



CO DUCTCarbon Monoxide Duct Sensor

The CO Duct 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. Duct CO transmitters are offered in a standard NEMA 1 rated ABS Polycarbonate plastic enclosure. 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

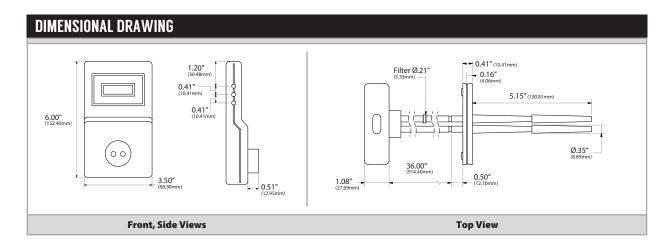
The CO Duct Series is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website, www.workaci.com.

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:	1 Atmosphere (14.7 psi) +/- 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		
Indicators:	Alphanumeric – 2 line X 8 digit LCD / (2) Red LED's for Relay Status		
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 from date of purchase		
Duct Kit Tubing Material:	Vinyl		
Duct Kit Tubing Length:	18"		
Duct Kit In-Line Filter:	5 micron		
Duct Kit Pitot Tube:	3 5/32", Polycarbonate/ABS Blend / UL94V		
Enclosure:	Polycarbonate/ABS Blend, UL94V-0		
Terminal Blocks:	Fixed, Power wiring: 16 to 26 AWG (0.2 to 1.00 nm²) 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:	(H) 6.00" (152.4 mm) x (W) 3.5" (88.9 mm) x (D) 1.6" (40.6 mm)		
Product Weight:	1.00 lbs (0.45 kg)		

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







STANDARD ORDERING ON Model # Example: CO-D-RB-D OR- 107555			
Model #	Item#	Description	
CO-D	102147	CO Duct Mount, Standard Enclosure	
CO-D-RB-D	107557	CO Duct Mount with Display, Relay, Buzzer, Standard Enclosure	

ACCESSORIES ORDERING ON Model # Example: 83830-020-000 -OR- 127		
Model #	Item #	Description
83830-020-000	127649	Calibration Adapter
6300-0041	134187	Replacement Sensors

