

## CO<sub>2</sub> CONTROLLER FOR GROW ROOMS



### Your #1 Indoor Grow and Mushroom Farm CO<sub>2</sub> Control Solution

A simple and affordable way to adjust and review your CO<sub>2</sub> levels when you want to and how you want to for your indoor grow space. With the RAD-0502 you can ensure that your plants never exhaust their supply of CO<sub>2</sub> and grow at their maximum potential under optimized conditions.

The Indoor CO<sub>2</sub> Controller for Grow Rooms can be used in greenhouses, grow rooms, hydroponics, mushroom farms, or anywhere elevated CO<sub>2</sub> levels are used to maximize plant growth.

### Features

- Accurate CO<sub>2</sub> control for small to large sized indoor grow facilities
- Control 2 zones with 2 sensors
- Customizable CO<sub>2</sub> set points for high and low target levels
- Dual beam NDIR technology accurately measures CO<sub>2</sub> concentrations 0-3,000ppm
- Built-in temperature, humidity, and light
- Relay output can automatically control CO<sub>2</sub> generator or compressed CO<sub>2</sub> tanks
- Versatile modes for greenhouse or HVAC
- 2 Relays that are user configurable
- Customized graph data display
- Easy fresh air calibration

### Accessories

- **RAD-0502-S** | Sensor Replacement
- **SV-1029** | 3/8 inch Shut Off Valve
- **SV-1030** | 1/2 inch Shut Off Valve

### Applications



**Greenhouses/  
Indoor Grow Rooms**



**Cultivation  
Facilities**



**Hydroponics**



**Mushroom  
Farms**

# TECHNICAL DATA

## Indoor CO<sub>2</sub> Grow Controller and Sensors

<b>CO<sub>2</sub> Measurement Range</b>	0-3,000ppm
<b>CO<sub>2</sub> Measurement</b>	NDIR (Non-dispersive Infrared)
<b>Accuracy</b>	0-2,000ppm: ±70ppm or ±5% of reading whichever is greater
<b>Operating Temperature</b>	-20°C - 60°C (-4°F - 140°F)
<b>Target Gas Ranges</b>	0-3,000ppm
<b>Measurements</b>	Requires 1 liter per minute of constant flow per channel
<b>Resolution</b>	1ppm @ 0-1,000ppm ; 10ppm above 1000ppm
<b>Response Time</b>	<2 minutes for 63% response to step change
<b>Relays</b>	2 relays, either (Normally Open) NO or (Normally Closed) NC
<b>Sensor Life Expectancy</b>	>10 years
<b>Sensor Cables</b>	2x CAT5e Cables - 24' ft long
<b>Dimensions</b>	4.96 x 6.70 x 2.65 inches

## Electrical and Mechanical Specifications

<b>Power Consumption</b>	1 W max @ 115 VAC 60 Hz   2 W max @ 230 VAC 50 Hz
<b>Peak Current</b>	<5A @ 250 VAC, SPST
<b>Power Supply</b>	12/24 VC



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