Product Data Sheet

P/N: GS+4NH3100

GS+4NH3-100 Ammonia Sensor (NH₃)

Introduction The GS+4NH3 range of sensors are non-biased ammonia sensors great for fixed and portable detectors.

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

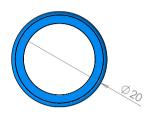
Performance Characteristics		
Output signal	100 ± 30 nA / ppm	
Typical Baseline Range (pure air)	±1 ppm NH3 equivalent	
T90 Response Time	< 40 seconds	
Measurement Range	0 - 100 ppm	
Maximum Overload	200 ppm	
Linearity	Linear	
Repeatability	± 10%	
Recommended Load Resistor	10 Ohms	
Resolution (Electronics dependent)	1ppm	

Environmental Details		
Temperature Range Continuous	-40°C to +50°C	
Pressure Range	800 to 1200 mbar	
Operating Humidity Range	15% to 90% RH	

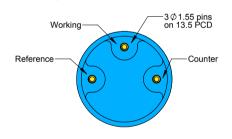
Important Note:

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

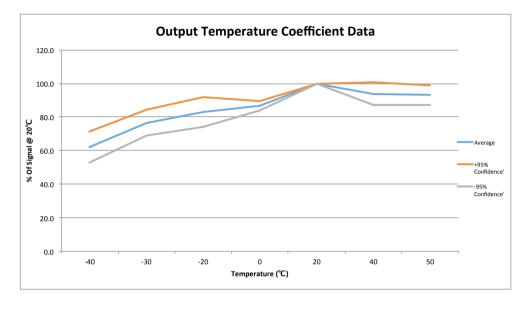


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Lifetime Details		
Long Term Output Drift	< 20% per annum	
Recommended Storage Temp	0°C to 20°C	
Expected Operating Life	> 24 months in air	
Standard Warranty	12 months from date of dispatch	

Cross - Sensitivity Data			
GAS	CONC.	GS+4NH3-100	
Carbon Monoxide	500 ppm	0 ppm	
Hydrogen Sulphide	25 ppm	30 ppm	
Sulphur dioxide	20 ppm	-6 ppm	
Nitrogen Dioxide	5 ppm	-7.5 ppm	
Nitric Oxide	50 ppm	0 ppm	
Hydrogen	100 ppm	0 ppm	
Ethanol	100 ppm	0 ppm	
Carbon Dioxide	5000 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 vapours 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

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