



# **Anthony Smart Controller Installation Instructions (For DisplayRite Model Frames)**



**IN-0032**

# Table of Contents

1. Controller Unit Installation.....	3
2. Standard Frame and Sensor Installation .....	3
3. Wiring Schematic.....	8
4. Adjustment Settings.....	8
5. Specifications .....	10
6. Revision History Page .....	11

## Safety and Warnings



### BEFORE YOU BEGIN

Read instructions completely and carefully.

### WARNING: TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK OR INJURY, OBSERVE THE FOLLOWING:

- 1) Use this unit in the manner intended by the manufacturer.
- 2) Before servicing or altering, switch power off.

### FOR YOUR SAFETY

Read and observe all CAUTIONS and WARNINGS shown throughout these instructions. While performing installations described; gloves, safety glasses or goggles should be worn.



### PREPARE ELECTRICAL WIRING

Electrical requirements

This appliance must be supplied with 120V, 60 Hz, and connected to an individual and properly grounded branch circuit, protected by a 15 or 20 ampere circuit breaker or time delay fuse.

### Grounding Instructions – Cable Direct

This lighting system must be connected to a grounded metal, permanent wiring system, or an equipment grounding connector must be run with the system conductors and be connected to the equipment grounding terminal or lead on the lighting fixture.

## 1. Controller Unit Installation

1. Remove the raceway cover by inserting a flat screwdriver into the seam between the metal raceway and the plastic cover and prying open.

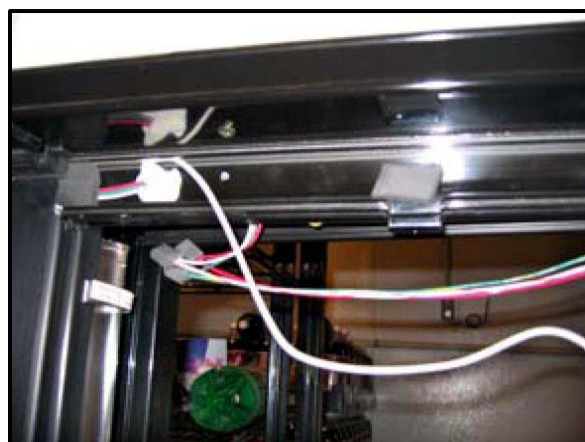


2. Use self-tapping screws to install the smart controller in the same location the ballast is mounted.



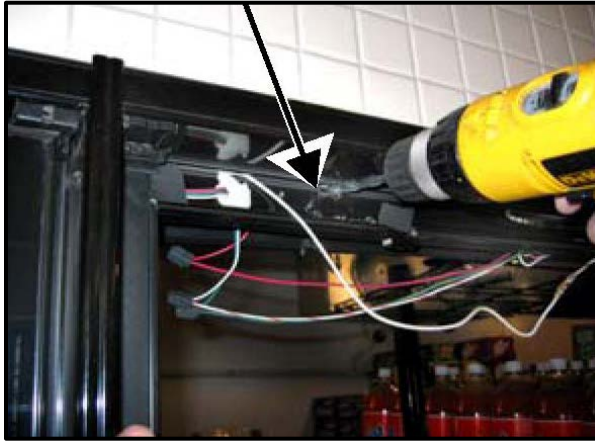
## 2. Standard Frame and Sensor Installation

1. Remove the top contact plate and pull the heater wire and cabling out of the frame channel, as well as the raceway.



Heater Cable  
& Wires

2. Secure the cable and wire away from the frame, for protection from drilling
3. Using a drill with a 1/2" drill bit, create an extra wide hole, through the frame and out of the rear frame raceway, for the sensor connector.

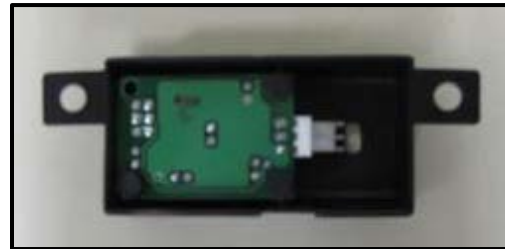
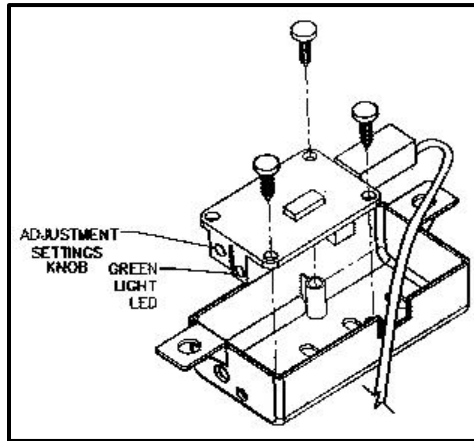


4. Carefully insert the connector end of the sensor cable through the drilled hole, pushing the sensor cable all of the way on the back of the raceway through the hole, minimizing excess of wire.

**NOTE:** Cutting the length of the sensor cable is NOT recommended.



5. Assemble the housing with the sensor board. Align the sensor board holes into the housing mounting holes and push the plastic screws through the holes. Be sure the green LED light shows outside the housing.

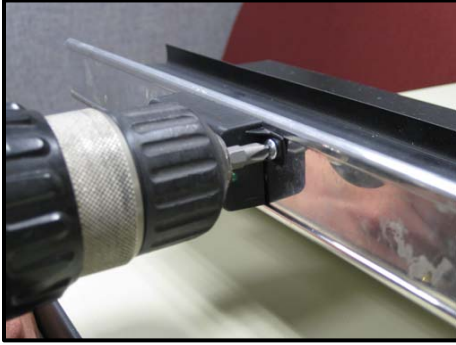


6. Insert the sensor cable connector into the sensor circuit board. Be sure the sensor cable exits out the housing notch.

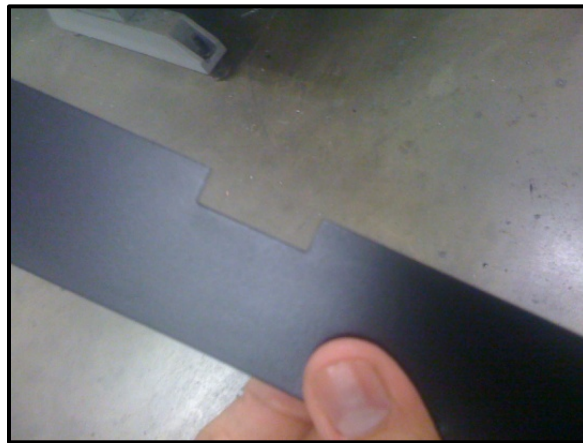


7. Confirm that the sensor connector is fully seated into the sensor housing.
8. Install the heater cable into the aluminum channel and neatly tuck the loose wiring back into the rear raceway.
9. Push the excess sensor cable back through the drilled hole, reducing the slack.
10. Seat the sensor until flush with the frame flange.

11. Mount the sensor housing to the frame exterior flange, using two self-drilling screws.



12. Cut a 1/4" x 1" rectangular cut on the contact plate to allow for passage of the sensor cable.



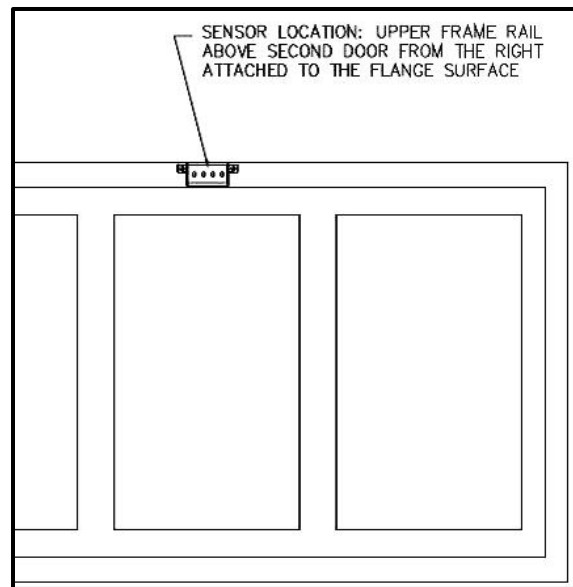
13. Apply a 3/4" x 2-1/2" piece of foam with a slit for wire placement to prevent air intake/outtake.



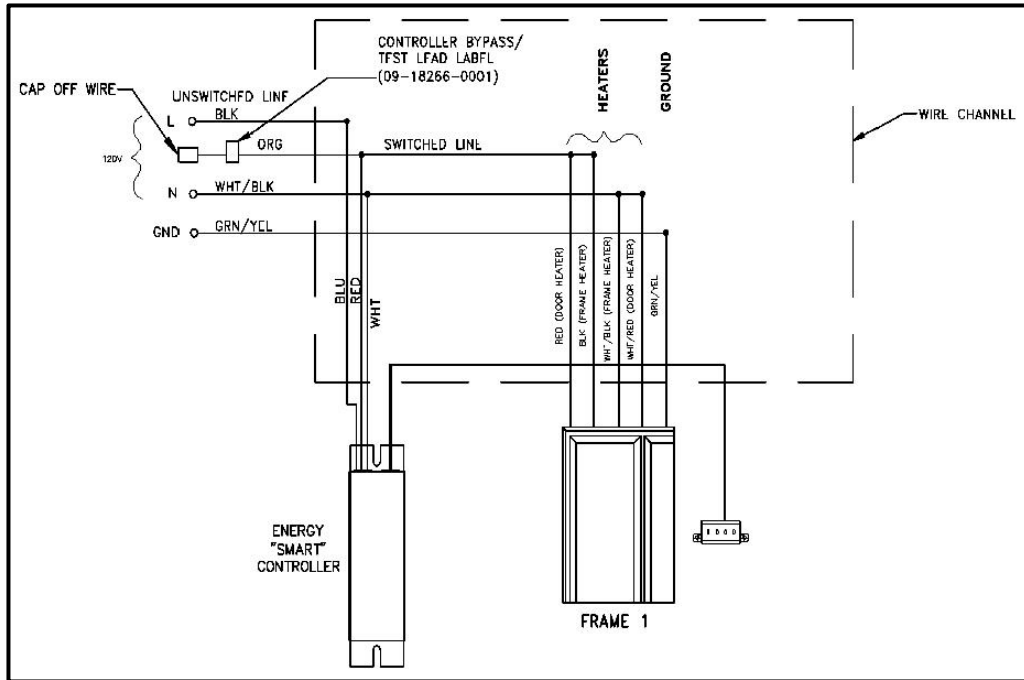
14. Insert the sensor cable into the notch and replace the contact plate on the frame.



15. Push the excess sensor cable into the notch contact plate (when it is already re-installed to the frame).
16. Use an Anthony aluminum clamp (11-11978-0001) and self-tapping washer screw (77-12036P006) to hold the sensor cable in place. Tightly secure the clamp under the front flange of the frame.



### 3. Wiring Schematic



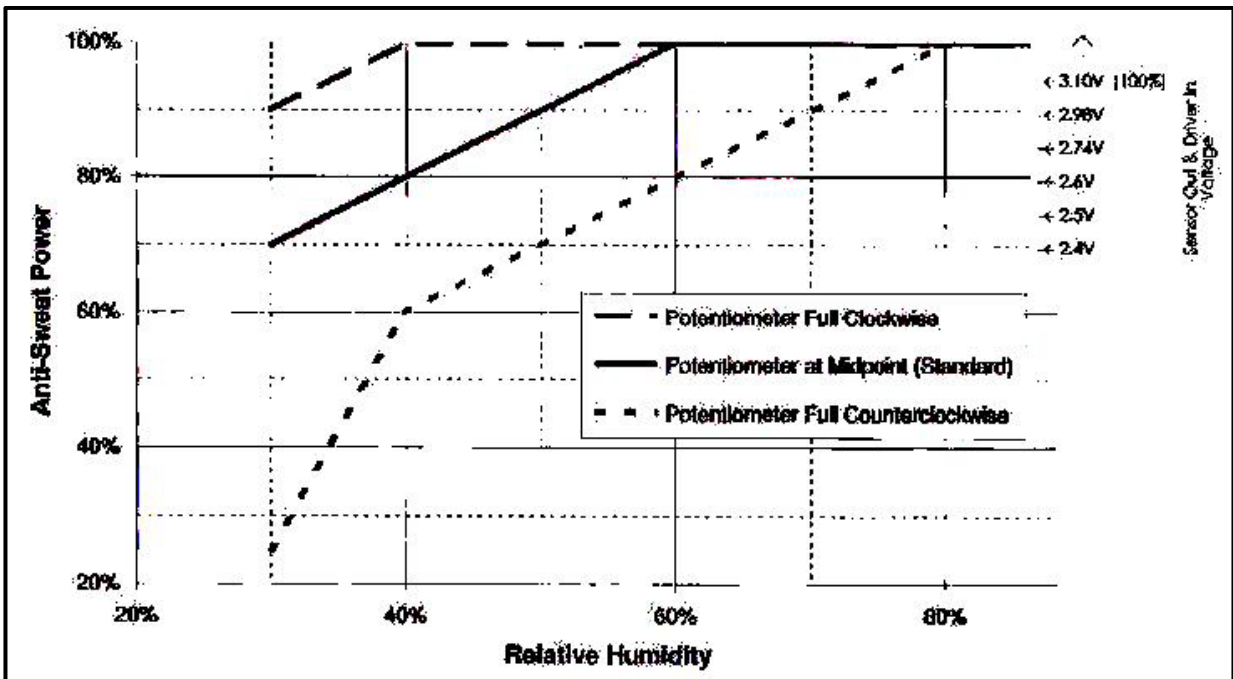
### 4. Adjustment Settings

The green light indicates when power is being applied to the unit. The controller is pre-set for standard operating conditions, but may be adjusted with a potentiometer to accommodate colder or warmer refrigerators.





Turn the potentiometer clockwise, using a small screwdriver, to provide more heat, or counter-clockwise to provide less heat, at a given relative humidity.



Anti-Sweat Controller Response

## 5. Specifications

**MODEL: 60-17156-0001**

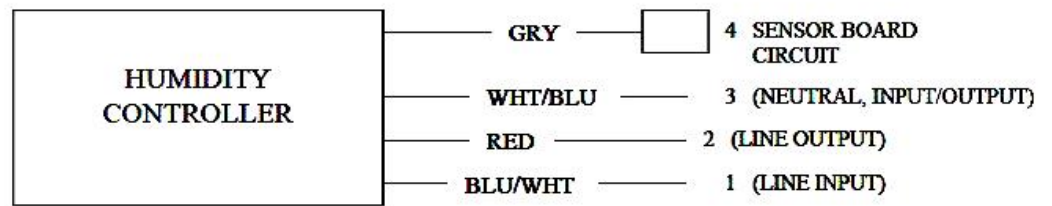
**INPUT VOLTAGE: 120 – 230 VOLTS**

**INPUT FREQUENCY 50/60 HZ**

**MAX. CURRENT 10 AMPS**

**UL CERTIFICATION NUMBER: SA33080**

**WIRE COLORS ARE: GRAY, WHITE/BLU, RED AND BLUE/WHITE**



## 6. Revision History Page

REV	ORIGINATOR	DESCRIPTION OF CHANGE	EFFECTIVE DATE
A		Initial Release	01/21/2010
B		Reformat	07/28/2010
C		Reformat	11/04/2010
D		Reformat	03/16/2011
E	Sam Fisher	Reformat & New Logo	05/21/2013