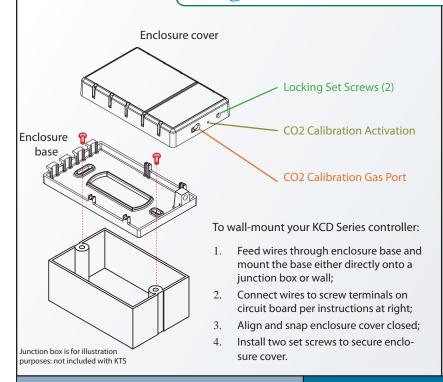
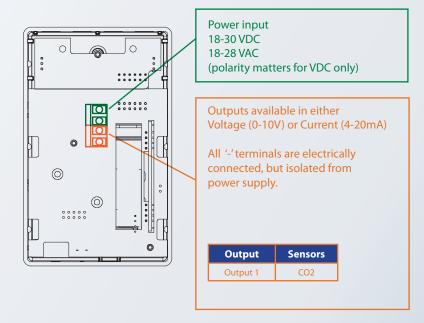
Kele

KCD Wall Mount Wiring and Calibration Instructions

Bottom Side

Isometric View





Warning And Alarm Indication		
Sensors	Warning level LED is YELLOW relay actuates (if equipped)	Alarm level LED is RED beeper sounds (if equipped)
CO2	1000 ppm	2000 ppm

Analog Output Scaling			
Sensors		CO2 ppm	
Current Output	4 mA	0	
	12 mA	1000	
Output	20 mA	2000	
Voltage Output	0 Volts	0	
	5 Volts	1000	
	10 Volts	2000	

Calibration-Kit

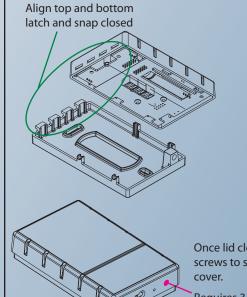
Your sensor comes factory-calibrated and does not need to be calibrated upon initial installation. Calibration kits are available.

CO2 Calibration Procedure





- 3. Allow calibration gas to flow for one minute, then use a 1/16" allen wrench (or equivalent) to depress switch (inside hole 3 at left) for 5 seconds. LED will blink yellow.
- 4. After **5 minutes** the LED will **blink green.** The calibration process is completed.
- 5. Press and hold switch (labeled 3 at left) to accept calibration. The LED will turn **solid green** after only a few seconds, indicating that calibration is complete.
- 6. At this point it is safe to turn off gas and remove gas tubing from calibration port.
- 7. When calibration is complete, replace dust cover on gas calibration port.



Once lid closed, insert setscrews to secure enclosure cover.

Requires 3/32"Allen wrench.

Introduction

The KCD Series is a non-dispersive infrared analyzer for measuring environmental CO2 concentration in ventilation systems and indoor living spaces. Its measurement range of 0 - 2000 ppm (parts per million; 1000 ppm = 0.1%) covers the range required to monitor compliance with ASHRAE or other ventilation efficiency standards. The KCD comes configured for:

- Wall or duct-mounting;
- Voltage or 4-20mA outputs

A simple one-point calibration procedure and a built-in calibration port that requires no special fittings or adapters make the KCD simple to operate and maintain.

Displays and Indicators

The KCD Series includes a single tri-color LED on the front panel which illuminates whenever the unit is operating. This LED indicates:

- Green -> all sensor/s at normal levels
- Yellow -> one or more sensors at Warning levels
- Red -> one or more sensors at Alarm level
- Blinking Red -> one or more sensors have failed

CARBON DIOXIDE SENSOR (CO2)			
Parameter	Value		
Operating Principle	Non-dispersive infrared (NDIR)		
Gas Sampling Method	Diffusion		
Measurement Range	0-2000 ppm (Other ranges available by request)		
Repeatability	± 20 ppm CO2		
Measurement Accuracy	± 30 ppm ± 2% of reading		
Recommended Calibration Interval	5 years		
Warm Up Time	Less than 1 minute		
Power Requirements	18 - 30 VDC or 18 - 28 Vrms AC		
Operating Temperature Range	0 - 50 °C		
Operating Humidity Range	0 - 99% RH, non-condensing		
Voltage Output (linear)	0 - 10 VDC full-scale standard		
Optional Current Output (linear)	4 -20 mA R_{LOOP} < 600 Ω		
Calibration	ONE Point : Single-button calibration (Patented)		
Dimensions	4.5 x 2.8 x 0.9 inches		

















KCD Series