BREWER'S EDGE® CONTROLLER 11

The Brewer's Edge Controller II is an electronic temperature control for both refrigeration and electric heating. It features a keypad for programming, front panel LED to indicate power delivery, and jumpers inside the case to convert it from the factory set cooling mode to heating mode.

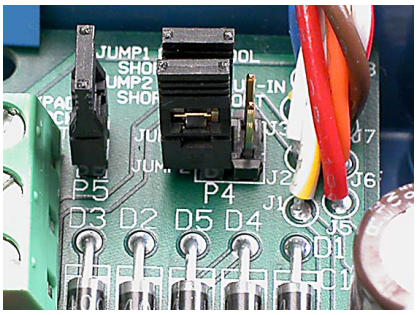
Warning!

Always unplug the unit before opening the case to prevent electrical shock. Use a GFI in wet areas to prevent electrocution.

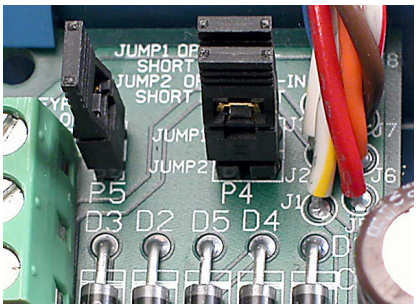
Setting The Jumpers

This step is only needed if you want to use a heater - the Controller 11 is factory set for cooling already. Unplug the unit from power, and open the case by removing the 4 phillips head screws. You will see jumpers 1 and 2 set open (no circuit), which is the cooling setting.

Cooling Jumper Setting



Heating Jumper Setting



Bridging 1 and 2 by pulling up on the black jumpers and putting them over both pins shorts (connects) them, and is the setting to use when using a heater. The jumper to the left of 1 and 2 can be removed if you want to lock the keypad to prevent tampering, although this should be done after programming is complete.

Installation

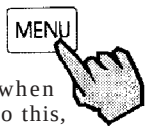
Before installation, make sure the jumpers are set correctly for cooling or heating (see left). To install the unit, plug it in, and plug in your cooling unit or heater (maximum 12 amp draw) into the plug coming from the Controller. Put the probe in your refrigerator or area that needs to be heated. The probe wire can be bent around a refrigerator door seal, and the probe taped to the refrigerator wall.

For heating, plug your space or other electic heater into the outlet cord of the Controller, making sure the internal jumpers are set for heating (see left). Then put the flexible sensor in the area to be heated and you are ready to program.

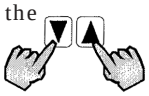
Programming

TEMPERATURE MODE - First set the unit to Fahrenheit or Celsius by pressing the Up and Down buttons simultaneously to toggle between F° and C°. Wait 3 minutes for the flashing **ASd** display to go away before doing this.

TEMPERATURE SETTING (SP)



1.With Fahrenheit or Celsius set, now set the temperature you want the Controller to maintain when cooling or heating. To do this, plug the unit in and wait 3 minutes until the flashing **ASd** turns into a steady temperature display.



2. Now press **Menu** and hold it for 1 second until the flashing **SP** display occurs. Now press **Menu** again - the current temperature setupoint is displayed. Press the **Up** or **Down** keys to adjust the target temperature. When done, press **Menu** again to save. The display then returns to the sensor temperature.

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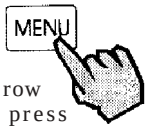
Optional Settings

The unit comes from the factory with a 5° differential (diF) which is fine for most cooling and heating applications.

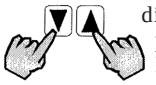
DIFFERENTIAL What is a differential in heating and cooling? A differential is the number of degrees the unit cools or heats when it activates. For example, with the unit set for cooling to 55° F. and a differential of 5, the unti will turn on the refrigerator when the sensor reads 55° and then cool down to 50° before shutting off. If the differential is set to 6°, it will cool to 49° before shutting off. A larger setting reduces wear on the refrigerator compressor or heater, by reducing the number of times it turns on or off. The downside of a larger differential is less precise temperature control. We do not recommend setting this below 3 to prevent excessive compressor wear.

DIFFERENTIAL SETTING (dIF)

1. To change the differential from the factory setting of 5, plug the unit in and wait 2 minutes until the flashing **5P** turns into a steady temperature display.



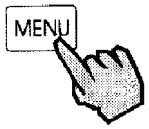
2. Now press **Menu** and hold it for 1 second until the flashing **5P** display occurs. Now press the up arrow until **dIF** flashes. Now press **Menu** again - the current differential setting is displayed. Press the **Up** or **Down** keys to adjust to the desired differential. When done, press **Menu** to save.



ANTI-SHORT CYCLE DELAY (ASd) This setting normally does not need to be changed and is mainly designed to protect refrigeration compressors from too many starts and stops. Generally, the factory setting of 5 for the differential will protect most compressors. The factory setting of the Anti-Short Cycle Delay is one minute, which means that even if you set the differential to 1, the unit will wait 1 minute before turning off a refrigerator. While it is waiting, you will see ASd flashing on the screen. This can be set up to 12 minutes long if desired to prevent excessive compressor wear.

CYCLE DELAY SETTING (ASd)

1. To change from the factory setting of 5, plug the unit in and wait 2 minutes until the flashing **5P** turns into a steady temperature display.



2. Now press **Menu** and hold it for 1 second until the flashing **5P** display occurs. Now press the up ar until **dIF** flashes. Now **Menu** again - the current differential setting is displayed. Press the **Up** or **Down** keys to adjust to the desired differential. When done, press **Menu** to save.