

# TROUBLESHOOTING THE TP12 GROZONE TEMPERATURE CONTROLLER

Procedure Name: TP12-V2

## 1 – BEFORE YOU START

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

- ❖ THE UNIT MUST BE UNPLUGGED
- ❖ DO NOT PLUG A LOAD INTO THE OUTLET UNTIL STEP 9
- ❖ LIGHTING CONDITION: Perform this test in a room with enough light for the controller to detect a DAY condition.
- ❖ TEMPERATURE: Perform this test in a room where ambient temperature is between 65°F and 75°F (18°C and 24°C).
- ❖ DEFINITIONS: CW = clockwise, CCW = counterclockwise
- ❖ **TURN BOTH KNOBS FULLY CW BEFORE GOING TO STEP 1**

## 2 – TEST

STEP	HANDLING AND TEST DESCRIPTION	EXPECTED RESULTS
1	<ul style="list-style-type: none"> <li>❖ Plug the unit into the power outlet</li> <li>❖ <b>WITHIN 5 SECONDS</b>, turn BOTH KNOBS <u>fully</u> CCW.</li> </ul>	<b>Output On</b> indicator will turn ON.
2	<ul style="list-style-type: none"> <li>❖ Turn UPPER KNOB <u>fully</u> CW.</li> </ul>	<b>Output On</b> indicator will turn OFF.
3	<ul style="list-style-type: none"> <li>❖ Turn UPPER KNOB <u>fully</u> CCW.</li> </ul>	<b>Output On</b> indicator will turn ON.
4	<ul style="list-style-type: none"> <li>❖ Turn LOWER KNOB <u>fully</u> CW.</li> </ul>	<b>Output On</b> indicator will stay ON.
5	<ul style="list-style-type: none"> <li>❖ Cover the <b>Light Sensor</b> completely with the palm of your hand or black electrical tape(a single finger will NOT cover the sensor appropriately)</li> </ul>	<b>Output On</b> indicator will turn OFF after 6 to 8 seconds.
6	<ul style="list-style-type: none"> <li>❖ Uncover the <b>Light Sensor</b> and wait 6 to 8 sec.</li> </ul>	<b>Output On</b> indicator will turn ON after 6 to 8 seconds.
7	<ul style="list-style-type: none"> <li>❖ Turn UPPER KNOB to <b>SET DIFFERENTIAL</b> and adjust LOWER knob to 20°F/11°C. Then turn UPPER KNOB slowly in both directions.</li> </ul>	<b>Output On</b> indicator will turn ON and OFF within a range of ± 10 °F from room temperature.
8	<ul style="list-style-type: none"> <li>❖ Turn UPPER KNOB to <b>SET DIFFERENTIAL</b> and adjust lower knob to 4°F/2°C. Then turn UPPER KNOB slowly in both directions.</li> </ul>	<b>Output On</b> indicator will turn ON and OFF within a range of ± 2 °F from room temperature.
9	<ul style="list-style-type: none"> <li>❖ Turn UPPER KNOB fully CCW and Plug a load (lamp, pump.) into the controller outlet.</li> </ul>	<b>Output On</b> indicator and the load will turn ON.

10	<ul style="list-style-type: none"><li>❖ Slowly turn the UPPER KNOB CCW until the <b>Output On</b> indicator and the load turns OFF.</li><li>❖ Heat the temperature sensor by blowing on it.</li></ul>	<p><b>Output On</b> indicator and the load will turn OFF.</p> <p>The <b>Output On</b> indicator will turn ON once the ambient temperature reaches 2°F/1°C higher than the setpoint.</p>
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