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1 Square = \_\_\_\_ Foot / Feet



VANCOUVER, WASHINGTON U.S.A. 

[www.titancontrols.net](http://www.titancontrols.net)

Product #111380, Revision F – 01/27/2015 © Titan Controls®



# 4 LIGHT - 240 VOLT CONTROLLER

## Instruction Manual



VANCOUVER, WASHINGTON U.S.A.



[www.titancontrols.net](http://www.titancontrols.net)

# Spartan Series™ 4 Light Controller

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## Warnings & Cautions

- Read all instructions before operating Spartan Series™ controller.
- This controller is designed for use with MAGNETIC OR ELECTRONIC BALLASTS.
- Do not put your controller in an area where it can get wet or sprayed.
- Mount your controller securely to the wall.
- When using “bug bombs” in area, cover controller completely to avoid corrosion.
- There are no serviceable parts in controller. Do not attempt to repair the unit.
- Do not put paperclips, tools, etc. into unit. Possible electrocution may occur.
- Make sure to verify the amperage and voltage from your power source prior to wiring controller into power panel.
- Check that all equipment that will be activated by this controller is 240 Volts.
- This controller is designed for ‘Inside Use’ only.
- Avoid placing the controller near heat generating sources.
- Use caution when operating controller in extremely humid environments.
- Do not use controller for purposes other than how the unit was designed to function.
- Use controller within defined environmental specifications.
- Ask your Dealer for tips and techniques regarding the use of this controller.
- Be conscientious when disposing of any products.
- Enjoy your Spartan Series™ lighting controller for years to come!

## WARRANTY SERVICE: Please read warranty information first

If after reviewing the troubleshooting tips the unit will still not work, you should return it to the Dealer where you purchased the controller. They will be able to further evaluate the unit and test its various components and quite possibly will be able to identify and/or fix any problems. If the Dealer is unable to fix the unit, they will return it to us for factory repair.

If there are no Dealers in your area, you may contact us directly for technical support. If we cannot help you resolve the problem over the phone, we will issue you an RMA # (return merchandise authorization) authorizing you to return the unit to us for factory reconditioning (if the unit is under warranty). Contact the number below for an RMA # and shipping address. Complete the form below and include it with your unit. Also please write the RMA # on the outside of the box.

Please package the unit in its original packaging. If it is damaged in shipment we cannot be responsible.

Once we receive the unit back, we will repair or replace the controller within 48 hours (business) and return it to you freight prepaid via UPS ground shipment.

Include the following if returning directly to Titan Controls®

- Proof of purchase
- This completed form
- RMA # on the outside of the box

Return Merchandise Authorization Number (Required): \_\_\_\_\_

Company Name: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Phone #: \_\_\_\_\_

Email address: \_\_\_\_\_

**What is the nature of the problem?** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Send to your nearest location – shipping address will be given when the RMA # is issued:



[www.titancontrols.net](http://www.titancontrols.net)

For technical assistance call us at 1-888-80-Titan or 1-888-808-4826.  
Representative available Monday – Friday, 8 a.m. – 5 p.m. PST.

## Warranty Information

- Titan Controls® warrants the original purchase of this product against defects in material and workmanship under normal use for one (1) year from the date of purchase.
- During the warranty period, Titan Controls® will, at our option, and without charge, repair or replace this product if the controller or any of its components fail or malfunction.
- All returns or repairs must be accompanied by a Return Merchandise Authorization (RMA) number prior to any service of the product.
- This warranty is expressly in lieu of all other warranties, expressed or implied, including the warranties of merchantability and fitness for use and of all other obligations or liabilities on the part of the seller.
- This warranty shall not apply to this product or any part thereof which had been damaged by accident, abuse, misuse, modification, negligence, alteration or misapplication.
- Controllers with serial numbers or date tags that have been removed, altered or obliterated; broken seals or that show evidence of tampering; mismatched board serial numbers or nonconforming parts; are excluded from coverage.
- Titan Controls® makes no warranty whatsoever in respect to accessories or parts not supplied by Titan Controls®.
- Monetary refunds of the warranty will not be given.
- The Buyer assumes all responsibility regarding the use & installation of this controller.
- All warranty service is provided through the factory or an authorized service representative.
- This warranty shall apply only to the United States, including Alaska, Hawaii and territories of the United States and Canada.
- Defective controllers need to be returned with the “proof of purchase” receipt.
- For additional warranty information, contact a Titan Controls® Technical Service Representative at 888-808-4826 or your Dealer. Our normal business hours are Monday – Friday, 8 a.m. to 5 p.m. Pacific Standard Time. We are closed most major holidays.
- NOTE: Titan Controls® is a controller manufacturer. All sales offerings to the public are done through a nationwide group of Dealers. No sales offerings will be made directly to the general public.

## Service and Repair Program

- For all service and repairs please contact one of our Technical Service Representatives for a Return Merchandise Authorization (RMA) number.
- All factory service & repairs will be completed within 48 hours of receipt of controller and after authorization by customer for repairs.
  - Titan Controls® will, at its discretion, repair or replace the controller.
  - Factory calibration services are available for all Titan Controls®.
  - Returning Units: Please contact your retail store for returns.

## Spartan Series™ 4 Light Controller – 240 Volts Overview

The Spartan Series™ 4 Light Controller is specifically designed for operation of high intensity discharge (HID) lighting systems. The controller will run your lights for any sequence over a 24 hour period by using a 120 Volt relay activation cord set. The controller can handle up to a maximum of four (4) 1000 watt HID metal halide or high pressure sodium (HPS) grow lights. The Spartan Series™ 4 Light Controller provides up to 30 amps of capacity on a standard single phase 240 volt circuit. The Spartan Series™ 4 Light Controller is built with only the highest quality components and will provide the user with years of trouble free service.

## Instructions for Operation

- Must be installed by a certified electrician.
- DO NOT install this controller yourself if you DO NOT fully understand these instructions. High voltage is dangerous!
- Connect your incoming 240 Volt power to the relay contacts. ( View relay for wiring information )
- Connect the copper ground wire to the grounding lug. DO not remove incoming green wire from lug; it is required to have a proper grounding connection for your lighting controller.
- Securely mount your Spartan Series™ 4 Light 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 controller.
- Plug the 120 Volt “trigger” cord into Apollo Series 24 hour timer.
- Set the Apollo Series 24 hour timer to the appropriate lighting schedule for your garden.
- Make sure that all wires and cables have been properly secured.
- When the relay is activated you will hear a “Clunk” sound.
- Your Spartan Series™ 4 Light Controller will now control your lights at the desired settings on your Apollo® series timer until the power is defeated.
- Caution: Lamps are hot and should be allowed to cool completely (approximately 15 minutes) before handling.

### ONLY FOR USE WITH 240 VOLT BALLASTS

**To maintain warranty you MUST retighten incoming power connectors every 90 days.**

## Troubleshooting Tips

If the Spartan Series™ 4 Light Controller is not performing as expected, try the following:

- Confirm that your power input is active from your breaker panel and providing 240 Volts / 30 Amps / 60 Hz to the controller.
- Check the voltage input of your incoming cord set using a voltage test meter to verify power is flowing to the controller.
- Make sure all of your connections are tight. Loose connections can cause “arcing”.
- Then confirm that power is active at your 240 volt outlets.
- Verify that your power cords and ballasts are functioning properly and that there are no shorts or arcing occurring.
- Should you find your circuit breaker keeps tripping, check your breakers to verify that they are the right amperage for your application. Replace if necessary.
- If you unplug the trigger cord set and your lights remain on, contact us immediately for resolution.
- Still having problems with your Spartan Series™ 4 Light Controller? Please contact our Technical Service Representative at 888-808-4826 to assist you further.

## Controller Specifications:

- Size = 8”H x 6”W x 4”D
- Weight = 3.5 lbs.
- Voltage Input = 240 VAC
- Voltage Output = 240 VAC
- Relay Coil Voltage = 120 Volts
- Maximum Input Amperage = 30 Amps
- Maximum Output Amperage = 20 Amps
- Maximum Wattage = 4000 Watts (1000 watts per outlet)
- Hertz = 60Hz
- Receptacle Type: Accepts NEMA 6-15R and 5-15R cord sets
- RoHS compliant = Yes
- Storage Temperature = 32°F (0°C) to 135°F (57°C)
- Operating Temperature = 40°F (5°C) to 125°F (52°C)

## Installation Example

### Controlling a 4 Light Bank

