



CO ROOM

Carbon Monoxide Room Sensor

The CO Room Series monitors carbon monoxide (CO) levels and is designed for the continuous monitoring of vehicle exhaust in non-hazardous areas. This series uses a wide spectrum, long life electrochemical sensor to measure the amount of carbon monoxide in the environment. It is offered with an operating range of 0 to 125 ppm. Room CO transmitters are offered in a standard NEMA 1 rated ABS Polycarbonate plastic enclosure. An optional NEMA 4X watertight and dust proof enclosure is only available with the room configuration. Other options include an LCD display with (2) SPDT Form 1C relays and a buzzer. Calibration gases and a 0.2 to 1 liter/minute flow

limiting gas regulator are not available through ACI. These should be purchased through your local gas supply company or on-line companies such as Portagas® (Praxair®, Inc.) or Mesa Specialty Gases®. Refer to all applicable Federal, State, Provincial and Local Health and Safety laws and regulations before using these products.

Applications: Parking Garages, Arenas, Kitchens, Laundry Rooms, Warehouses, Loading Docks, Service Garages, School Bus Parking Areas

The CO Duct Series is 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 website, www.workaci.com.

PRODUCT SPECIFICATIONS

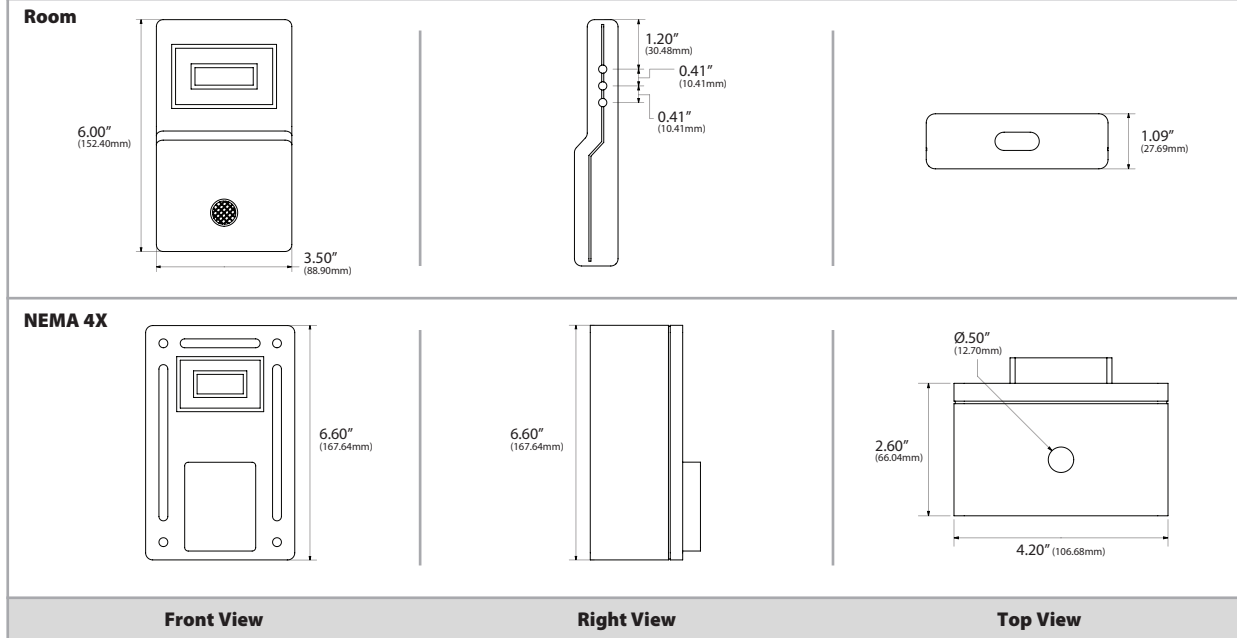
Supply Voltage:	24 VAC +/- 10% Floating; 24 VAC +/- 10%, One side Grounded; 24 VDC
Supply Current:	100 mA nominal 250 mA maximum
Power Usage:	6.6 Watts maximum
Operating Temperature:	-4°F to 104°F (-20°C to 40°C)
Operating Humidity:	15 to 90% RH Continuous, non-condensing; 0 to 99% RH Intermittent, non-condensing
Accuracy:	+/- 2.5% of Reading
Repeatability:	+/- 1% of Reading
Operating Pressure:	Atmospheric +/- 10%
Response Time:	Less than 60 Seconds for 90% of step change
Sensor Type:	Electrochemical
Sensor Life:	~ 5 years under Normal Conditions
Factory Set:	0 – 125 ppm / 0 – 250 ppm Field Adjustable
Coverage Area:	7500 sq. ft; 49' Radius
Indicators:	Alphanumeric, 2 line X 8 digit LCD / (2) Red LED's for Relay Status
Mounting Height:	4' to 6' above the floor
Outputs:	Analog 4-20 mA or 2-10V Jumper Selectable; Digital RS-485
Relay & Buzzer (Optional):	Two SPDT Form C, Dry Contact, 1A @ 30 VDC/0.5A @ 125 VAC (Resistive Load), Buzzer Rating 85 dB @ one foot
Relay Life Expectancy:	200,000 cycles minimum with 1A @ 30 VDC
Time Delays:	Actuation / De-Actuation: 0 to 60 Minutes in 5 minute Increments
Storage:	32° to 68°F (0°C to 20°C)
Shelf Life:	6 Months
Enclosure:	Room: Polycarbonate/ABS Blend, UL94V-0 NEMA 4X: ABS plastic (UL94V-0)
Terminal Blocks:	Fixed, Power wiring: 16 to 26 AWG (0.2 to 1.00 mm ²) Shielded Twisted Pair
Terminal Block Torque Rating:	0.37 ft-lbs (0.5n-3m) Nominal
RS-485 Wiring:	Beldon 9841 or equal
Calibration Equipment:	0.5 lpm Regulator, zero & span gas (supplied by local vendor) Calibration adapter (Part # 83830-020-000)
Product Dimensions:	Room: (H) 6.00" (152.4 mm) x (W) 3.5" (88.9 mm) x (D) 1.09" (27.87 mm) NEMA 4X: (H) 6.00" (152.4 mm) x (W) 4.20" (106.68 mm) x (D) 2.60" (66.04 mm)
Product Weights:	Room: 0.62 lbs (281.2 g) NEMA 4X: 1.34 lbs (607.8 g)

Note: Sensors and system should be scheduled to be tested for accuracy and functionality every 6 months for toxic, and every 3 months for combustible | Recalibrate or replace sensor boards if necessary | When installed @ > 3000' above sea level, the gas transmitters must be verified for accuracy & re-calibrated as needed after installation





DIMENSIONAL DRAWING



STANDARD ORDERING

Model # Example: **CO-R** -OR- **102151**

Model #	Item #	Description
CO-R	102151	CO Room Mount, Standard Room Enclosure
CO-R-RB-D	107556	CO Room Mount with Display, Relay, Buzzer, Standard Enclosure
CO-R-4X	108933	CO Room Mount, NEMA 4X Enclosure
CO-4X-RB-D	108379	CO Room Mount with Display, Relay, Buzzer, NEMA 4X Enclosure

ACCESSORIES ORDERING

Model # Example: **83830-020-000** -OR- **127649**

Model #	Item #	Description
83830-020-000	127649	Calibration Adapter
6300-0041	134187	Replacement Sensors