

GAS & SPECIALTY SENSORS

COMBINATION CARBON MONOXIDE SENSOR WITH CO₂, RH, OR VOC KCOC SERIES



DESCRIPTION

The **Kele KCOC Series Combination Carbon Monoxide Sensors** pair a CO sensor with a CO₂, RH, or VOC sensor in the same enclosure-reducing installation time and space required. The unit provides visual indication and analog output of CO levels in enclosed spaces such as schools, offices, malls, and theaters. Each transmitter is available with either a 0-10V or 4-20 mA and is scaled from 0-200 ppm of CO and all outputs will use the same output. They are designed with push button calibration and an easily accessible calibration port for field maintenance. Optional audible alarm indication, LCD display, or relay output is available. The optional relay option closes at 30 ppm and opens at 20 ppm, and the audible alarm will sound at 50 ppm.

The **KCOC 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.



Wall Mount

Wall Mount with Display

Duct Mount

7

FEATURES

- *Combines CO sensor with CO₂, RH, or VOC sensor*
- *LED status indication*
- *0-10V or 4-20 mA output*
- *Optional relay output*
- *Isolated power and output*
- *Simple push button calibration*
- *Optional audible alarm*
- *Optional LCD display*

SPECIFICATIONS

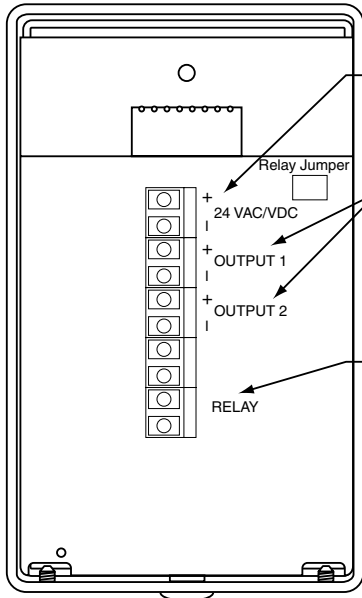
Supply Voltage	18-28 VAC @ 2.5 VA, 50/60 Hz or 18-30 VDC @ 104 mA	VOC	Sintered metal oxide
KCOC		Visual Indication	LED Flashes above 20 ppm of CO Display Optional, four-digit LCD
VOC	18-28 VAC @ 4 VA, 50/60 Hz or 18-30 VDC @ 166 mA	Warm Up Time	<15 minutes (maximum accuracy)
Accuracy		Relay Output	Optional, SPST 2A @ 24 VAC/VDC, closes $\lt; \gt; 20$ ppm
CO	±2.5% full scale	Alarm Auditory Levels [Db]	Optional, 65 dB, set at 20 ppm of CO
CO₂	±3% of reading or ±40 ppm	Operating Temperature	32° to 122°F (0° to 50°C)
RH	5% of reading 20% to 80% RH	Operating Humidity	0% to 99% RH (noncondensing)
VOC	±10% ethanol equivalent	Dimensions	
Signal Output	Analog 4-20 mA @ 600Ω, 0-10V	Wall	4.5"H x 2.8"W x 1.0"D (11.4 x 7.3 x 2.54 cm)
VOC	Stepped output (4, 12, 20 mA) (0, 5, 10V)	Duct	4.5"H x 2.8"W x 6.9"D (11.4 x 7.3 x 17.5 cm)
Measurement Range		Duct Probe	1.7" (4.3 cm) diameter, 6.25" (15.9 cm) long
CO	0-200 ppm	Weight	
CO₂	0-2000 ppm	Wall	0.3 lb (0.14 Kg)
RH	0 to 100% RH	Duct	0.55 lb (0.25 Kg)
VOC	0-1000 ppm ethanol equivalent	Warranty	1 year
Sensing Technology			
CO	Electrochemical		
CO₂	Non-dispersive IR (NDIR)		
RH	Capacitive		



GAS & SPECIALTY SENSORS

COMBINATION CARBON MONOXIDE SENSOR WITH CO2, RH, OR VOC KCOC SERIES

WIRING



Wall Mount

Power input
12-30 VDC
20-28 VAC
(Polarity matters for VDC only)

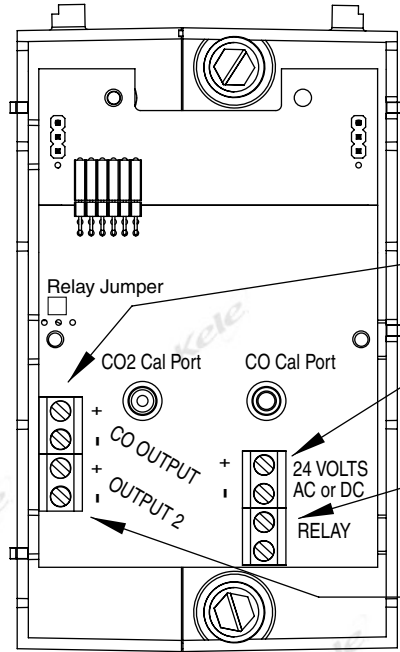
Voltage or current outputs.
All outputs are same type

Not all outputs are used on every unit. See product manual for output assignments.

All '-' terminals are electrically connected, but isolated from power supply.

Dry contact rated
24 VAC, 2A max

Relay is optional and may not be present.



Duct Mount

Voltage or current outputs.
All outputs are same type.

All '-' terminals are electrically connected, but isolated from power supply.

Power input
18-30 VDC
20-28 VAC
(polarity applies to VDC only)

Dry contact rated
24 VAC, 2A max

Relay is optional and may not be present.

2nd sensor output.
See product manual for output type.

7

GAS & SPECIALTY SENSORS

ORDERING INFORMATION

MODEL	DESCRIPTION
KCOC	CO sensor with LED indication
OPTIONAL ADDITIONAL SENSOR (limit of 2)	
CO2	Carbon dioxide sensor
RH	Relative humidity sensor
VOC	Volatile organic compound sensor
MOUNTING	
W	Wall mount
D	Duct mount
ANALOG OUTPUT	
A	4-20 mA output (VOC - stepped 4, 12, 20 mA)
V	0-10V output (VOC - stepped 0, 5, 10V)
OPTIONS (Can be combined)	
A	Audible alarm
LCD	Four-digit LCD display
R	SPST relay output (for CO or VOC)

KCOC - RH - W - A - LCD

Example: KCOC-RH-W-A-LCD Wall mount CO and RH transmitter with 4-20 mA output, and LCD display

ACCESSORIES

691-K0A	Control transformer, 120:24 VAC, 40 VA, Class 2
DGP-1.5-W	Power supply, 24 VAC IN to 24 VDC OUT
DGPA-1.2	Power supply, 120 VAC IN to 24 VAC/24 VDC OUT
GAS-CO-25	25 ppm carbon monoxide (CO) in air, 17L
GAS-CO2-2000	2000 ppm carbon dioxide (CO2) in nitrogen (N2), 17L
UCK-1	Universal calibration kit for non-corrosive gases (N2, CO2, CH4, H2, O2, CO, and refrigerants)