GAS & SPECIALTY SENSORS

CARBON MONOXIDE SENSOR KCO SERIES

DESCRIPTION

The KCO Series Carbon Monoxide Sensors are available in analog or relay versions. The sensors are provided in heavyduty steel enclosures, and the sensors use low-temperature components that are ideal for open parking garages in cold climates.

The KCO Series Carbon Monoxide Sensors is designed to be used as part of a control system that helps to prevent the formation of a hazardous environment when properly installed and maintained. For more information on the proper application and use of this product please read "Environmental Safety Devices" in our technical reference section.





KCO-R-H







KCO-A-H

Note: Front covers are blank

FEATURES

- Two-stage alarming (KCO-R)
- 0-200 ppm 4-20 mA output (KCO-A)
- Microprocessor controlled recalibration (KCO-A)
- · Heavy-duty enclosures
- Operating temperature down to -4°F(-20°C)
- Low-temperature option available -20°F (-29°C)
- Temperature and humidity compensated

SPECIFICATIONS

Supply Voltage

KCO-A 24 VAC @ 10 VA +20%

KCO-R 24 VAC @ 10 VAC ±20% or 24 VDC

@ 260 mA ±20%

Signal Output (KCO-A) 4-20 mA

Maximum Output

Impedance 500 max Accuracy ±5%

Drift ±10% 2 years

Measurement Range

KCO-A 0-200 ppm KCO-R 0-250 ppm

Sensor Technology Solid-state metal oxide

semiconductor

Sensor Life Expectancy 10 years

Visual Indication

Warning Amber **Alarm** Red

Power on Flashing Green/red

Warm Up Time 30 seconds **Response Time** <30 sec Time Delay (KCO-A) 10 minutes

120 VAC, 2A resistive Relay Output (KCO-R)

Alarm Setpoints

(KCO-R) Warning 50 ppm, alarm 100 ppm

(reset 5-10 ppm change)

Operating Humidity 5% to 95% noncondensing Operating Temperature -4° to 185°F (-20° to 85°C)

Weight 2.0 lb (0.9 kg) Warranty 1.5 year

INSTALLATION

KCO-R

The KCO-R is a two-stage carbon monoxide sensor with a relay output for each stage. If the CO level rises above the warning stage setpoint for over 30 seconds, the warning relay, amber warning LED, and a three-minute minimum "on" timer will activate. Once below the setpoint, the relay and LED will reset. If the concentration continues to rise and exceeds the alarm stage setpoint for 10 minutes, the alarm stage relay and red LED will activate. Calibration of the unit requires the application of a hydrated test gas.

KCO-A

The KCO-A is a microprocessor-controlled sensor with a 4-20 mA analog output based on a 0-200 ppm sensing range. The microprocessor controls the heating of the sensor and subsequent reading of the CO level. The microprocessor compensates for any drift in the sensor over time. The microprocessor system includes self-diagnostic, self-restarting, and remote failure reporting. The output signal will drop below 4 mA if a fault is discovered. If power problems cause the unit to malfunction, the unit will selfcheck and restart. Calibration of the unit requires the application of a hydrated test gas, and the push of a button performs the recalibration.

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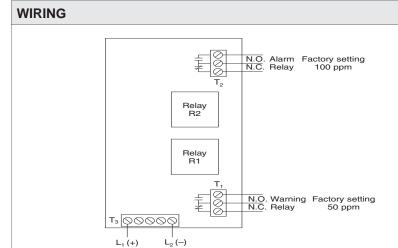
CARBON MONOXIDE SENSOR KCO SERIES



INSTALLATION

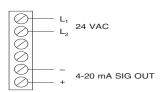
The KCO Series senses levels of CO for up to 5000 ft2 (465m2) of coverage if there is normal air circulation within the area. Mount on a wall or column approximately 5' (1.52m) above the floor. The sensors should not be mounted in corners where airflow could be restricted.

CAUTION: Not for diesel fume applications.



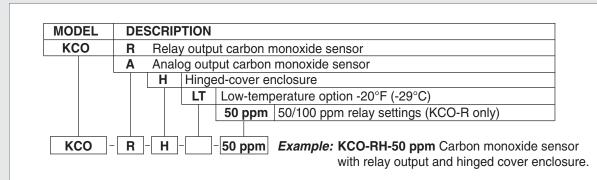
KCO-R

24 VAC/DC



KCO-A

ORDERING INFORMATION



		RELATED PRODUCTS	PAGE
l	GAS-CO-100	100 ppm carbon monoxide (CO) in air, 17L	
l	GAS-CO-200	200 ppm carbon monoxide (C) in air, 17L	
l	GAS-CO-25	25 ppm carbon monoxide (CO) in air, 17L	
l	GAS-CO-50	50 ppm carbon monoxide (CO) in air, 17L	
	UCK-1	Universal calibration kit for non-corrosive gases	
l		(N2, CO2, CH4, H2, O2, CO, and refrigerants)	374

ACCESSORIES		
691-K0A	Control transformer, 120:24 VAC, 40 VA, Class 2	
DCP-1.5-W	Power supply, 24 VAC IN to 24 VDC OUT	
DCPA-1.2	Power supply, 120 VAC IN to 24 VAC/24 VDC OUT	

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