

Product Data Sheet

P/N : GS+3CO

GS+3CO
Carbon Monoxide Sensor (CO)

Introduction The GS+3CO 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 and onboard NO filter

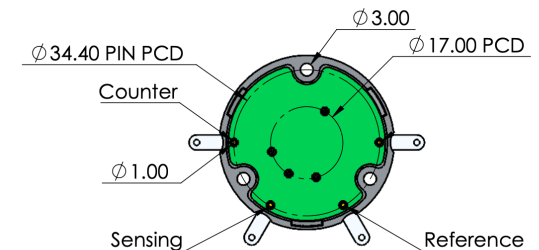
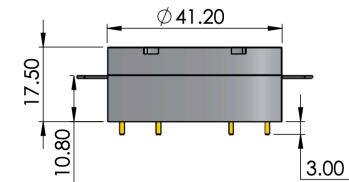
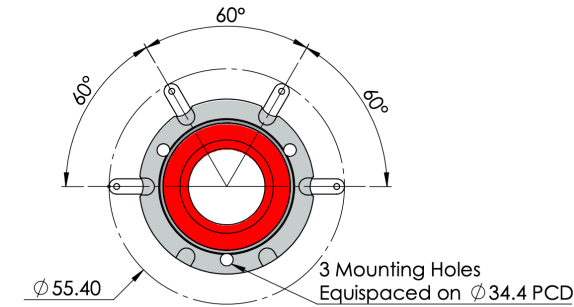
Net Sensor Performance Characteristics	
Output signal	100 ± 20 nA / ppm
Typical Baseline Range (pure air)	±2 ppm CO equivalent
T90 Response Time	< 30 seconds
Measurement Range	0 - 1,000 ppm
Maximum Overload	2,000 ppm
Linearity	Linear
Repeatability	< ±1% CO equivalent
Recommended Load Resistor	10 ohms
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

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.

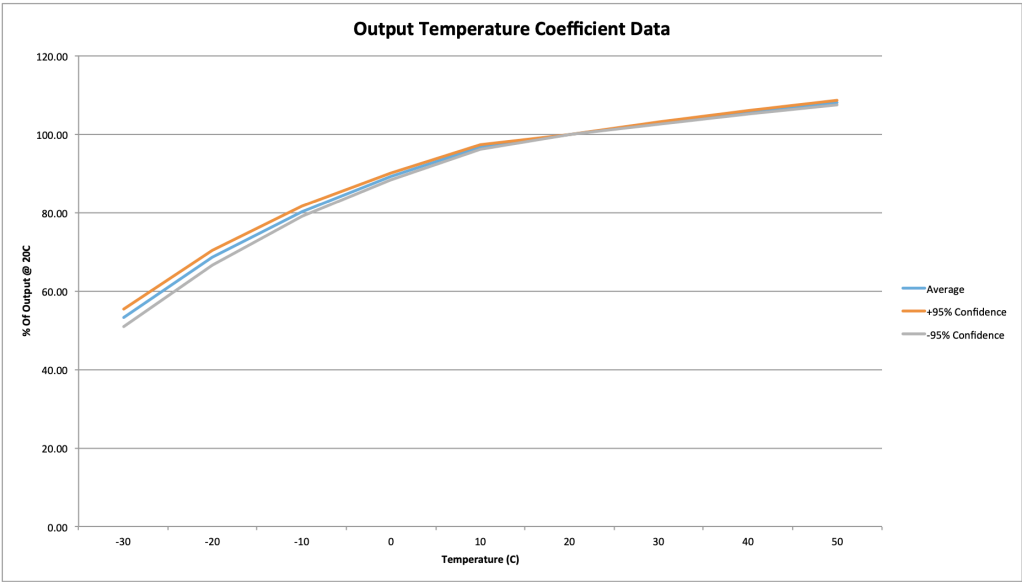


Product Dimensions

All dimensions in mm
All tolerances ±0.15 mm

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

Cross - Sensitivity Data (Net Sensor Performance)		
GAS	CONC.	GS+3CO
Hydrogen Sulphide	15 ppm	<0.1 ppm
Sulphur dioxide	5 ppm	0 ppm
Nitrogen Dioxide	5 ppm	-0.5 ppm
Nitric Oxide	35 ppm	0 ppm
Hydrogen *	100 ppm	<60 ppm
Chlorine	1 ppm	0 ppm
Ethylene	100 ppm	<90 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.

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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