

Datasheet: ESTON-08 Greenhouse Controller with Relay



- **CO2 Control for Greenhouse or Indoor Gardening**
- **Plug & Play - Install and Setup in Minutes**
- **Built-in Light Sensor Stops CO2 at Night**

The ESTON-08 Tongdy Greenhouse Controller with Relay lets you simply and easily control carbon dioxide levels in a greenhouse or indoor garden. Here's how easy it is to use:

1. Mount the unit on your greenhouse wall,
2. plug a CO2 regulator with 110-220VAC solenoid into the unit, and
3. plug the unit into a grounded 110-220VAC electrical outlet.

With its LCD readout and easy-to use interface, you can customize your CO2 levels. By default, the regulator will be turned on whenever the CO2 level drops below 780ppm (double normal CO2 levels, perfect for most plants) and it is daylight. In addition, the Greenhouse controller can be calibrated using normal fresh air to save you money

CO2 Sensor

Measurement Range	0 – 5,000 ppm
Sensing Method	non-dispersive infrared (NDIR)
Sampling Method	Diffusion
Response Time (T _{1/e})	< 5 minutes for 90% step change
Accuracy	± 40 ppm ± 3 % of measured value
Warm up time	2 hours after initial power up for ABC calibration in fresh air, 2 minutes on subsequent use

General Performance

Operating Conditions	32 – 122°F (0 to 50 °C), 0 – 99% RH non condensing
Sensor Life Expectancy	> 15 years
Maintenance Interval	no maintenance required
Warm-up Time	≤ 5 minutes

Display

Display	LCD readout of CO2 levels in real time
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Electrical/Mechanical

Power Input.....	110-220 VAC
Output Relay	110-220 VAC 5A Switching Current
Output Relay Control	Relay on at 780ppm, relay off at 820ppm default; Can be user configured
Housing	PC/ABS fireproof plastic material; protection class IP40
Conformance with the standards.....	CE-Approval

Warranty

Model ESTON-08	1 Year
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