Temperature Controllers

Model **TEC-8400 & -8450** 1/8 DIN

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Model TEC-8400 & Model TEC-8450 1/8 DIN Temperature Controllers

Agency Approvals:

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* *RoHS*
* *REACH*
* *WEEE*

File #:
E244198

Design Features

* *1/8 DIN size – 48 mm × 96 mm, horizontal: 96 mm × 48 mm*
* *Fuzzy Logic PID Autotune heat and cool control*
* *Universal input, field configurable (Type J T/C default, PT100, mA, V) with high accuracy 18-bit D-A*
* *Countdown display*
* *RS - 485 and Analog Retransmission Available*
* *Micro USB Programming Port*
* *Fast sampling rate (200 msec)*
* *Manual control & auto-tune function*
* *Wide range of alarm mode selection*
* *Lockout protection*
* *Bumpless transfer during failure mode*
* *Soft-start ramp & dwell timer*
* *Bright LCD display using NFPA/IEC standard colors*
* *High performance with low cost*

Hardware Code:

TEC-8400 - | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
TEC-8450 -

A Part Number based on the hardware code and any software pre-programming will be issued at time of order.

Power Input BOX 1

4 = 90-250 VAC
5 = 11-40 VDC / 20-28 VAC

Output 1 BOX 2

1 = Relay: 2A / 240 VAC
2 = Pulse DC for SSR drive: 5 VDC (30 mA max)
3 = Isolated, 4-20 mA (default), 0-20 mA
5 = Isolated VDC, 0-10 scalable
C = Pulse DC for SSR drive: 14 VDC (40 mA max)

Output 2 / Alarm 1 BOX 3

0 = None
1 = Relay: 2A / 240 VAC
2 = Pulse DC for SSR drive: 5 VDC (30 mA max)
3 = Isolated, 4-20 mA (default), 0-20 mA
5 = Isolated, VDC, 0-10 scalable
C = Pulse DC for SSR drive: 14 VDC (40 mA max)

Alarm 2 and 3 BOX 4

0 = None
1 = Alarm 2: Relay: 2A / 240 VAC
2 = Alarm 2 & 3: Relays: 2A / 240 VAC

Event Inputs BOX 5

0 = None
1 = 6 Event Inputs

Option 1 BOX 6

0 = None
1 = RS-485 Interface & Remote Setpoint

Option 2 BOX 7

0 = None
1 = 1 CT Input & Remote Setpoint
2 = 2 CT Inputs & Remote Setpoint

Option 3 BOX 8

0 = None
1 = Retransmit: 4-20 mA / 0-20 mA & Remote Setpoint
2 = Retransmit: 0-10 VDC & Remote Setpoint
3 = Alarm 4 Relay: 2A / 240 VAC & Remote Setpoint
4 = Alarm 4 Relay: 2A / 240 VAC, Retransmit: 4-20 mA / 0-20 mA & Remote Setpoint
5 = Alarm 4 Relay: 2A / 240 VAC, Retransmit: 0-10 VDC & Remote Setpoint

Option 4 BOX 9

0 = None
1 = Terminal Covers
2 = 2 Programs each with 8 Segments of Ramp & Soak
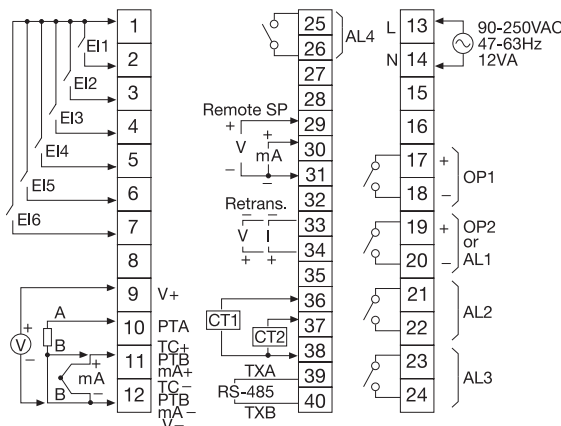**3** = Terminal Covers and Ramp & Soak Firmware

Transformer for Heater Break Alarm
(0-50 Amp current)
Part Number: TEC99998
Specifications on page 13-47

⚠ Note: Detailed information on features common to digital microprocessor-based TEC temperature controls and the complete Table of Input Range and Accuracy can be found on page 13-46.

TEC-8400 Rear Terminal Connections

TEC-8450 Rear Terminal Connections

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