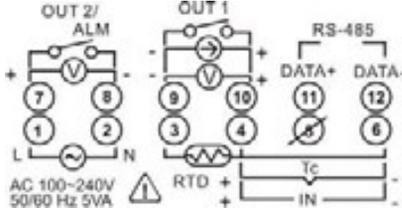




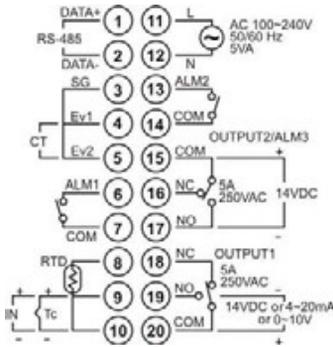
B/C Series Quick Start Guide

1. Connect wires to the corresponding terminals

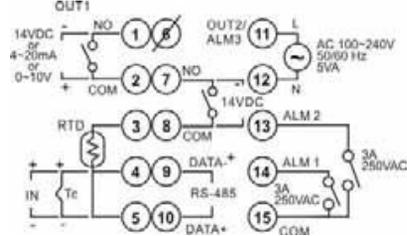
32 B Series



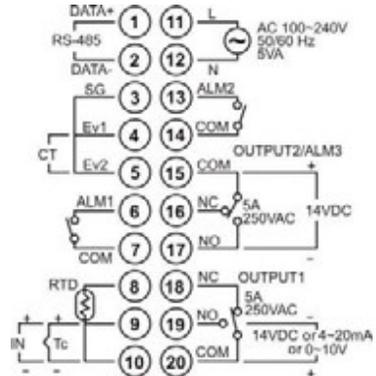
4B Series



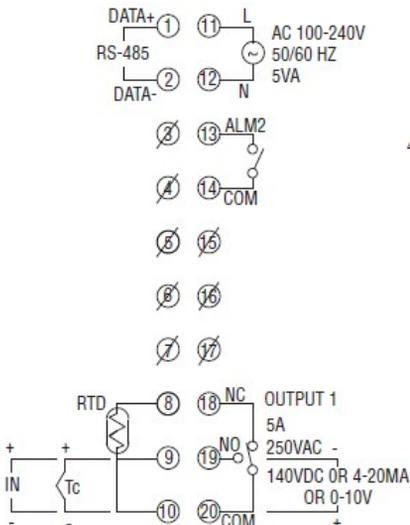
16 B Series



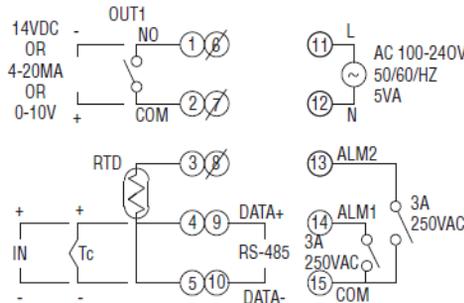
8B Series



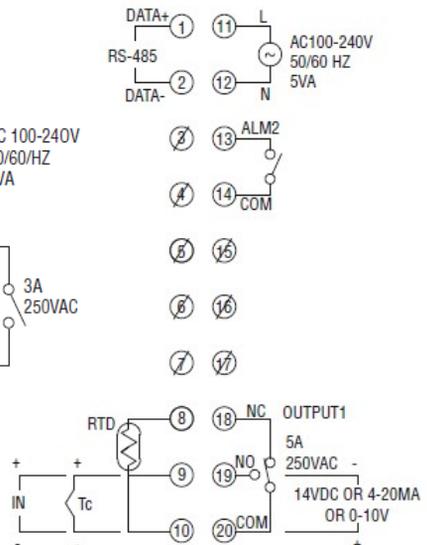
4C Series



16C Series



8C Series

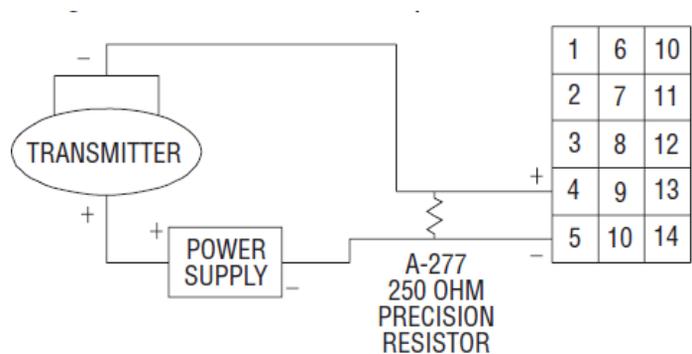




B/C Series Quick Start Guide

2. Wiring for 4-20 mA transmitter inputs.

Note: 16B terminal layout used in example. Use appropriate terminal layout for selected controller.



3. Basic Key Functions:

-  **INDEX:** Pressing the INDEX key advances the display to the next menu item.
-  **UP ARROW:** Increments a value or changes a menu item. If pressed during the Operation Mode, the set point value will be increased.
-  **DOWN ARROW:** Decrements a value or changes a menu item. If pressed during the **Operation Mode**, the set point value will be decreased.
-  **ENTER:** Stores the value or item change. If not pressed, the previously stored value or item will be retained. When pressed during the **Operation Mode**, the controller switches to the **Regulation Mode**. If held for more than 3 seconds during the **Operation Mode**, the controller switches to the **Initial Setting Mode**. If pressed during the **Regulation Mode** or **Initial Setting Mode**, the controller will return to the **Operation Mode**.



B/C Series Quick Start Guide

4. Verify wiring and then turn on power
5. The following is a quick solution to programming, for more information please refer to the manual:

Programming

6. Press the ENTER Key for at least 3 Seconds to enter initial settings menu while in Home display to enter Initial Settings Menu 
7. Advance through the menus by pressing the INDEX key you will advance through the menu items. 
8. The first menu item shown in the top display is InPt (Input Type) See Below For B series input type. See next page for C series input types
9. Using the UP/Down Keys Select your input type 

B Series Input Types

Input Temperature Sensor Type	LED Display	Temperature Range
Thermocouple TXK type	txk	-328 ~ 1472°F (-200 ~ 800°C)
Thermocouple U type	u	-328 ~ 932°F (-200 ~ 500°C)
Thermocouple L type	l	-328 ~ 1562°F (-200 ~ 850°C)
Thermocouple B type	b	-212 ~ 3272°F (-100 ~ 1800°C)
Thermocouple S type	s	-32 ~ 3092°F (0 ~ 1700°C)
Thermocouple R type	r	-32 ~ 3092°F (0 ~ 1700°C)
Thermocouple N type	n	-328 ~ 2372°F (-200 ~ 1300°C)
Thermocouple E type	e	-32 ~ 1112°F (0 ~ 600°C)
Thermocouple T type	t	-328 ~ 752°F (-200 ~ 400°C)
Thermocouple J type	j	-148 ~ 2192°F (-100 ~ 1200°C)
Thermocouple K type	k	-328 ~ 2372°F (-200 ~ 1300°C)
Platinum Resistance (Pt100)	pt	-328 ~ 1472°F (-200 ~ 800°C)
Platinum Resistance (JPt100)	jp	-4 ~ 752°F (-20 ~ 400°C)
0-50mV Analog Input	na	-999 ~ 9999
0V ~ 10V Analog Input	u10	-999 ~ 9999
0V ~ 5V Analog Input	u5	-999 ~ 9999
4 ~ 20mA Analog Input	na4	-999 ~ 9999
0-20mA Analog Input	na0	-999 ~ 9999



B/C Series Quick Start Guide

C Series Input Types

Input Temperature Sensor Type	LED Display	Temperature Range
Thermocouple TXK type	ttt	-328 ~ 1440°F (-200 ~ 800°C)
Thermocouple U type	U	-328 ~ 932°F (-200 ~ 500°C)
Thermocouple L type	L	-328 ~ 1562°F (-200 ~ 850°C)
Thermocouple B type	b	212 ~ 3272°F (100 ~ 1800°C)
Thermocouple S type	S	32 ~ 3092°F (0 ~ 1700°C)
Thermocouple R type	r	32 ~ 3092°F (0 ~ 1700°C)
Thermocouple N type	n	-328 ~ 2340°F (-200 ~ 1300°C)
Thermocouple E type	E	32 ~ 1112°F (0 ~ 600°C)
Thermocouple T type2	t2	-4 ~ 752°F (-20 ~ 400°C)
Thermocouple T type1	t1	-328 ~ 752°F (-200 ~ 400°C)
Thermocouple J type2	j2	-4 ~ 752°F (-20 ~ 400°C)
Thermocouple J type1	j1	-148 ~ 1562°F (-100 ~ 850°C)
Thermocouple K type2	k2	-4 ~ 932°F (-20 ~ 500°C)
Thermocouple K type1	k1	-328 ~ 2340°F (-200 ~ 1300°C)
Platinum Resistance (Pt100) type 3	Pt3	32 ~ 212°F (0 ~ 100°C)
Platinum Resistance (Pt100) type 2	Pt2	-4 ~ 932°F (-20 ~ 500°C)
Platinum Resistance (Pt100) type 1	Pt1	-328 ~ 1112°F (-200 ~ 600°C)
Platinum Resistance (JPt100) type 2	JPt2	32 ~ 212°F (0 ~ 100°C)
Platinum Resistance (JPt100) type 1	JPt1	-4 ~ 752°F (-20 ~ 400°C)

10. Press ENTER to save setting 
11. If Inpt is an analog input enter these parameters, if not skip to Ctrl 
 - tP-L - Scale Low (0 VDC or 4mA)
 - tP-H – Scale High (10 VDC or 20mA)
12. At CtrlL, select the method of control operation using UP/DOWN. 
 - PID – Auto-Tune to set point value
 - ON/OFF – Simple High and Low point control
13. Press ENTER to save your setting 
14. Press INDEX to S-HC parameter 
15. Select type of control using UP/DOWN 
 - HEAt – Output 1 will Heat
 - Cool – Output 1 will cool



B/C Series Quick Start Guide

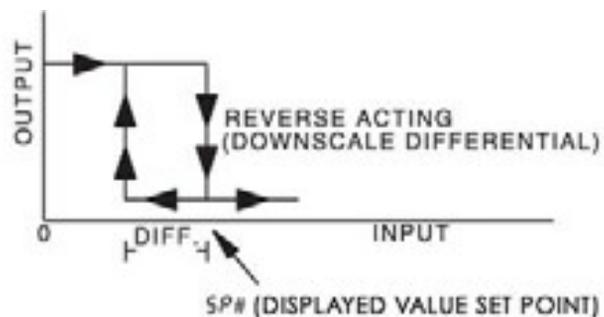
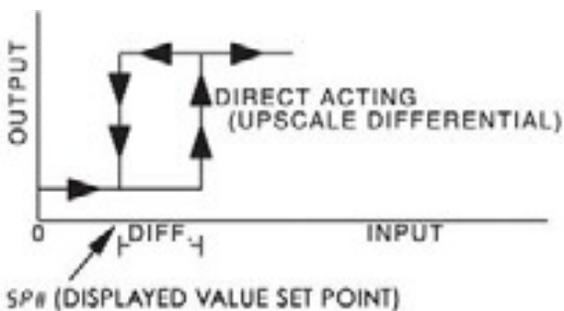
16. Press ENTER to Save your setting 
17. Press ENTER for the Operation Menu 
18. Press UP/DOWN to change Set point value to your desired setting 

19. Press ENTER to save your setting 
20. Press ENTER for the Regulation Menu 
21. If you selected PID on step 13 proceed, otherwise skip to step 30
22. The first parameter is AT, Select ON using UP/DOWN 

23. Press ENTER to save your Setting 
24. Press ENTER the Operation Menu 
25. Press INDEX to parameter r-S 
26. Press UP/DOWN to change to run 

27. Press ENTER to save your setting 
28. Press ENTER to return to your set point 
29. END - controller will now program itself. Unit will be complete when the AT light stops flashing
30. Proceed through Regulation Menu until you reach either: 
 - HtS – Heat control Hysteresis
 - CtS – Cool Control Hysteresis

31. Change Value to desired Hysteresis using UP/DOWN (Allowable difference of temperature around set point) See Below:  



32. Press ENTER to save your setting 

33. Press ENTER to return to Operation Menu. 

34. End-The unit is programmed.