

Product Data Sheet

P/N : GS+3NO2

GS+3NO2

Nitrogen Dioxide (NO2)

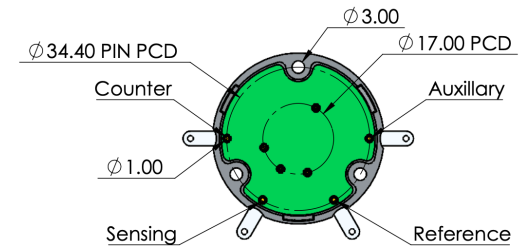
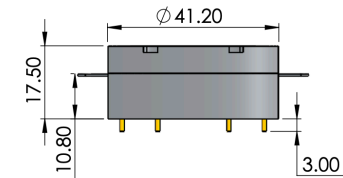
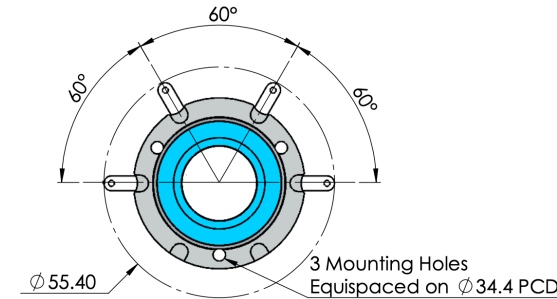
Modern take on an old classic

Introduction The GS+3NO2 is a premium high quality robust NO2 sensor

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

Net Sensor 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	-20°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

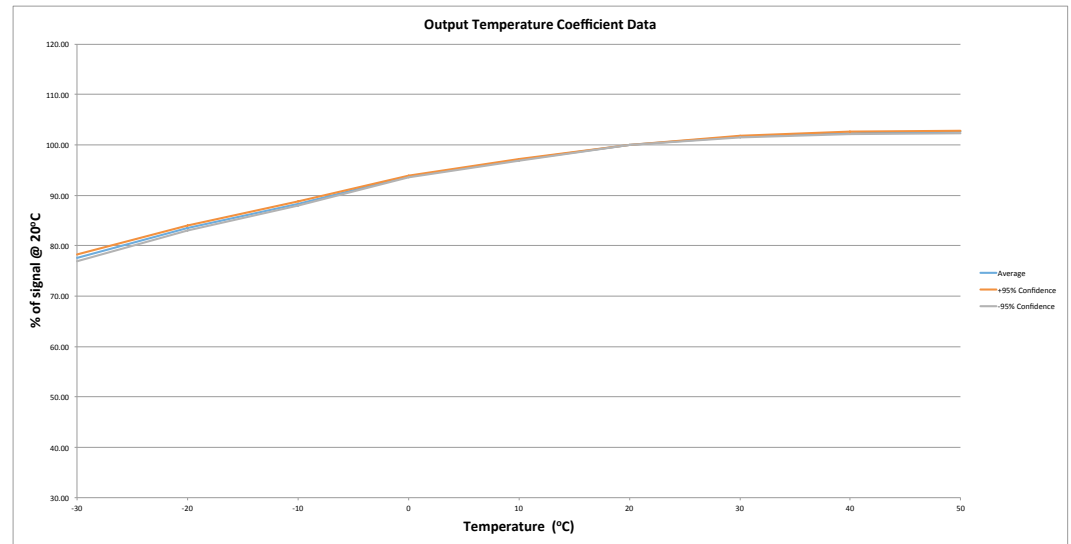
All dimensions in mm
All tolerances ±0.15 mm

Lifetime Details

Long Term Output Drift	< 2% 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+3NO2
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 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

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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