

# CO2 Control

0-2000 ppm w/display, surface mount

Item #: 14905

Variant: 24V 50/60Hz

This product has been discontinued

The CO2 sensor represents a wall mount carbon dioxide, humidity and temperature transmitter with display and active humidity and temperature outputs. It provides controlled ventilation with easy installation and a clean, modern look that suits most indoor environments.

The sensor is used mainly for demand-controlled ventilation to prevent energy losses from over-ventilation while maintaining indoor air quality, such as a conference room, classrooms, gyms and fitness centers.

## Sensing Method

Non-dispersive infrared (NDIR)

## Sensing Element

Capacitive polymer sensor

## CO2 Measurement Range

0 to 2000 ppm (0 ppm = 0 V, 4 mA; 2000 ppm = 10/5V, 20 mA)

## CO2 Accuracy Single Channel

400-1250 ppm  $\pm 30$  ppm or 3% of reading (whichever is greater)

1250-5000 ppm  $\pm 5\%$  of reading + 30ppm

\*Tolerance based on span gas of  $\pm 2\%$

## Power Supply Requirements

18-30V AC RMS, 50/60 Hz

## Power Consumption

0.7 W at nominal voltage of 24V AC

## Temperature Dependence

$\pm 0.11\%$  per °F (0.2% FS per °C)

## Flammability Classification

UL94 5VA

## RH Range

0% to 99% RH (non-condensing)

## RH Accuracy at 77°F (25°C)

$\pm 2.5\%$  RH (20 to 80% RH)



±3.5% RH (80% RH)

**Active Temperature Accuracy**

±0.8°C at 72°F (22°C)

Active Temperature Range

32°F to 122°F (0°C to 50°C)

**ABC Logic™ Self Calibration System**

ABC Logic™ (Automatic Background Calibration) self-calibration allows the sensor to continually recalibrate itself when the indoor concentrations drop to outside levels while the building is unoccupied. Generally, a building must be regularly unoccupied for 4 hours or more for this self-calibration system to operate properly. Under these conditions, ABC Logic™ should maintain sensor calibration over the lifetime of the sensor. The ABC Logic™ should be turned OFF where a building is continuously occupied 24 hours per day, or where there could be significant sources of non-occupant related CO2 such as greenhouses, breweries and other industrial and food processing applications.

**Output Analog**

0 to 5 V, (100 Ω output impedance)

0 to 10 V (100 Ω output impedance)

4 to 20mA (RL maximum 500 Ω) available simultaneously for CO2 output

Digital to analog error ±1%