

CT9210 Greenhouse CO₂ Controller



A Simple Plug & Play Controller

The CT9210 is a two-piece controller that includes a wall mount CO₂ sensor and a plug-in 120 VAC switch that powers the sensor and can activate any 120V device based on the CO₂ level in the space. Ideal for activating CO₂ generators or CO₂ canister valve release.

Key features of the CT9210 CO₂ controller include:

- ❑ Uses a high quality infrared sensor that has been proven in thousands of products over the last 18 years.
- ❑ LEDs on the cover of the sensor indicate: 1) low CO₂ levels, 2) ideal levels and, 3) elevated levels of CO₂.
- ❑ LEDs on plug-in controller indicates when outlet is powered and when the plug is active.
- ❑ A 10 ft plug-in cord provides power to the sensor and control signal to the plug.
- ❑ Factory configured to maintain a level of between 1400 and 1450 ppm in the space.
- ❑ Ability to switch up to a 10-amp load.
- ❑ Quickly calibrated in outside air at the press of a button.

Length Does Matter...

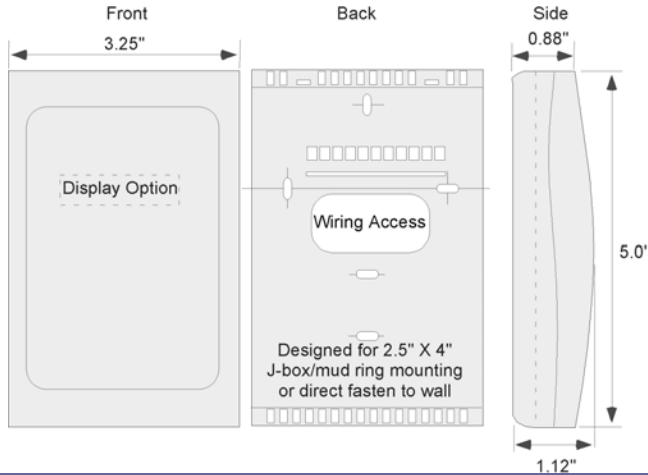
The AirTest CO₂ transmitter has proven itself to be the most trouble free CO₂ product available today. An important reason for this is the unique, patented, oval design of the sensor. All competitive sensors use a straight path of infrared energy shining through an air sample to measure CO₂. The amount of gas that can be sampled, called the "path length" is limited by the size constraints of their wall-mounted and duct-mounted cases.

The AirTest design, using a similar sized case, provides over double the path length of any other CO₂ sensor (4.8") by bouncing the light around the small oval sensor element. Longer path length means that a larger sample of air is measured. In technical terms this results in an increased signal-to-noise ratio. This means that the AirTest sensor performs better at long-term sensor stability and accuracy than other devices.

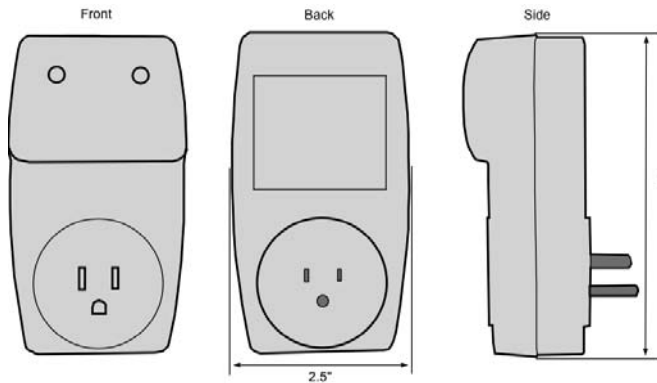
Greater dependability is the ultimate result.



Dimensions TR9294 (New Wall Mount)



Dimensions: Outlet Controller



Outside Air Calibration Button

Rear of Sensor Case



Specifications

General

CO₂ Detection Method: Gold Plated Non-Dispersive Infrared Optical Sensor, 4.8" optical path length, diffusion sampling.

Certification: CE, EMC89/336/EEC

Transmitter Rated Life: minimum 15 years

Operating Conditions: 32 to 122° F (0 to 50°C), 0 to 95% RH

Storage Conditions: -40 to 158° F (-40 to 70° C)

Sensor Performance

CO₂ Measurement Range: 0-2000 ppm (factory adjustable to 10,000 ppm upon request),

CO₂ Accuracy: +/- 1% of measurement range +/- 3% of measured value.

Calibration: Annual or as needed, expose to outside air and press calibration button for 8 seconds.

Response Time: T90 = <2 minutes (diffusion), < 15 seconds for flow through.

Power

Sensor Input: 24 VAC/VDC ±20%, 50-60 hz (half-wave rectified). Provided by plug-in controller.

Plug In Controller: 10 amps @ 120 VAC

Outputs

LED Indicators on Sensor: Two simultaneous dual output options available: A) 0-5V & 4-20mA, B) 0-10V & 4-20mA.

LED Indicators On Plug-In Controller: Indication of active power to the controller and indication of when plug is activated.

Control Range: Outlet is activated if levels are below 1,400 ppm with a dead band of 50 ppm.

Covered By US Patents: 6194735, 6016203, other patents pending

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AirTest™ Technologies Inc. specializes in the application of cost effective, state-of-the-art air monitoring technology to ensure the comfort, security, health and energy efficiency of buildings.



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