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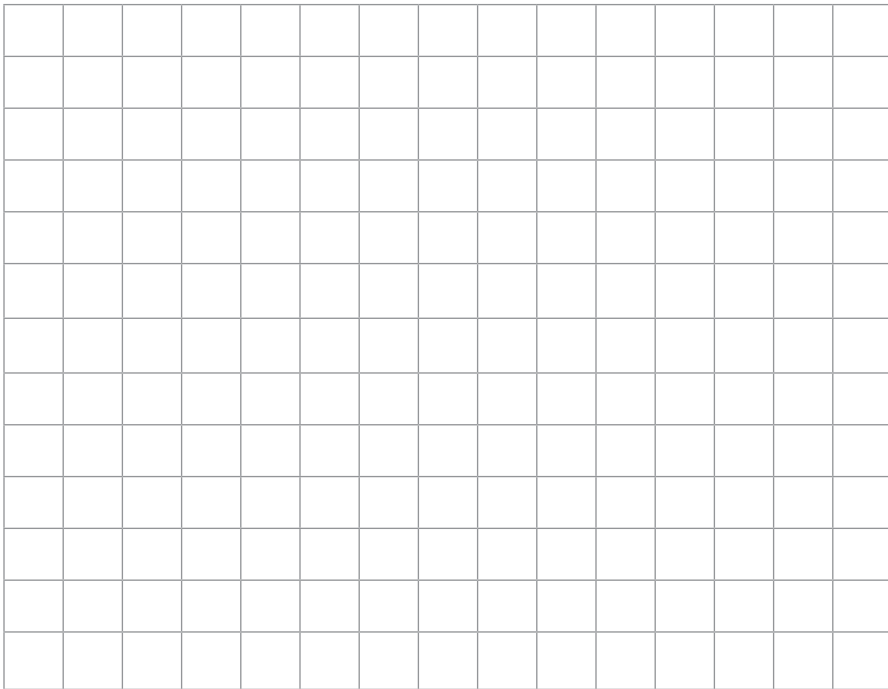


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1 Square = 1 Foot



**TITAN**  
CONTROLS

# EOS 2

## Digital Humidity Controller Instruction Manual



VANCOUVER, WASHINGTON U.S.A. 

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

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# Eos® 2 Digital Humidity Controller

- Warnings & Cautions
- Eos® 2 Overview
- Operation Instructions
- Installation Example
- Troubleshooting Tips
- Safety Notes
- Controller Specifications
- Warranty Information
- Service and Repair Program

## Warnings & Cautions

- Read all instructions before operating controller.
- Do not put your controller in an area where it can get wet or sprayed.
- Mount your controller securely to the wall using hardware provided.
- 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.
- Breaking “warranty” seal will void your warranty.
- Do not put paperclips, tools, etc. into unit. Possible electrocution may occur.
- Plug controller into surge protector to avoid potential damage to the unit.
- Make sure to verify your power source is correct prior to plugging controller into outlet.
- Check that all equipment that will be activated by this controller is the proper voltage.
- Verify that your equipment does not exceed a total of 15 Amps.
- 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 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 Titan Controls® environmental 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 it. 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 it 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?* \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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.

## Warranty Information

- Titan Controls® warrants the original purchase of this product against defects in material and workmanship under normal use for three (3) years 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 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.
- Defective controllers need to be returned with the “proof of purchase/receipt”.
- For additional warranty information, contact a Titan Controls® Technical Service Representative or your Dealer.

***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.***

## 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.

## Eos® 2 – Digital Humidity Controller Overview

The Titan Controls® Eos® 2 Digital Humidity controller is a simple to operate. It can be used to either humidify or dehumidify your growing environment. The adjustment knobs and built in photocell allow you to easily set day and night humidity levels. A range of 20% to 90% covers the sweet spot for your plants and allows for optimum growing conditions.

## Instructions for Operation

Before using this unit you must decide if this controller will be used with a humidifier or a dehumidifier, and program the controller accordingly. Ensure the controller is powered on before setting the mode.

### Dehumidify Mode

Use this mode if you are connecting a dehumidifier which will lower the humidity level. Rotate both Day and Night knobs fully COUNTERCLOCKWISE. ☹ After several moments the LEDs on the front of the controller will start to flash. Once they stop flashing the Dehumidify LED should remain on, and the others will turn off. This indicates the controller has been set to Dehumidify-Mode.

### Humidify Mode

Use this mode if you are connecting a humidifier which will increase the humidity level. Rotate both Day and Night knobs fully CLOCKWISE. ☺ After several moments the LEDs on the front of the controller will start to flash. Once they stop flashing the Humidify LED should remain on, and the others will turn off. This indicates the controller has been set to Humidify-Mode.

### Changing the Humidity Levels:

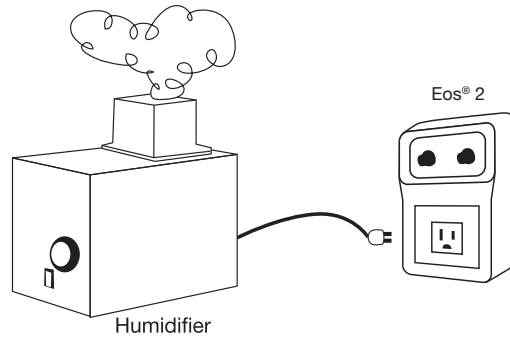
Once the mode of operation has been set, you may now set the Day and Night humidity levels using the knobs. The built-in photocell will detect the ambient lighting level and activate the Day/Night modes appropriately. After adjusting the settings, if the humidity level rises above or below the set points (depending on whether humidifying or dehumidifying), the controller will activate the connected device, and that device will remain on until the humidity level is raised or lowered by 5% rH above or below the set points. For example, if you are using the controller with a dehumidifier and the Day humidity setting is 80% if the humidity rises above 80% and if the controller will activate the dehumidifier and it will remain on until the humidity lowers to 75%. When using a dehumidifier the set points indicate the maximum humidity level. When using a humidifier the set points indicate the minimum humidity level.

***NOTE: Whenever the connected device is activated, the ‘Output On’ LED will illuminate.***

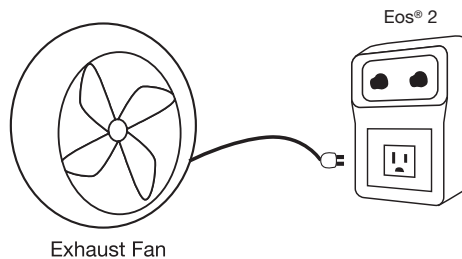
## Installation Example

- Plug the controller into a standard 120V wall outlet. A 120V power supply is required. This controller is water resistant, however it is not water-proof, so do not install it anywhere it will come in contact with water.
- Ensure that the device being connected to the controller has the proper voltage and will not exceed the maximum amperage rating.
- Connect the device to the controller using the outlet on the front.

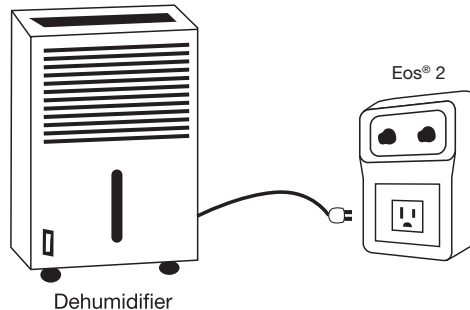
### Controlling a Humidifier



### Controlling a Fan



### Controlling a Dehumidifier



## Troubleshooting Tips

1. **Is the photocell working?** During the daytime the green LED on the top right edge of the controller labeled Daytime will illuminate. During the night this LED will be off. The LED has a 30 second delay when switching between Day and Night.
2. **Can I connect more than one device to the controller?** Yes, as long as the total amperage of the devices does not exceed the maximum amperage rating of the controller. It is recommended to keep the total amps at or below 80% of the total rating.
3. **The humidity does not seem to be correct...** The sensor on the controller is located on the bottom of the unit in the protective plastic "cage." Make sure the unit is not being affected by other factors such as direct sunlight exposure or areas that may not have good air movement.
4. **The controller isn't powering on...** Ensure that the controller is fully inserted into the power outlet. Test the controller using a power outlet that is confirmed to be working. If it still does not power on and the LEDs do not illuminate, contact the Titan Controls® technical service representative at 1-888-808-4826.

## Safety Notes

1. These safety and operating instructions must be kept in a safe place for future reference.
2. All warnings on this product and in these instructions must be observed closely.
3. All operating instructions must be followed.
4. If the instructions as provided by the manufacturer are not followed, damage to the product may result and warranty may be voided.
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. Do not use this controller near water. **For example:** near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
7. Do not install the enclosure near any heat source.
8. Do not block any ventilation openings. This product is a Safety Class 1 Controller. The main plug should be inserted in a power socket outlet only if provided with a protective earth contact.

## Controller Specifications

Input Voltage: 120VAC

Maximum Amperage: 14.5 Amps@ 120V AC

Humidity Control Range: 20% - 90% rH

Separate Day & Night Settings: Controlled by photocell

Humidity Accuracy: +/- 5% rH

Humidity Dead-band: 5% rH