

# SPARTAN SERIES<sup>®</sup>

by Titan Controls<sup>®</sup>



## 16 Light Controller With Light Timer 240 Volts

Product #703012

# Instruction Manual



# 16 Light Controller

*This manual covers the following:*

- Warnings & Cautions
- 16 Light Controller Overview
- Instructions for Operation
- Controller Specifications
- Troubleshooting Tips
- Application Diagram
- Service and Repair Program
- Warranty Information

## Warnings & Cautions

- Read all instructions before operating!
- Do not put your controller in an area where it can get wet or sprayed.
- When using “bug bombs,” controller should be completely covered to avoid corrosion.
- There are no serviceable parts in the controller. Do not attempt to repair the unit.
- Do not put paperclips, tools, etc. into unit. Possible electrocution may occur.
- Make sure to verify your power source prior to wiring controller into power source.
- Check that all equipment that will be activated by this controller is 240 volts.
- This controller is designed for “Indoor Use” only.
- Avoid placing the controller near heat sources.
- Do not use when operating controller in extremely humid environments.
- Do not use controller for purposes other than the intended function.
- This controller is designed for use with MAGNETIC OR ELECTRONIC BALLASTS.
- Mount your controller securely to the wall using hardware provided.
- 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.


## 16 Light Controller – With Light Timer Overview

The Spartan 16 Light Controller is designed to operate a lighting system. The controller is built with a heavy duty relay and powder coated steel enclosure to control your ballasts. The controller should be installed by a certified electrical professional.

# Instructions for Operation

**The 16 Light Controller must be installed by a licensed electrician or you will void your warranty!**

**DO NOT install this controller by yourself. High voltage is dangerous!**

- Securely mount your 16 Light Controller.
- Connect your incoming 240 volt power to the terminal block of the 16 Light Controller.
- Attach the ground wire to the “Grounding Lug” of the 16 Light Controller.
- Verify that all your wiring connections are tight and that no loose wires are exposed.
- Securely attach the front panel of the 16 Light Controller to avoid potential shock or injury before initiating power to controller.
- Plug your ballasts into the universal outlets on the right and left side of the 16 Light Controller.
- Set your timing pattern by pushing 15 minute “trippers” to the outer portion of dial to set the “ON” time.
- Push 15 minute “trippers” towards inner portion of dial to set the “OFF” time.
- Now adjust the 24 hour timer to the current time of day using the black triangle to set the current time.
- Select the mode: O: Always off, : Timer on, I: Always on
- Make sure that all wires and cables have been properly secured.
- Activate single phase 240 volts/60Hz. power to the 16 Light Controller.
- When the relays are activated via the external 24 hour timer, you will hear a “CLUNK” sound and your lights will come “ON”.
- Your 16 Light 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 a minimum of 15 minutes before handling.

**ONLY FOR USE WITH 240 VOLT EQUIPMENT!**

# Controller Specifications

- Main Power Voltage = 240 Volt
- Wire = Minimum 3 AWG Wire (75° C Cu Wire ONLY)
- Maximum Wattage = 16,000 Watts (1000 Watts per outlet)
- Maximum Input Amperage = 100 Amps
- Maximum Output Amperage = 80 Amps
- Relay Coil Voltage = 120 V AC
- Hertz = 60Hz
- Receptacle Type = Universal
- Operating Temperature = 40 – 125° F (4.4 – 52° C)
- Storage Temperature = 32 – 135° F (0 – 57° C)
- Size = 25.43” H x 19.79” W x 5.20” D
- Weight = 42 Lbs.
- RoHS compliant = Yes

# Troubleshooting Tips

***If the 16 Light Controller is not performing as expected, try the following:***

- a.** Contact a certified Electrician to service your 16 Light Controller.
- b.** Confirm that your power input is active from your power panel and providing 240 volts/60Hz/100 Amps Input to the controller.
- c.** Check the voltage input using a voltage test meter to verify power is flowing to the controller.
- d.** Make sure all of your connections are tight. Loose connections can cause “arcing.”
- e.** After activating relay, confirm that power is active and proper at your 240 volt outlets.
- f.** Verify that your power cords and ballasts are functioning properly and that there are no shorts or arcing occurring.
- g.** Check ballasts & lights in known 240 volt power source to verify they are working properly.
- h.** Still having problems with your 16 Light Controller? Please contact our Technical Service Representative at (888) 808-4826 to assist you further.

# Notes

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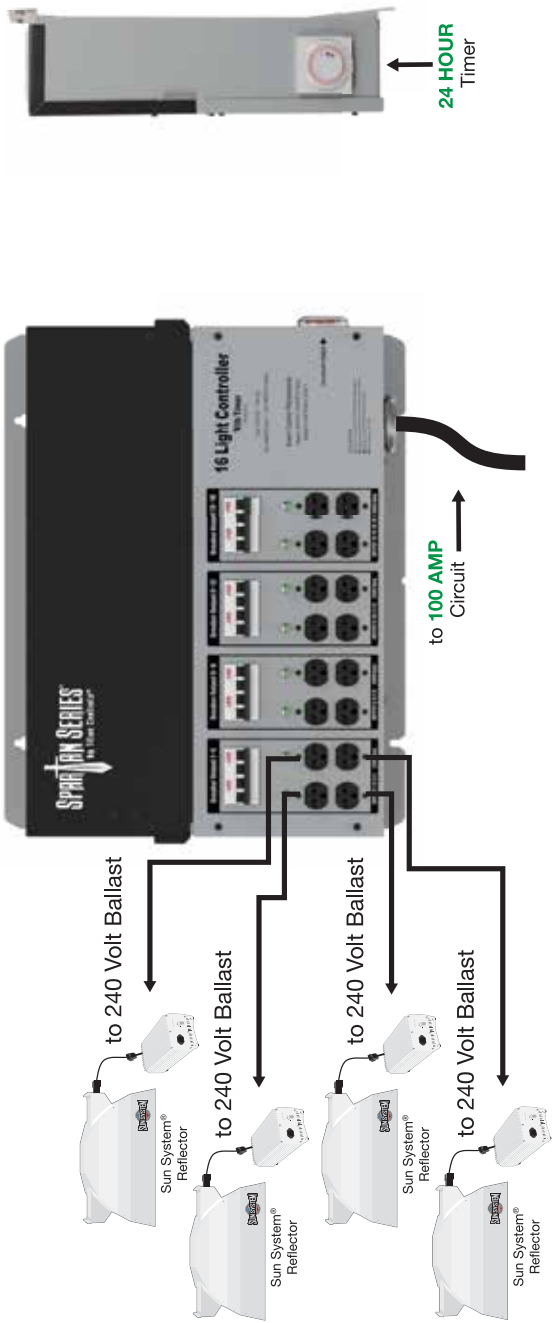
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# Application Diagram

# Service and Repair Program

- For all service and repairs please contact one of our Technical Service Representatives for a Return Merchandise Authorization (RMA) number, at 1-888-808-4826. Our normal business hours are Monday – Friday, 8 a.m. to 5 p.m. Pacific Standard Time. We are closed most major holidays.
- 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.

# 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 your Dealer, or a Titan Controls® Technical Service Representative at 1-888-808-4826. 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 manufacturer of environmental controls. 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.

## 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 a 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 a 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 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? \_\_\_\_\_

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\_\_\_\_\_  
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Shipping address will be given when the RMA # is issued.



For technical assistance call us at  
1-888-80-Titan or 1-888-808-4826.



Sunlight Supply, Inc.

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