Product Data Sheet

P/N : DceL H2S

DceL H2S

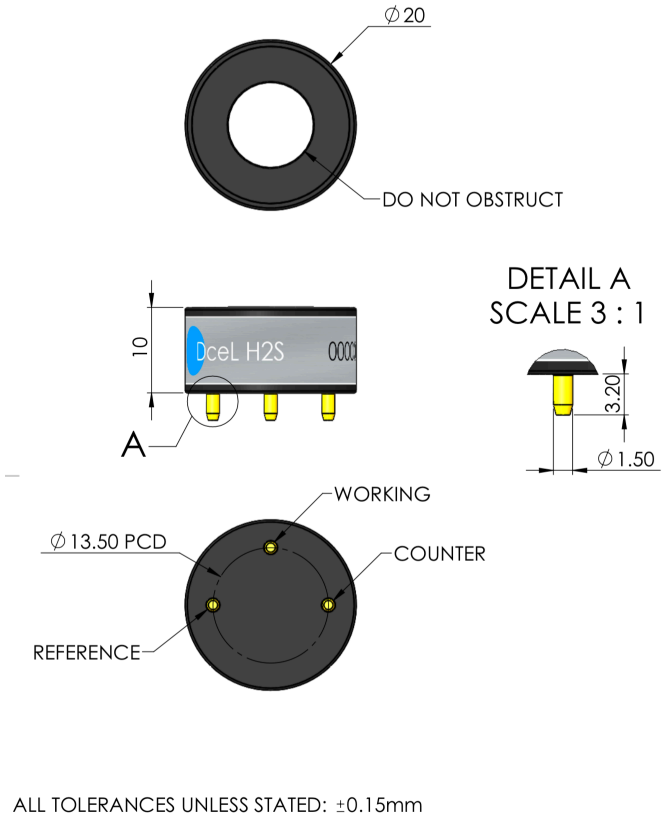
Hydrogen Sulphide Sensor (H_2S)

Introduction The DceL H2S is a low profile premium industrial H_2S sensor, ideal for portable and fixed gas detectors.

Key Features: high stability, fast response and recovery, robust environment performance

Performance Characteristics	
Output signal	150 ± 40 nA / ppm
Typical Baseline Range (pure air)	±2 ppm H2S equivalent
T90 Response Time	< 30 seconds
Measurement Range	0 - 100 ppm
Maximum Overload	200 ppm
Linearity	Linear
Repeatability	< ±2% H2S equivalent
Recommended Load Resistor	10 ohms
Resolution (Electronics dependent)	< 0.1 ppm typical

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



ALL TOLERANCES UNLESS STATED: ±0.15mm

Product Dimensions in mm

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.

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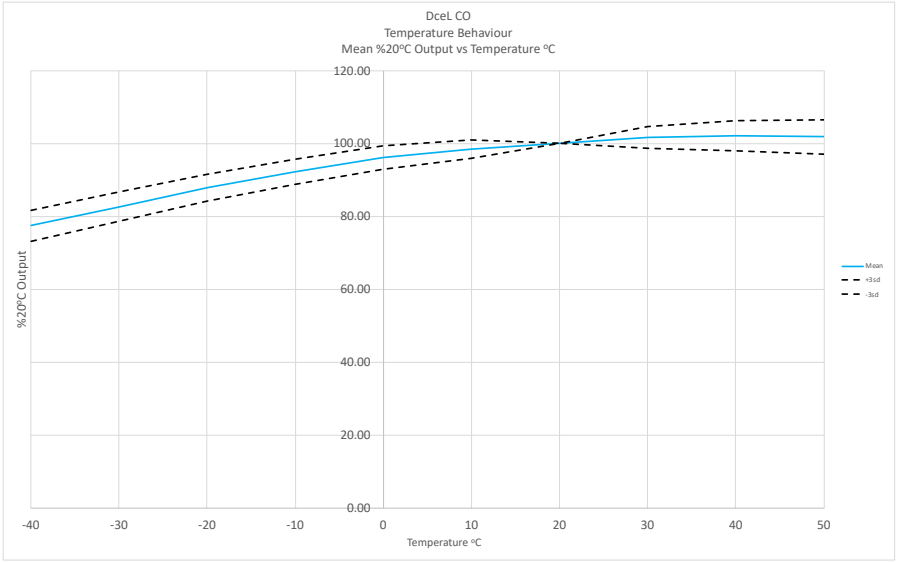
Lifetime Details	
Long Term Output Drift	< 15% per annum
Recommended Storage Temp	0ºC to 20ºC
Expected Operating Life	> 24 months in air
Standard Warranty	24 months from date of dispatch



Cross - Sensitivity Data		
GAS	CONC.	GS+4H2S
Carbon Monoxide	200 ppm	<0.2ppm
Sulphur dioxide	20 ppm	<3ppm
Nitrogen Dioxide	20 ppm	-5ppm
Nitric Oxide	50 ppm	<0.5ppm
Ammonia	50 ppm	0ppm
Hydrogen	100 ppm	0ppm
Ethylene	100 ppm	0ppm
Carbon Dioxide	5000 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

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