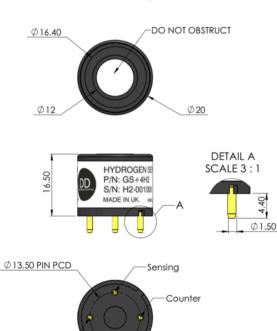
Product Data Sheet

GS+4H2 5% Hydrogen Sensor (H2)

Introduction The GS+4H2-5% is a high quality high range H2 sensor provided in a miniature 4-series housing suitable for high concentration measurements

Key Features: Fast response, high range, high stability

Performance Characteristics 0.5±0.25nA / ppm Output signal Typical Baseline Range (pure air) ±100ppm **T90 Response Time** < 40 seconds (Typically < 20s) **T50 Response Time** Typically < 10sT20 Response Time Typically < 5s **Measurement Range** 0 - 50000 ppm Maximum Overload 10% Vol Linearity (0-50000ppm) ±3% Repeatability < ±2% **Recommended Load Resistor** 10 ohms



Environmental DetailsTemperature Range Continuous-30°C to +50°CPressure Range800 to 1200 mbarOperating Humidity Range15% to 90% RH

Important Note:

Resolution (Electronics dependent)

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.



<5ppm

Product Dimensions All dimensions in mm All tolerances ±0.15 mm

Reference

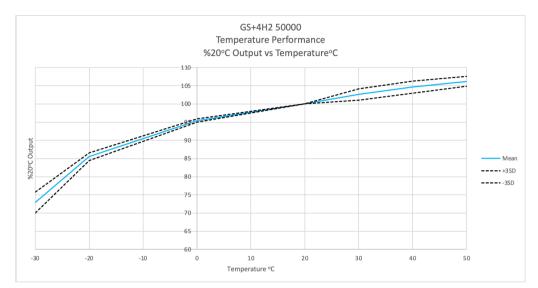


Product Data Sheet

GS+4H2 5% Hydrogen Sensor (H2)

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	12 months from date of dispatch	

Cross - Sensitivity Data		
GAS	CONC.	ppm H2
Hydrogen Sulphide	25 ppm	<2ppm
Sulphur dioxide	20 ppm	0ppm
Carbon Monoxide	1000ppm	<300ppm
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.

Every effort has been made to ensure the accuracy of this document at the time of printing. In accordance with the company's policy of continued product improvement

DD SCIENTIFIC Limited reserves the right to make product changes without notice. No liability is accepted for any consequential losses, injury or damage resulting from the use of this document or from any missions or errors herein. The data is given for guidance only. It does not constitute a specification or an there have by the client in circumstances beyond the knowledge and control of DD SCIENTIFIC Limited, we cannot give any warnty as to the relevance of these particulars to an application. It is the clients' responsibility to carry out the necessary tests to determine the usefulness of the products and to ensure their safety of operation in a particular application. It is the clients' responsibility to carry out the necessary tests to determine the usefulness of the products and to ensure their safety of operation in a particular application.

