Product Data Sheet

P/N : S+4 2ECO

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)	







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.



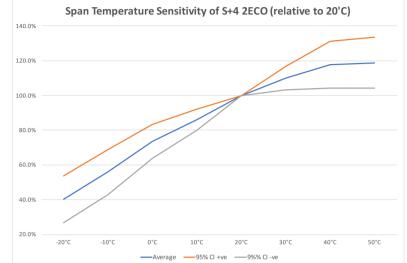
Product Data Sheet

P/N : S+4 2ECO

2ECO Carbon Monoxide Sensor (CO)

Lifetime Details				
Long Term Output Drift	< 5% per annum			
Recommended Storage Temp	0°C to 20°C			
Expected Operating Life >10 years in normal use				
Standard Warranty	60 months from date of dispatch			

Cross - Sensitivity Dat	a		40.0%
GAS	CONC.	S+4 2ECO	
Hydrogen Sulphide	25 ppm	0 ppm	20.0%
Sulphur dioxide	20 ppm	<0.5 ppm	
Hydrogen	100 ppm	<20 ppm	Poisoning: DD Scientific sensors are designed concentrations of solvent vapors When using sensors on printed ci Please note gluing or soldering connecting DD Scientific sensor
Nitric Oxide	50 ppm	<10 ppm	
Ethanol	2000 ppm	<5 ppm	
Iso-Propanol	200 ppm	0 ppm	
Chlorine	2 ppm	<0.5 ppm	Maximum at 2000 ppm
Acetone	1000 ppm	0 ppm	Maximum o/c Voltage
Acetylene	40 ppm	80 ppm	Maximum s/c Current



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.

lease note gluing or soldering direct to the pins of DD Scientific Ltd gas sensors will void warranty, please use PCB sockets when onnecting DD Scientific sensors.

0.3 mA

1.3 V <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

DD SCIENTIFIC Limited reserves the right to make product changes without notice. No liability is accepted for any consequential losses, injury or damage resulting from the use of this document or from any missions or errors herein. The data is given for guidance only. It does not constitute a specification or an offer for sale. The products are always subject to a program of improvement and testing which may result in some changes in the characteristics quoted. As the products may be used by the client in circumstances beyond the knowledge and control of DD SCIENTIFIC Limited, we cannot give any warry as to the relevance of these particulars to an application. It is the client's responsibility to carry out the necessary tests to determine the usefulness of the products and to ensure their safety of operation in a particular application. It is the client is the client is the set outline the performance of newly supplied tests to determine the usefulness of the products and to ensure their safety of operation in a particular application.

