



tion is complete.

calibration port.

port.

Isometric View

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

7. When calibration is complete, replace dust cover on gas calibration

6. At this point it is safe to turn off gas and remove gas tubing from

Select Allows user to select which

parameter is being displayed.

Models reporting only CO2 (with out RH

'Select' buttons.

option) will not be equipped with 'Mode' and

Bottom Side

Introduction

The 350CO2 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 350CO2 comes configured for:

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

Options include:

- CO and VOC sensors
- No or NC relay;
- Liquid-Crystal Display (LCD);
- Alarm;
- RH sensor

A simple one-point calibration procedure and a built-in calibration port that requires no special fittings or adapters make the 350CO2 simple to operate and maintain.

Displays and Indicators

The 350CO2 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

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

- CO2 concentration in parts per million
- (ppm)
- Relative Humidity in %



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	\pm 30 ppm \pm 2% of reading	
Recommended Calibration Interval	5 years	
Warm Up Time	Less than 1 minute	
Calibration	ONE Point : Single-button calibration (Patented)	

CARBON MONOXIDE SENSOR (CO)			
Parameter	Value	Comments	
Sensor type	Electrochemical		
Measurement range	0 – 200 ppm CO		
Accuracy	± 2.5% of full scale	0 – 50 °C	
Recommended Calibration Interval	2 years		
Sensor Life	5 years typical	Actual life depends on ambient humidity & temperature.	

VOLATILE ORGANIC COMPOUND SENSOR (VOC)		
Parameter	Value	
VOCs detected	Alcohols, aldehydes, ketones, organic acids, amines, aliphatic and aromatic hydrocarbons	
Typical response time	<1 minute to 90% full scale	
Warmup time	2 Hours	







Overall Specification		
Parameter	Value	
Power Requirements	18 - 30 VDC or 18 - 28 Vrms AC	
Power Consumption	2.5 VA (with out VOC sensor)	
	4 VA (with VOC sensor)	
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 $R_{LOOP} < 600 \Omega$	
Storage Temperature	-10 to 60 ⁰ C	
Dimensions	4.5 x 2.8 x 0.9 inches	

