

Product Data

A/NO₂ Series Nitrogen Dioxide Sensor

Nitrogen Dioxide



Product Description

The A/NO₂ transmitters are intended to be used for the continuous monitoring of exhaust in non-hazardous locations. Guidelines provided by NIOSH/OSHA 1987 p. 176 state that current levels are 1 ppm (1.8mg/m³) over a 15 minute period. Indoor concentrations above 0.5 ppm indicate the need for additional ventilation.

The A/NO₂ uses a wide spectrum, long life electrochemical sensor to measure the amount of Nitrogen Dioxide in the environment. It is offered with a factory set range of 0 to 6 ppm, but can be field adjusted to a maximum range of 0 to 10 ppm.

The nitrogen dioxide transmitter provides a linear 4 to 20 mA or 2 to 10 VDC output. All A/NO₂ sensors come with a two year factory warranty. An optional Relay/Buzzer and NEMA 4X rated enclosure may be available upon request. Please contact ACI for more information.

Attributes:

- Field Configurable
- Addressable RS-485 digital communication
- Two optional SPDT relays and audible alarm
- LCD Display or NEMA 4X options
- RoH's Compliant

Applications:

- Parking Garages
- Arenas
- Mining Environments
- Loading Docks
- Arenas
- Refrigerant Equipment Rooms

Product Specifications

Supply Voltage	15 to 40 VDC or 12 to 28 VAC
Supply Current	100 mA nominal / 250 mA surge @ turn on
NO ₂ Measurement Range	0 - 6 ppm (Factory set) / 0-10 ppm (Field adjustable)
Outputs	4-20mA, +2-10VDC, Digital RS-485
Accuracy / Repeatability	+/- 2.5% of Reading / +/- 1.0% of Reading
Response Time	Less than 60 seconds for 90% step change
LCD Display	2 line x 8 digit Alpha Numeric LCD
Relay Rating	(2) SPDT Form 1C rated for 1 Amp dry contact C.5A1500V FCC Part 68
Buzzer Rating	85 dB @ one foot
Sensor Type	Electrochemical
Sensor Life Span	2 to 3 years typical
Operating Temperature Range	-20° to 40°C (-4° to 104°F)
Operating Humidity	15 to 90%, non-condensing
Coverage Area	7,500 Sq. Ft. (max)
Sensor Mounting Height	0 to 2' above floor (0 to 0.5 m)
	Enclosure Flammability rating UL-94-VO

Wiring Diagrams available

C0000165 Rev 1.pdf

DISPLAYS

TEMPERATURE

RELATIVE HUMIDITY

PRESSURE

CURRENT

AIR QUALITY

ACCESSORIES

Dimensions

DISPLAYS

TEMPERATURE

RELATIVE HUMIDITY

PRESSURE

CURRENT

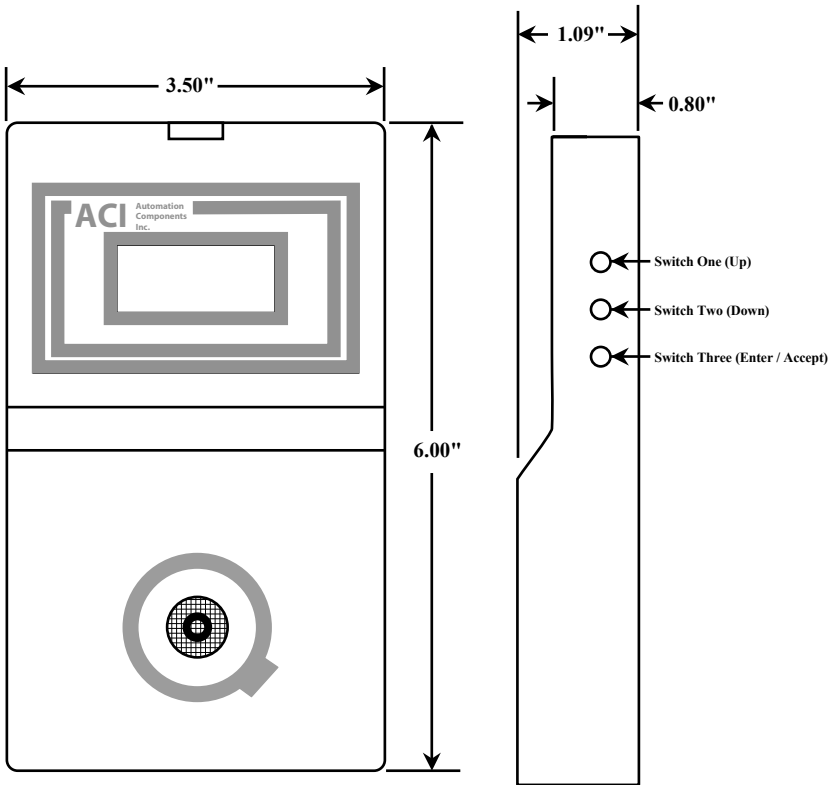
AIR QUALITY

ACCESSORIES

Room
Front

All Dimensions are in Inches

Right Side



Ordering Information

Model	Enclosure	Relay / Buzzer	Display
A/NO2-R (Room)	-[] ↑ () - NEMA 1 (Standard) (4X) - NEMA 4X Housing	-[] ↑ () - none (Standard) (RB) - (2) SPDT Form 1C Relays, and Buzzer	-[] ↑ () - No Display (Standard) (D) - LCD Display (not available w/NEMA 4X Housing)
A/NO2-D (Duct w/pitot tube)	() - NEMA 1 (Standard)	() - none (Standard) (RB) - (2) SPDT Form 1C Relays, and Buzzer	() - No Display (Standard) (D) - LCD Display

Example: A/NO2-R or A/NO2-D-D

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