

# Product Data Sheet

P/N : GS+4COF

**GS+4COF**  
Carbon Monoxide Sensor (CO)

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

**Key Features:** High stability, robust compact design, robust environmental performance, onboard filter to remove acid gases

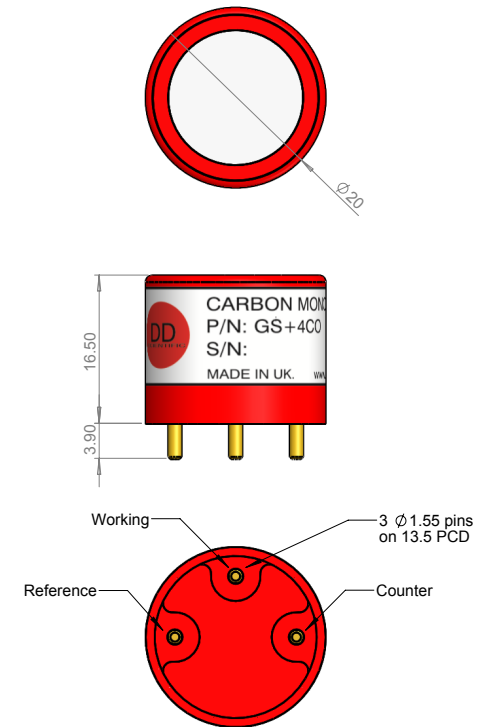
Performance Characteristics	
Output signal	70± 20 nA / ppm
Typical Baseline Range (pure air)	<±2 ppm CO equivalent
T90 Response Time	< 30 seconds (Typically <20secs)
Measurement Range	0 - 5,000 ppm
Maximum Overload	10,000 ppm
Linearity	Linear
Repeatability	< ±1% CO equivalent
Recommended Load Resistor	10 ohms
Resolution (Electronics dependent)	< 1 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

**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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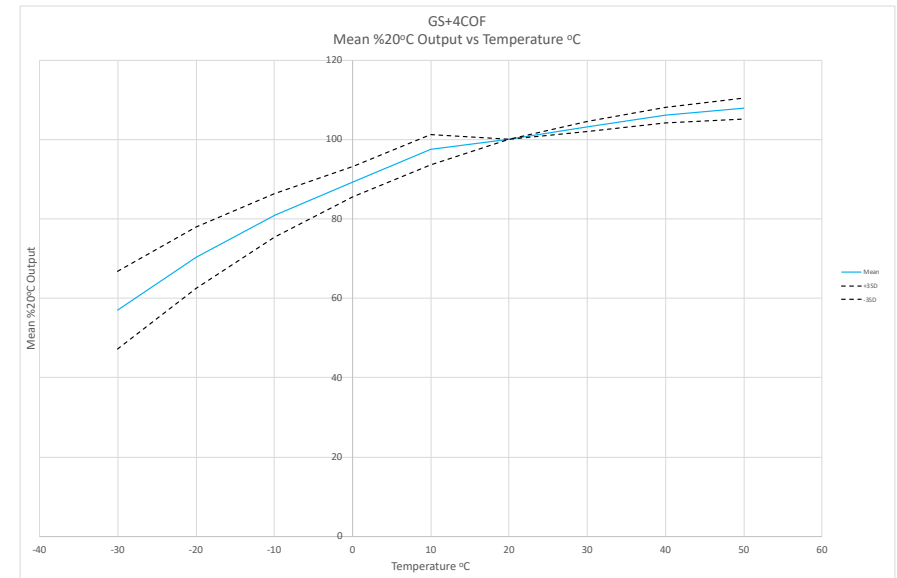
## Lifetime Details

Long Term Output Drift	< 5% per annum
Recommended Storage Temp	0°C to 20°C
Expected Operating Life	> 48 months in air
Standard Warranty	48 months from date of dispatch
Filter Life	>30,000 ppm hours vs. NO

## Cross - Sensitivity Data

GAS	CONC.	GS+4COF
Hydrogen Sulphide	25 ppm	±0.2ppm
Sulphur dioxide	5 ppm	±0.2ppm
Nitrogen Dioxide	5 ppm	-0.5 to +1ppm
Nitric Oxide	50 ppm	<3ppm
Hydrogen	100 ppm	<25 ppm
Chlorine	1 ppm	0 ppm
Ethylene	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 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.

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