SERIES TST

DIGITAL TEMPERATURE SWITCH
Heating and Cooling Control, 16 Amp Rating

The Series TST Digital Temperature Switch is designed with many heating and cooling applications in mind. This low cost switch is simple to set up with one probe input and SPDT switch output. Programming performed using either the front keypad or through a TS2-K programming key.

FEATURES/BENEFITS
- Buzzer indicates probe/memory error or high/low temperature alarm conditions
- Capacitive buttons offer clean panel face design

APPLICATIONS
- Refrigeration
- Holding ovens
- Boilers
- Brewing systems

MODEL CHART

<table>
<thead>
<tr>
<th>Model</th>
<th>Supply Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>TST-011</td>
<td>115 VAC</td>
</tr>
<tr>
<td>TST-021</td>
<td>230 VAC</td>
</tr>
<tr>
<td>TST-031</td>
<td>12 VAC/VDC</td>
</tr>
<tr>
<td>TST-041</td>
<td>24 VAC/VDC</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 (1000 Ω @ 25°C) or NTC (10 KΩ @ 25°C) thermistor.
Output: SPD relay rated 16 A @ 240 VAC resistive, 10 FLA, 60 LRA.
Horsepower Rating (HP): 1 HP.
Control Type: On/Off.
Power Requirements: 115 VAC, 230 VAC, 24 VAC/VDC, or 12 VAC/VDC.
Power Consumption: 4 VA @ 115/230 VAC; 1.5 VA @ 12/24 VAC/VDC.
Accuracy: ±1% FS.
Display: 3-digit, plus sign.
Resolution: 0.1°.
Memory Backup: Nonvolatile memory.
Ambient Temperature: 32 to 131°F (0 to 55°C).
Storage Temperature: -4 to 176°F (-20 to 80°C).
Weight: 115 and 230 V models: 7.2 oz (204 g); 12 and 24 V models: 4.8 oz (136 g).
Front Panel Rating: IP65.
Agency Approvals: CE, cURus.

ACCESSORIES
See page reference below.

SERIES TSXT

DIGITAL TEMPERATURE SWITCH
Refrigeration Control, Up To 3 Probe Inputs and 3 Relay Outputs

The Series TSXT Digital Temperature Switch is designed for refrigeration control. It accepts PTC or NTC temperature probe types and can control the compressor, defrost, fan, alarm, and light in a refrigeration system. Master/slave configurations allow synchronization of defrost cycles between different units. Programming is performed through the front keypad, or by using the TS2-K programming key.

FEATURES/BENEFITS
- Models available with 1, 2, or 3 relay outputs
- 3 temperature inputs and one digital input for complete refrigeration control
- Configuration key available for programming multiple units
- Capacitive buttons offer clean panel face design

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

MODEL CHART

<table>
<thead>
<tr>
<th>Model</th>
<th>Supply Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSXT-211</td>
<td>115 VAC</td>
</tr>
<tr>
<td>TSXT-221</td>
<td>230 VAC</td>
</tr>
<tr>
<td>TSXT-231</td>
<td>12 VAC/VDC</td>
</tr>
<tr>
<td>TSXT-241</td>
<td>24 VAC/VDC</td>
</tr>
<tr>
<td>TSXT-212</td>
<td>115 VAC</td>
</tr>
<tr>
<td>TSXT-222</td>
<td>230 VAC</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 (1000 Ω @ 25°C) or NTC (10 KΩ @ 25°C) thermistor.
Output: Relay 1: SPST relay rated 16 A @ 240 VAC resistive, 10 FLA, 60 LRA; Relay 2: SPST relay rated 5 A @ 240 VAC resistive; Relay 3: SPST relay rated 8 A @ 240 VAC resistive.
Horsepower Rating (HP): 1 HP (Relay 1).
Control Type: On/Off with defrost options.
Power Requirements: 115 VAC, 230 VAC, 24 VAC/VDC, or 12 VAC/VDC.
Power Consumption: 3.6 VA @ 115/230 VAC; 1.5 VA @ 12/24 VAC/VDC.
Accuracy: ±1% FS.
Display: 3-digit, plus sign.
Resolution: 0.1°.
Memory Backup: Nonvolatile memory.
Ambient Operating Temperature: 32 to 131°F (0 to 55°C).
Storage Temperature: -4 to 176°F (-20 to 80°C).
Weight: 115 and 230 V models: 7.2 oz (204 g); 12 and 24 V models: 4.8 oz (136 g).
Front Panel Rating: IP65.
Agency Approvals: CE, cURus.

ACCESSORIES
See page reference below.