



# CO AND NO2

## Carbon Monoxide & Nitrogen Dioxide Sensors

The CO and NO2 Series transmitters monitor carbon monoxide, or nitrogen dioxide, and are designed for the continuous monitoring of vehicle exhaust in non-hazardous areas. A wide spectrum, long life electrochemical sensor measures the amount of carbon monoxide or nitrogen dioxide in the environment. Both the Room and Duct transmitters are offered in a standard NEMA 1 rated ABS Polycarbonate plastic enclosure. An optional NEMA 4X watertight and dust proof enclosure is available with the room transmitter. Other options include an LCD display with (2) SPDT Form 1C relays and a buzzer.

The CO and NO2 Series are covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's web site, [www.workaci.com](http://www.workaci.com).



**SPECIFICATIONS**

Supply Voltage	+24 VDC or 24 VAC Floating or one side ground
Supply Current	100 mA nominal/250 mA maximum
Accuracy/Repeatability	+/- 2.5% of Reading/+/- 1.0% of Reading
Operating Range (CO)	0-125 ppm (standard)/0-250 ppm (field adjustable)
Operating Range (NO2)	0-6 ppm (factory set)/0-10 ppm (field adjustable)
Temperature Range	-20° to 40°C (-4° to 104°F)
Operating Humidity	15 to 90%, non-condensing, 0 to 99% Intermittent (non-condensing)
Coverage Area	7,500 Sq. Ft. maximum
Indicators	Two line 8 digit Alpha Numeric LCD (standard)   (2) Red LED's for Relay Status
Sensor Type	Electrochemical
Outputs	4-20 mA, 2-10 VDC, Digital RS-485, (2) SPDT Form 1C Relay
Response Time	Less than 60 seconds typical for a 90% step change
Mounting Height	4 to 6' above floor (CO)/0.5 to 1.5' above floor (NO2)
Sensor Life Span	2 to 3 years typical (under normal conditions)
Relay Contact Arrangement	Two SPDT (2 Form C) Relays
Relay Contact Rating	1A @ 30 VDC / 0.5A @ 125 VAC (Resistive Load)
Relay Life Expectancy	200,000 cycles minimum with 1A @ 30 VDC
Buzzer Rating	Rated for 85 dB @ one foot
Operating Pressure	Atmospheric +/-10%
Product Dimensions (All CO & NO2)	(H) 6.00" (W) 3.50" (D) 1.09"
Product Dimensions (NEMA 4X)	(H) 6.60" (W) 4.20" (D) 2.60"

**ORDERING**

Select one Gas Type (A), one Housing (B) (If any "Room Mount" was selected as a Configuration (A)), one Relay/Buzzer (C) & one Display (D).  
**NOTE:** The LCD option is not available for NEMA 4X related configurations.

A Gas Type	B Housing	C Relay/Buzzer	D Display
<input type="radio"/> CO-R (Room) (Complete B, C & D) <input type="radio"/> CO-D (Duct with Pitot Tube) (Only Complete C & D) <input type="radio"/> NO2-R (Room) (Complete B, C & D) <input type="radio"/> NO2-D (Duct with Pitot Tube) (Only Complete C & D)	<input type="radio"/> ---- (NEMA 1) (Standard) <input type="radio"/> 4X (NEMA 4X)	<input type="radio"/> ---- (None) (Standard) <input type="radio"/> RB (2) (SPDT form 1C)	<input type="radio"/> ---- (No Display) <input type="radio"/> D (LCD Display)

**BUILD PART NUMBER**

After completing (A), (B), (C) & (D) from the above table, fill in the Part Number Table below. An example part number is offered.

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<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>

EXAMPLE: CO-D - RB - D