Product Data Sheet

P/N: S+4 2ECOH



Introduction The 2ECOH is a 2 electrode CO sensor designed for use in Carbon Monoxide detection in breath.

Key Features low hydrogen cross interference, high stability, fast response and recovery, long life, low cost.

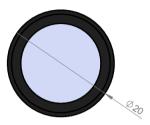
Performance Characteristics		
Output signal	175 ± 50 nA / ppm	
Typical Baseline Range (pure air)	±1 ppm CO equivalent	
T90 Response Time	< 30 seconds	
Measurement Range	0 - 200 ppm	
Maximum Overload	300 ppm	
Hydrogen cross-sensitivity	<12% (typically 10%)	
Linearity	Within ± 5 %	
Repeatability	< ± 5%	
Recommended Load Resistor	10 ohms	
Resolution (Electronics dependent)	< 1 ppm typical	

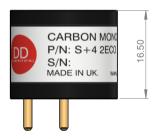
Environmental Details		
Temperature Range Continuous	0°C to +30°C	
Pressure Range	800 to 1200 mbar	
Operating Humidity Range	15% to 90% RH (Continuous) 0% to 99% (Intermittent)	

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



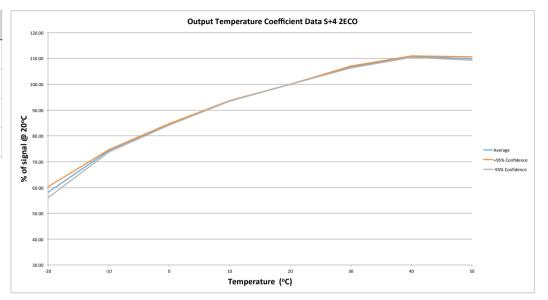
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Lifetime Details		
Long Term Output Drift	<5% per annum	
Recommended Storage Temp	0°C to 20°C	
Expected Operating Life	>2 years in normal use	
Standard Warranty	24 months from date of dispatch	

Intrinsic Safety Data		
Maximum at 2000 ppm	0.1 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.

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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