Product Data Sheet

P/N: S+4 2ECO

2ECOCarbon Monoxide Sensor (CO)

Introduction The 2ECO is a long life low cost 2 electrode CO sensor designed for use air quality, domestic/ fire CO detectors, ventilation applications (under ground car parks)

Key Features low cost, high stability, fast response and recovery, long life

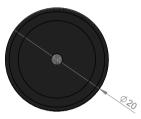
Performance Characteristics			
Output signal	50 ± 20 nA / ppm		
Typical Baseline Range (pure air)	±2 ppm CO equivalent		
T90 Response Time	< 30 seconds		
Measurement Range	0 - 1000 ppm		
Maximum Overload	2000 ppm		
Linearity	Within ± 5 %		
Repeatability	< ± 5%		
Recommended Load Resistor	10 ohms		
Resolution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

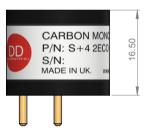
Environmental Details			
Temperature Range Continuous	-20°C to +50°C		
Pressure Range	800 to 1200 mbar		
Operating Humidity Range	15% to 90% RH (Continuous) 0% to 99% (Intermittent)		

mportant 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

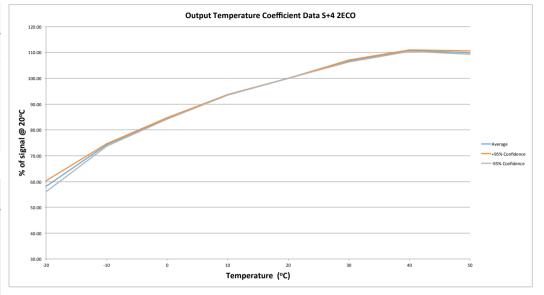


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Lifetime Details			
Long Term Output Drift	< 5% per annum		
Recommended Storage Temp	0°C to 20°C		
Expected Operating Life	>6 years in normal use		
Standard Warranty	60 months from date of dispatch		

Cross - Sensitivity Data				
GAS	CONC.	S+4 2ECO		
Hydrogen Sulphide	25 ppm	0 ppm		
Sulphur dioxide	20 ppm	<0.5 ppm		
Hydrogen	100 ppm	<20 ppm		
Nitric Oxide	50 ppm	<10 ppm		
Ethanol	2000 ppm	<5 ppm		
Iso-Propanol	200 ppm	0 ppm		
Chlorine	2 ppm	<0.5 ppm		
Acetone	1000 ppm	0 ppm		
Acetylene	40 ppm	80 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 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.

when using sensors on printed circuit boards (FCbs), 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.

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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