How To Adjust The Temperature Controller On A Batchmaster

Temperature Controllers are used on the Batchmaster I, Batchmaster II and also on the Autocaster Basic to control the thermal fluid temperature and resin temperature. The Temperature Controllers are mounted on the control panel and have a small digital display. The Temperature Controllers used are either 24VDC or 230VAC and are manufactured by Carlo Gavazzi or Omega. Regardless of which Temperature Controller you have, the setup should remain the same.

The newer Batchmaster III, Autocaster Economizers, and Autocaster Ultras use internal PLC controlled temperature control and are not affected by the procedure.

The Temperature Controllers can need to be reset due to someone inadvertently changing the settings or parameters while trying to change the temperature settings or when the temperature controllers fail and need to be replaced. In either case, the following procedures need to be followed on the temperature controller to reset it, set parameters, and set the temperature settings.

**Note:** Always be careful when replacing a Temperature Controller. Turn off power to the machine and use proper lockout tagout procedures when doing maintenance on the machine. Make sure and specify if your Temperature Controller is 24VDC or 230VAC to ensure that you receive the correct replacement part.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>162733</td>
<td>Temperature Control, 24VDC IN, CN132-24V</td>
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<tr>
<td>150730</td>
<td>Temperature Controller 230VAC, CN132</td>
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Procedure on how to reset the temperature controller:

- Depress both Arrow Keys until the text is displayed. Release the keys.
- Depress the Down Arrow Key until the word “LevL” is displayed. Release the Arrow Key.
- Depress the Star Key. Depress the Up Arrow Key until the number 3 is displayed. Release both keys.
- Depress the Up Arrow Key until the word “Rset” is displayed. Release the Arrow Key.
- Depress the Star Key. Depress the Up Arrow Key to display the word “All”. Release the keys.
• Depress both Arrow Keys until the text flashes “Inpt” and “NoNe”. Release the keys.

The temperature controller has now been reset.

**Procedure on setting the parameters for the temperature controller:**

• Depress the Star Key. Depress the Up Arrow Key until the Text “Tc J” is displayed. Release the keys.
• Depress the Up Arrow Key until the text “Unit” is displayed. Release the key.
• Depress the Star Key. Depress the Up Arrow Key until the Fahrenheit symbol is displayed. Release the keys.
• Depress the Up Arrow Key until the text. “Spd.1” is displayed. Release the keys.
• Depress the Star Key. Depress the Up Arrow Key until the text “Rly” is displayed. Release the keys.
• Depress both Arrow Keys until numeric values are displayed.

The temperature controller parameters are now set to communicate to the thermocouple.

**Procedure on how to set the Output Resin temperature:**

• Depress the Star Key. Depress the Up Arrow Key until the desired output resin temperature is established. Release the keys.

The temperature controller is now programmed to control output resin temperature.

**Procedure on how to set the Thermo-fluid temperature:**

• Depress the Star Key. Depress the Up Arrow Key until the desired thermo-fluid temperature is established. Release the keys.

**Note:** The thermo-fluid temperature should be set 10 to 15 degrees hotter than the desired output resin temperature. In colder climates, the thermo-fluid temperature may need to be set even higher. In contrast, in warmer climates, the thermo-fluid temperature may need to be set lower than the temperature differential suggested above to obtain the desired output resin temperature.

The temperature controllers are now in sync and ready to control the output resin temperature.