



# GAS & SPECIALTY SENSORS

## CARBON MONOXIDE DETECTORS

### KCOP SERIES

#### DESCRIPTION

The **KCOP Series Carbon Monoxide Detectors** are designed to monitor CO levels in parking garages, loading docks, factories, warehouses, transportation terminals, and more. Models are available with 4-20 mA output or dual relay output for designated warning and alarm CO levels. The detector features a tri-color LED which illuminates green to indicate the unit is powered and functioning properly. On the relay output models, the LED will illuminate amber and red for warning and alarm status. A red LED indicates that the sensor needs to be replaced. The microprocessor-based electronics are housed in a rugged, steel enclosure with hinged- or screw-covers. A low-temperature option is available for colder climates.

NEW!



KCOP-A-S



KCOP-R-H



#### FEATURES

- **LED power indication**
- **4-20 mA or dual relay output**
- **Replaceable sensor**
- **Sensor end of life indication**
- **Jumper selectable warning/alarm levels (KCOP-R)**
- **Heavy-duty enclosures with hinge- or screw-cover**
- **Low-temperature option available -20°F (-29°C)**
- **Temperature compensated**

#### SPECIFICATIONS

<b>Power supply</b>	20-30 VAC/VDC, 10 VA @ 24 VAC; Low temp option: 20-30 VAC/VDC, 35 VA @ 24 VAC	<b>Calibration</b>	Replaceable sensor or recalibrate with 100 ppm CO gas
<b>Sensing technology</b>	Electrochemical	<b>Operating range</b>	5% to 99% noncondensing
<b>Sensor life</b>	Approximately 5 years	<b>Humidity</b>	14° to 140°F (-10° to 60°C);
<b>Detection range</b>	0-200 ppm	<b>Temperature</b>	Low temp option: -22° to 140°F (-30° to 60°C)
<b>Accuracy</b>	±2.5% full scale		Under 15 minutes
<b>Output</b>		<b>Warm-up time</b>	
<b>KCOP-R</b>	Two SPDT relay contacts, 240 VAC, 2A resistive	<b>Dimensions</b>	
<b>KCOP-A</b>	4-20 mA into 500Ω maximum	<b>Hinge cover</b>	5.38"H x 4.88"L x 3.13"D (13.7 x 12.4 x 8.0 cm)
<b>Alarm setpoints</b>	Warning/alarm: 10/20 ppm, 25/50 ppm or 50/100 ppm, jumper selectable, (KCOP-R only)	<b>Screw cover</b>	6.13"H x 6.13"L x 3.18"D (15.6 x 15.6 x 10.6 cm)
<b>Warning stage delay</b>	30 seconds (KCOP-R only)	<b>Weight</b>	
<b>Response time</b>	30 seconds to warning, 13 minutes to alarm (KCOP-R only)	<b>Hinge cover</b>	3.5 lb (1.6 kg)
<b>LED indication</b>		<b>Screw cover</b>	4.0 lb (1.8 kg)
<b>Status</b>	Green: Power on, microprocessor operating properly; Amber: Warning; Red: Alarm	<b>Warranty</b>	18 months
<b>Sensor</b>	Red: Replace sensor		

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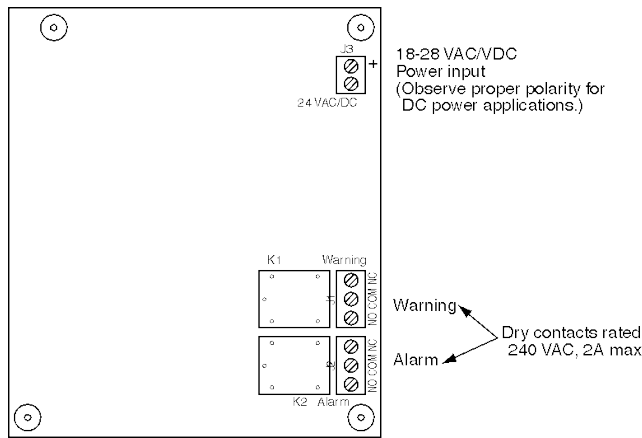
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### INSTALLATION

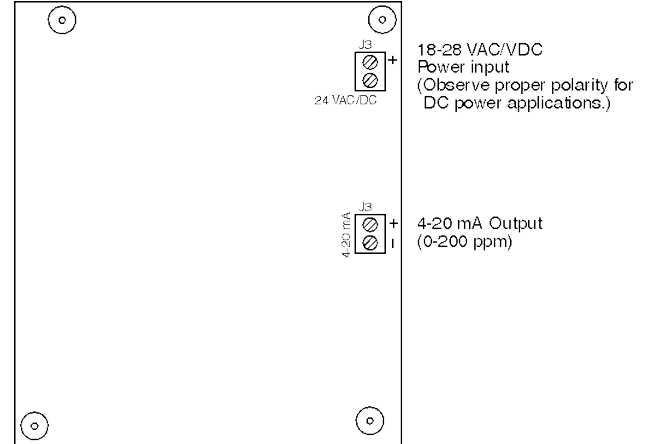
The **KCOP Series** senses levels of CO for up to 5000 ft<sup>2</sup> (465m<sup>2</sup>) of coverage if there is normal air circulation within the area. Mount on a wall or column approximately 5' (1.52m) above the floor. The sensors should not be mounted in corners where airflow could be restricted.

**CAUTION:** Not for diesel fume applications. Not to be used as a life-safety device.

### WIRING



Relay Output



Analog Output

### ORDERING INFORMATION

MODEL	DESCRIPTION
KCOP	<b>R</b> Relay output carbon monoxide sensor
	<b>A</b> Analog output carbon monoxide sensor
	<b>H</b> Hinged-cover enclosure
	<b>S</b> Screw-cover enclosure
	<b>LT</b> Low-temperature option -20°F (-29°C)
	<b>10 ppm</b> 10/20 ppm relay settings (KCOP-R only)
	<b>25 ppm</b> 25/50 ppm relay settings (KCOP-R only)
	<b>50 ppm</b> 50/100 ppm relay settings (KCOP-R only)

**KCOP - R - H - 50 ppm** *Example: KCOP-R-H-50 ppm Carbon monoxide sensor with relay output and hinged cover enclosure.*

**KCOP-S**  
**KCOP-CAL**

**ACCESSORY**  
**Replaceable CO sensor for KCOP Series**  
**Calibration kit for KCOP Series**