

**Introduction** The GS+4NO is a premium industrial NO sensor, ideal for portable and fixed gas detectors.

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

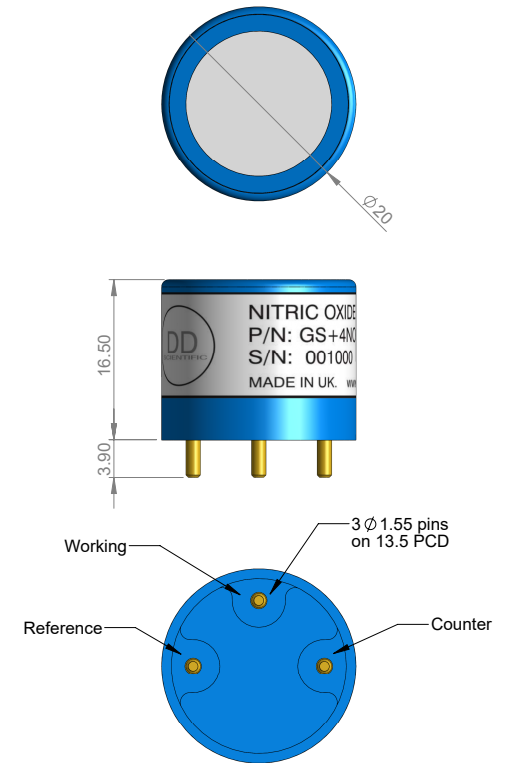
| Performance Characteristics        |                          |
|------------------------------------|--------------------------|
| Output signal                      | 400 ± 100 nA / ppm       |
| Typical Baseline Range (pure air)  | 0 to 2 ppm NO equivalent |
| T90 Response Time                  | < 15 seconds             |
| Measurement Range                  | 0 - 250 ppm              |
| Maximum Overload                   | 1000 ppm                 |
| Linearity                          | Linear                   |
| Repeatability                      | < ±2% NO equivalent      |
| Recommended Load Resistor          | 10 ohms                  |
| Resolution (Electronics dependent) | 0.5 ppm typical          |
| Bias Voltage                       | +300 mV                  |

| 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

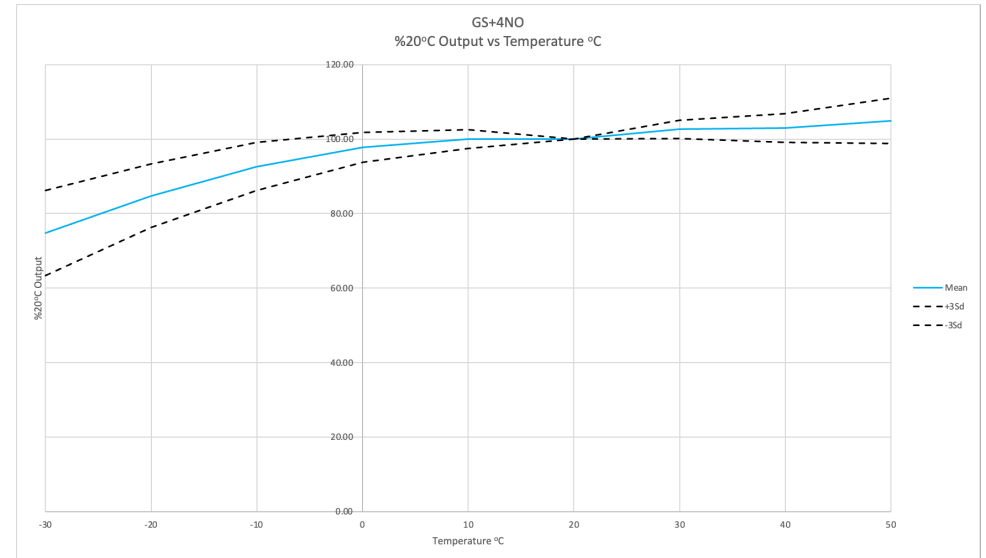
|                          |                                 |
|--------------------------|---------------------------------|
| Long Term Output Drift   | < 20% per annum                 |
| Recommended Storage Temp | 0°C to 20°C                     |
| Expected Operating Life  | > 12 months in air 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

## Cross - Sensitivity Data

| GAS               | CONC.   | GS+4NO   |
|-------------------|---------|----------|
| Carbon Monoxide   | 200 ppm | 0 ppm    |
| Sulphur dioxide   | 20 ppm  | 0 ppm    |
| Nitrogen Dioxide  | 20 ppm  | 0 ppm    |
| Hydrogen Sulphide | 25 ppm  | < 10 ppm |

## Intrinsic Safety Data

|                     |        |
|---------------------|--------|
| Maximum at 2000 ppm | 0.3 mA |
| Maximum o/c Voltage | 1.3 V  |
| Maximum s/c Current | <1.0 A |



### 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 connecting DD Scientific sensors.

**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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