



4 & 8-Outlets Light Controller with Timer Instruction Manual



4-Outlets Controller

8-Outlets Controller

IMPORTANT: Read the entire instructions before attempting to install and operate this unit. If you are unfamiliar with electrical wiring and circuits, we highly recommend that you consult with a licensed electrician and / or have the unit professionally installed. All local - national electrical codes must be followed. Do not use this item for purposes other than what it is designed for. Do not exceed the maximum ratings of this unit. Incorrect installation or use of this product could result in injury, damage to the unit or the connected devices, or even fire.

4 & 8-Outlets Controller Overview


The controller is specifically designed for operation of HID lighting systems. The controller will run your lights for any sequence over a 24hour period by using either and optional premium manufactured analog timer and 120 Volt relay activation cord set. 4-outlets controller can handle up to a maximum of four 1000watt HID grow light. 8-outlets controller can handle up to a maximum of eight 1000watt HID grow light. There are two 120volt accessory outlet located on the front of the controller. The “timed output” outlet is only active when your lights are “ON” and may be used to power device up to 5 amps, such as an inline fan or a pump.

Instructions for Operation

※ **THIS CONTROLLER SHOULD BE WIRED ONLY BY A LICENSED ELECTRICIAN**


※ **DO NOT PLUG IN POWER CORD UNTIL ALL WIRES ARE CONNECTED TO TERMINALS AND COVER PLATE INSTALLED**

EXAMPLE ONE: Connecting the 240 volt power

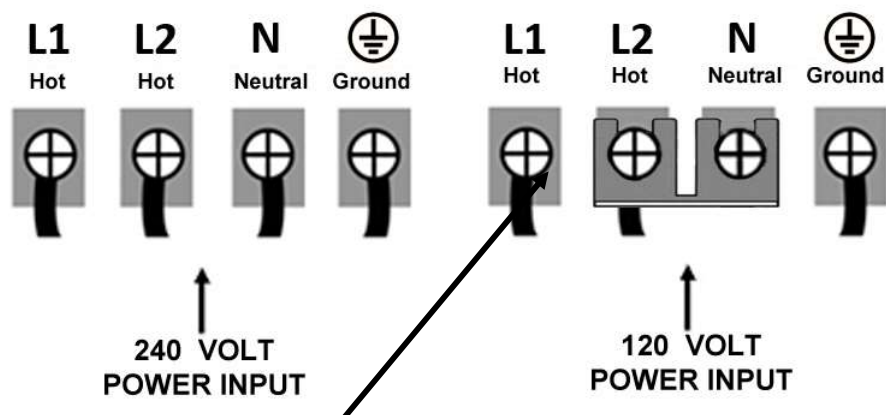
Connect the L1 and L2 terminals to the different hot legs, and the N terminal to neutral wire, the  terminal to ground wire.

The output voltage of the outlet of controller is 240 volt.

EXAMPLE TWO: Connecting the 120 volt power

Connect the L1 terminals to hot leg, and the L2 and N terminal to neutral wire after short-circuited by linked with a terminal bar, the  terminal to ground wire.

The output voltage of the outlet of controller is 120 volt.



THIS BRASS PIECE IS NECESSARY FOR 120VOLT SET UP.

IT IS LOCATED ATTACHED TO THE RIGHT OF THE TERMINAL

- Please consult with a licensed electrician prior to installation of the controller
- DO NOT install this controller yourself if you DO NOT fully understand these instructions. High voltage is dangerous!
- Securely mount your controller near your enclosure and ballasts but away from any spray/water/mist, etc.
- Verify that all your wiring connections are tight and that no loose wires are exposed.
- Plug your lights into the outlets on the right and left side of the timer.
- Adjust the analog timer to the current time of day.
- Set your timing pattern by pushing the “time trippers” towards the center of timer.
- Make sure that all wires and cables have been properly secured.
- Turn on the power switch to activate your light bank. When the relay is activated you will hear a “Clunk” sound.
- Your controller will now control your lights at the desired settings until the power is defeated.

CAUTION: Lamps are hot and should be allowed to cool completely (approximately 15 minutes) before handling.

WARNING!

IMPORTANT SAFEGUARDS

SAVE THESE INSTRUCTIONS.

DANGER! RISK OF ELECTRICAL SHOCK OR FIRE

This product must be installed by a licensed or certified electrician in accordance with the National Electrical Code and all applicable local codes and ordinances. Improper installation will create an electrical hazard which could result in death or serious injury to installer, or others due to electrical shock, and may also cause damage to property.

Main Power Requirements

- A main power source must be supplied for the lights to function.
- Verify main power source has the same voltage and amperage ratings as the equipment being controlled by the Light Controller.
- Main power can be hardwired to a circuit breaker panel or installed using the appropriate high-amperage portable cable and connector end (not included).
- **4 Outlets Light Controller, Use only a 30A, 2-pole circuit breaker and #10 AWG wire to provide the main power.**
- **8 Outlets Light Controller, Use only a 50A, 2-pole circuit breaker and #6 AWG wire to provide the main power.**
- Proper connection of the ground wire to the ground lug is critical for safe operation.
- All connected ballasts **MUST BE** wired correctly and according to the main power voltage.

NOTE: The Light Controller with universal 120/240V receptacles can be used to operate 120V devices **ONLY** IF the main power is also wired in at 120V. Connecting a 120V ballast to a controller with 240V main power could result in damage or fire. Consult the ballast manufacturer for any questions concerning the electrical requirements.

* **240V main power requires ballasts wired for 240V (most common application).**

* **120V main power requires ballasts wired for 120V.**

Troubleshooting Tips

If the controller is not performing as expected, try the following:

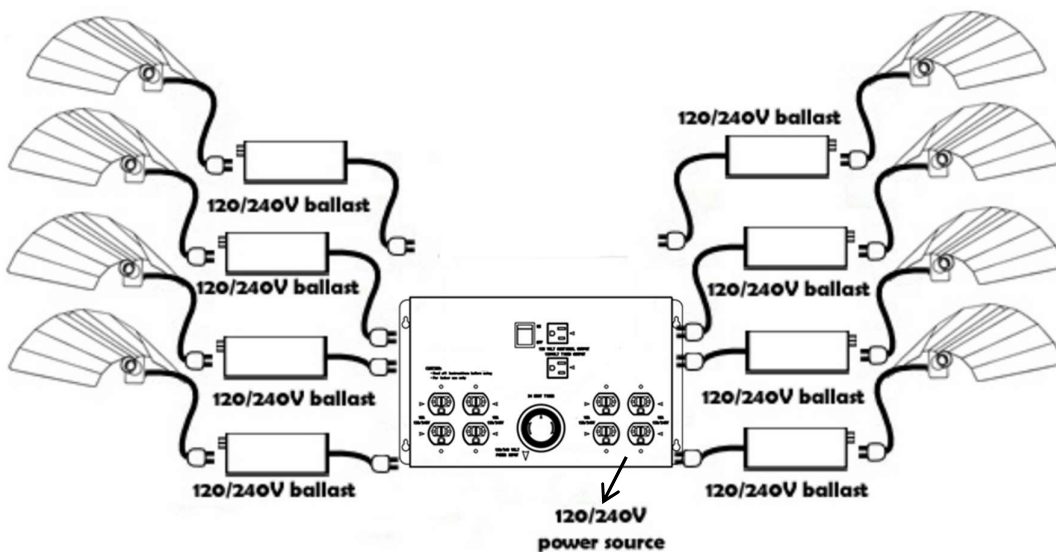
1. Confirm that your power input is active from your breaker panel and providing 120Volts/240 Volts/ 60 Hz to the controller.
2. Check the voltage input of your incoming cord set using a voltage test meter to verify power is flowing to the controller.
3. Make sure all of your connections are tight. Loose connections can cause “arcing”.
4. Then confirm that power is active and proper at your 120 Volt/240 Volt outlets.
5. Verify that your power cords and ballasts are functioning properly and that there are no shorts or arching occurring.
6. Should you find your circuit breaker keeps tripping, check your breakers to verify that they are the right amperage for your application.
7. If you turned “OFF” the power switch and your lights remain on, contact us immediately for resolution.
8. Still having problems with your controller? Please contact our Technical Service Representative to assist you further.

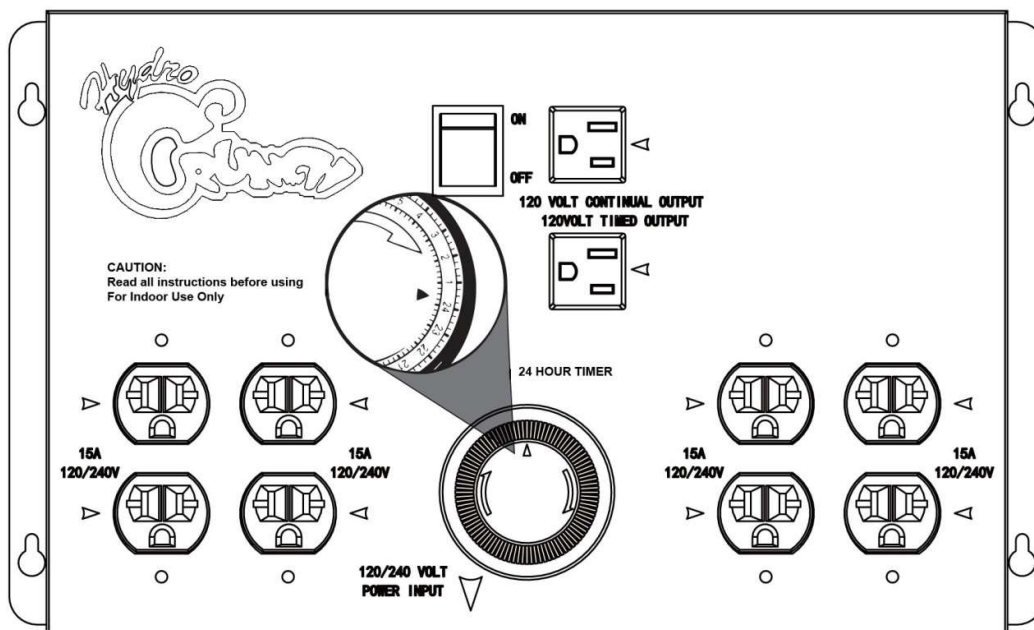
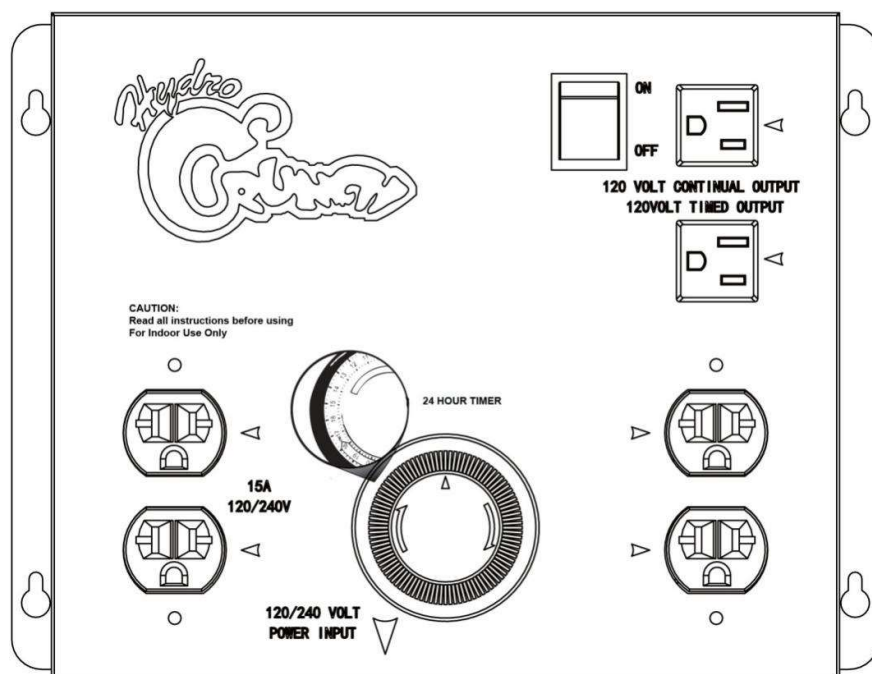
Controller Specifications

- 4-outlets controller Size = 11 1/2”H x 8 3/4”W x 3 1/2”D
- 8-outlets controller Size = 14 1/2”H x 8 3/4”W x 3 1/2”D
- Weight of 4-outlets controller = 5.6 lbs.
- Weight of 8-outlets controller = 7.4 lbs.
- Voltage Input = 120/240 VAC
- Voltage Output = 120/240 VAC
- Relay Coil Voltage = 120 Volts
- Maximum Amperage of 4-outlets controller = 50 Amps

- Maximum Amperage of 8-outlets controller = 50 Amps
- Maximum Wattage of 4-outlets controller = 2000 Watts when 120 Volt Input
- Maximum Wattage of 4-outlets controller = 4000 Watts when 240 Volt Input
- Maximum Wattage of 8-outlets controller = 4000 Watts when 120 Volt Input
- Maximum Wattage of 8-outlets controller = 8000 Watts when 240 Volt Input
- Hertz = 60Hz
- Storage Temperature = 32°F (0°C) to 135°F (57°C)
- Operating Temperature = 40°F (5°C) to 125°F (52°C)

Installation Example





1. Ensure controller is disconnected from power.
2. Push down the segments according to how long you require the appliance to stay on. Each segment is 15 minutes.
3. Turn the Timer Dial until the pointer is set to the correct time.
4. Plug in your appliance to the controller and then the controller to the power.
5. The Timer can be overridden by moving the switch on the side.

1 Year Limited Warranty Service

If the product will not work after you have read the troubleshooting guide and practiced the troubleshooting options, you are advised to return the Hydro Crunch™ light system to the retailer you purchased it from. The dealer will be able to examine the light and test its components. If they are not able to repair the light, they will return it to us for examination and repair/replacement. Do not attempt to repair any product on your own, as serious injury or death may result. If the retailer is not able to help you and the light is still under manufacturer's warranty, you may contact us for technical support. In some cases, you will be issued an RMA# (return merchandise authorization number) to return the unit for factory repair. Complete the warranty form below and return the light with all original packaging, your receipt of purchase, and a valid RMA# to the address below. Please pack and ship the light in its original packaging. If it is damaged in shipment we cannot be responsible and the warranty may be voided. Once we receive RMA package, it will be repaired or replaced and shipped back to you. Please note if an additional warranty was purchased and include the extended warranty sales receipt with your return.

RETURN FORM

Include the following if returning:

- ✓ Proof of purchase
- ✓ This completed form
- ✓ RMA# on the outside of the box
- ✓ Extended warranty receipt

Return Merchandise Authorization Number (Required): _____

Contact Name: _____

Address: _____

Phone #: _____

Email Address: _____

Please give a brief description of your technical issue: _____

SEND TO:

Hydro Crunch

17128 Colima Road Suite 510

Hacienda Heights, CA 91745

714-516-8176

IMPORTANT!

The following pages contain important safety and operating instructions. Please read and follow all instruction in this manual. Carefully read and review all safety instructions, warnings and cautions contained in this manual. Failure to read and follow these instructions, warnings and cautionary statements may result in severe injury or death to persons and pets or damage to personal property.



Do not dispose product or any other part of it as unsorted municipal waste – instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.