Product Data Sheet

P/N : GS+7NH31000



Introduction The GS+7NH3 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	8 ± 4 nA / ppm	
Typical Baseline Range (pure air)	±10 ppm NH3 equivalent	
T90 Response Time	< 60 seconds	
Measurement Range	0 - 1000 ppm	
Maximum Overload	1500 ppm	
Linearity	Linear	
Repeatability	± 10%	
Recommended Load Resistor	10 Ohms	
Resolution (Electronics dependent)	5 ppm	

Q31.50

AMMONIA SENSOR P/N: GS+7NH3 · 10 S/N: 0010000 MADE IN UK. www.ddser
45° Working \$50
Reference
2 PIPCD
Not Connected Pin

Product Dimensions All dimensions in mm All tolerances ±0.15 mm

	-
- (0	DD Scientific
	DD Scientific

lm	portant	Note:	
A 11			

Environmental Details

Operating Humidity Range

Pressure Range

Temperature Range Continuous

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.

-40°C to +50°C

800 to 1200 mbar

15% to 90% RH

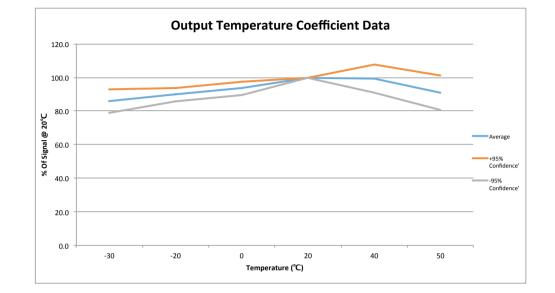
Product Data Sheet

P/N : GS+7NH31000

GS+7NH3-1000 Ammonia Sensor (NH₃)

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+7NH3-1000
Carbon Monoxide	500 ppm	0 ppm
Sulphur dioxide	20 ppm	-6 ppm
Nitric Oxide	35 ppm	0 ppm
Hydrogen	100 ppm	0 ppm
Hydrogen Sulphide	15 ppm	<30 ppm
Nitrogen Dioxide	20 ppm	-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 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

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 omissions or errors herein. The data is given for guidance only. It does not constitute a protection or an offer for sale. The product sare always subject to a program of lipsting subject to a program of lesting 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 be theremine the usefulness of the products and to ensure their safety of operation in a particular application. It is the clients' responsibility to carry out the necessary tests to determine the usefulness of the products and to ensure their safety of operation in a particular application. The Performance characteristics on this data sheet outline the previse soft the products and to ensure their safety of operation in a particular application.

