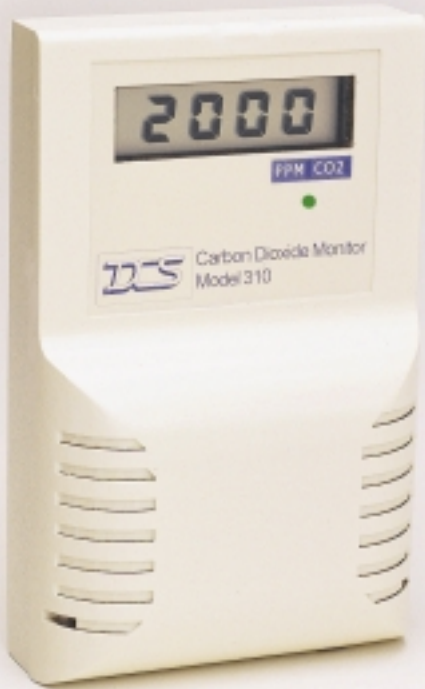




Breathe Easier With

AirSense™

Model 310 Infrared Carbon Dioxide Sensor



This state-of-the-art instrument measures carbon dioxide (CO₂) concentrations in the parts per million (ppm) range and is ideal for applications ranging from conference rooms to home gyms.

Fresh air contains 350-400 ppm CO₂. Human respiration and combustion by-products from furnaces, fireplaces, and household appliances can easily raise indoor levels above 2000 ppm. With your AirSense™ Model 310, you can watch CO₂ levels rise as people enter a room.

According to the National Institutes of Occupational Safety and Health, increased levels of CO₂ may contribute to “Sick Building Syndrome” and symptoms such as hyperventilation, headache, dizziness, shortness of breath, and drowsiness. The AirSense™ Model 310 CO₂ monitor provides a continuous, accurate reading of indoor CO₂ levels, making it easy to maintain an optimum level of fresh air.

Applications



Conference Room



Greenhouse



HVAC/Ventilation



Workout Room/Gym

Enmet Canada Ltd.

1-800-367-4706

www.arjayeng.com



Duct Kit

The AirSense™ Model 310 is easy to install and support. Measurement output is via a 4 - 20 mA current loop or a 0 to 10 volt interface. A completely isolated power supply eliminates any ground loop or electrical interaction problems when multiple units are connected to the same controller. Low power consumption makes the AirSense™ Model 310 perfect for battery-operated or other power-sensitive applications.

The AirSense™ Model 310's single gas verification makes field calibration a snap, and its superior design means significantly longer calibration intervals. Unlike other models, its simple user interface has no complicated menus: all maintenance and calibration operations are easily performed even on units with no display.

The AirSense™ Model 310's versatility is enhanced by options to satisfy most applications. The clear, bright 0.4" high LCD display option is readable from any angle for installations where local annunciation of the CO₂ concentration is desired. For direct control applications, the relay option can be configured to open or close above the setpoint and is easily adjusted in the field. For plenum sampling requirements, the popular duct option is easy to install.

Parameter	Value
Operating principle	Non-dispersive infrared (NDIR)
Gas sampling method	Diffusion or available duct kit
Measurement range	0-2000 ppm
Repeatability	± 20 ppm
Measurement accuracy	± 5% of reading or 75 ppm, whichever is greater
Recommended calibration interval	5 years
Warm up time	Less than 1 minute
Power requirements	18 - 30 VDC or 18 - 28 V _{RMS} AC
Power consumption	Less than 1 watt
Operating temperature range	0 - 50° Celsius
Operating humidity range	5 - 95% RH, non-condensing
Voltage output (linear)	0 - 10 VDC full scale standard. Range field adjustable from 1-10 VDC
Current output (linear)	4-20 mA (R _{LOOP} : 400 Ω maximum)
Optional LCD display	4 digit, .4" high
Optional relay contact rating	3 Amps @ 24 VAC
Optional relay setpoint range	0 to full scale
Case dimensions	5.25" x 3.25" x 1.4"
Enclosure material	Satin finish, high impact plastic

Ordering the AirSense™ Model 310

310 X X X X

X — Transformer (Supplied Loose)
With 110 VAC Transformer = T

X — Duct Kit
With Duct Kit = D

X — LCD Display
With LCD Display = L

X — Relay
With Relay = R

Transformer (Supplied Loose)
With 110 VAC Transformer = T

Duct Kit
With Duct Kit = D

LCD Display
With LCD Display = L

Relay
With Relay = R

Example: To order an AirSense™ Model 310 with a relay, 4 digit display, a duct kit and 110VAC transformer, the part number is **310RLDT**.

TABLE 1

Available Options	Option Code
Relay	R
LCD Display	L
Duct Kit	D
110 VAC transformer	T

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Specifications subject to change without notice