

CO₂ MONITOR / CONTROLLER

- 5 years between re-calibration
- New lower price
- 4-20mA or voltage selectable
- Programmable alarm optional

The AirSense model 310 is a non-dispersive infrared analyzer for measuring CO₂ concentration in ventilation systems and indoor living spaces. Its measurement range of 0-5000ppm covers the range required to monitor compliance with ASHRAE or other ventilation efficiency standards.

Packaged in a compact, distinctively styled enclosure, the Model 310 can be discreetly installed anywhere from the board room to the boiler room. Standard center wiring access and fully floating outputs make installation a snap.

The model 310 provides several output alternatives. A voltage or 4-20mA current output is standard. An optional LCD readout is available. An optional relay contact can be configured to open or close above a user-adjustable setpoint.

A simple one-point calibration procedure and a built-in calibration port that requires no special fittings or adapters make the Model 310 simple to maintain.

Displays and Indicators

The basic Model 310 has a single green LED on the front panel which illuminates whenever the unit is operating. This LED is on steady when the measured concentration is below the high limit, and blinks whenever the concentration is above the limit. The standard factory high limit is 1000ppm, but can be easily adjusted in the field. 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.



Repeatability

+/-20ppm

Accuracy +/-5% of reading or +/-75ppm, whichever is greater

Response Less than 1 minute

Pressure Dependence

0.003% per ft altitude. Can be field corrected.

Annual Drift +/-75 ppm

Calibration Interval 5 years

Operating Temperature Range 0-50C

Operating Humidity Range 0-90% RH (non Condensing)

Dimensions 5.2" X 3.2" X 1.4" (6.5 oz)

Power Input 20-28 VAC, 18-30VDC less than 2W @24VDC

Optional Display 4 Digit LCD Display

Analog Output 0-10 V or 4-20 mA jumper selectable. Shipped with 0-2000ppm range. Field adjustable to any subset between 0 and 5000ppm

Measurement Range 0-5,000 ppm

Relay 2 A @24VAC, field adjustable high limit jumper selectable as N/O or N/C

ORDERING DATA

310 CO2 Wall transmitter

310-RL CO2 Wall transmitter-LCD/Relay

310-D CO2 Duct transmitter

310-CALKIT

Calibration Kit

ENERCORP

instruments ltd

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