DIN RAIL TEMPERATURE/PROCESS CONTROLLER

Universal Inputs, Up to 8 PID Loops, Modbus® Communications

The DIN Rail Mount SERIES SCD offers 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
- Dual loop or single loop/alarm

APPLICATIONS
- Intelligent Defrost parameters manage defrost cycle in order to save energy costs
- Real-time clock used for HACCP logging of temperature limit alarms or loss of power
- 3 temperature probe inputs

SERIES SCD

DIN Rail Mount Temperature Switch is ideally designed to control compressors, 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.

FEATURES/BENEFITS
- 3 temperature probe inputs
- Real-time clock used for HACCP logging of temperature limit alarms or loss of power
- Intelligent Defrost parameters manage defrost cycle in order to save energy costs

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

SERIES TSDIN

DIN Rail Mount Temperature Switch

HACCP Alarm Logging, Intelligent Defrost

The SERIES TSDIN 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.

FEATURES/BENEFITS
- 3 temperature probe inputs
- Real-time clock used for HACCP logging of temperature limit alarms or loss of power
- Intelligent Defrost parameters manage defrost cycle in order to save energy costs

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

There are several model options available, each with different specifications and features. The model chart below provides a summary of the available models:

**Model Chart**

<table>
<thead>
<tr>
<th>Model</th>
<th>Controller</th>
<th>Output 1</th>
<th>Output 2</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSDIN-013</td>
<td>115 VAC</td>
<td>1, 2, 3</td>
<td>Red</td>
<td>$105.00</td>
</tr>
<tr>
<td>TSDIN-015</td>
<td>115 VAC</td>
<td>1, 2, 3, 5</td>
<td>Red</td>
<td>$115.00</td>
</tr>
<tr>
<td>TSDIN-023</td>
<td>120 VAC</td>
<td>1, 2, 3, 5</td>
<td>Red</td>
<td>$125.00</td>
</tr>
<tr>
<td>TSDIN-025</td>
<td>120 VAC</td>
<td>1, 2, 3, 5</td>
<td>Red</td>
<td>$135.00</td>
</tr>
<tr>
<td>TSDIN-033</td>
<td>120 VAC</td>
<td>1, 2, 3, 5</td>
<td>Red</td>
<td>$145.00</td>
</tr>
<tr>
<td>TSDIN-043</td>
<td>120 VAC</td>
<td>1, 2, 3, 5</td>
<td>Red</td>
<td>$155.00</td>
</tr>
<tr>
<td>TSDIN-053</td>
<td>120 VAC</td>
<td>1, 2, 3, 5</td>
<td>Red</td>
<td>$165.00</td>
</tr>
<tr>
<td>TSDIN-113</td>
<td>120 VAC</td>
<td>1, 2, 3, 5</td>
<td>Red</td>
<td>$175.00</td>
</tr>
<tr>
<td>TSDIN-115</td>
<td>120 VAC</td>
<td>1, 2, 3, 5</td>
<td>Red</td>
<td>$185.00</td>
</tr>
<tr>
<td>TSDIN-123</td>
<td>120 VAC</td>
<td>1, 2, 3, 5</td>
<td>Red</td>
<td>$195.00</td>
</tr>
<tr>
<td>TSDIN-125</td>
<td>120 VAC</td>
<td>1, 2, 3, 5</td>
<td>Red</td>
<td>$205.00</td>
</tr>
<tr>
<td>TSDIN-133</td>
<td>120 VAC</td>
<td>1, 2, 3, 5</td>
<td>Red</td>
<td>$215.00</td>
</tr>
<tr>
<td>TSDIN-143</td>
<td>120 VAC</td>
<td>1, 2, 3, 5</td>
<td>Red</td>
<td>$225.00</td>
</tr>
<tr>
<td>TSDIN-153</td>
<td>120 VAC</td>
<td>1, 2, 3, 5</td>
<td>Red</td>
<td>$235.00</td>
</tr>
</tbody>
</table>

**Specifications**

- **Probe Range:** PTC: -58 to 320°F (-50 to 150°C); NTC: -58 to 230°F (-50 to 110°C)
- **Input:** PTC/NTC
- **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: SPST relay rated 8A @ 240 VAC resistive; Output 4: SPDT 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)
- **Weight:** 10.8 oz (306 g)

**ACCESSORIES**

See page reference below.