics dependent)	< 0.5 ppm typical

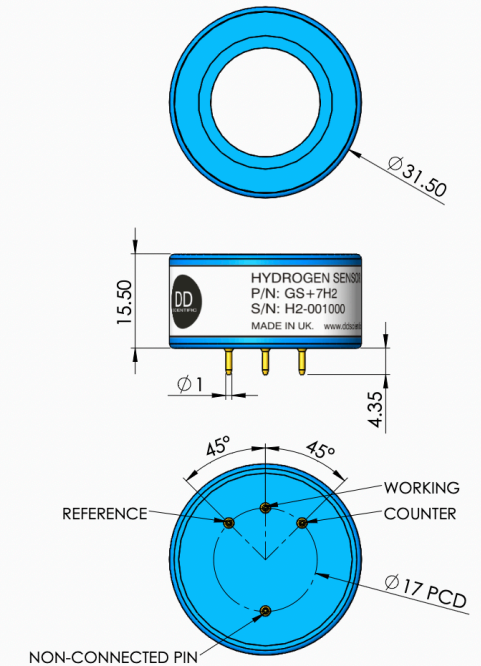
Environmental Details

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.

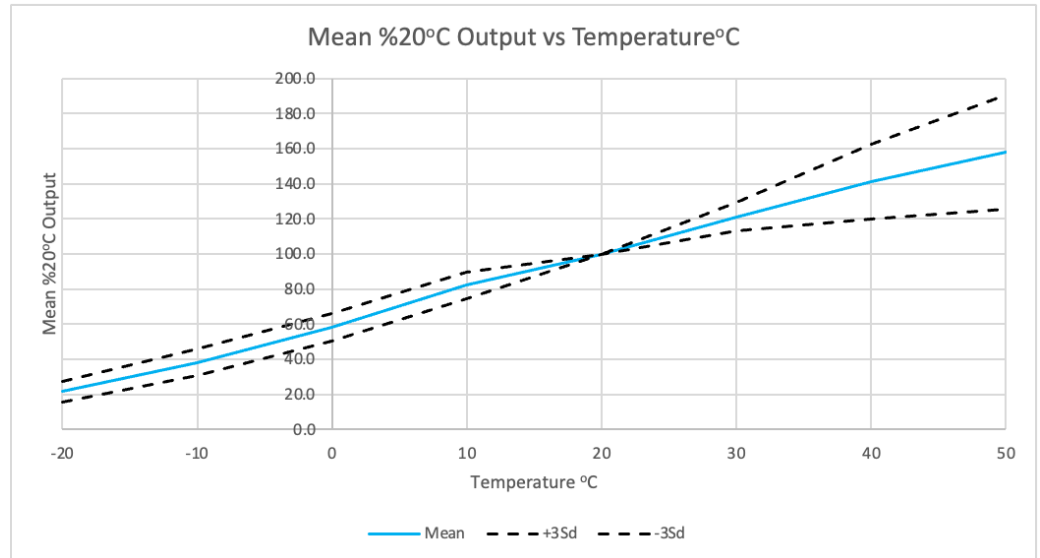


Product Dimensions

All dimensions in mm
All tolerances ±0.15 mm

Lifetime Details	
Long Term Output Drift	< 2% per 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.	ppm H2
Carbon Monoxide	200 ppm	<50
Hydrogen Sulphide	25 ppm	0
Nitrogen Dioxide	20 ppm	~1
Nitric Oxide	50 ppm	~20
Sulphur Dioxide	20 ppm	0
Chlorine	1 ppm	0



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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