

GAS & SPECIALTY SENSORS

CO₂ AND CO₂/RH SENSORS

KCO2 SERIES



DESCRIPTION

The **KCO2 Series Carbon Dioxide Sensors** measure environmental CO₂ levels for use in demand-controlled ventilation, air-quality monitoring, and other HVAC applications. The sensor provides visual indication and analog output of CO₂ levels. The units are equipped with push-button calibration and an easily accessible calibration port for field maintenance. Optional audible alarm indication, LCD display, or relay output is available.

FEATURES

- 24 VAC/VDC power
- 0-10V or 4-20 mA option
- Optional RH transmitter
- Push-button calibration
- Calibration Port
- Visual LED alarm
- Optional relay, audible alarm and LCD display
- LCD displays either parameter

SPECIFICATIONS

Power supply	20-28 VAC, 50/60 Hz, or 12-30 VDC, 5 VA @ 24 VAC, polarity protected
Sensing technology	CO ₂ : Non-dispersive IR (NDIR); RH: Capacitive
Detection range	CO ₂ : 0-2000 ppm; RH: 0% to 100% RH
Accuracy	CO ₂ : ±3% of reading or ±40 ppm; RH: 5% of reading 20% to 80% RH
Output	0-10V or 4-20 mA (500Ω max) depending on model
Relay output	Optional, SPST 2A @ 24 VAC/VDC, closes >1000 ppm CO ₂
Alarm setpoint	Factory set at 1000 ppm of CO ₂
Visual indication	Flashes above 1000 ppm of CO ₂
LED	Optional, four-digit LCD
Display	Optional, 65 dB, set at 1000 ppm of CO ₂
Audible alarm	<3 minutes
Warm up time	<3 minutes
Operating range	Humidity 0% to 99% RH (noncondensing)
Humidity	32° to 122°F (0° to 50°C)
Temperature	White finish, ABS, UL 94V-0
Enclosure	4.63"H x 2.88"W x 1.0"D
Dimensions	(11.8 x 7.3 x 2.54 cm); Duct probe: 6" L (15.2 cm), 1.7" (4.3 cm) diameter
Weight	Wall: 4 oz (0.11 kg); Duct: 8 oz (0.23 kg)
Warranty	18 months

NEW!

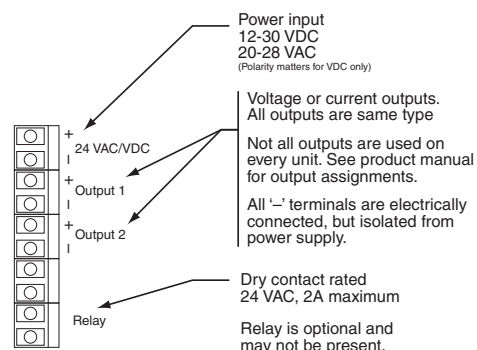


Wall Mount

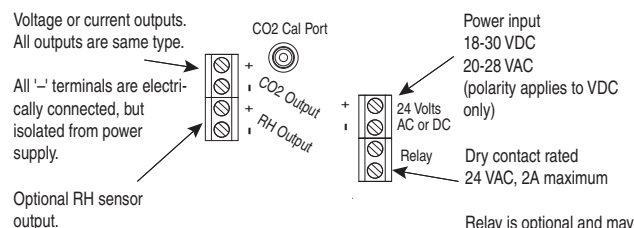


Duct Mount

WIRING



Wall Mount



Duct Mount

ORDERING INFORMATION

MODEL	DESCRIPTION
KCO2	CO ₂ sensor with LED indication
	OPTIONAL ADDITIONAL SENSOR
RH	Relative humidity sensor
	MOUNTING
W	Wall mount
D	Duct mount
	ANALOG OUTPUT
A	4-20 mA output
V	0-10V output
	OPTIONS (Can be combined)
A	Audible alarm
LCD	Four-digit LCD display
R	SPST relay output

Example: KCO2-RH-W-A-LCD Wall mount CO₂/RH transmitter with 4-20 mA output, and LCD display