



TITAN[®]
CONTROLS

EOS[®]

Complete Digital Humidity
Controller

Instruction Manual

Part # 702602



Complete Digital Humidity Controller

- Warnings and Cautions
- Factory Settings
- Complete Digital Humidity Controller (EOS®) Overview
- Instructions for Operation
- Error Codes
- Controller Specifications
- Controller Diagram
- Installation Options
- Installation Example
- Warranty Information
- Service & 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.
- When using “bug bombs” in area, cover controller and sensor completely to avoid corrosion.
- There are no serviceable parts in controller. Do not attempt to repair the unit.
- Breaking tamper proof seal will void your warranty.
- Do not put paper clips, tools, etc. into unit. Possible electrocution may occur.
- Plug controller into surge protector to avoid potential damage to the unit.
- Confirm that your power source is 120 Volts prior to plugging controller into outlet.
- Check that all equipment that will be activated by this controller is the proper voltage.
- Verify that the equipment you are controlling does not exceed a total of 14.5 amps.
- This controller is designed for “inside use” only.
- Use caution if operating controller in extremely humid environments (90% and above).
- 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.

Factory Settings

- Humidity Day Settings: Humidify: 50% rH, Dehumidify: 80% rH
- Humidity Night Settings: Humidify: 50% rH, Dehumidify: 80% rH
- Humidity Dead-Band: Humidify and Dehumidify 5% rH
- Day Temperature Low Limit: 50°F
- Night Temperature Low Limit: 50°F
- Low Temperature Protection: Off
- Low Temperature Reactivation: 5° F

EOS® Complete Digital Humidity Controller Overview

The EOS® Complete Digital Humidity Controller is used to control humidifying and dehumidifying devices simultaneously. You can set your desired day and night relative humidity by adjusting the knobs on the front of unit. The adjustment of dial ranges from 5% rH to 90% rH. After adjusting to the preferred setting, the controller will maintain that setting utilizing a 5% differential or dead-band. The Eos controller provides up to 14.5 amps of capacity on standard 120 volt circuit.

Instructions for Operation

Day & Night Humidity Set Point

Press the knob and turn to set the Day and Night humidity, press again to confirm the setting.


Humidity Dead-Band (hysteresis): 5% rH

For example, Day Humidify setting is 55%, Day Dehumidify setting is 65%, the humidifying device will be active when humidity is lower than 55% and will deactivate at or above 60%. The dehumidifying device will be active when humidity is above 65% and deactivate at or lower than 60%. This differential allows your equipment to perform at an optimum level with minimum cycling and reduce stress to your equipment. The integrated photocell separates the day and night humidity setting.

Humidity Min/Max Recall

Click both humidity (either the Day set or Night set) knobs to display the Humidity min/max rH record for the chosen set. This shows the lowest rH and highest rH levels for a 24 hour period. The screen will return to normal display after 5 seconds. Pressing both knobs, will reset the record.

Low Temperature Protection

If the environmental temperature drops below the low-limit set points, the humidifying or dehumidifying device will be deactivated. The Temperature display shows COLD  and current temperature repeatedly. When the temperature rises 5° F (adjustable from 1° F to 10° F), above the low limit set points, the humidity device will be reactivated.

Press and turn the related temperature knobs to set up the day and night low limit temperature. Press both Day Temp Low Limit and Night Temp Low Limit knobs for 3 seconds, adjust the temperature dead-band, with a range from 1° F to 10° F.

Temperature Min/Max Recall

Click both knobs of temperature to display the temperature min/max record. This shows the lowest and highest temperature levels for a 24 hour period. The screen will return to normal display after 5 seconds or by a pressing both knobs, and the record will be reset.

Error Codes

5.5F: Check the sensor connection and verify that it is clean and free of debris. When this occurs, the affected output will be disabled.

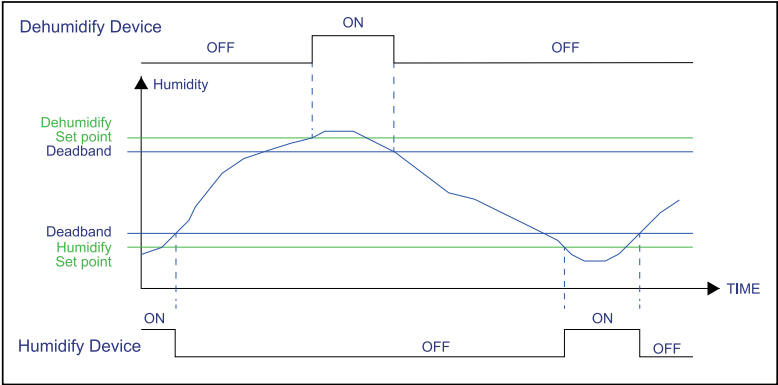
QUEP: If the humidity sensor doesn't observe the set point being reached in a 2 hour time period, screen flash with error code. Press the corresponding knob to reset error.

Error LEDs: There are two different error LEDs on the EOS. These error lights are triggered when the sensor doesn't observe the set point being reached for the respective output in a 2 hour time period.

Controller Specifications:

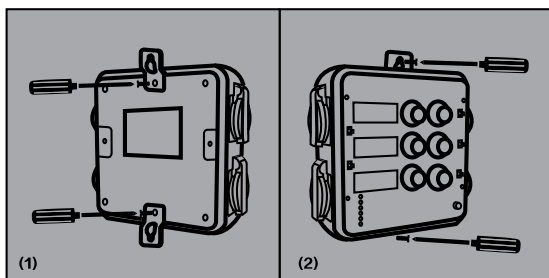
- Max Amp: 14,5 amps @ 120V 60Hz
- Sensor Cord Length: 15 feet
- Humidity Range: 5% -90% rH
- Humidity Accuracy: +/-3% rH
- Humidity Dead-Band (Hysteresis): 5% rH
- Low Temp Adjustable: 40°-70° F
- Weight: 3.5lbs
- Dimensions: 8" x 7,5" x 3,3"
- Indoor Use Only
- Operating Temperature: 50°F to 95°F
- Maximum Relative Humidity: 95%

Controller Diagrams:

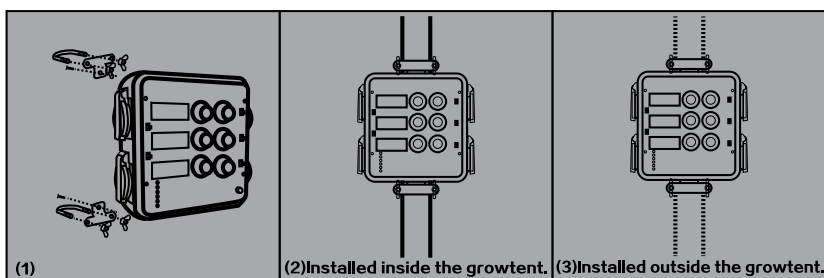


Installation Options

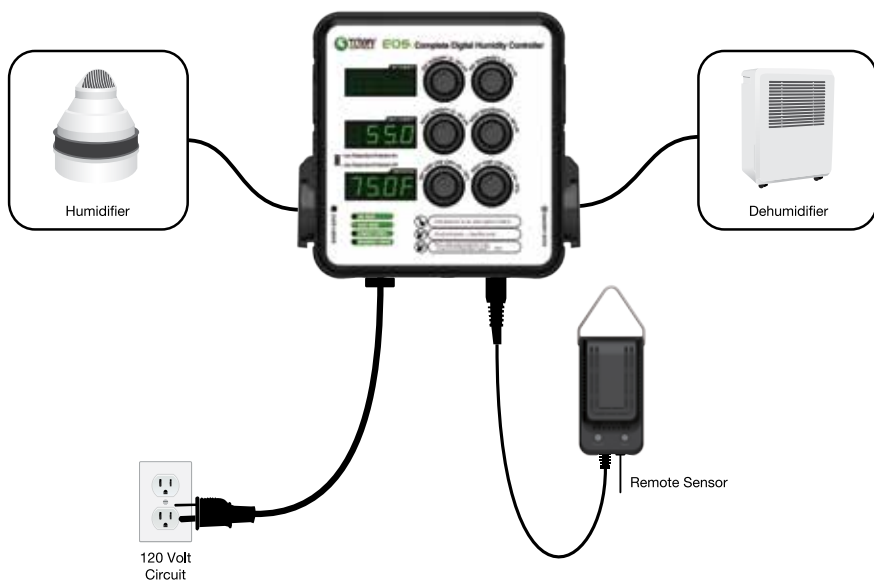
Option 1: Secure the unit to a wall



Option 2: Screw the controller to the grow tent tube with a U bolt



Installation Example



Warranty Information

- Titan Controls® warrants the original purchase of this product against defects in material and workmanship under normal use for two (2) 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 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 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.

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

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.

[illegible]

This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form a series of small, uniform squares across the entire surface. There are no margins, text, or other markings on the paper.



8