

Introduction The GS+4NO2 is a premium industrial NO₂ sensor, ideal for portable and fixed gas detectors.

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

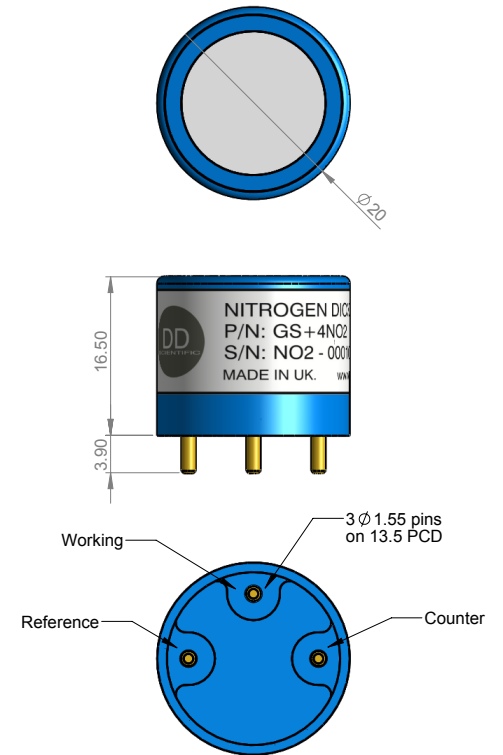
Performance Characteristics	
Output signal	600 ± 150 nA / ppm
Typical Baseline Range (pure air)	±0.2 ppm NO ₂ equivalent
T90 Response Time	< 30 seconds
Measurement Range	0 - 30 ppm
Maximum Overload	200 ppm
Linearity	Linear
Repeatability	< ±2% NO ₂ equivalent
Recommended Load Resistor	10 ohms
Resolution (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

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

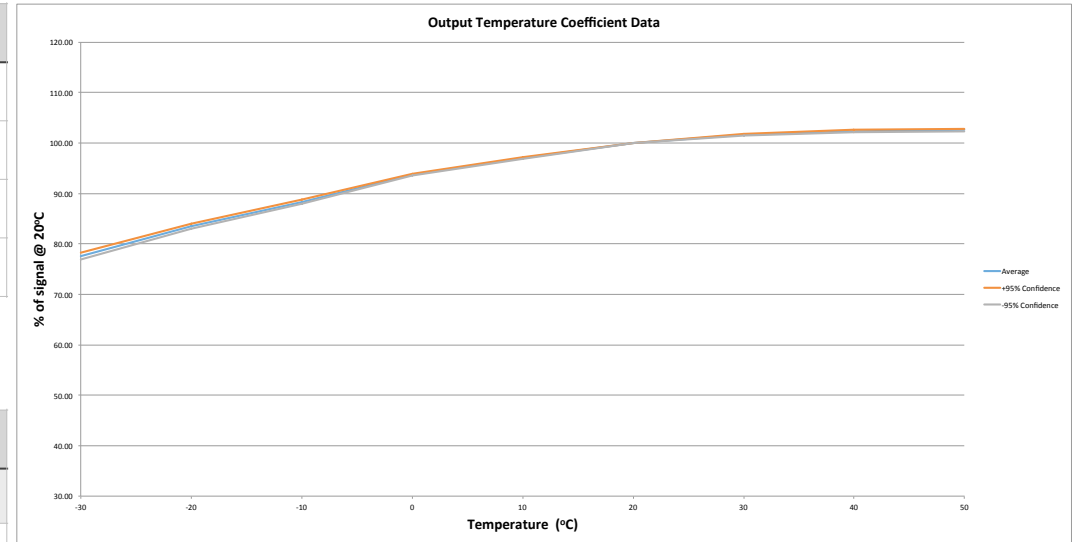
All dimensions in mm
All tolerances ±0.15 mm

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	24 months from date of dispatch

Cross - Sensitivity Data

GAS	CONC.	GS+4NO2
Carbon Monoxide	300 ppm	0 ppm
Sulphur dioxide	20 ppm	0 ppm
Hydrogen	200 ppm	0 ppm
Nitric Oxide	50 ppm	<-1 ppm
Ammonia	50 ppm	0 ppm
Chlorine	1 ppm	0.5 ppm
Hydrogen Sulphide	15 ppm	<1 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+4NO2 sensor is of a negative polarity compared to CO or H₂S 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.

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