





NITROGEN DIOXIDE DETECTOR

NDD Series

The NDD5B1100 nitrogen dioxide detector uses a superior electrochemical sensor for reliability and accuracy in the most critical applications. The NDD5B1100 provides a 3 wire sourcing 4-20 mA output as well as an alarm relay with three jumper selectable trip level settings.

PRODUCT HIGHLIGHTS

* Superior electrochemical sensor
* 4-20 mA output
* Alarm relay with selectable trip level
* Easy to field calibrate
* Compact, IP65 (NEMA 4X) enclosure

SPECIFICATIONS



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| DESCRIPTION | ENGINEERING SPEC |
| SENSOR TYPE | Electrochemical |
| SAMPLE METHOD | Diffusion |
| MEASUREMENT RANGE | 0-10 ppm |
| ACCURACY | ±02 ppm or 5% of reading (whichever is greater) |
| LIFE EXPECTANCY | >2 years |
| TYPICAL COVERAGE AREA | 700m2 (7500ft2) or 15m (50ft) radius |
| OPERATING RANGE | -20 to 50°C (-4 to 122°F), 15 to 90 %RH (0 to 99% intermittent) |
| PRESSURE | Atmospheric ±10% |
| CONSUMPTION | 50 mA maximum |
| OUTPUT SIGNAL | 4-20 mA sourcing |
| OUTPUT DRIVE @ 24 VAC/DC CAPABILITY | 550 Ω maximum |
| RELAY OUTPUT | SPDT, Form C contact (N.O. and N.C.) 5 Amps @ 30 Vdc, p.f.=1  **Trip Point:** Low = 1, Mid = 3, High = 5 ppm  **Hysteresis:** 3% |
| WIRING CONNECTIONS | Screw terminal block (14 to 22 AWG) |
| EXTERNAL DIMENSION | 71mm W x 104mm H x 28mm D (2.8” x 4.1” x 1.9”) |
| ENCLOSURE RATINGS | ABS, UL94-5VB, IP65 (NEMA 4X) |
| FIELD CALIBRATION | By applying gas standards |
| COUNTRY OF ORIGIN | Canada |