# TROUBLESHOOTING THE HT2 TEMPERATURE & HUMIDITY CONTROLLER
## Procedure Name: HT2-V2

## 1 – BEFORE YOU START

**CAUTION: READ AND FOLLOW THESE INSTRUCTIONS BEFORE STARTING THE TEST.**

- LIGHTING: Perform this test in a room with enough light for the controller to detect a DAY condition. A dark location should be avoided.
- You will need a lamp or night light to perform the test.
- Perform the test in a room temperature around 25°C / 78°F

## 2 – TEST

<table>
<thead>
<tr>
<th>STEP</th>
<th>ITEM</th>
<th>HANDLING AND TEST DESCRIPTION</th>
<th>EXPECTED RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LEDs check</td>
<td>-Plug in the controller into an electrical outlet</td>
<td>The LEDs will light ON from top to bottom and bottom to top, one LED at a time.</td>
</tr>
<tr>
<td>2A</td>
<td>Display &amp; knob check</td>
<td>-Push the knob once.</td>
<td>The unit enters in DAY HUMIDITY SET POINT and the HUMIDITY DAYTIME LED turns ON (sun on the left side).</td>
</tr>
<tr>
<td>2B</td>
<td></td>
<td>-Turn knob clockwise to raise set point to 95%.</td>
<td>The display bars will light up from the bottom and up to the top, no more than 2 bars simultaneously.</td>
</tr>
<tr>
<td>2C</td>
<td></td>
<td>- Turn knob counter clockwise to lower set point to 15%.</td>
<td>The display bars will light up from the top and down to the bottom, no more than 2 bars simultaneously.</td>
</tr>
<tr>
<td>2D</td>
<td></td>
<td>- Push the knob once.</td>
<td>HUMIDITY NIGHTIME LED turns ON.</td>
</tr>
<tr>
<td>2E</td>
<td></td>
<td>- Push once and turn the knob counter clockwise to set the setpoint to 60°F.</td>
<td>TEMPERATURE DAYTIME LED turns ON.</td>
</tr>
<tr>
<td>2F</td>
<td></td>
<td>- Push once and turn the knob counter clockwise to set the setpoint to 60°F.</td>
<td>TEMPERATURE NIGHTIME LED turns ON.</td>
</tr>
<tr>
<td>2G</td>
<td></td>
<td>- Push the knob once. Set to 56°F</td>
<td>Both TEMPERATURE DAY &amp; NIGHT LEDs turn ON.</td>
</tr>
<tr>
<td>2H</td>
<td></td>
<td>-Push the knob once.</td>
<td>All The LEDs and display bars turn OFF. The CONTROL MODE LED turns ON.</td>
</tr>
</tbody>
</table>
### Output check

- Turn knob in both directions to change control mode.
- Select “Cool control mode.
- Push the knob once.

The LEDs will turn on one at a time in the CONTROL MODE section. The Output will turn on. (Test with a nightlight in the output)

The unit is back to normal operation.

### Sensor check

- Disconnect the sensor from the controller.
- Reconnect the sensor to the controller

The top and bottom display bars will blink. The unit is back to normal operation and both bars turn off.

### 4B

- Blow into the sensor

The display bars will go up to indicate that the temperature and humidity levels are going up.

### 4C

**For Step 5, you will need a reference thermometer or hygrometer to validate the sensors readings (values).**

### Photocell and room condition check

5A - Turn knob clockwise.

The DAYTIME TEMPERATURE LED blinks and the temperature level should read between 64°F and 84°F (Room temperature).

5B - Turn knob counter clockwise.

The DAYTIME HUMIDITY LED blinks and the humidity level should read between 30 and 60% (humidity level in the room).

5C - Cover the photocell for at least 8 to 10 seconds.

The NIGHTTIME TEMPERATURE LED blinks and the temperature level should read between 64°F and 84°F (Room Temperature).

The NIGHTTIME HUMIDITY LED blinks and the humidity level should read between 30 and 60% (humidity level in the room).

END OF TEST