P/N: GS+4SO2

GS+4SO2Sulfur Dioxide Sensor (SO₂)

Introduction The GS+4SO2 is a premium high quality robust SO₂ sensor.

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

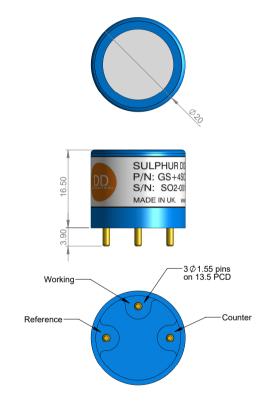
Performance Characteristics		
Output signal	400 ± 100 nA / ppm	
Typical Baseline Range (pure air)	±0.5 ppm SO₂ equivalent	
Filter Capacity	1000 ppm hours @ 25 ppm H₂S	
T90 Response Time	< 30 seconds	
Measurement Range	0 - 20 ppm	
Maximum Overload	100 ppm	
Linearity	Linear up to 20 ppm and within ±5%	
Repeatability	< ±2% SO ₂ equivalent	
Recommended Load Resistor	10 ohms	
Resolution (Electronics dependent)	0.1 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 (non-condensing)	

mportant 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



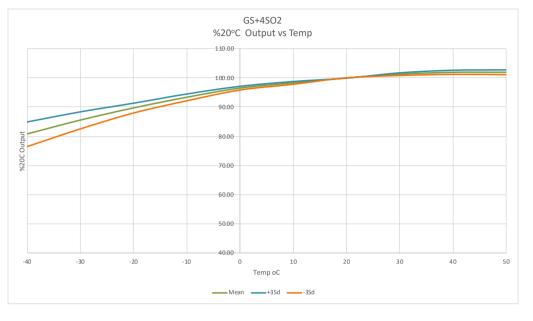
Product Data Sheet P/N: GS+4SO2

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Lifetime Details		
Long Term Output Drift	< 15% per annum	
Recommended Storage Temp	0°C to 20°C	
Expected Operating Life	> 24 months in air	
Standard Warranty	12 months from date of dispatch	

Cross - Sensitivity Data				
GAS	CONC.	GS+4SO2		
Hydrogen Sulfide	25 ppm	<0.5 ppm		
Carbon Monoxide	300 ppm	<1 ppm		
Hydrogen	400 ppm	<1 ppm		
Nitric Oxide	50 ppm	0 - 5 ppm		
Nitrogen Dioxide	20ppm	<-20ppm		
Ethene	50 ppm	<45 ppm		
Ammonia	20 ppm	0 ppm		
Chlorine	15 ppm	<1 ppm		
Hydrogen Cyanide	10 ppm	<5 ppm		
Acetylene	10 ppm	<30 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 150 ppm	0.1 mA	
Maximum o/c Voltage	0.75 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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