

GAS & SPECIALTY SENSORS



CARBON MONOXIDE DETECTORS KCOP SERIES

DESCRIPTION

The **Kele 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.

The **KCOP Series Carbon Monoxide Detectors** are 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.

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 -22°F (-30°C)
- Temperature compensated



KCOP-A-S



KCOP-R-H

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SPECIFICATIONS	
Supply Voltage	Response Time
KCOP 20-30 VAC @ 5 VA or 24 VDC @ 200 mA, 50/60 Hz	KCOP (all) 30 Seconds to warning
LT Option 20-30 VAC @ 26 VA or 24 VDC @ 1.1 A, 50/60 Hz	KCOP-R 13 minutes to alarm
Accuracy	Sensing Technology Electrochemical
KCOP ±2.5% full scale	Sensor Life Expectancy Approximately 5 years
LT Option ±4% full scale	Relay Setpoints Warning/alarm: 10/20 ppm, 25/50 ppm or 50/100 ppm, jumper selectable, (KCOP-R only)(5-10 ppm DIF)
Signal Output	Operating Temperature 32° to 122°F (0° to 50°C) (LT option) -22° to 122°F (-30° to 50°C)
KCOP-R Two SPDT relay contacts, 240 VAC, 2A resistive	Operating Humidity 5% to 99% noncondensing
KCOP-A 4-20 mA @ 600Ω	Dimensions 6.50"H x 6.0"L x 2.13"D (16.5 x 15.2 x 5.4 cm)
Measurement Range 0-200 ppm	Weight
Sensing Technology Electrochemical	KCOP-A 3.5 lb (1.6 Kg)
Calibration Recalibrate with 25 ppm CO gas	KCOP-R 4.0 lb (1.8 Kg)
Visual Indication Status Green: Power on, microprocessor operating properly; Yellow: Warning; Red: Alarm	Warranty 1 year
Warm Up Time Under 15 minutes	



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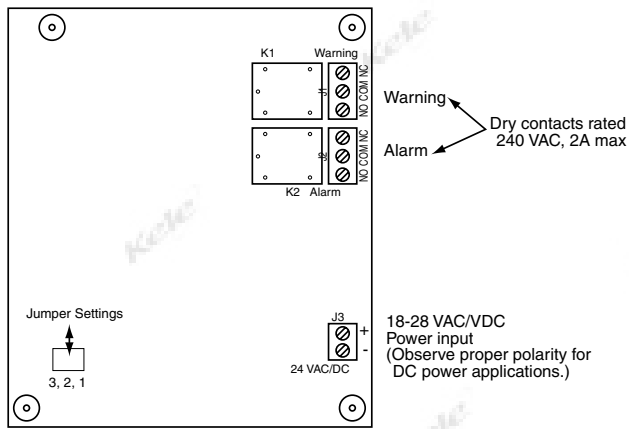
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INSTALLATION

The **KCOP 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.

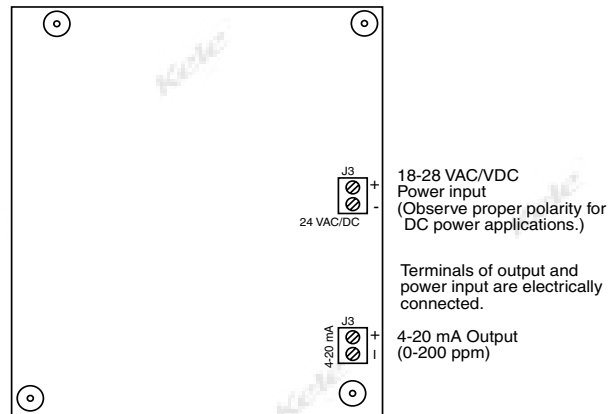
CAUTION: Not for diesel fume applications.

WIRING



- 3 - 50/100
- 2 - 25/50 Relay Range Settings
- 1 - 10/20

Relay Output



Analog Output

The KCOP has a non-isolated bridge circuit. Circuit ground is not electrically isolated from the input power. Use isolated power supply.

ORDERING INFORMATION

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

RELATED PRODUCTS

GAS-CO-25 25 ppm carbon monoxide (CO) in air, 17L

UCK-1 Universal calibration kit for non-corrosive gases (N₂, CO₂, CH₄, H₂, O₂, CO and refrigerants)

KCOPCALIBRATCAP Calibration Cap for KCOP series

CO-SR Replacement sensor for KCOP series

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