

**Introduction** The GS+A7CO is a premium, hydrogen compensated CO sensor, ideal for use in portable and fixed safety detectors.

**Key Features:** High stability, fast response and recovery, robust environmental performance.

### Net Sensor Performance Characteristics

Output signal	100 ± 20 nA / ppm
Typical Baseline Range (pure air)	±2 ppm CO equivalent
Filter Capacity	Charcoal
T90 Response Time	< 30 seconds
Measurement Range	0 - 2000 ppm
Maximum Overload	4000 ppm
Linearity	Linear up to 10,000 ppm
Repeatability	< ±1%
Recommended Load Resistor	10 ohms
Resolution (Electronics dependent)	< 1 ppm typical

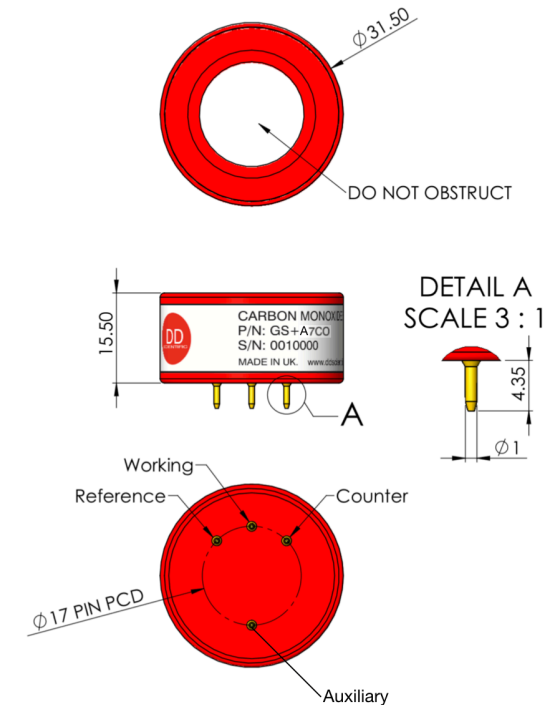
### Environmental Details

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

Lifetime Details	
Long Term Output Drift	< 1% per month
Recommended Storage Temp	0°C to 20°C
Expected Operating Life	> 36 months in air
Standard Warranty	24 months from date of dispatch

Cross - Sensitivity Data (Net Sensor Performance)		
GAS	CONC.	GS+A7CO
Hydrogen Sulphide	25 ppm	0 ppm CO
Sulphur dioxide	200 ppm	0 ppm CO
Nitrogen Dioxide	200 ppm	≈ -1ppm CO
Nitric Oxide	1,000 ppm	0 ppm CO
Hydrogen *	500 ppm	<1 ppm CO
Hydrogen *	2000 ppm	<4 ppm CO

**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.

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

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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