

### Power Input

**Standard:** 90-264 VAC, 47-63 Hz, 5VA, 5W maximum  
**Optional:** 20-32 VAC/VDC, 5VA, 5W maximum

### Signal Input

**Accuracy:**  $\pm 0.24\%$  of span typical  
**Cold Junction Compensation:** 0.1°C /°C ambient typical  
**Sensor Break Detection:** Protection mode configurable  
**External Resistance:** 100 ohms maximum  
**Normal Mode Rejection:** 60 dB  
**Common Mode Rejection:** 120 dB  
**Sampling Rate:** 5 samples / second

### Output 1

**Relay Rating:** 240 VAC, 3 Amp  
**Pulsed Voltage:** Source voltage 20V (20 mA max)  
**Current:** 4 - 20 mA, at 500Ω max  
**Current:** 0 - 20 mA, at 500Ω max  
**Voltage:** 0 - 10 VDC, at 10 KΩ min  
**Solid State Relay (Triac) Output**  
**Rating:** 1A / 240 VAC  
**Inrush Current:** 20A for 1 cycle  
**Min. Load Current:** 50 mA rms  
**Dielectric Strength:** 2500 VAC for 1 minute

### Approval Standards

**Safety:** UL873, IEC1010-1  
**EMC Emission:** EN50081-1  
**EMC Immunity:** EN50082-1  
**Protective Class:** Front Panel: IP30  
 Housing and Terminals: IP 20

### Alarm – Programmable

**Alarm Relay:** Form A, (NO)  
**Maximum rating:** 240 VAC, 3 Amp  
**Alarm Functions:** Dwell timer  
 Deviation High or Low Alarm  
 Deviation Band High or Low Alarm  
 Process High Alarm  
 Sensor Break Alarm  
**Dwell Timer:** 0 - 6553.5 minutes

### User Interface

**Dual 4-digit LED Display:** 0.40" (10 mm) Red Process Display  
 0.31" (8 mm) Green Setpoint Display  
**Keypad:** 4 keys

### Control Mode

**Output 1:** Reverse (heating) or direct (cooling) action  
**On-Off:** 0 - 20% of span hysteresis control (P band = 0)  
**P or PD:** 0 - 100.0% offset adjustment  
**PID:** Fuzzy logic modified  
**Proportional band:** 0.1 - 360°F (0 - 200°C)  
**Integral time:** 0 - 3600 seconds  
**Derivative time:** 0 - 1000 seconds  
**Cycle Time:** 0 - 120 seconds  
**Auto-tuning:** Cold start and warm start  
**Ramping Control:** 0 - 360°F/min (200°C/min)

### Environmental and Physical

**Operating Temperature:** 14 to 122°F (-10 to 50°C)  
**Humidity:** 0 to 90% RH, non-condensing  
**Dielectric Strength:** 2000 VAC, 50/60 Hz for 1 minute  
**Dimensions:** 1-7/8 × 1-7/8 × 3-3/4" (48 × 48 × 94 mm) H×W×D  
 Depth behind panel: 3-3/8" (86 mm)  
**Panel Cutout:** 1-25/32 × 1-25/32" (45 × 45 mm) H×W  
**Weight:** 0.37 lb. (170 grams)

### Stock and Common Part Numbers (Power Input: 90-264 VAC)

| Part Number | Signal Input | Out 1    | Alarm |
|-------------|--------------|----------|-------|
| TEC11002    | TC           | relay    | relay |
| TEC11001    | TC           | relay    | none  |
| TEC11007    | TC           | 4-20 mA  | none  |
| TEC11003    | TC           | DC pulse | none  |
| TEC11009    | RTD          | relay    | none  |
| TEC11010    | RTD          | DC pulse | none  |

### Rear Terminal Connections

