

**ADVANCED PROCESS CONTROL
HEATER BREAK ALARM
2nd SETPOINT**



STANDARD

- FUZZY LOGIC with PID AUTOTUNE
- RAMP-to-SETPOINT
- SOAK TIMER
- AUTO/MANUAL
- SECURITY LOCKOUT-DIP SWITCH
- UNIVERSAL INPUT - T/C, RTD, mA, V
- HEATER BREAK ALARM
- EVENT INPUT - 2nd SETPOINT
- NEMA 4X - WATERPROOF
- POWER SUPPLY - 90-260VAC
- UL, CSA, CE APPROVALS

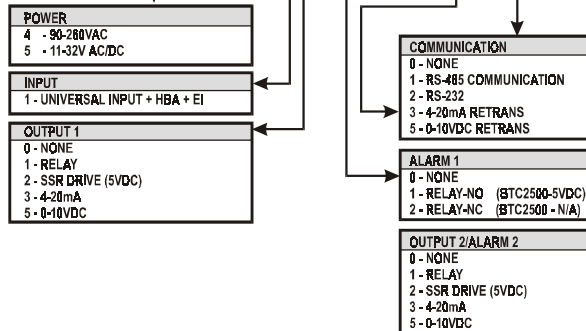
OPTIONS

- ALARM 2
- RS485 / RS232 COMMUNICATION
- RETRANSMISSION - 4-20mA, 0-10VDC
- POWER SUPPLY - 11-28VAC/DC

MODEL CODE

BTC-2500

-9300



SPECIFICATIONS - BTC2500, 9300

1. INPUT

Thermocouple J, K, T, E, B, R, S, N (IPTS68/DIN 43710)
 RTD Pt100 ohms RTD (DIN 43760/BS 1904 or JIS)
 Linear Voltage (current) -10 to 60 mV configurable with input attenuation
 Range User configurable
 Accuracy +/-2C for T/C, _+0.2C for RTD, _+0.05% for Linear input.
 Cold Junction Comp 0.1C/C ambient typical.
 Input Impedance 10M ohms for T/C, 100K ohms for Linear Voltage, 2.7 Ohms for 0 (4)- 20 mA/
 100mS

2. CONTROL

Proportional Band 0.0-500.0C (0.0-900.0F)
 Rest (Integral) 0-3600 Sec.
 Rate (Derivative) 0-900 Sec.
 Ramp Rate 0.0-500.0C (0.0-900.0F)
 Dwell 0-6550minutes.
 On-Off With adjustable hysteresis
 Cycle Time 0-100.0 seconds.
 Control Action Configurable for Direct (cooling) or Rev (Heating)

3. OUTPUT

Relay 5A/240VAC resistive.
 Pulsed Voltage Isolated 5 VDC 30mA Max.
 Current Isolated 0 (4) - 20 mA Max load 500 ohms.
 Linear Volts 1-5, 0-5, 0-10VDC. MAX 100mA
 Alarm Relay output, (SPST) 2A/240VAC resistive.

4. POWER

Rating 85 - 265 VAC 50/60Hz 5VA max

5. ENVIRONMENTAL

Operating Temp 0 - 50C
 Humidity 0- 90%
 Insulation 20M ohms minimum @ 500VDC
 Protect Nema 4X

6. PHYSICAL DIMENSIONS

BTC2500 48mmW x 24mmH x 100mmD
 BTC9300 48mmW x 48mmH x 80mmD

ADVANCED PROCESS CONTROL

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STANDARD

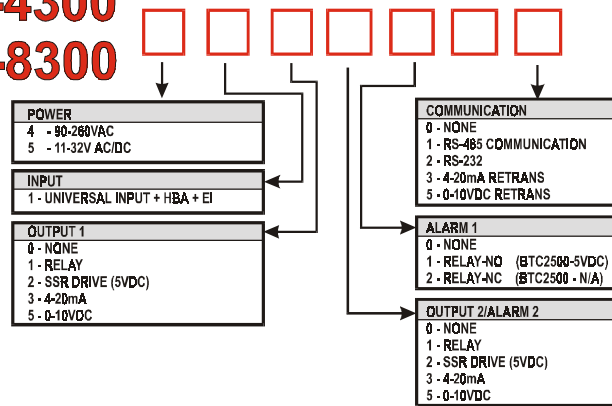
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- UL, CSA, CE APPROVALS

OPTIONS

- ALARM 2
- RS485 / RS232 COMMUNICATION
- RETRANSMISSION - 4-20mA, 0-10VDC
- POWER SUPPLY - 11-28VAC/DC

MODEL CODE

**BTC-4300
-8300**



SPECIFICATIONS - BTC4300, 8300

1. INPUT

Thermocouple J, K, T, E, B, R, S, N (IPTS68/DIN 43710)
 RTD Pt100 ohms RTD (DIN 43760/BS 1904 or JIS)
 Linear Voltage (current) -10 to 60 mV configurable with input attenuation
 Range User configurable
 Accuracy +/-2C for T/C, _+0.2C for RTD, _+0.05% for Linear input.
 Cold Junction Comp 0.1C/C ambient typical.
 Input Impedance 10M ohms for T/C, 100K ohms for Linear Voltage, 2.7 Ohms for 0 (4)- 20 mA/
 100mS

2. CONTROL

Proportional Band 0.0-500.0C (0.0-900.0F)
 Rest (Integral) 0-3600 Sec.
 Rate (Derivative) 0-900 Sec.
 Ramp Rate 0.0-500.0C (0.0-900.0F)
 Dwell 0-6550minutes.
 On-Off With adjustable hysteresis
 Cycle Time 0-100.0 seconds.
 Control Action Configurable for Direct (cooling) or Rev (Heating)

3. OUTPUT

Relay 5A/240VAC resistive.
 Pulsed Voltage Isolated 5 VDC 30mA Max.
 Current Isolated 0 (4) - 20 mA Max load 500 ohms.
 Linear Volts 1-5, 0-5, 0-10VDC. MAX 100mA
 Alarm Relay output, (SPST) 2A/240VAC resistive.

4. POWER

Rating 85 - 265 VAC 50/60Hz 5VA max

5. ENVIRONMENTAL

Operating Temp 0 - 50C
 Humidity 0- 90%
 Insulation 20M ohms minimum @ 500VDC
 Protect Nema 4X

6. PHYSICAL DIMENSIONS

BTC8300 48mmW x 96mmH x 80mmD
 BTC4300 96mmW x 96mmH x 65mmD