

Product Data Sheet

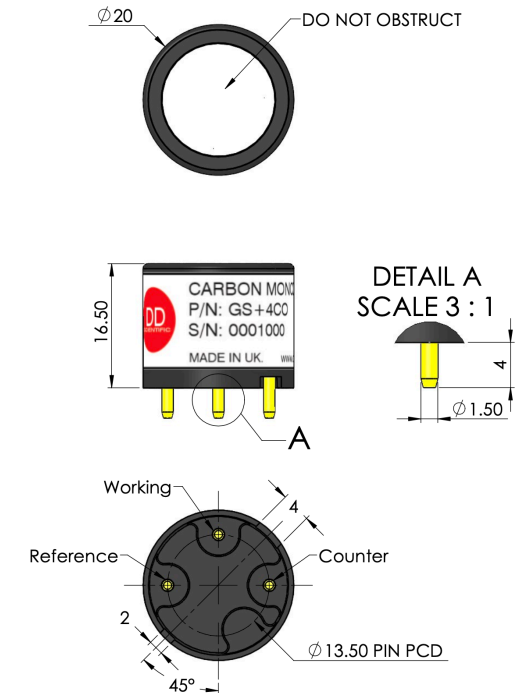
P/N : GS+4CO

GS+4CO
Carbon Monoxide Sensor (CO)

Introduction The GS+4CO is a premium high quality robust CO sensor, suitable for use in combustion gas detectors

Key Features: High stability, robust compact design, robust environmental performance

Performance Characteristics	
Output signal	70 ± 20 nA / ppm
Typical Baseline Range (pure air)	<±3 ppm CO equivalent
Filter Capacity	> 20000 ppm hours
T90 Response Time	< 30 seconds
Measurement Range	0 - 2000 ppm
Maximum Overload	5000 ppm
Linearity	Linear up to 2000 ppm
Repeatability	< ±2% CO equivalent
Recommended Load Resistor	10 ohms
Resolution (Electronics dependent)	< 0.5 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



Product Dimensions
All dimensions in mm
All tolerances ±0.15 mm

Important Note:

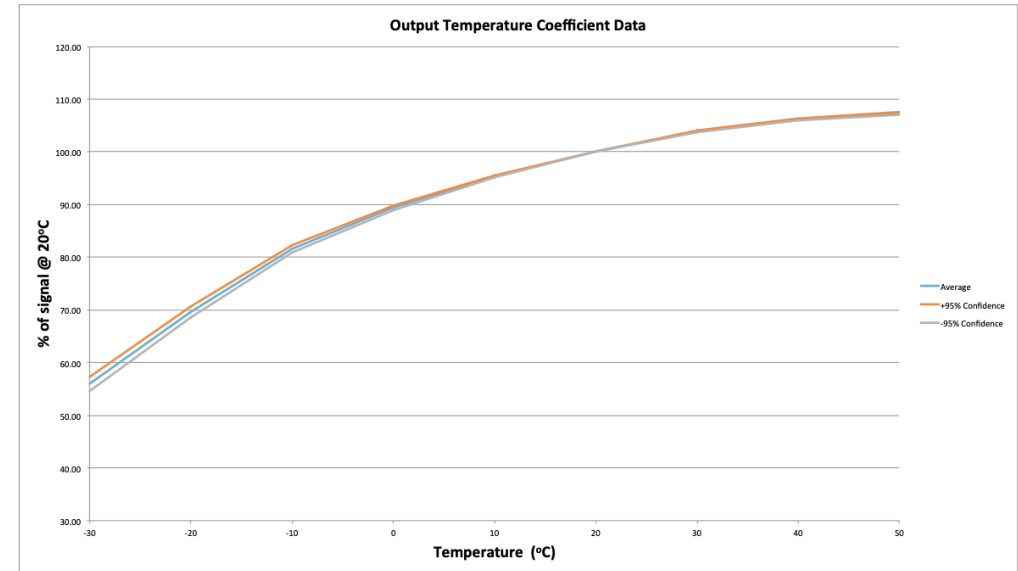
All performance data is based on conditions at 20°C, 50%RH and 1 atm, using DD Scientific recommended circuitry.

Sensor performance is temperature dependent, and please contact DD Scientific for temperature performance other than 20°C.

Lifetime Details	
Long Term Output Drift	< 5% per annum
Recommended Storage Temp	0°C to 20°C
Expected Operating Life	> 48 months in air
Standard Warranty	24 months from date of dispatch

Cross - Sensitivity Data		
GAS	CONC.	GS+4CO
Hydrogen Sulphide	50 ppm	0 ppm
Sulphur dioxide	5 ppm	0 ppm
Hydrogen	100 ppm	< 30 ppm
Nitric Oxide	50 ppm	< 10 ppm
Ethanol	200 ppm	<1 ppm
Ammonia	50 ppm	0 ppm
Chlorine	15 ppm	<1 ppm
Ethylene	100 ppm	96 ppm
Acetylene	100 ppm	90 ppm

Cross interference information is for guidance only.



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 5000 ppm	< 1 mA
Maximum o/c Voltage	1.3 V
Maximum s/c Current	<1.0 A

**GS+4CO meets sensor requirements outlined in:
AQ6205-2006 and EN45544**

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 omissions 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 warranty as to the relevance of these particulars to an application. It is the clients' 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. Performance characteristics on this data sheet outline the performance of newly supplied sensors. Output signal can drift below the lower limit over time.