SE+H2S

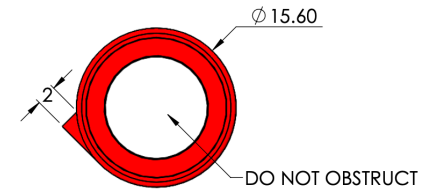
Hydrogen Sulfide sensor (H2S)

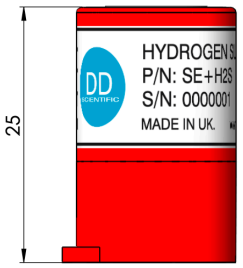
Introduction The SE+H2S is a multi-purpose hydrogen sulfide sensor designed for use in industrial safety applications. It is a drop in replacement for the SensoriC 3E H2S 100 (Classic) sensor.

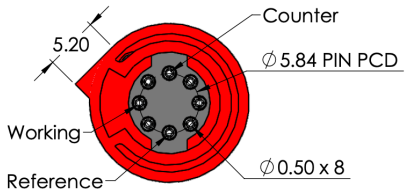
Key Features: High stability, fast response and recovery, excellent sensitivity.

Performance Characteristics	
Output signal	700 ± 250 nA / ppm
Typical Baseline Range (pure air)	< ±2 ppm H2S equivalent
T90 Response Time	< 30 seconds
Measurement Range	0 - 100 ppm
Maximum Overload	500 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 non condensing







Product Dimensions
All dimensions in mm
All tolerances ±0.15 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	0°C to 20°C
Expected Operating Life	> 24 months in air
Standard Warranty	24 months from date of dispatch

Temperature data to be confirmed

Cross - Sensitivity Data		
GAS	CONC.	SE+H2S
Carbon monoxide	100 ppm	<2 ppm
Supfur dioxide	20 ppm	0 ppm
Nitrogen dioxide	5 ppm	<0.5 ppm
Nitric Oxide	50 ppm	< 0.5 ppm
Ammonia	50 ppm	0 ppm
Chlorine	15 ppm	0 ppm
Ethylene	100 ppm	0 ppm
Carbon dioxide	5000 ppm	0 ppm

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

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