Product Data Sheet

P/N : GS+4SO2



Product Dimensions All dimensions in mm All tolerances ±0.15 mm

The GS+4SO2 is a premium high quality robust SO₂ sensor, ideal for use in portable and fixed gas detectors. Introduction

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

Performance Characteristics		
Output signal	500 ± 100 nA / ppm	
Typical Baseline Range (pure air)	±0.5 ppm SO ₂ equivalent	
Filter Capacity	1000 ppm hours @ 25 ppm H_2S	
T90 Response Time	< 30 seconds	¥
Measurement Range	0 - 20 ppm	
Maximum Overload	150 ppm	COLORED DD P/N: GS+45 S/N: SO2:01 MADE IN UK
Linearity	Linear up to 20 ppm and within $\pm 5\%$	8
Repeatability	< ±2% SO ₂ equivalent	
Recommended Load Resistor	10 ohms	Working 3Ø1.55 pins on 13.5 PCD
Resolution (Electronics dependent)	0.1 ppm typical	Reference
Environmental Details		

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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.

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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	1		
GAS	CONC.	GS+4SO2	
Hydrogen Sulphide	25 ppm	<0.1 ppm	
Carbon Monoxide	300 ppm	<1 ppm	Poisoning: DD Scientific sensors are de concentrations of solvent vag When using sensors on print Please note gluing or solde
Hydrogen	400 ppm	<1 ppm	
Nitric Oxide	50 ppm	0 - 5 ppm	
Ethene	50 ppm	<45 ppm	
Ammonia	20 ppm	0 ppm	Intrinsic Safety Dat
Chlorine	15 ppm	<1 ppm	Maximum at 150 ppr
Hydrogen Cyanide	10 ppm	<5 ppm	Maximum o/c Voltage
Acetylene	10 ppm	<30 ppm	Maximum s/c Curren

designed to operate in a wide range of harsh environments and conditions. However, it is important that exposure to high apors is avoided, both during storage, fitting into instrument and operation. nted circuit boards (PCB's), degreasing agents should be used prior to the sensor being fitted.

dering direct to the pins of DD Scientific Ltd gas sensors will void warranty, please use PCB sockets when

pm	0 ppm	Intrinsic Safety Data	
pm	<1 ppm	Maximum at 150 ppm	0.1 mA
pm	<5 ppm	Maximum o/c Voltage	0.75 V
pm	<30 ppm	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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