P/N: GS+7NO2

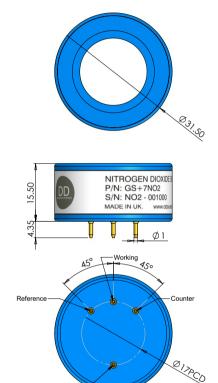
GS+7NO2Nitrogen Dioxide Sensor (NO₂)

Introduction The GS+7NO2 is a premium industrial NO₂ sensor, ideal for fixed gas detectors.

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

Performance Characteristics		
Output signal	1400 ± 300 nA / ppm	
Typical Baseline Range (pure air)	±0.1 ppm NO ₂ equivalent	
T90 Response Time	< 40 seconds	
Measurement Range	0 - 20 ppm	
Maximum Overload	200 ppm	
Linearity	Linear	
Repeatability	< ±2% NO ₂ equivalent	
Recommended Load Resistor	33 ohms	
Resolution (Electronics dependent)	0.1 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	



Product Dimensions
All dimensions in mm
All tolerances ±0.15 mm

Not Connected Pin-

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	etime 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		

	Output Temperature Coefficient Data						
4	120.00						
	110.00						
	100.00						
	90.00						
-	% of signal @ 20°C						
	ignal (Average +95% Confidence				
1	s Jo %		-95% Confidence				
	60.00						
	50.00						
	40.00						
	30.00	0 -20 -10 0 10 20 30 40 55					
1	-30 -20 -10 0 10 20 30 40 50 Temperature (°C)						

Cross - Sensitivity Data			
GAS	CONC.	GS+7NO2	
Carbon Monoxide	300 ppm	0 ppm	
Sulphur Dioxide	5 ppm	0 ppm	
Hydrogen	200 ppm	0 ppm	
Nitric Oxide	50 ppm	<-1 ppm	
Ammonia	50 ppm	0 ppm	
Chlorine	1 ppm	<1 ppm	
Hydrogen Sulphide	15 ppm	-1.5 to 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	

Note: the output of the GS+7NO2 sensor is of a negative polarity compared to CO or H_2S for example.

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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