



GREYSTONE ENERGY SYSTEMS INC

NITROGEN DIOXIDE DETECTOR NDD5B1100

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



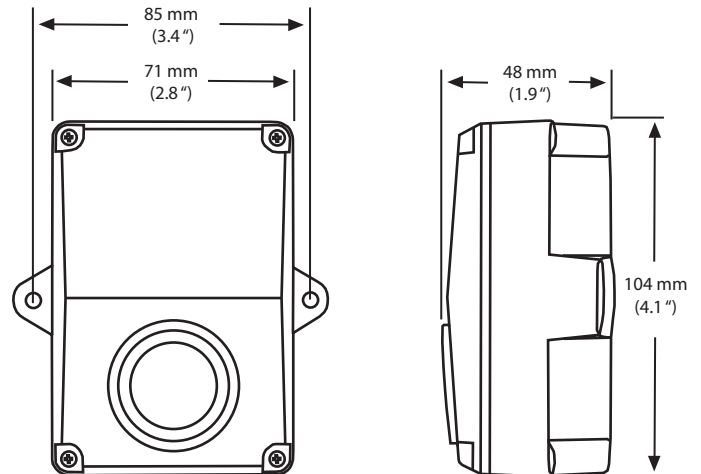
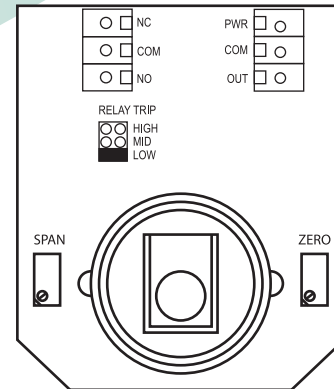
SPECIFICATION:

Sensor Type	Electrochemical
Sample Method	Diffusion
Measurement Range.....	0-10 PPM
Accuracy	±0.2 PPM or 5% of reading (whichever is greater)
Life Expectancy	>2 years
Typical Coverage Area	700 m ² (7500 ft ²) or 15m (50ft) radius
Operating Temperature	-20° to 50°C (-4° to 122°F)
Operating Humidity	15 to 90% RH (0 to 99% intermittent)
Pressure.....	Atmospheric ±10%
Power Supply.....	24 Vdc ±20% (non-isolated half-wave rectified) or 24 Vac ±10%
Consumption	50 mA max.
Output Signal.....	4-20 mA sourcing
Output Drive at Capability.....	550 ohms max. @ 24 Vac/Vdc
Optional Relay Output	SPDT, Form C contact (N.O. and N.C.) 5 amps @ 30 Vdc, p.f. = 1 Trip Point - Low = 1, Mid = 3 or High = 5 PPM, jumper selectable Hysteresis - 3%
Wiring Connections.....	Screw terminal block (14 to 22 AWG)
External Dimensions	71 x 104 x 48 mm (2.8" w x 4.1" h x 1.9" d)
Enclosure Ratings	ABS - UL94-5VB - IP65, (NEMA 4X)
Field Calibration.....	By applying calibration gas standards (Contact Greystone for calibration kit)

PRODUCT ORDERING INFORMATION:

MODEL	Product Description
NDD5B1100	Wall/Surface Mount Nitrogen Dioxide Detector

Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.



TYPICAL INSTALLATION:

For complete installation and wiring details, please refer to the product installation instructions.

The enclosure should be mounted on a flat surface 1-1.5 m (3-5') from the floor of the area to be controlled. Do not mount the sensor near doors, opening windows, supply air diffusers or other known air disturbances. Avoid areas with vibrations or rapid temperature changes.

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