Data Sheet

CALIBRATION PROCEDURES S20-D3C MODULE 2014

Items Required:

1. Box with 240vac Single Phase Power Supply w/ "G" series connector for module to plug into.
   WARNING–do not have a load hooked up as the load will create extra heat and give a false reading to the compensator.
2. Calibrated Thermocouple Simulator
3. Small screwdriver, Flat Head, to flip Dip Switch

Procedure to Calibrate S20-D3C Module:

1. Find Dip Switch on Module which needs to be calibrated. It is red with (5) little white switches, located at the top middle of the board.
2. Move the switches so that they are in the following positions.
   a. Switch #1: Up or ON Position.
   b. Switch #2: Down or OFF Position
   c. Switch #3: Down or OFF Position
   d. Switch #4: Down or OFF Position
   e. Switch #5: Down or OFF Position
3. Insert module into box taking care that the module's power rocker switch is in the "OFF" position
4. Turn the Thermocouple Simulator to "K-Type" and set to 200° F.
5. Turn the Module power rocker switch to the "ON" position.
6. Allow the module to warm up for at least 5 minutes.
7. After 5 minutes has elapsed, go back to the Dip Switch and Move Switch #4 to the "UP" or "ON" position.
8. The display should now read 'CK2".
9. Find the Manual Knob on the lower middle of the front face of the module, just above the power switch.
10. Turn the Manual Knob to the "ON" position and then turn it back "OFF".
11. The display should now read "CK4".
12. Change the thermocouple simulator to 400° F.
13. Turn the Manual Knob to the "ON" position and then turn it back "OFF".
14. The display should now read "CK8".
15. Change the thermocouple simulator to 800° F.
16. Turn the Manual Knob to the "ON" position and then turn it back "OFF".
17. The display should now read "J".
18. Change the Thermocouple Simulator to "J-Type" and set temperature to 200° F.
19. Go back to Dip Switch and move switch #2 to the "UP" or "ON" position.
20. The display should now read "CJ2".
21. Repeat steps "9" through "16" except the display will be for "J" instead of "K".
22. Once Step "21" is completed the display should now read "Cdn".
23. Turn the Module 'OFF".
24. On the Dip Switch move Switch #4 to the "OFF" or "DOWN" position.
25. Turn the Module back "ON".
26. Set the thermocouple simulator to J-type T/C and change temperature to read 200°F.
27. The display should read within +/- 1 degree of 200° F.
28. Repeat steps "26 & 27" except with the thermocouple simulator reading 400° and then 800° F.
29. Turn the module off and move the Dip Switch's back to what ever setting they were at when received. If not sure set them to the default settings which are as follows:
    a. Switch #1: Down or OFF Position.
    b. Switch #2: UP or ON Position
    c. Switch #3: Down or OFF Position
    d. Switch #4: Down or OFF Position
    e. Switch #5: Down or OFF Position
30. The module is now calibrated.

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