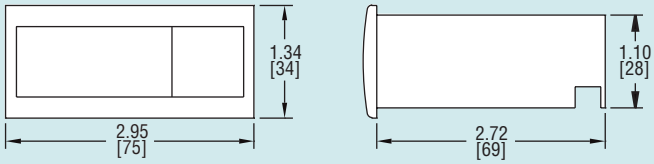
Series TSR

Digital Temperature Switch

Cooling Regulation, Dual Probe, Dual Relay, Alarm





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

Temperature

The Series TSR Temperature Switch is designed for cooling regulation in refrigeration units. Control compressor operation and electric defrost or hot gas bypass. Dual probe input permits defrost termination by temperature.

Program 44 different parameters including set point, defrosting cycles, hysteresis, compressor stoppage time, alarms, and digital input. The digital input allows specialized control for door open/door closed conditions. Access to all parameters, except for the set point, are password protected.

View temperature, error messaging, and alarms on the bright red display. Relay and defrost status are indicated on the front panel. The Series TSR includes two probes, gasket, mounting clips, clip on terminal cover, and instruction manual.

ACCESSORIES

TS-5-Probe PVC, 5 ft (1.5 m) cable
TS-51-Probe PVC, 10 ft (3 m) cable
TS-6-Probe metal, 5 ft (1.5 m) cable
TS-61-Probe metal, 10 ft (3 m) cable

SPECIFICATIONS

Probe Range: -58 to 302°F (-50 to 150°C).

Input: Two 1.5 in (4 cm) thermistor (1000K @ 25°C) with 5 ft (1.5 m) cable.

Output: One 8 amp SPST relay and one SPDT relay @ 250 VAC, resistive; alarm 20 mA @ 12 VDC.

Horsepower Rating (HP): 1/3 HP for 8 amp.

Control Type: On/Off.

Power Requirements: 8-15 VAC/DC.

Accuracy: ±0.5% of probe ranges.

Display: 3-Digit, red, 1/2″ digits.

Resolution: 1°.

Memory Backup: Nonvolatile memory.

Ambient Operating Temperature: 32 to 158°F (0 to 70°C).

Storage Temperature: -4 to 176°F (-20 to 80°C).

Weight: 6.2 oz (65 g).

Front Panel Protection: NEMA 4X (IP65).

Agency Approvals: CE, UR, URc.

MODELS

Model Number	Description
TSR-0110	Dual Probe Input, Dual Relay Output and Alarm (12V, °F).
TSR-1110	Dual Probe Input, Dual Relay Output and Alarm (12V, °C).