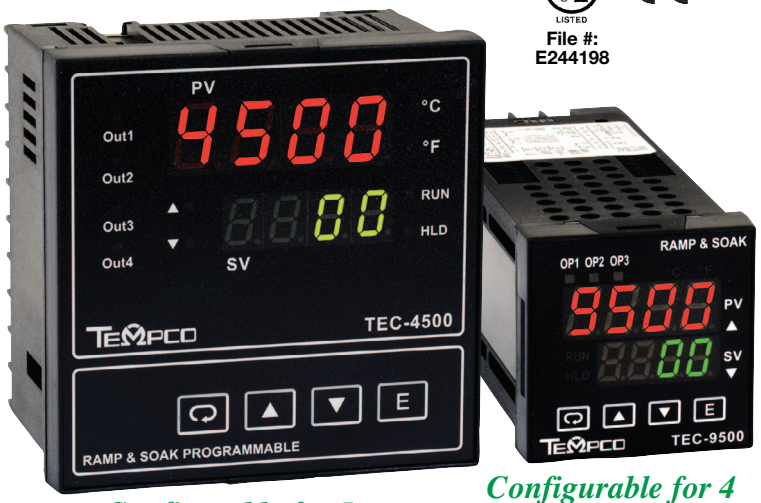
Model TEC-4500 1/4 DIN & Model TEC-9500 1/16 DIN Ramp & Soak Temperature Controls

Agency Approvals: UL LISTED File #: E244198 CE



Configurable for 5 Programmable Outputs

Configurable for 4 Programmable Outputs

Design Features

- *Ramp & Soak Programmable Control*
- *Nine recipes (profiles) available using 64 segments maximum per recipe*
- *Event Input – one of 8 functions can be chosen: start run mode, hold mode, abort recipe, manual mode, failure transfer, turn off, segment advance, select 2nd set of PID parameters*
- *Event Output – 3 relays are available. Can be programmed to any segment or end of recipe*
- *Analog Retransmission – optional mA or VDC transfer of PV or SV values*
- *Highly accurate universal input with 18 bit analog to digital converter*
- *Bright 0.40" (10mm) red LED process display*
- *Fast sample rate – 200ms*
- *Fuzzy Logic PID Autotune heat and cool control – 2 sets of values can be used*
- *Optional RS-485 or RS-232 communications interface*
- *Programming port available for PC connection allowing quick set-up*
- *Lockout protection guards against unauthorized setting changes*
- *Bumpless transfer allows continued temperature control if sensor fails*
- *Universal input, field configurable (Type J T/C default, PT100, mA, V) with high accuracy 18-bit D-A*
- *Short panel depth required*

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.**

Hardware Code: TEC-4500-

1	2	3	4	5	6	7	8

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1	2	3	4	5	6	7	8
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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, 50-60 Hz
5 = 11-26 VAC / VDC

Signal Input — Universal, can be programmed in the field *BOX 2*

1 = Universal input (factory default = TC type J)
Thermocouple: J, K, T, E, B, R, S, N, L, C, P
RTD: PT100 DIN, PT100 JIS (0 to 60mV)
5 = Voltage: 0-10V, 0-5V, 1-5V, 0-1V
6 = DC Current: 0-20 mA (default), 4-20 mA
9 = Other

Output 1 *BOX 3*

1 = Relay: 2A / 240 VAC
2 = Pulse DC for SSR drive: 5 VDC (30 mA max)
3 = Isolated 4-20mA / 0-20 mA
4 = Isolated 1-5V / 0-5V/0-10VDC
6 = Triac-SSR output 1A / 240 VAC
C = Pulse DC for SSR drive: 14 VDC (40 mA max)
9 = Other

Output 2 *BOX 4*

0 = None
1 = Relay: 2A / 240 VAC
2 = Pulse DC for SSR drive — 5 VDC (30 mA max)
3 = Isolated 4-20mA / 0-20 mA
4 = Isolated 1-5V / 0-5V/0-10V
6 = Triac-SSR output 1A / 240 VAC
7 = Isolated 20V @ 25 mA DC, Output Power Supply
8 = Isolated 12V @ 40 mA DC, Output Power Supply
A = Isolated 5V @ 80 mA DC, Output Power Supply
C = Pulsed voltage to drive SSR, 14V/40mA
9 = Other

Output 3 *BOX 5*

0 = None
1 = Relay: 2A / 240 VAC
2 = Pulse DC for SSR drive — 5 VDC (30 mA max)
6 = Triac-SSR output 1A / 240 VAC
7 = Isolated 20V @ 25 mA DC, Output Power Supply
8 = Isolated 12V @ 40 mA DC, Output Power Supply
A = Isolated 5V @ 80 mA DC, Output Power Supply
C = Pulsed voltage to drive SSR, 14V/40mA
9 = Other

Output 4 *BOX 6 (TEC-4500 only)*

0 = None
1 = Relay: 2A / 240 VAC
2 = Pulse DC for SSR drive — 5 VDC (30 mA max)
3 = Retransmission 4-20mA (default), 0-20 mA
4 = Retransmission 1-5 VDC (default)/ 0-5VDC, 0-10 VDC
6 = Triac-SSR output 1A / 240 VAC
7 = Isolated 20V @ 25 mA DC, Output Power Supply
8 = Isolated 12V @ 40 mA DC, Output Power Supply
A = Isolated 5V @ 80 mA DC, Output Power Supply
C = Pulsed voltage to drive SSR, 14V/40mA
9 = Other

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