Introduction The GS+5SO2 is a premium high quality robust SO2 sensor, ideal for use in portable emissions gas

detectors.

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

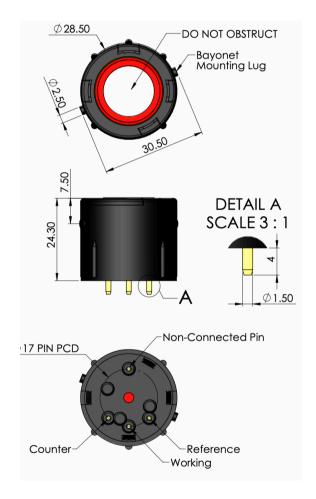
Net Sensor Performance Characteristics		
Output signal	100 ± 20 nA / ppm	
Typical Baseline Range (pure air)	± 2 ppm SO2 equivalent	
Filter	> 100,000 hours @25ppm H2S	
T90 Response Time	< 30 seconds	
Measurement Range	0 - 2,000 ppm	
Maximum Overload	5,000 ppm	
Linearity	Linear up to 5,000 ppm	
Repeatability	< ±2% SO2 equivalent	
Baseline Shift (20°C to 40°C)	< 5 ppm SO2 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



**Expected Operating Life** 

**Standard Warranty** 

P/N: GS+5SO2

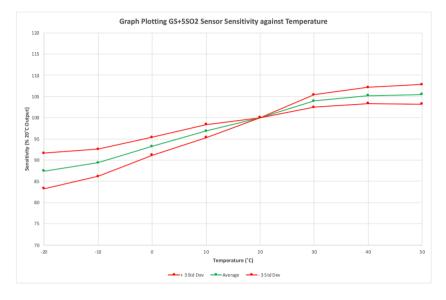
## GS+5SO2 Sulphur Dioxide Sensor (SO2)

Lifetime Details	
Long Term Output Drift	< 2% per month
Recommended Storage Temp	0°C to 20°C

> 24 months in air

24 months from date of dispatch

Cross - Sensitivity Data				
GAS	CONC.	GS+5SO2		
Hydrogen Sulphide	25 ppm	< 1 ppm SO2		
Nitrogen Dioxide	20 ppm	-25 ppm SO2		
Carbon Monoxide	1,000 ppm	< 50 ppm SO2		
Nitric Oxide	50 ppm	< 5 ppm SO2		
Ammonia	50 ppm	0 ppm SO2		
Chlorine	20 ppm	< -5 ppm SO2		



## 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), degreesing 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.

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

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