The Series TS3 Digital Temperature Switch is the ideal control for on/off heating or cooling 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 outside of their set limits or loss of power. For refrigeration applications, the defrost cycle can be initiated based on time or using the front panel keys. For programming multiple units, the model TS2-K configuration key can be used to quickly download parameter settings.

**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)
- **Output:** R1 SPDT relay resistive load 16A, inductive load 10 FLA, 60 LRA @ 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
- **Agency Approvals:** CE, UL

### ACCESSORIES

See page 280.

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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 outside 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 TSX2-K configuration key can be used to quickly download parameter settings.

**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)
- **Output:** R1 SPDT 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
- **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
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### ACCESSORIES

See page 280.