Carbon Monoxide (CO) Analog Gas Transmitters

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DESCRIPTION

Analog gas transmitters for the detection of carbon monoxide (CO) in the ambient air.

APPLICATION

To sense carbon monoxide (CO) in a wide variety of commercial and industrial applications such as vehicle exhaust in parking structures, engine repair shops, tunnels, equipment rooms and ventilation systems, etc. and transmit to any compatible electronic analog control, DDC/PLC control or automation system.

· Heater for low temperature

operation, optional

FEATURES

- · Continuous monitoring
- (0)4-20 mA, (0)2-10 VDC output, selectable
- Easy plug-in sensor
- Electrochemical gas sensor, gas specific
- · Polarity protected
- Overload & short circuit protected
- High-impact polycarbonate enclosure, NEMA 4X standard
- Modular plug-in technology
- Easy maintenance

SPECIFICATIONS

Electrical

Power supply Power consumption Sensor Performance Gas detected Sensor element Range

Stability & Resolution Repeatability Long term output drift Response time Sensor life expectancy

Sensor coverage

Installation Location Mounting height Type of Control General 18-28 VDC, polarity protected 22 mA (0.6 VA), max.

Carbon monoxide (CO)

Electrochemical, diffusion
Span field adjustable
from 0-200 to 0-300 ppm
via calibration,
0-250 ppm factory set
± 3.0 ppm of reading
± 3.0% of reading
< 0.4% signal loss/month
t90 < 50 sec.
3-5 years, normal operating
environment
5,000 sq.ft., max. 10,000 sq.ft.
(465 m², max. 930 m²),
under "ideal conditions"

5 to 6 ft. (1.5 to 1.8 m) above floor

Continuous proportional analog sensor signal output

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Intertek CE
NRTL Performance Tested to UL 2075 Standards
EMC Directives 2004/108/EC
EN 61010-1:2010
ANSI/UL 61010-1

- CAN/CSA-C22.2 No. 61010-1
- CE
- City of Los Angeles Approved

(0)4-20 mA, load < 450 Ω;

jumper selectable,

polarity protected

(0)2-10 VDC, load > 50K Ω;

(surface) mounting, and 1 hole on back side of base plate for single gang electrical box mounting

Envi	ron	m۵	ntal	

Analog output

Environmental Permissible ambient - working temperature 14°F to 122°F (-10°C to 50°C) - intermittent temperature -4°F to 122°F (-20°C to 50°C) 41°F to 86°F (5°C to 30°C) - storage temperature - humidity, continuous 15 to 95% RH, non-condensing - humidity, intermittent 0 to 99% RH, non-condensing - working pressure Atmospheric ± 10% Physical Enclosure "A", standard - material Polycarbonate, UL 94 V2, fire-retardant UL 50 - conformity Light gray - color NEMA 4X (IP65) - protection Wall (surface) mounted, or - installation single gang electrical box Dimensions (H x W x D) 5.12 x 3.70 x 2.25 in. (130 x 94 x 57 mm) Cable entry 1 hole for 1/2 in. conduit for wall





PolyGard[®]

LC-1112 V3

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SPECIFICATIONS

Physical (cont)	
Wire connection	Terminal blocks,
	screw type terminal
Wire size	Min. 24 AWG (0.25 mm²),
	Max. 14 AWG (2.5 mm²);
	each terminal connection can
	handle two 18 AWG wires
Weight	0.6 lb (0.25 kg)
Conforms to	
	NRTL Performance Tested
	to UL 2075 Standards
	EMC Directives 2004/108/EC
	EN 61010-1:2010
	ANSI/UL 61010-1
	CAN/CSA-C22.2 No. 61010-1
	CE
	City of Los Angeles Approved
Warranty	Two years material and
	workmanship, 12 months normal
	exposure for sensor element

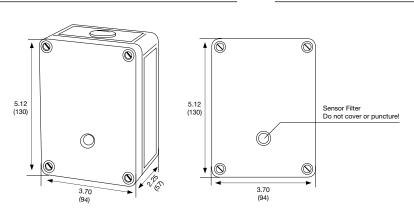
OPTION

Heater, built-in Ambient temperature Power consumption Thermostatic control	For low temperature environment -40°F (-40°C) 0.2 A (5 VA), max. 32°F (0°C) ± 5°F (3°C)
ACCESSORIES	
ADT-ENCL-DKIT-A CALKIT-PG1-CO-LC	Duct Kit for Type "A" Enclosure: replacement enclosure, 10 in. probe, 6 ft. of tubing Calibration Kit includes: Sensor calibration adapter w/ tube and cup, 150 mL/min regulator, 17 L 200 ppm carbon monoxide

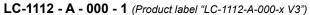
gas bottle, 17 L 99.99% nitrogen gas bottle, carrying case

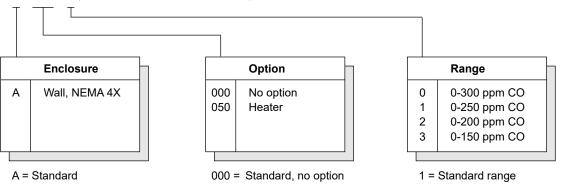
DIMENSIONS

inches (mm)



ORDERING INFORMATION



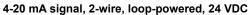


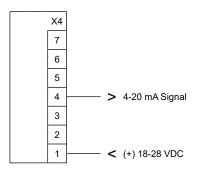


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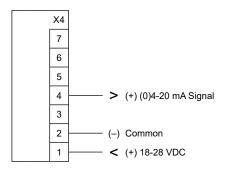
WIRING CONFIGURATION

LC-1112

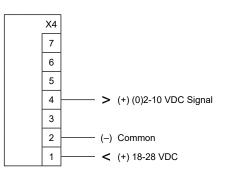




LC-1112 (0)4-20 mA signal, 3-wire, 24 VDC**



LC-1112 (0)2-10 VDC signal, 3-wire, 24 VDC



Jumper output signal range selectors:



= VDC Over both pins Pins not covered = mA



Over both pins = 4-20 mA / 2-10 VDC

Pins not covered = 0-20 mA / 0-10 VDC

Notes: 2-wire loop-powered wire configuration allow only 4-20 mA signal. Signal range jumper selection: 0 0 V-A Pins not covered Pins both covered 0-20%

> ** For (0)4-20 mA signal with optional heater, the 3-wire configuration must be applied.

Twisted, shielded wire is recommended for 2- or 3wire configurations.

Shield should be grounded only at the controller. DO NOT ground shield at both ends!

With optional heater:

The wiring must be sized appropriately for a power of 0.3 A, 24 VDC.

