Application
The Uponor Zone Control Module is a printed circuit control and diagnostic device designed for use with Uponor Thermostats, Motorized Valve Actuators (MVAs), Thermal Actuators or Zone Valves. The module provides connection to the power supply transformer; interconnections between the individual thermostats and their respective MVAs; thermal actuators or zone valves; and the connection between the end switches and the pump or boiler relay. The modules are internally fused for protection from over current or direct shorts from the power supply transformer.

Caution: Because the end switch circuit is not protected from over current, install a 1-amp fuse. For proper operation, ensure there is a separate transformer load on the end switch. Do not connect the SB, R, C terminal to the ES terminal with the same transformer.

Part Numbers
A3030003
(Three-zone Control Module)
(2” x 6”)
A3030004
(Four-zone Control Module)
(2” x 8”)

Zone Configurations
Available in both three- and four-zone configurations
May be ganged together

Display
Light emitting diodes (LEDs) indicate various functions of control (see Table 1).

Specifications
Power input 24VAC
End switch circuit — dry contact equivalent nominal 24VAC, 2A maximum

For the maximum number of zones on a transformer, see Table 2.

Control is setback compatible.

Uponor recommends 18GA thermostat wire size.

Caution: Because the end switch circuit is not protected from over current, install a 1-amp fuse. For proper operation, ensure there is a separate transformer load on the end switch. Do not connect the SB, R, C terminal to the ES terminal with the same transformer.

<table>
<thead>
<tr>
<th>LED</th>
<th>Definition</th>
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<tbody>
<tr>
<td>Green</td>
<td>Indicates power to the module</td>
</tr>
<tr>
<td>Yellow</td>
<td>Indicates which zones are calling for heat</td>
</tr>
<tr>
<td>Red</td>
<td>Indicates which end switches are closed and completing the circuit for the pump or boiler relay</td>
</tr>
</tbody>
</table>

Table 1: LED Definitions

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Description</th>
<th>50VA</th>
<th>75VA</th>
<th>100VA</th>
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</thead>
<tbody>
<tr>
<td>A3020522</td>
<td>MVA</td>
<td>6</td>
<td>9</td>
<td>12</td>
</tr>
<tr>
<td>A3070526</td>
<td>1” Zone Valve</td>
<td>6</td>
<td>9</td>
<td>12</td>
</tr>
<tr>
<td>A3010522</td>
<td>Thermal Actuator</td>
<td>12</td>
<td>19</td>
<td>25</td>
</tr>
</tbody>
</table>

Table 2: Maximum Number of Zones on a Transformer
(Calculated to include 10% line loss)
Connecting
Connect modules in series using a module jumper (provided). Fasten this jumper securely within the input and output blocks of the corresponding modules (see Figure 1).

Mounting Instructions
For best results, mount the control module in a convenient location above the MVAs or zone valves using either double-stick tape (provided) or mounting holes and suitable hardware. Ensure the location does not expose the module to moisture or physical damage.

Wiring Instructions
1. Strip the insulation from the wire to a length of \( \frac{3}{8} \)".
2. Ensure the wire is fully seated in the terminal and does not short to adjacent wires.
3. Twist loose stranded wire tightly and ensure no loose strands are present.
4. Tighten the terminal nut.
5. Each terminal is equipped with a jamb plate for accommodating stranded wire. If reconnecting the terminal, push the jamb plate back into place with a suitable round punch prior to re-inserting the stranded wires. The maximum number of connections per terminal is four. If more than four wires are required at the terminal, bundle or wire nut the wires together, and run one wire to the terminal.

Note: If using the 500 Series, you will need a minimum of three-wire thermostat wire for the thermostat to function properly. (Uponor recommends five wire.)

Fuse Replacement
Replace the fuse on the board as necessary.
- 2A fuse for 50VA transformer
- 3A fuse for 75VA transformer
- 4A fuse for 100VA transformer