**Supercedes: 102-082 December 1, 1999 Effective: October 15, 2005**

**Plant ID#: 9300-824**

**SR 502 Thermostats**

**ZONE1** | **ZONE2** | **ZONE3**
---|---|---
24 VAC Power

**Fuse 1 AMP**

**120 Volt Circulators**

**TO: "TT" On Aquastat Control**

**TO: 120 VAC Power (HOT)**

**TO: 120 VAC Power (NEUTRAL)**

**Jumpers**

<table>
<thead>
<tr>
<th>N</th>
<th>P</th>
<th>ZC</th>
<th>H</th>
<th>X</th>
<th>ZR</th>
</tr>
</thead>
</table>

**ZONE 1 and ZONE 2 Power**

**ZONE 1** | **ZONE 2**
---|---
TWO ZONE SWITCHING RELAY WITH OPTIONAL PRIORITY

**Note:** When using Alternative Wiring diagram, the boiler operating control’s ZC terminal will see the load of the circulator(s).

**Warning:** When using Alternative Wiring diagram, wiring instructions must be followed so power originates from the boiler aquastat. Failure to follow these wiring instructions may result in a secondary source of power being connected to the boiler that may activate it under certain circumstances, causing injury or death.

**Operation:** When the thermostat calls for heat, the appropriate circulator is energized and the isolated end switch (X1 and X2) will start the boiler.

**Jumper Placement:** The jumper should be placed between terminals ZC and H. Connect the isolated end switch, X1 and X2 to the boiler aquastat control. **For Zone 1 priority, remove jumper between terminals P and ZC.**

**Power Input:** Connect 120 volt ac power input to terminals N and H. Neutral wire to terminal N. Hot wire to terminal H.

**The Taco Connection:**
Combine the reliability of the Taco Zone Valves, Priority Zoning Circulators, Thermostats, and the "00" family of circulators with the advanced features of the Taco Zone Controls to achieve total system integration. No matter the application, Taco now provides the products to maximize system performance while simplifying both installation and service.

**External Diagnostics:**
Externally visible lights show full functionality of the switching relay. The green light should always be on, indicating that power is connected. When the thermostat calls for heat, both the appropriate circulator and red indicating light is energized.

**Specifications:**

<table>
<thead>
<tr>
<th>PRODUCT NUMBER</th>
<th>Transformer</th>
<th>Combined Load</th>
<th>Dimensions of Enclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR502</td>
<td>15 amperes</td>
<td>10 1/4&quot; x 6 3/4&quot; x 2 3/4&quot;</td>
<td></td>
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</table>

All Switching Relays are relay type DPST, have a thermostat current of .18, and have a single phase motor rating per zone of 1/3 hp (7.2A) @ 120 VAC.

**Features:**
External Indicator Lights
Priority
Simplified Wiring
Fully Enclosed Snap-Out Relays
Compact Design
Fuse Protected
100% Factory Tested
Isolated End Switch
Contractor Friendly PC Board Layout
Universal Thermostat Compatibility
UL Approved
24 volt Power Input or Output Terminal
Extended 3 Year Warranty
Made in the USA

**Warning:** Wiring connections must be made in accordance with all applicable electrical codes and these instructions. Use copper wire only. Failure to follow this instruction can result in personal injury or death and/or property damage. 10-18 gauge wire recommended for 120 VAC connections with 9 in.lbs. max torque, 12-22 gauge wire for thermostat connections with 9 in.lbs. max torque, and 12-22 gauge wire for 24 VAC source with 5 in.lbs. max torque.

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**Do it Once. Do it Right.®**

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