TEMPERATURE CONTROLS

MODEL CODE
BTC-2220

SPECIFICATIONS - BTC-2220

1. INPUT
Thermocouple: J, K, T, E, B, R, S, N
RTD: Pt100 ohms RTD (DIN or JIS)
Linear Current: 0-20 or 4-20mA DC
Linear Voltage: 0-1, 0-5, 0-10, 1-5 V DC
Range: User configurable
Accuracy: +/2°C for T/C, +0.4°C for RTD, +0.05% for Linear input.
Input Impedance (V): 100K ohms for Linear Voltage
Excitation Current for RTD: 0.2mA Max.
Sample Rate: 200mS

2. CONTROL
Proportional Band: 0.0-200.0°C or 0.0-360.0°F
Rest (Integral): 0-3600 Sec.
Rate (Derivative): 0-1000 Sec.
Ramp Rate: 0.0-55.0°C or 0.0-99.0°F / minute.
Dwell: 0-9999 minutes.
On-Off: With adjustable hysteresis
Cycle Time: 0-99 seconds.
Control Action: Configurable for Direct (cooling) or Reverse (Heating)

3. OUTPUT
Relay: 5A/240VAC resistive.
Pulsed Voltage: 24 VDC 100mA Max.
Current: Isolated 0 (4) - 20 mA Max load 500 ohms.
Alarm: Relay output, (SPST) 5A/240VAC resistive.

4. POWER
Rating: 85 - 265 VAC 50/60Hz 5VA max
20 - 32V AC/DC (OPTION)

5. ENVIRONMENTAL
Operating Temp: -10 - 50°C
Humidity: 0 - 90%
Insulation: 20M ohms minimum @ 500VDC

6. PHYSICAL DIMENSIONS
BTC-2220: 48mm W x 24mm H x 99mm D

STANDARD
FUZZY LOGIC with PID AUTOTUNE
RAMP-to-SETPOINT
SOAK TIMER
AUTO/MANUAL
SECURITY LOCKOUT
UNIVERSAL INPUT - T/C, RTD, mA, V
NEMA 4X - WATERPROOF
POWER SUPPLY - 90-260VAC
UL, CSA, CE APPROVALS

OPTIONS
ALARMS - 13 TYPES
RS 485 COMMUNICATION
POWER SUPPLY - 20-32VAC/DC

COMPACT 1/32DIN
24mm High x
48mm Wide x
99mm Deep