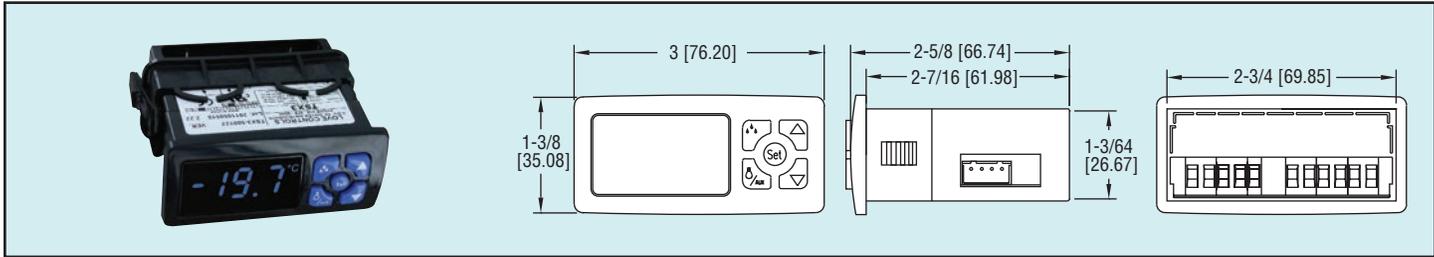




Series
TSX3

Digital Refrigeration Temperature Switch

Intelligent Defrost, HACCP Alarm Logging



The Series TSX3 Digital Temperature Switch was designed to control the compressor, fan, and defrost in refrigeration applications. This generation of controls has field-selectable engineering units and temperature probe types in order to reduce the combination of parts that need to be stocked. A built-in real time clock is used for HACCP logging of temperature alarms caused by temperatures out of their set limits or loss of power. The Intelligent Defrost parameters manage the defrost cycle in order to save energy cost. The digital input can be used to remotely trigger a defrost cycle, monitor cooler door status, or act as an external alarm. For programming multiple units, the model TS2-K configuration key can be used to quickly download parameter settings.

ACCESSORIES

See page reference [1](#) below.

Model	Supply Power	# of Outputs	Display Color
TSX3-520122	115 VAC	2	Blue
TSX3-520222	230 VAC	2	Blue
TSX3-520322	12 VAC/VDC	2	Blue
TSX3-520422	24 VAC/VDC	2	Blue
TSX3-520132	115 VAC	3	Blue
TSX3-520232	230 VAC	3	Blue
TSX3-520332	12 VAC/VDC	3	Blue
TSX3-520432	24 VAC/VDC	3	Blue

SPECIFICATIONS

Probe Range:

PTC: -58 to 302°F (-50 to 150°C);

NTC: -58 to 230°F (-50 to 110°C).

Input: PTC (1000Ω @ 25°C); NTC (10KΩ @ 25°C); Digital input contact.

Output: All models SPST NO relay resistive load 16A, inductive load 5A, 10 FLA, 60 LRA @ 240 VAC; dual output models also include 8A resistive, 3A inductive SPDT @ 240 VAC; three output models also include 8A resistive SPST NO @ 240 VAC, 5A resistive SPST NO @ 240 VAC.

Horsepower Rating: 1HP @ 240 VAC.

Control Type: On/off.

Power Requirement: 115 VAC, 230 VAC, 12 VAC/VDC, 24 VAC/DC (±10%) depending on model.

Power Consumption: 3.6VA (115/230/24 V), 1.5VA (12V).

Accuracy: ±1% FS.

Display: 3 digits plus sign.

Resolution: 0.1°.

Memory Backup: Non-volatile memory.

Ambient Temperature: 32 to 131°F (0 to 55°C).

Weight: 2.3 oz (65 g).

Front Panel Rating: IP65 (NEMA 4X).

Agency Approvals: CE, cUR, UR.

TEMPERATURE

Temperature Switches,
Digital

①Digital Temperature Switch Probes and Accessories: See page 258 (Series TS-Probes)