Product Data Sheet

P/N:GS+4DT

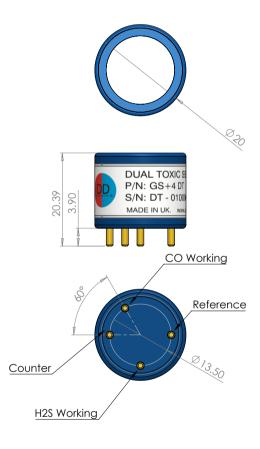
GS+4DT

Carbon Monoxide/Hydrogen Sulphide dual toxic Sensor (CO/H₂S)

Introduction The GS+4DT is the industry leading dual toxic sensor, ideal for multigas portable gas detectors.

Key Features: high stability, fast response and recovery, very low H₂S cross sensitivity on CO electrode

Performance Characteristics	CO Channel	H2S Channel
Output signal	80 ± 30 nA/ppm	775 ± 275 nA/ppm
Typical Baseline Range (pure air)	±2 ppm CO equivalent	± 0.5 ppm H ₂ S equivalent
Filter Capacity	> 20000 ppm hours	-
T90 Response Time	< 30 seconds	< 30 seconds
Measurement Range	0 - 500 ppm	0 - 200 ppm
Maximum Overload	2000 ppm	500 ppm
Linearity	Linear	Linear
Repeatability	< ±3% CO equivalent	$< \pm 2\%$ H ₂ S equivalent
Recommended Load Resistor	10 ohms	10 ohms
Resolution (Electronics dependent)	±1 ppm CO typical	±0.5 ppm H ₂ S typical



Product Dimensions All dimensions in mm

All tolerances ±0.15 mm

 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 Data Sheet

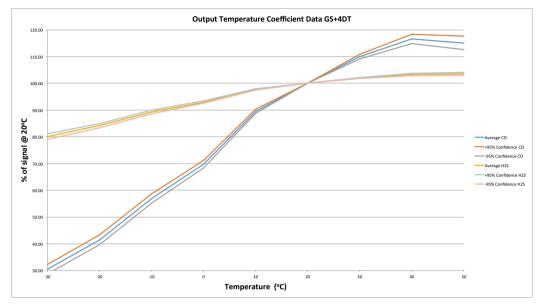
P/N : GS+4DT

GS+4DT

Carbon Monoxide/Hydrogen Sulphide dual toxic Sensor (CO/H₂S)

Lifetime Details	
Long Term Output Drift	< 10% per annum
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			
GAS	CONC.	CO Channel	H ₂ S Channel
Hydrogen Sulphide	25 ppm	< 5 ppm	25 ppm
Sulphur dioxide	5 ppm	0 ppm	< 1 ppm
Hydrogen	100 ppm	<30 ppm	< 0.05 ppm
Nitric Oxide	35 ppm	< 0.1ppm	< 1 ppm
Carbon Monoxide	300 ppm	300 ppm	< 5 ppm
Nitrogen Dioxide	5 ppm	< 0.1 ppm	0 ppm
Chlorine	15 ppm	0 ppm	0 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.

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.

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

DD SCIENTIFIC Limited reserves the right to make product changes without notice. No liability is accepted for any consequential losses, injury or damage resulting from the use of this document or from any missions or errors herein. The data is given for guidance only. It does not constitute a specification or an there have a to the characteristics quoted. As the products are always subject to a program of improvement and testing which may result in some changes in the characteristics quoted. As the products may be used by the client in circumstances beyond the knowledge and control of DD SCIENTIFIC Limited, we cannot give any warry as to the relevance of these particulars to an application. It is the clients' responsibility to carry out the necessary tests to determine the usefulnees of the products and to ensure their safet product application.

