

Power Input

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

Signal Input

Accuracy: ±.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, CSA22.2/142-87, 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

