

## Introduction

The 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 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

	CARBON DIOXIDE SENSOR (CO2)		
	Parameter	Value	
5	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	$\pm$ 30 ppm $\pm$ 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 $R_{LOOP} < 600 \Omega$	
2	Calibration	ONE Point : Single-button calibration (Patented)	
	Dimensions	4.5 x 2.8 x 0.9 inches	





## **Displays and Indicators**

the 308 simple to operate and

maintain.

The 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

The display option adds a 4 digit liquid crystal display (LCD) to the front panel (availble in duct unit). The display shows the measured:

• CO2 concentration in parts per million (ppm)







REV 3/9/2015