Model TEC-9090 1/16 DIN Temperature Controllers

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Design Features
✴ 1/16 DIN size – 48 mm x 48 mm
✴ Fuzzy Logic PID Autotune heat & cool control
✴ Short panel depth – only 3-7/8" (86 mm) required
✴ Universal input, field configurable (Type J T/C default, PT100, mA, V) with high accuracy 18-bit D-A
✴ Highly versatile – 6 types of inputs available
✴ Optional relay alarm output
✴ Universal input power 90-264 VAC, 20-32 VAC/VDC or 10-18 VDC
✴ Wide variety of alarm mode selections
✴ Bright 0.40" (10 mm) red LED process display
✴ High performance at a low price

Hardware Code: TEC-9090-
A Part Number based on the hardware code and any software pre-programming will be issued at time of order.

Standard lead time is stock to 2 weeks.

Power Input BOX 1
1 = 90-264 VAC
2 = 20-32 VAC/VDC
3 = 10-18 VDC
4 = 90-264 VAC
5 = 20-32 VAC/VDC
6 = 10-18 VDC
9 = Other

Signal Input — (hardware jumper change between TC & RTD) BOX 2
1 = Thermocouple: Universal Configurable:
J, K, T, E, B, R, S, N (default: Type J)
2 = RTD: Universal Configurable: DIN or JIS
(default: alpha 0.00385/DIN)
3 = Field configurable (default – max per input type)
4 = Other
5 = Field Configurable (default – max per input type)
6 = Other
7 = Other
8 = Other
9 = Other

Range code BOX 3
1 = Field configurable (default – max per input type)
2 = Field Configurable
3 = Field Configurable
4 = Field Configurable
5 = Field Configurable
6 = Field Configurable
7 = Field Configurable
8 = Field Configurable
9 = Other

Control Mode BOX 4
1 = Relay: 3A / 240 V AC
2 = Pulse DC for SSR drive: 20 V DC (20 mA max)
3 = 4-20 mA, linear (max load 500Ω)
4 = 0-20 mA, linear (max load 500Ω)
5 = 0-10 VDC, linear (min. impedance 10 KΩ)
6 = Triac-SSR output 1A / 240 V AC
7 = Other
8 = Other
9 = Other

Output 1 BOX 5
1 = Relay: 3A / 240 V AC
2 = Pulse DC for SSR drive: 20 V DC (20 mA max)
3 = 4-20 mA, linear (max load 500Ω)
4 = 0-20 mA, linear (max load 500Ω)
5 = 0-10 VDC, linear (min. impedance 10 KΩ)
6 = Triac-SSR output 1A / 240 V AC
7 = Other
8 = Other
9 = Other

Output 2 BOX 6
0 = None
1 = Relay: 2A / 240 V AC, Field Configurable
2 = Other
3 = Other
4 = Other
5 = Other
6 = Other
7 = Other
8 = Other
9 = Other

Alarm BOX 7
0 = None
1 = Relay: 2A / 240 V AC, Field Configurable
9 = Other

Data Communications BOX 8
0 = None
1 = None
2 = None
3 = None
4 = None
5 = None
6 = None
7 = None
8 = None
9 = Other

Units — °F or °C BOX 9
1 = °F on faceplate
2 = °C on faceplate

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.

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