

Introduction The MceL H2S is a miniature high quality robust H2S sensor, ideal for use in portable and fixed gas detectors.

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

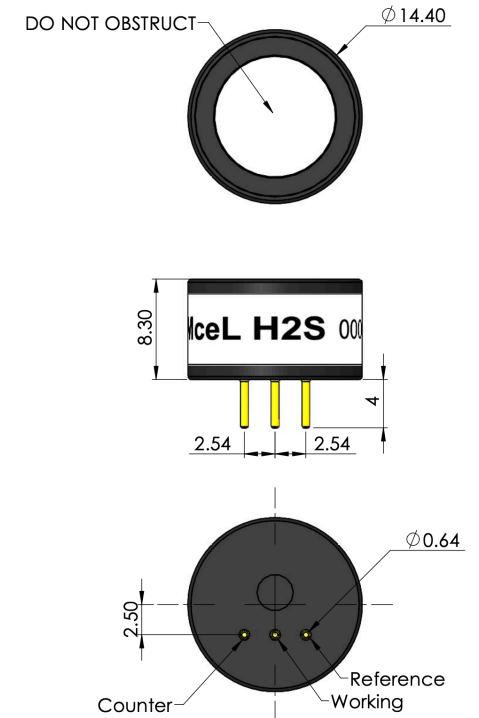
Performance Characteristics	
Output signal	175± 50 nA / ppm
Typical Baseline Range (pure air)	±0.5ppm
T90 Response Time	< 20 seconds
Measurement Range	0 - 200 ppm
Maximum Overload	500 ppm
Linearity (0-200ppm)	±2%
Linearity (200-500ppm)	±5%
Repeatability	< ±5% (measured value)
Recommended Load Resistor	10 ohms
Resolution (Electronics dependent)	< 0.5 ppm typical

Environmental Details	
Temperature Range (Continuous) (Intermittent)	-40°C to +50°C upto 60°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.

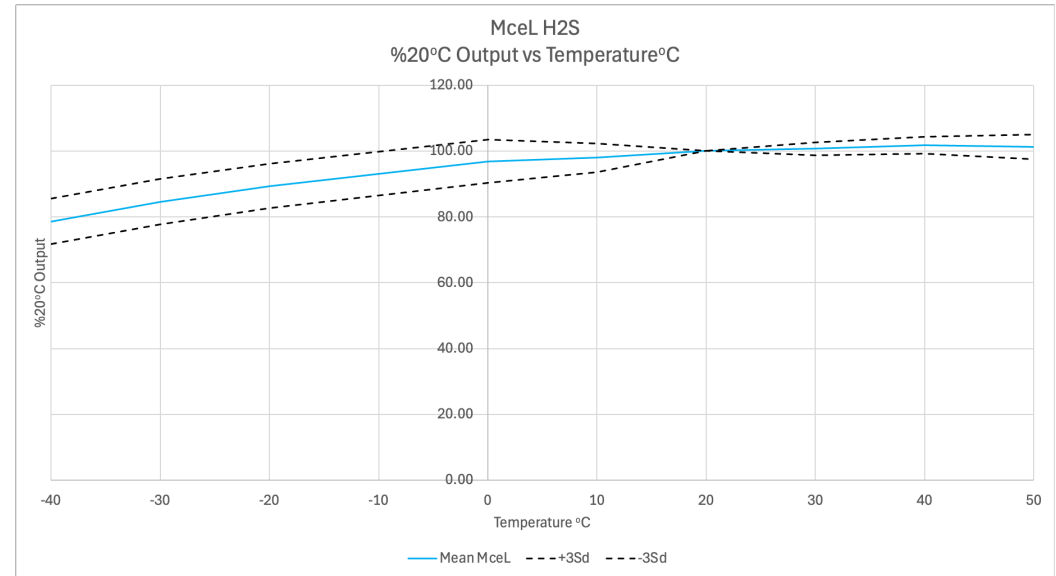


Recommended Socket: Cambion 450-3703-01 03-00

Product Dimensions
All dimensions in mm
All tolerances ±0.15 mm

Lifetime Details	
Long Term Output Drift	< 10% per annum
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.	MceL ppm H2S
Carbon Monoxide	200 ppm	0
Sulphur dioxide	20 ppm	<3
Hydrogen	100 ppm	0
Nitric Oxide	50 ppm	<0.5
Nitrogen Dioxide	20 ppm	-5
Ammonia	50 ppm	0
Chlorine	15 ppm	0
Ethylene	100 ppm	0
Acetylene	100 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 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 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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