

# Product Data Sheet

P/N : GS+3H2S

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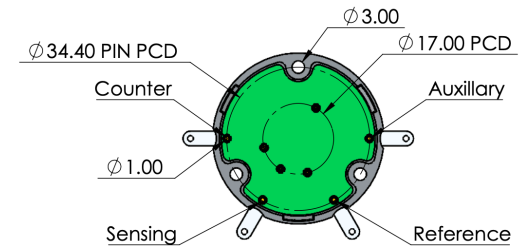
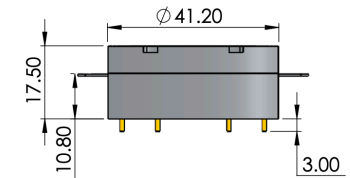
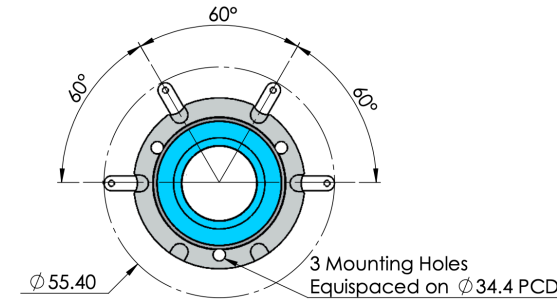
Hydrogen Sulfide (H2S)

Modern take on an old classic

**Introduction** The GS+3H2S is a premium high quality robust H2S sensor

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

Net Sensor Performance Characteristics	
Output signal	370 ± 100 nA / ppm
Typical Baseline Range (pure air)	±1 ppm H2S equivalent
T90 Response Time	< 40 seconds
Measurement Range	0 - 200 ppm
Maximum Overload	1000 ppm
Linearity	Linear
Repeatability	< ±1% H2S equivalent
Recommended Load Resistor	10 ohms
Resolution (Electronics dependent)	0.2 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.

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Website: [www.ddscientific.com](http://www.ddscientific.com)

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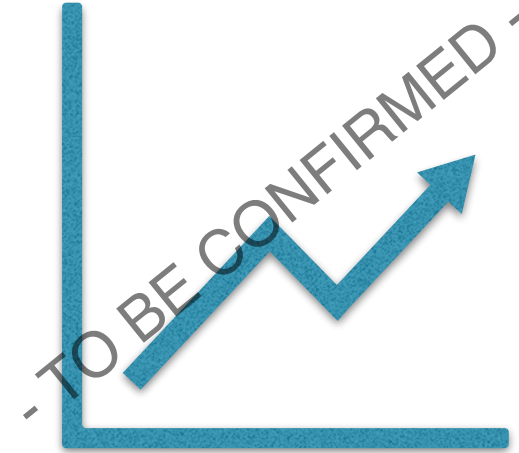
**Product Dimensions**

All dimensions in mm  
All tolerances  $\pm 0.15$  mm



Lifetime Details	
Long Term Output Drift	< 20% per month
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+3H2S
Hydrogen Sulphide	25 ppm	
Nitrogen Dioxide	20 ppm	
Carbon Monoxide	1,000 ppm	
Nitric Oxide	50 ppm	
Ammonia	50 ppm	
Chlorine	20 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

GS+3H2S meets sensor requirements outlined in:

**EN50379**

**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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