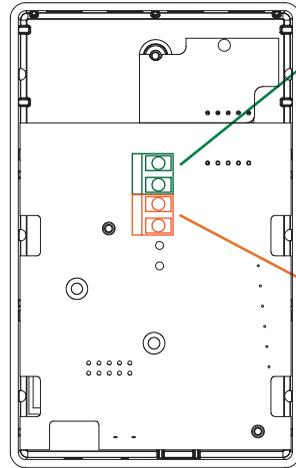


- To wall-mount your AirSense Model 308 Series controller:
1. Feed wires through enclosure base and mount the base either directly onto a junction box or wall;
  2. Connect wires to screw terminals on circuit board per instructions at right;
  3. Align and snap enclosure cover closed;
  4. Back set screw out to secure enclosure cover.

Junction box is for illustration purposes: not included with KTS



Power input  
18-30 VDC  
18-28 VAC  
(polarity matters for VDC only)

Outputs available in either Voltage (0-10V) or Current (4-20mA)  
All '-' terminals are electrically connected.

Output	Sensors
Output 1	CO2

Warning And Alarm Indication		
Sensors	Warning level LED is YELLOW	Alarm level LED is RED
CO2	1000 ppm	2000 ppm

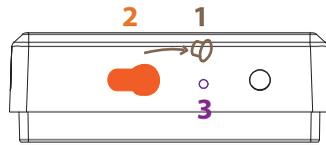
Analog Output Scaling		
Output	CO2 ppm	
Current Output	4 mA	0
	12 mA	1000
	20 mA	2000
Voltage Output	0 Volts	0
	5 Volts	1000
	10 Volts	2000

**Calibration-Kit**

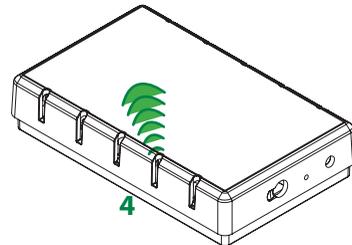


Your sensor comes factory-calibrated and does not need to be calibrated upon initial installation. Calibration kits are available.

**CO2 Calibration Procedure**



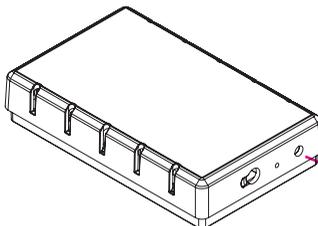
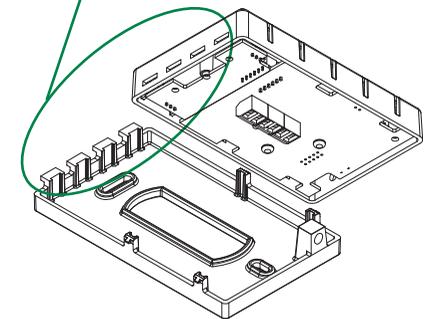
Bottom Side



Isometric View

1. Temporarily remove dust cover from left side of enclosure cover.
2. Place 2000 PPM CO2 calibration gas tube in side port and slide onto the fitting inside. Turn on gas.
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

Align top and bottom latch and snap closed



Once lid closed, back out set-screw to secure enclosure cover.  
Requires 3/32" Allen wrench.

## Introduction

The AirSense Model 308 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 AirSense Model 308 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 AirSense Model 308 simple to operate and maintain.

## Displays and Indicators

The AirSense Model 308 Series includes a single tri-color LED on the front panel which illuminates whenever the unit is operating. This LED indicates:

- **Green** -> CO2 sensor at normal levels
- **Yellow** -> CO2 sensor at Warning levels
- **Red** -> CO2 sensor at Alarm level
- **Blinking Red** -> Sensor error

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, whichever is greater
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 $R_{LOOP} < 600 \Omega$
Calibration	ONE Point : Single-button calibration (Patented)
Dimensions	4.5 x 2.8 x 0.9 inches



 Conservation



 Efficient



 Performance



 **irSense™**  
Professional Series

