

## Nitrogen Dioxide Detector and Controller

Parking Garage Warehouse Ice Skating Arena Maintenance Facility Storage Facility



# ND-1

- \* Automatic Ventilation Controller
- \* Dual relays: Fan (SPDT) & Alarm (N.O.)
- \* Microcomputer Controlled
- \* Digital Display: 0 to 9 PPM NO2
- \* Highly Linear Electrochemical Sensor
- \* Selectable Set Points & Delay Time
- \* Diesel Exhaust Detection and Control
- Specific to Nitrogen Dioxide.
- Provides Nitrogen Dioxide detection, digital display of level in PPM, a relay to automatically control exhaust fans, a loud audible alarm, and an alarm relay.
- Meets the requirements of OSHA and the state of Wisconsin.
- Housed in Nema 1, UL listed, metal knockout case.
- Internally adjustable set points for fan and alarm relays.
- Adjustable switch for fan delay from 0.5 to 5 minutes.
- Bright LED's show relay status: amber fan LED flashes during delay period and is on steady when the relay closes. The red alarm LED flashes during the 5 minute delay period and is on steady to show the relay has closed.
- Replacement sensors and field calibration kit available. Sensor life is about 2 years.

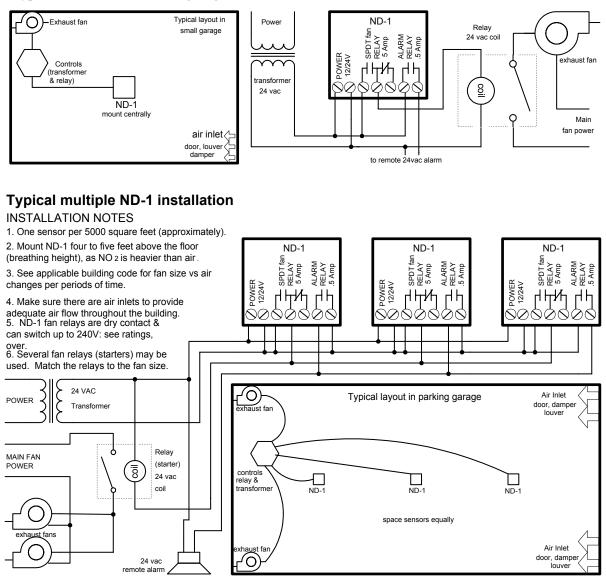
## **SPECIFICATIONS:**

POWER: 1.2 Watts from 12 to 24 VAC or VDC
SIZE: 6 X 6 X 3 inches
COLOR: Gray
SHIPPING WEIGHT: 3 pounds
FAN RELAY: 5 amps, 240VAC, pilot duty, SPDT
ALARM RELAY: 0.5 amps, 200V, 10VA, N.O.
FAN RELAY SET POINT: 0.5 to 3.0 PPM

ALARM RELAY SET POINT: 1.0 to 5.0 PPM OPERATING ENVIR.: 0 to 125° F, 10 to 90% RH LINEARITY: Within 1%. SENSOR OUTPUT DROOP: Less than 2% per month. ALL UNITS ARE FACTORY CALIBRATED TYPICAL COVERAGE: 5000 square feet per unit

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#### Typical Installation in small garage



### **Typical Connection to Alarm Control Panel**

1. ND-1 can be used with 12vdc or 24vdc N.O. (fire) panels.

 Alarm panel provides battery backed up power to ND-1.
 ND-1 dry contact fan relay can use panel power or fan power: check ratings.

4. Match fan relay contacts to fan size, and coil voltage to power source.

5. Alarm Control Panels are available with many features & can control other devices such as smoke detectors, fire detectors & burglar alarms.

