Model TBC-41 Board PID Temperature Control

Design Features
- Easy to use high performance at a low price
- Fuzzy Logic PID Autotune heat and cool control
- Fast A-D sampling rate (5 samples/second)
- Universal input, field configurable (Type J T/C default, PT100, mA, V) with high accuracy 18-bit D-A
- Analog output (linear current or voltage) uses high accuracy 15-bit D-A Converter
- Optional RS-232 or RS-485 communications interface
- Universal input power — 90-250 VAC 50/60HZ or 11-26 VAC/VDC
- Programming port provided on board
- Supports manual control & auto-tune functions
- Wide variety of alarm mode selections
- Lockout Protection
- Bumpless transfer
- Soft-start ramp and dwell timer
- Bright 0.55” (14 mm) red LED process display
- Available from Stock
- Agency Approvals:

Output 1  BOX 3
0 = None
1 = Relay: 2A / 240 VAC Form A
2 = Pulse DC for SSR drive: 5 VDC (30 mA max)
3 = Isolated 4-20 mA (default), 0-20 mA
4 = Isolated VDC, 1-5 (default), 0-5 mA
5 = Isolated VDC, 0-10
6 = Triac-SSR output 1A / 240 VAC
7 = Isolated 4-20 mA (default), 0-20 mA
8 = Isolated 24V @ 25 mA DC, Output Power Supply
9 = Isolated 12V @ 40 mA DC, Output Power Supply
C = Pulse DC for SSR drive: 14 VDC (40 mA max)

Output 2  BOX 4
0 = None
1 = Relay: 2A / 240 VAC Form A
2 = Pulse DC for SSR drive: 5 VDC (30 mA max)
3 = Isolated 4-20 mA (default), 0-20 mA
4 = Isolated VDC, 1-5 (default), 0-5 mA
5 = Isolated VDC, 0-10
6 = Triac-SSR output 1A / 240 VAC
7 = Isolated 24V @ 25 mA DC, Output Power Supply
8 = Isolated 12V @ 40 mA DC, Output Power Supply
9 = Isolated 5V @ 80 mA DC, Output Power Supply
C = Pulse DC for SSR drive: 14 VDC (40 mA max)

Alarm  BOX 5
0 = None
1 = Relay: 2A / 240 VAC, Form C

Communication  BOX 6
0 = None
1 = RS-485 Interface
2 = RS-232 Interface
3 = Retransmission 4-20 mA (default), 0-20 mA
4 = Retransmission 1-5 VDC (default), 0-5 VDC
5 = Retransmission 0-10 VDC

Display Board and Cable  BOX 7
0 = None
1 = With Display Board and 12” (300 mm) Cable (default)
2 = With Display Board and 18” (450 mm) Cable (default)
3 = With Display Board and 24” (600 mm) Cable (default)
Consult Tempco for other cable lengths.

Ordering Code:

13-42

View Product Inventory @ www.tempco.com

®®

Board Control Fuzzy Logic PID, Configurable for 4 Programmable Outputs!