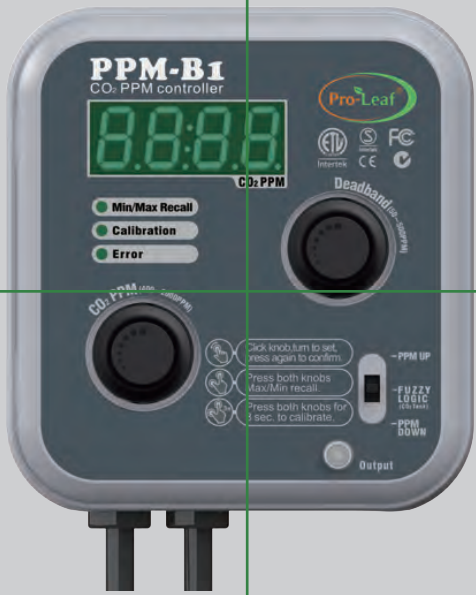


CO₂ PPM Controller

PPM-B1



CO₂ Controller

PPM-B1

Specifications

Max Amp: 10 amps @ 220-240VAC / 50 Hz
 Sensor Cord Length (ft/m): 15 / 4.5
 CO₂ Control Range (PPM): 400-2000
 CO₂ Accuracy (PPM): +/- 100
 Weight (lbs/kg): 2.1 / 1
 Dimensions (inch/mm): 5.07x4.68x1.95 / 130x120x50
 Indoor use only
 For Altitudes up to 6500 ft / 2000 m
 Operating Temperature Range (°F/°C): 40-105 / 4-40
 Maximum Relative Humidity: 80%
 IP Rating: IP20

Factory Settings

CO₂ PPM Set Point: 1000 PPM
 CO₂ Deadband Set Point: 50 PPM
 CO₂ Calibration Set Point: 400 PPM
 CO₂ Mode: PPM UP

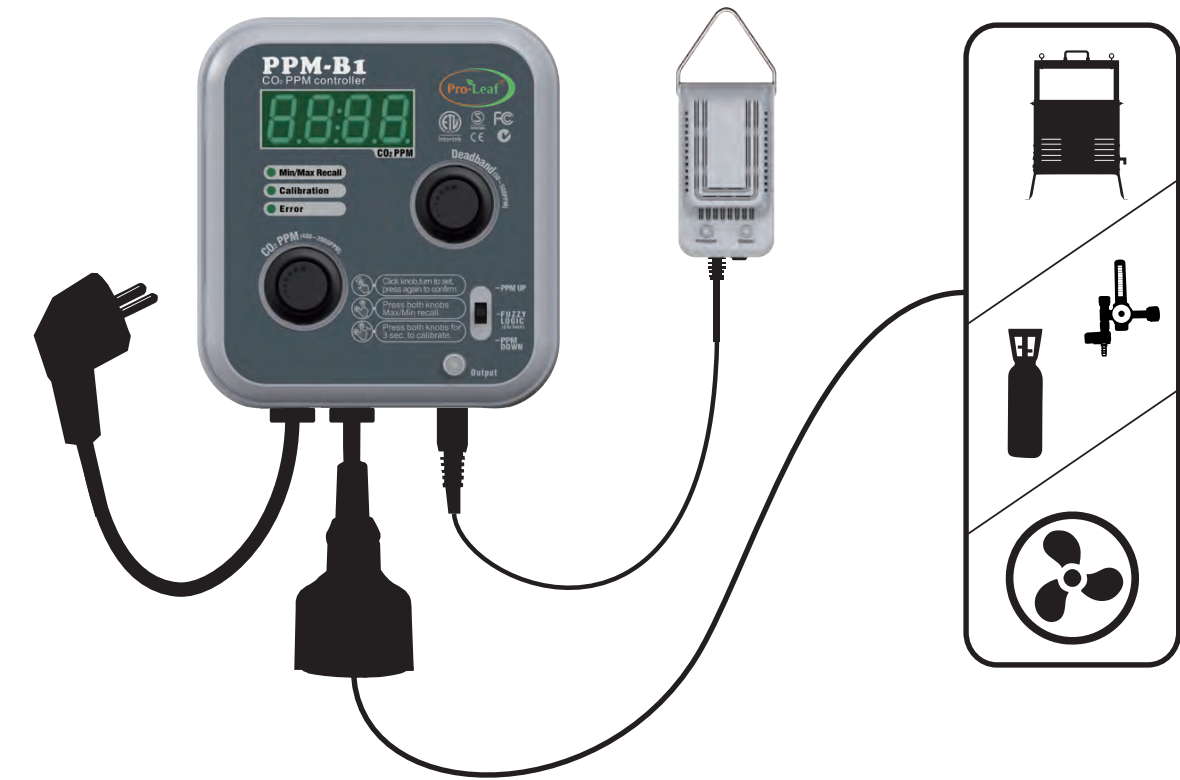
Overview

The PPM-B1 CO₂ Controller, with an adjustable CO₂ set point and deadband, offers precise and accurate control of 240-volt CO₂ supplementation devices. Utilizing the built in photocell feature this controller limits CO₂ production to the light hours to maximize savings and increase yields. Featuring three control modes - PPM UP for CO₂ generator use, FUZZY LOGIC for superior accuracy when utilizing a tank and regulator setup, and PPM DOWN if desired. ETL, CE, and FCC approved for safety and dependability.

Pro-Leaf : Version 4.0
www.pro-leaf.eu

CO₂ Controller

PPM-B1



Instructions

★ The unit takes about 2 minutes to warm up & display PPM readings upon startup.

MIN/MAX RECALL

Click both knobs simultaneously to recall and display the recorded PPM MIN/MAX values - reads L XXX, HXXX. The screen will return to normal operation after a period of 5 seconds and the recorded values will be reset.

Calibration

Place the CO₂ sensor outdoors if possible (or in a room with fresh air ventilation) and press both knobs simultaneously for 3 seconds until the display reads CAL / 400. If necessary, the calibration point can be adjusted by turning the CO₂ PPM knob. Calibration begins automatically after five seconds. During calibration keep the sensor out of direct sunlight, away from sources of CO₂, and be sure to not breath on the sensor. Allow 10 minutes for the calibration process to complete and stabilize the CO₂ reading. The display will stop flashing the PPM value once the calibration process is complete.

Note about Calibration: The PPM-B1 is factory calibrated, but to ensure precise readings and optimal control it is recommended to place the sensor outside for a period of ten minutes to test, after which the displayed PPM value should be around 400 (this value might be slightly higher in city environments compared to rural environments). In the unlikely event that your controller readings differ greatly from 400 PPM it is then recommended to recalibrate the unit.

Error Codes

Error LED will blink if an error occurs.

5.5H Please ensure the sensor connection is secure.

00EP If the controller does not reach the CO₂ PPM set point within two hours this error will be activated. Press any knob to reset the error.

00EE Please check if the outlet is overloaded or has exceeded the amperage rating. Maximum Amperage is 10 Amps.

8EPP The CO₂ sensor is requested for calibration, please follow up the calibration procedure. If the Err code is still not disappear, please contact your retail store.

Real-Time PPM Display



Step 1 - CO₂ PPM setpoint

Press the knob and turn to set, press again to confirm the setting.

Step 2 - Deadband

Press knob and turn to set the desired deadband level. Press knob once more to save the set point.

Example: When in PPM UP or FUZZY LOGIC mode, if CO₂ PPM=1000 PPM and Deadband=50 PPM, then the CO₂ output will be activated at or below 1000 PPM and turn off at 1050 PPM. For PPM DOWN, the fan will be activated at or above 1000 PPM and turn off at 950 PPM.

Step 3 - CO₂ Control Modes

PPM UP: Increases the CO₂ PPM level, recommended when using a CO₂ generator.

FUZZY LOGIC: Increases the CO₂ PPM level, recommended when using compressed CO₂ and a regulator.

PPM DOWN: Decreases the CO₂ PPM level, recommended when using a fan.

★ Important: DO NOT operate in Fuzzy Logic if using CO₂ generator.

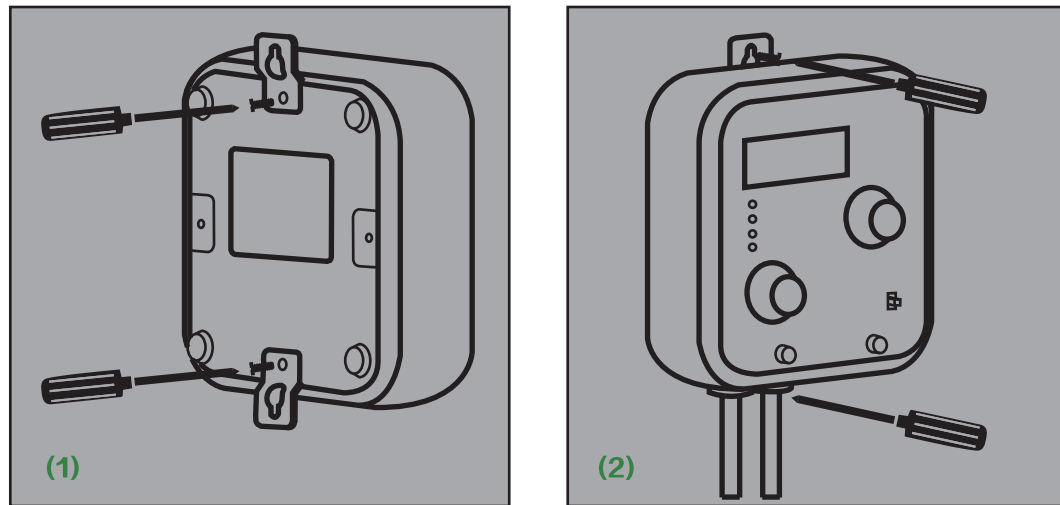
Output

LED will be illuminated when the output is activated.

CO₂ Controller

PPM-B1

✕ Installation Option 1

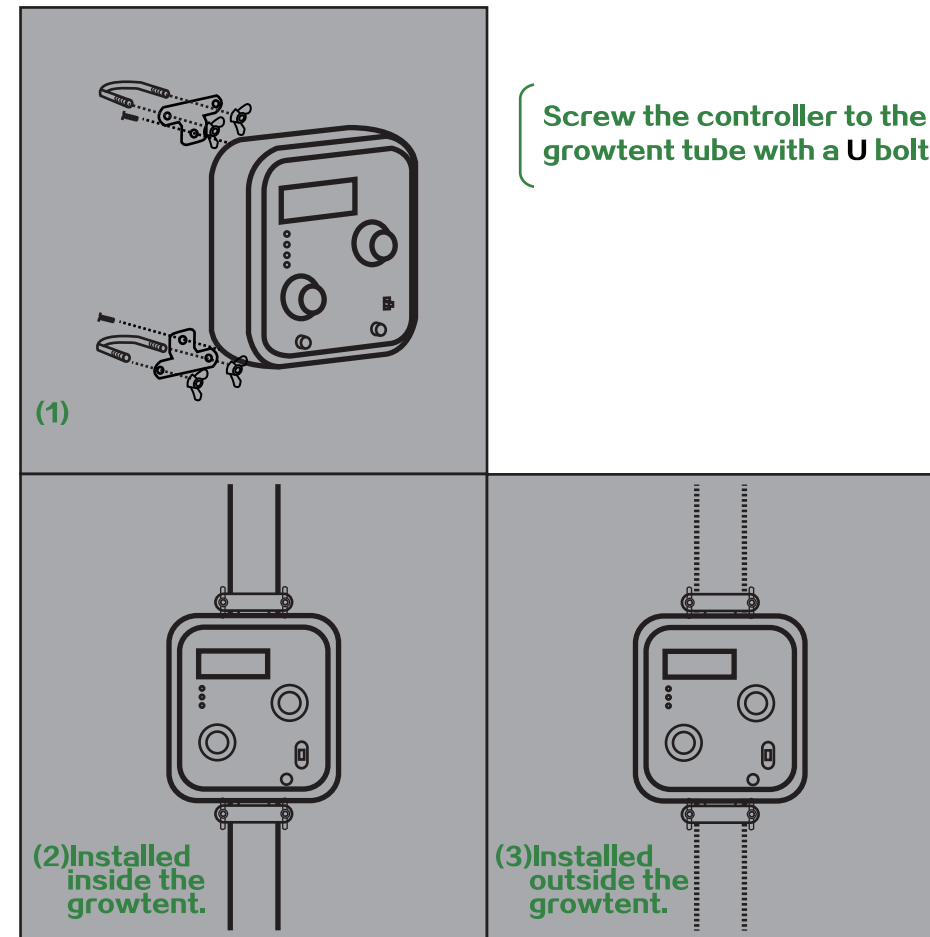


Secure the unit to a wall

★ **DO NOT attempt to repair this controller.**
Please contact your retailer for service request information.

✕ Installation Option 2

CO₂ Controller PPM-B1



Screw the controller to the growtent tube with a U bolt

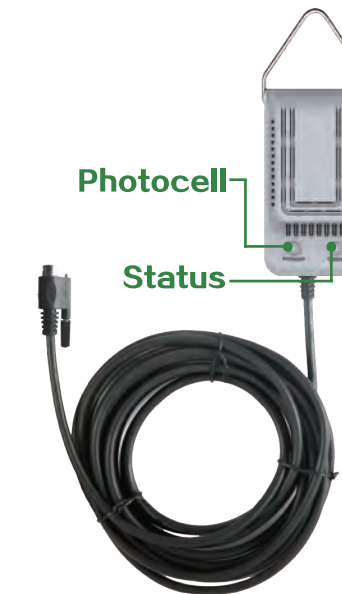
(1)

(2) Installed inside the growtent.

(3) Installed outside the growtent.

Remote CO₂ Sensor

CO₂ Controller PPM-B1



! Sulfur vaporizer warning!

If a sulfur vaporizer is used, first remove the remote sensor from the affected area or turn the controller OFF and cover the remote sensor probe with a protective plastic bag. Remove the bag before turning the power back ON.
Note: Failure to protect the sensor during Sulfur use will result in damage to the infrared CO₂ sensor and void warranty.

Note:
Do not place the sensor probe where it will come in to contact with water.
NOT WATER PROOF.

IMPORTANT MESSAGE

1. Save these instructions. These safety and operating instructions must be kept in a safe place for future reference.
2. Heed all warnings. All warnings on this product and in the instructions must be observed closely.
3. Follow all instructions. All operating instructions must be followed.
4. If the instructions as provided by the manufacturer are not followed damage to the product may result.
5. Install your controller at least 8 ft away from any devices that produce large amounts of electronic noise, such as electronic ballasts or ozone generators.
6. The output voltages of this controllers receptacles are the same as the input voltage. The receptacles can only be used in conjunction with plug styles NEMA 1-15P and NEMA 5-15P. DO NOT attempt to insert any other plug configuration into the controller receptacles.
7. DO NOT use this controller near a water source. The controller is not water-proof or shock-proof, and as such should not be exposed to direct water contact or extremely high moisture.
8. DO NOT attempt repair. Any factory serviceable parts of this controller are only to be repaired or replaced by the manufacturer or other authorized agencies.
9. If the power cable insulation is broken, please stop using the product. Immediately unplug the controller and contact the retailer from whom you purchased the unit.
10. The controller is equipped with a circuit breaker for short-circuit or over-current situations. The circuit breaker will automatically shut down the product at once. All outlets of the controller are grounded for safety.
11. Do not block any ventilation openings.
12. This product is a Safety Class I Controller. The main plug should be inserted in a power socket outlet only if provided with a protective earth contact. Any interruption of the protective conductor inside or outside of the product is likely to make the product dangerous and is prohibited.



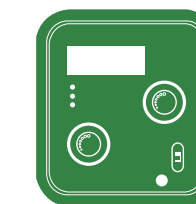
8 ft / 2.5m
minimum



Available Environment Controller Models:

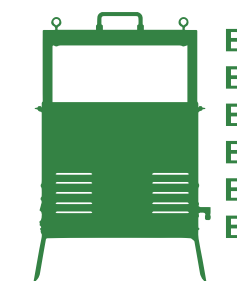
CO₂ Controller PPM-B1

• Single Function



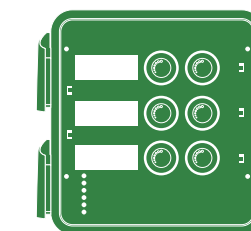
- PPM-B1 (CO₂ PPM Controller)
- LIGHT-B1 (Digital Lighting Controller)
- TIMER-B1 (Recycle Timing Controller)
- TEMP-B1 (Temperature Controller)

• CO₂ Generator



- BBL-LP-4
- BBL-LP-8
- BBL-LP-10
- BBL-NG-4
- BBL-NG-8
- BBL-NG-10

• Multi-Function



- BECC-B2 (CO₂, Humidity, and Temperature)
- BETC-B2 (Temperature, Humidity, and Recycle Timer)
- BTLC-B2 (Lighting Controller and Recycle Timer)

Accessories:

Wall / Tent
Mounting Hardware



Available for separate purchase:
24V Power Adapter



Made in China