Product Data Sheet

P/N : S+4 2ECOLH

2ECOLH

Carbon Monoxide Sensor (CO)

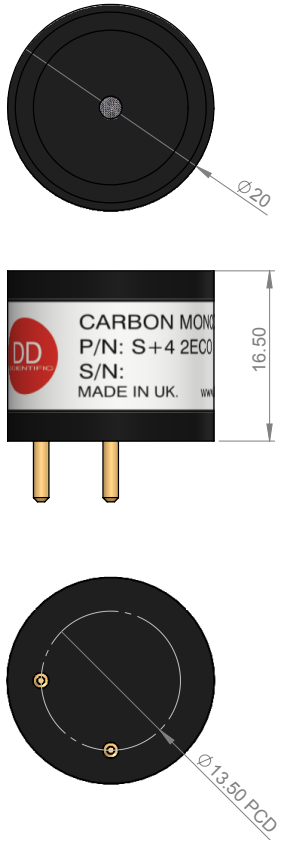
Introduction	The 2ECOLH is a versatile 2 electrode CO sensor designed with low H_2 sensitivity
Key Features	low hydrogen cross interference, low cost, high stability, fast response and recovery, long life

Performance Characteristics	
Output signal	50 ± 20 nA / ppm
Typical Baseline Range (pure air)	±2 ppm CO equivalent
T90 Response Time	< 30 seconds
Measurement Range	0 - 1000 ppm
Maximum Overload	2000 ppm
Hydrogen cross-sensitivity	<15% (typically 10%)
Linearity	Within ± 5 %
Repeatability	< ± 5%
Recommended Load Resistor	10 ohms
Resolution (Electronics dependent)	< 1 ppm typical

Environmental Details	
Temperature Range Continuous	-20°C to +50°C
Pressure Range	800 to 1200 mbar
Operating Humidity Range	15% to 90% RH (Continuous) 0% to 99% (Intermittent)

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
All dimensions in mm
All tolerances ±0.15 mm

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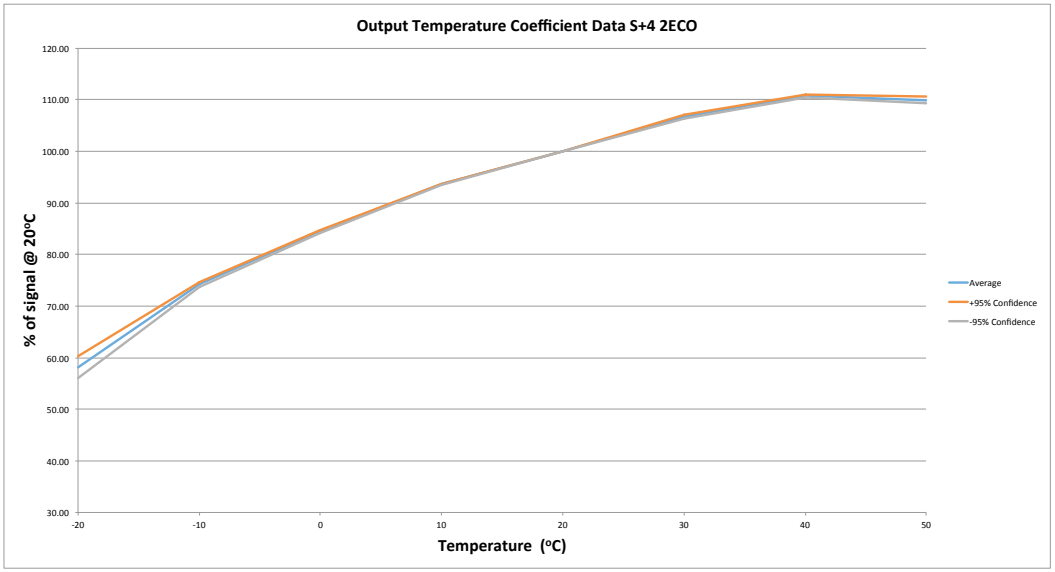
Lifetime Details	
Long Term Output Drift	< 5% per annum
Recommended Storage Temp	0°C to 20°C
Expected Operating Life	>3 years in normal use
Standard Warranty	24months from date of dispatch

Intrinsic Safety Data	
Maximum at 2000 ppm	0.3 mA
Maximum o/c Voltage	1.3 V
Maximum s/c Current	<1.0 A



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.