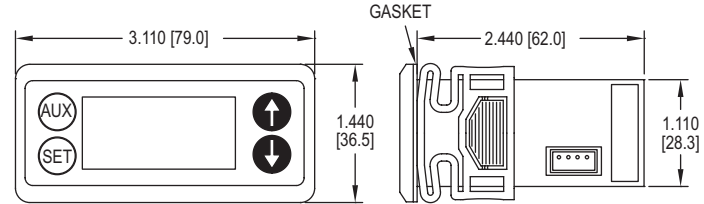


**SERIES TSXT**

# DIGITAL TEMPERATURE SWITCH

## Refrigeration Control, Up To 3 Probe Inputs and 3 Relay Outputs

Temperature Switches, Digital



**Panel Cutout 2-51/64" x 1-9/64" (71 x 29 mm)**

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 programing multiple units
- Capacitive buttons offer clean panel face design
- Modbus® communication protocol through TTL serial connection

**APPLICATIONS**

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

SPECIFICATIONS	
<p><b>Probe Range:</b> PTC: -58 to 302°F (-50 to 150°C); NTC: -58 to 230°F (-50 to 110°C).</p> <p><b>Input:</b> PTC (1000 Ω @ 25°C) or NTC (10 KΩ @ 25°C) thermistor.</p> <p><b>Output:</b> 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.</p> <p><b>Horsepower Rating (HP):</b> 1 HP (Relay 1).</p> <p><b>Control Type:</b> On/off with defrost options.</p> <p><b>Power Requirements:</b> 115 VAC, 230 VAC, 24 VAC/VDC, or 12 VAC/VDC.</p>	<p><b>Power Consumption:</b> 3.6 VA @ 115/230 VAC; 1.5 VA @ 12/24 VAC/VDC.</p> <p><b>Accuracy:</b> ±1% FS.</p> <p><b>Display:</b> 3-digit, plus sign.</p> <p><b>Resolution:</b> 0.1°.</p> <p><b>Memory Backup:</b> Nonvolatile memory.</p> <p><b>Ambient Operating Temperature:</b> 32 to 131°F (0 to 55°C).</p> <p><b>Storage Temperature:</b> -4 to 176°F (-20 to 80°C).</p> <p><b>Weight:</b> 115 and 230 V models: 7.2 oz (204 g); 12 and 24 V models: 4.8 oz (136 g).</p> <p><b>Front Panel Rating:</b> IP65.</p> <p><b>Agency Approvals:</b> CE, cURus.</p>

MODEL CHART					
Model	Supply Power	Outputs	Model	Supply Power	Outputs
TSXT-211	115 VAC	1	TSXT-232	12 VAC/VDC	2
TSXT-221	230 VAC	1	TSXT-242	24 VAC/VDC	2
TSXT-231	12 VAC/VDC	1	TSXT-213	115 VAC	3
TSXT-241	24 VAC/VDC	1	TSXT-223	230 VAC	3
TSXT-212	115 VAC	2	TSXT-233	12 VAC/VDC	3
TSXT-222	230 VAC	2	TSXT-243	24 VAC/VDC	3

**ACCESSORIES**  
See page reference ❶ below.

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❶ Digital Temperature Switch Probes and Accessories: See page 144 (Series TS-Probes)