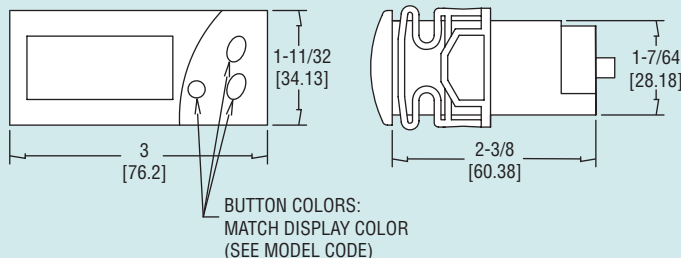




Digital Temperature Switch

Easy Multi-Unit Programming, 16A SPDT Relay Output



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

Temperature

Monitor and control temperature for heating and cooling applications with the Series TS2 Digital Temperature Switch. The Series TS2 offers twelve programmable functions to customize the unit to fit application requirements. Use the 16 (5) Amp SPDT relay output to drive a motor, compressor, or fan. Designed with the OEM in mind, the TS2 offers the ability to configure multiple units with the touch of a button.

Programming multiple units is quick and easy. Simply program one switch with the desired parameter settings and connect the configuration key (sold separately) to the back of the unit. Press the button on the configuration key and download the parameter settings. Connect the key to the other switches to upload the stored settings with the push of a button.

The TS2 features set point adjustments, static defrost timing, compressor mean time, hysteresis, and ambient probe adjustment. Security protection is offered using a password code. The Series TS2 Digital Temperature Switches are designed to operate with PTC (1000Ω @ 25°C) probes sold separately.

Model Number	Voltage Supply	Display
TS2-010	110 VAC	°F
TS2-011	110 VAC	°C
TS2-020	230 VAC	°F
TS2-021	230 VAC	°C
TS2-030	12 VAC/VDC	°F
TS2-031	12 VAC/VDC	°C
TS2-040	24 VAC/VDC	°F
TS2-041	24 VAC/VDC	°C

SPECIFICATIONS

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

Input: PTC thermistor 1000Ω @ 25°C.

Output: 16A SPDT relay @ 250 VAC resistive, 5A inductive.

Horsepower Rating (HP): 3/4 HP.

Control Type: ON/OFF.

Power Requirements: 110 VAC, 230 VAC, 12 VAC/VDC or 24 VAC/VDC.

Accuracy: ±1% F.S.

Display: 3-Digit, red, 1/2" digits.

Resolution: 1°.

Memory Backup: Nonvolatile memory.

Ambient Operating Temperature: 14 to 131°F (-10 to 55°C).

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

Weight: 2.3 oz (65 g).

Front Panel Rating: IP64.

Agency Approvals: CE, URc, UR.

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

TS2-K, Configuration Key

PARAMETERS

	Description	Units	Range
SP	Set point	Degrees	r1 to r2
r0	Differential or hysteresis	Degrees	1 to 20
r1	Lower Value Set Point	Degrees	-50 to 150°C (-50 to 302°F)
r2	Higher Value Set Point	Degrees	-50 to 150°C (-50 to 302°F)
d0	Heating or Cooling Control	Option	Ht/Co
d2	Time for Defrosting	Minutes	0 to 59 min.
d8	Interval Time between Defrosting	Hours	1 to 24 hr.
c0	Minimum Stop Time for Compressor	Minutes	0 to 59 min.
c1	Continuous Cycle Time	Hours	0 to 24 hr.
P1	Ambient Probe Adjustment	Degrees	-10 to 10°
H5	Parameter Access code	Numeric	0 to 99
t0	Maximum Temperature on Display	Degrees	-50 to 150°C (-50 to 302°F)