

LC-30
Greenhouse Lighting Contactor Module



**Installation
&
User Operation Manual**

 **DANGER**

Risk of Electric Shock!

This system operates on **110- 240 Volts** and can cause electric shock resulting in injury or death.
Read all warnings and instructions before operating this equipment.

Installation to be performed by qualified electrician according to National and local electrical code.



 **WARNING**

The controller enclosure is not rated for water contact.
DO NOT expose to direct, spray, splashing, misting or other water contact!

⚠ WARNING

Read these requirements, installation and operating instructions very carefully. Failure to follow the instructions could result in a controller malfunction. A malfunction could result in serious equipment damage, property damage, bodily injury or death.

Specifications

Voltage: 110 - 240 VAC

Max Current: 30 Amps @ 240 VAC

Max Power: 6000 Watts

Operating Environment Conditions:

Humidity: 90% RH MAX (Non-condensing)
Temperature: 32-131°F (0-55°C)

Installation Instructions

Mounting the Relay Box:

The relay box can be mounted to a wall or other location using the included mounting tabs. Mount the PCM module in a location where it will be out of direct moisture contact and away from high heat.

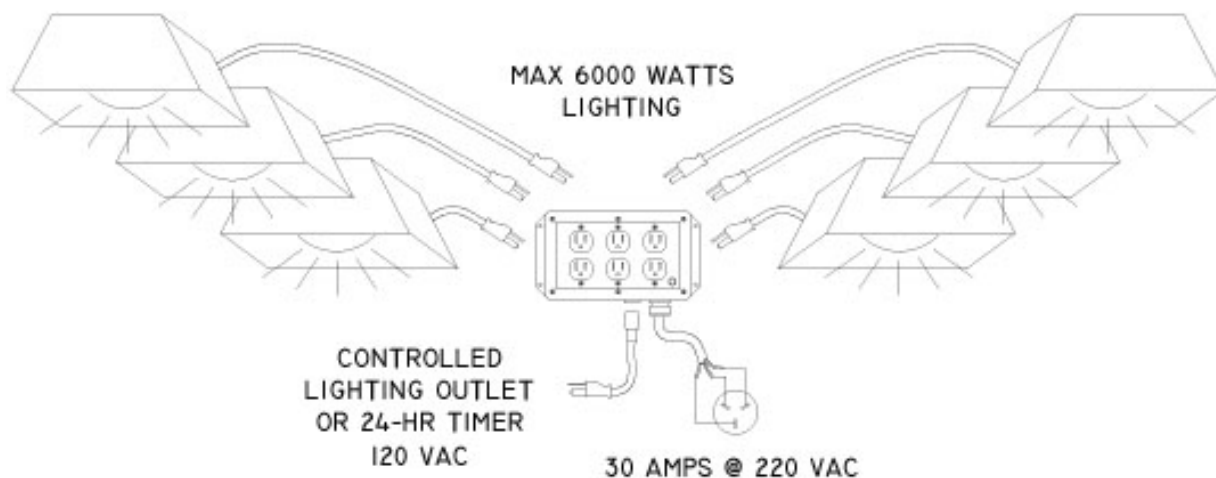
⚠ FOR YOUR SAFETY

This controller is equipped with a ground wire (green) and must be **properly grounded**. **DO NOT** remove any ground terminals from plugs. **DO NOT** circumvent the ground terminals.

⚠ WARNING

Ensure that the supporting material is capable of handling the load of the controller. Weak or damaged drywall or poor mounting locations may result in the controller falling and causing personal injury, property damage and or death.

Typical Application:



Wiring

120 or 240V systems:

The LC-30 is typically used with 240VAC supply to operate up to six 1000 Watt lamps. Outlets may be either 120V style (NEMA 5-20) or 240V style (NEMA 6-15) and can be operated at 120VAC or 240VAC up to 30 Amps.

The LC-30 must be wired into a 240 electrical circuit by attaching the proper plug for your particular outlet (available at local hardware stores) or by direct wiring into a junction box. The power supply cable is 10 gauge 3 conductor stranded copper wire. **Each unit must be protected by a 30 Amp circuit breaker.**

120V Wiring:

Green – Ground
Black – Line
White - Neutral

240V Wiring:

Green – Ground
Black – Line 1
White – Line 2

240V 3-wire receptacles have only two hot power lines (black & red) and a ground (green.) Voltage should read ~240VAC between hot lines and ~120VAC from each hot line to ground.

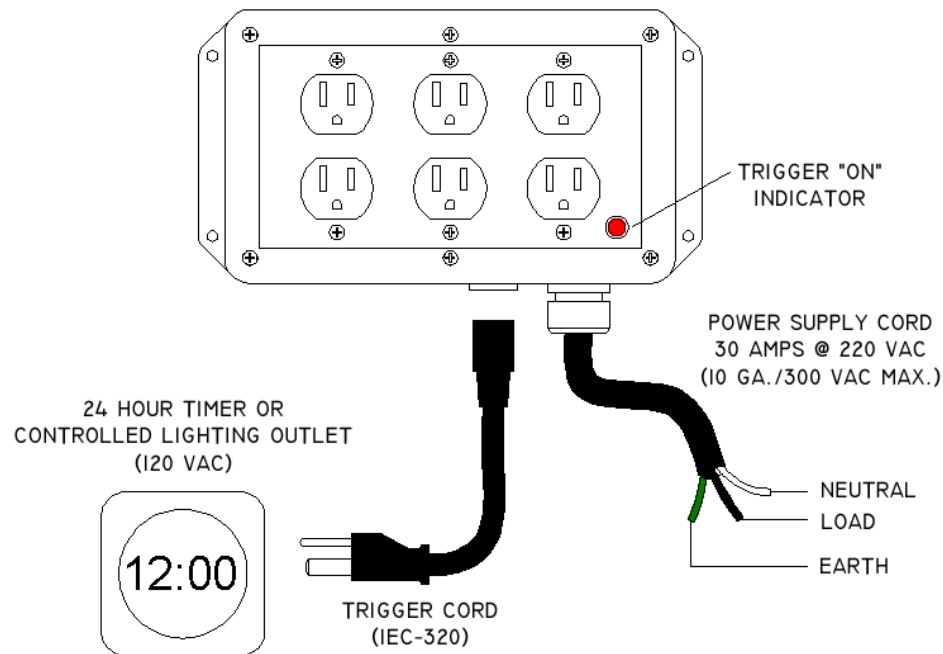
Connect LC-30 black and white wires to hot lines and green wire to ground.

240V 4-wire receptacles have two hot power lines (black & red) a neutral (white) and a ground (green.) Voltage should read ~240VAC between hot lines and ~120VAC from each hot line to neutral or ground.

Connect LC-30 black and white wires to hot lines and green wire to ground.
Safely cap-off neutral wire; it will not be used in the wiring of the LC-30.

WARNING!

The circuit breaker built into the LC-30 is designed to prevent overloading of the LC-30's internal wiring only. **If circuit breaker trips the black lead wire is disconnected ONLY; White remains connected to receptacles.**



Troubleshooting

PROBLEM:

Power is not coming on to the receptacles.

SOLUTION:

1. Check for a click noise when the control cable is energized. If so, then the control cable has power and the relay is working.
2. Check power to the power cable; ensure the module is getting supply power.

Limited Warranty

Agrowtek Inc. warrants that all manufactured products are, to the best of its knowledge, free of defective material and workmanship and warrants the components for the following period from the date of purchase:

Power Relay/Contactor Modules: **2 Years**

This warranty is extended only to the original purchaser of the equipment from the date of purchase detailed on the purchase invoice.

This warranty does not cover damages from abuse, accidental breakage, or units that have been modified, altered, or installed in a manner other than that which is specified in the installation instructions.

Agrowtek Inc. must be contacted prior to return shipment for a return authorization. No returns will be accepted without a return authorization. The original purchase invoice must accompany any warranty claims.

This warranty is applicable only to products that have been properly stored, installed, and maintained per the installation and operation manual and used for their intended purpose. This limited warranty does not cover products installed in or operated under unusual conditions or environments including, but not limited to, high humidity or high temperature conditions.

The products which have been claimed and comply with the aforementioned restrictions shall be replaced or repaired at the sole discretion of the Agrowtek Inc. at no charge.

This warranty is provided in lieu of all other warranty provisions, express or implied. It is including but not limited to any implied warranty of fitness or merchantability for a particular purpose and is limited to the Warranty Period.

In no event or circumstance shall Agrowtek Inc. be liable to any third party or the claimant for damages in excess of the price paid for the product, or for any loss of use, inconvenience, commercial loss, loss of time, lost profits or savings or any other incidental, consequential or special damages arising out of the use of, or inability to use, the product. This disclaimer is made to the fullest extent allowed by law or regulation and is specifically made to specify that the liability of Agrowtek Inc. under this limited warranty, or any claimed extension thereof, shall be to replace or repair the Product or refund the price paid for the Product.

This warranty provides the purchaser with specific rights but the claimant may have other rights which vary from jurisdiction to jurisdiction.