

GS-S-ND Issue: 5.3 Date Of Issue: 05/05/2010 © 2010 Sontay Limited. All rights reserved.

# Internal Wall Mounted Nitrogen Dioxide Sensor

### Features

- 4-20mA Output
- Wide supply voltage range
- Tamperproof lid



### Specification

Output ranges
Output
Supply voltage
Maximum load
Resolution
Sensitivity drift
Temperature range
Pressure range
RH range
Element life
Response time

Zero current Storage

Protection

Dimensions

Country of origin

0-10ppm 4-20mA 10 to 30Vdc 700Ω @ 20mA, 24Vdc <0.02ppm (33Ω load resistor) <2% signal loss/year -30 to +60°C 80 to 120kPa 15 to 90%RH non-condensing 2 years t90 (s) from zero to 10ppm NO2 <60 <± 0.2ppm equivalent in zero air 6 months @ 3 to 20°C IP65 (housing only, suitable for internal mounting only) 55mm x 90mm dia. UK

## **Product Codes**

GS-S-ND10

0-10ppm Nitrogen Dioxide sensor



The **GS-S-ND** is designed for monitoring purposes, and should not be used in safety applications.



#### Technical Overview

The GS-S-ND series of wall mounting Nitrogen Dioxide  $(NO_2)$  sensors are 4-20mA current loop powered, over the range of 0 to 10ppm Nitrogen Dioxide concentration. The sensor has a normal working life of 2 years in air, and needs to be powered up within 6 months of purchase.

#### Installation

- Select a location which will give a representative sample of the prevailing space condition. The GS-S is not suitable for external mounting.
  Avoid mounting the sensor in direct sunlight.
- 2. It is recommended that the unit be mounted with the cable entry at the bottom.
- 3. Remove the front cover by removing the tamperproof screw and twist the lid and separating from the main body.
- 4. Using the base of the housing as a template mark the hole centres. Drill two pilot holes at 85mm centres in the surface to which the sensor is to be mounted.
- 5. Fix the sensor to the wall using appropriate screws.
- 6. The housing is designed to make it easy for an electrical screwdriver to be used if desired.
- 7. Feed the cable through the gland and terminate. Leaving some slack inside the housing, tighten the cable gland onto the cable.
- 8. Replace the lid after the electrical connections have been made, and re-fit the tamperproof screw.

### Connections

Red:	10 to 30Vdc
Black:	4-20mA output



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For the latest information and product updates, register at www.sontay.com

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### Trend Scaling

(0-10ppm)	
Brange	-15
Trange	10
Upper	10
Lower	0
Exp	2