### **Product** Data Sheet

P/N: DceL H2 1000

**DceL H2 1000** 

Hydrogen Sensor (H2)

Introduction The DceL H2 1000 is a high quality H2 sensor provided in a low profile housing

Key Features: Low profile, fast response, filter to reduce CO false alarms

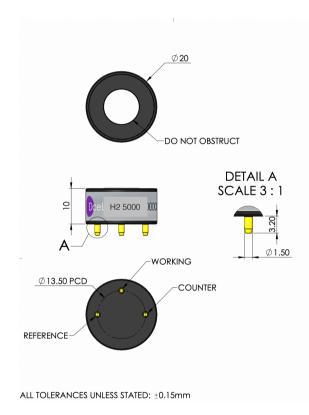
Performance Characteristics		
Output signal	20 ± 10nA /ppm	
Typical Baseline Range (pure air)	±10ppm	
T90 Response Time	< 40 seconds (Typically <25secs)	
Measurement Range	0 - 1000ppm	
Maximum Overload	2000ppm	
Linearity (measurement range)	<5%	
Repeatability	< ±2%	
Recommended Load Resistor	10 ohms	
Resolution (Electronics dependent)	<1ppm	

Environmental Details		
Temperature Range Continuous	-30°C to +50°C	
Pressure Range	800 to 1200 mbar	
Operating Humidity Range	15% to 90% RH (non condensing)	

### 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 in mm



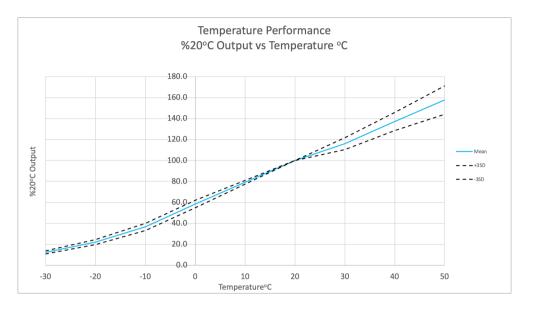
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Lifetime Details		
Long Term Output Drift	< 25% signal per annum	
Recommended Storage Temp	0°C to 20°C	
Expected Operating Life	> 24 months in air	
Standard Warranty	12 months from date of dispatch	

Cross - Sensitivity Data			
GAS	CONC.	ppm H2	
Hydrogen Sulphide	25 ppm	<2ppm	
Sulphur dioxide	20 ppm	0ppm	
Carbon Monoxide	200 ppm	<5ppm	
Chlorine	15 ppm	0ppm	
Nitrogen Dioxide	20 ppm	0ppm	
Nitric Oxide	50ppm	<30ppm	



### 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 vapors 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

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Issue 1 0723 Website: www.ddscientific.com Email: info@ddscientific.com