SERIES SCD

DIN RAIL TEMPERATURE/PROCESS CONTROLLERS
Universal Inputs, Up to 8 PID Loops, Modbus® Communications

The Series SCD DIN Rail Temperature/Process Controllers offer multiple PID loops in a compact size. Each SCD-1000 master controller can be combined with up to seven SCD-2000 slave controllers without any wires. Each controller has one universal input, one relay output and one user selected output.

FEATURES/BENEFITS
• Expandable from 1 to 8 process control loops
• Universal transmitter or temperature sensor inputs
• RS-485 Modbus® communication
• Universal inputs, up to 8 PID loops
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• Universal transmitter or temperature sensor inputs
• RS-485 Modbus® communication

APPLICATIONS
• Oven, boiler, or chiller control
• Hot plates/melt pots
• Packaging equipment
• Environmental chambers
• Medical equipment
• Food service equipment

SERIES TS DIN

DIN RAIL MOUNT TEMPERATURE SWITCH
HACCP Alarm Logging, Intelligent Defrost

The Series TS DIN DIN Rail Mount Temperature Switch is ideally designed to control compressor, defrost, and fan cycles in refrigeration applications. The digital input can be used to remotely trigger a defrost cycle, monitor cooler door status, or act as an external alarm. Three other probe inputs measure cabinet, defrost, and product temperature. Programming performed on the 6 button keypad or with the Model TS2-K configuration key.

APPLICATIONS
• Refrigerated cabinets
• Walk in coolers
• Applications requiring defrost cycles

MODEL CHART

<table>
<thead>
<tr>
<th>Model</th>
<th>Supply Power</th>
<th># of Outputs</th>
<th>Display Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS DIN-013</td>
<td>115 VAC</td>
<td>1, 2, 3, 4, 5</td>
<td>Red</td>
</tr>
<tr>
<td>TS DIN-015</td>
<td>115 VAC</td>
<td>1, 2, 3</td>
<td>Red</td>
</tr>
<tr>
<td>TS DIN-023</td>
<td>230 VAC</td>
<td>1, 2, 3</td>
<td>Red</td>
</tr>
<tr>
<td>TS DIN-026</td>
<td>230 VAC</td>
<td>1, 2, 3, 4, 5</td>
<td>Blue</td>
</tr>
<tr>
<td>TS DIN-033</td>
<td>12 VAC/VDC</td>
<td>1, 2, 3</td>
<td>Red</td>
</tr>
<tr>
<td>TS DIN-043</td>
<td>24 VAC/VDC</td>
<td>1, 2, 3</td>
<td>Red</td>
</tr>
<tr>
<td>TS DIN-213</td>
<td>115 VAC</td>
<td>1, 2, 3</td>
<td>Blue</td>
</tr>
<tr>
<td>TS DIN-215</td>
<td>115 VAC</td>
<td>1, 2, 3, 4, 5</td>
<td>Blue</td>
</tr>
<tr>
<td>TS DIN-233</td>
<td>12 VAC/VDC</td>
<td>1, 2, 3</td>
<td>Blue</td>
</tr>
<tr>
<td>TS DIN-243</td>
<td>24 VAC/VDC</td>
<td>1, 2, 3</td>
<td>Blue</td>
</tr>
</tbody>
</table>

*DC current input requires 250 Ω precision resistor

MODEL CHART

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCD-PS</td>
<td>100-240 VAC/VDC to 24 VDC power supply</td>
</tr>
<tr>
<td>SCD-SW</td>
<td>Configuration software</td>
</tr>
<tr>
<td>A-277</td>
<td>250 ohm precision resistor</td>
</tr>
<tr>
<td>MN-1</td>
<td>Mini-Node™ USB/RS-485 converter</td>
</tr>
<tr>
<td>A-600</td>
<td>R/C snubber</td>
</tr>
</tbody>
</table>

SPECIFICATIONS

Probe Range: PTC: -58 to 302°F (-50 to 150°C); NTC: -58 to 230°F (-50 to 110°C).
Input: PTC/NTC.
Output: Output 1: SPST relay rated 16A @ 240 VAC resistive, 10 FLA, 60 LRA, 1HP @ 240 VAC inductive; Output 2: SPDT relay rated 8A @ 240 VAC resistive; Output 3: SPDT relay rated 8A @ 240 VAC resistive; Output 4: SPST relay rated 8A @ 240 VAC resistive; Output 5: SPST relay rated 16A @ 240 VAC resistive, 10 FLA, 60 LRA, 1HP @ 240 VAC inductive.
Control Type: On/off.
Power Requirement: 115 VAC, 230 VAC, 12 VAC/VDC, 24 VAC/VDC (+10% depending on model).
Power Consumption: 6 VA.
Accuracy: Better than 1% of full-scale.
Display: 3-digits plus sign.
Resolution: 0.1°.
Memory Backup: Non-volatile memory.
Temperature Limits: Operating: 32 to 131°F (0 to 55°C); Storage: -4 to 176°F (-20 to 80°C).
Agency Approvals: CE, cULus.

ACCESSORIES

See page reference below.