The Series 40 Digital Temperature Switch accepts a variety of inputs to allow temperature measurements and set points up to 1999°F (1300°C). Observing the current status of the control is made easier with the 3-1/2 digit, multi-color LED display that has alarm, defrost and output symbols. For added versatility, the temperature units can be field selected for °F or °C. For cooling applications, manual defrost mode can be initiated by pushing a single button. A flashing alarm informs users when the current temperature exceeds preset limits. When programming multiple units, a programming key is available to reduce set up time.

### SPECIFICATIONS

**Probe Range:**
- K TC: -140 to 1999°F (-100 to 1300°C);
- J TC: -140 to 1450°F (-100 to 800°C);
- RTD: -320 to 1200°F (-200 to 650°C);
- PTC: -58 to 300°F (-50 to 150°C);
- NTC: -40 to 230°F (-40 to 110°C);
- N. RTD: -110 to 570°F (-80 to 300°C).

**Output:** 16A @ 250 VAC SPDT relay (max current allowed is 10A).

**Control Type:** On/off.

**Power Requirements:** 12 to 24 VAC/VDC, 115 VAC or 230 VAC depending on model.

**Accuracy:** ±1% FS.

**Display:** 3-1/2 digit red display.

**Resolution:** 0.1°C.

**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.

**Agency Approvals:** CE, cUL, UL.

### ACCESSORIES

- 40X-K, Configuration key
- TCS-J, J type thermocouple, 4” probe, 48” extension
- TCS-K, K type thermocouple, 4” probe, 48” extension
- TS-1, Brass PTC Thermistor Probe
- TS-2, Stainless Steel PTC Thermistor Probe
- TS-5, PVC PTC Thermistor Probe
- TS-6, Polyamide Resin Coated Brass PTC Thermistor Probe
- TS-7, Bead Type NPT Thermistor Probe

### Series TCS Thermocouple Temperature Switch

**Monitor and control temperature** in heating and cooling applications with the Series TCS Thermocouple Switch. The Series TCS offers a wide temperature range, two selectable alarm sets, and an internal buzzer indicating alarm condition or error. The user can define set point, heating/cooling regulation, cycle time, alarm configuration, load status, and ambient probe adjustment. The thermocouple switch features password protection and error/alarm messaging. Temperature and output status is indicated on the bright red LED display. Use the configuration key (sold separately) to quickly program multiple units. The Series TCS includes a fitting clip for panel mounting, gasket, rear terminal cover and instruction manual.

### SPECIFICATIONS

**Probe Range:**
- K TC: -140 to 1999°F (-100 to 1300°C);
- J TC: -140 to 1450°F (-100 to 800°C);
- RTD: -320 to 1200°F (-200 to 650°C);
- PTC: -8 to 999°F (-50 to 999°C);
- NTC: -40 to 230°F (-40 to 110°C);
- N. RTD: -110 to 570°F (-80 to 300°C),
- Output: 16A @ 250 VAC SPDT relay (max current allowed is 10A).

**Temperature Limits:** Ambient: 32 to 131°F (0 to 55°C); Storage: -20 to 70°C.

**Weight:** 2.3 oz (65 g).

**Agency Approvals:** CE, cUL, UL.

### PANEL CUTOUT

2-5/16” x 1-9/16” (71 x 29 mm)

### ACCESSORIES

- TCS-J, J Type Thermocouple, 4” probe, 48” extension
- TCS-K, K Type Thermocouple, 4” probe, 48” extension
- TS2-K, Configuration Key