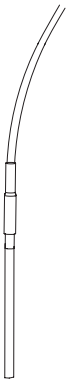
Parts & Service Communicator

Electronic Bin Thermostat Control

The electronic bin thermostat control is used with ice machines on dispensers or ice machines with pure water (reverse osmosis or de-ionized). Current production Ice Beverage (IB Model) machines also have the electronic bin thermostat control replacing the mechanical bin thermostat control.The thermostat is intended to reduce overfill and condensation issues. If an ice machine has an electronic bin thermostat control, a bin thermostat will be mounted in the bin.



Bin Thermostat

ELECTRONIC BIN THERMOSTAT CONTROL

The temperature control opens the bin switch (or toggle switch) circuit when ice contacts the sensor. When ice no longer contacts the sensor, the circuit closes and the ice machine starts.

Specifications

Setpoint Range: -30 to 212°F (-34 - 100°C)

CONTROL SETTINGS

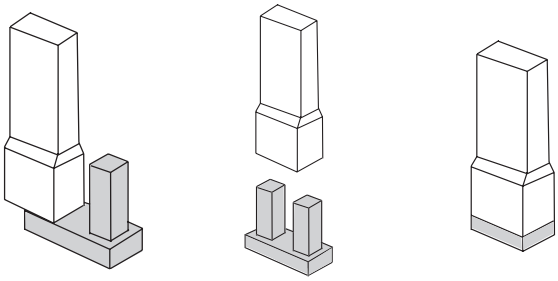
Verify control is set properly before proceeding.

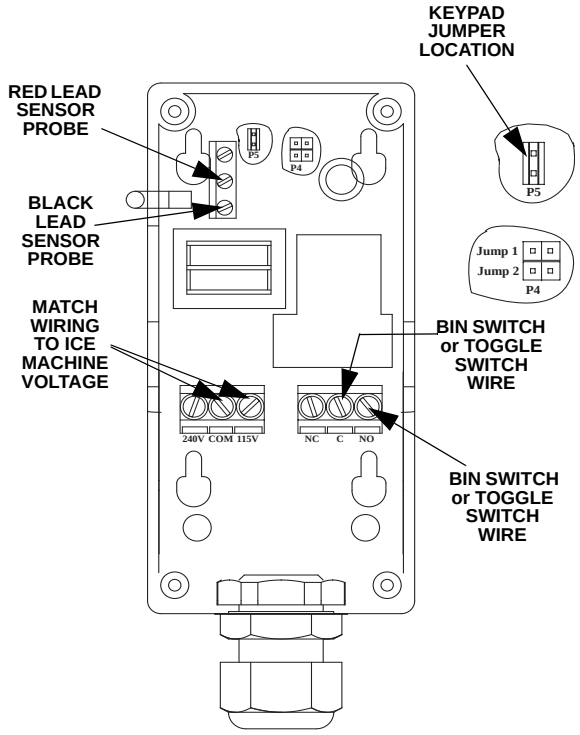
Display	Function	Preset Settings
SP	Set Point	40
DIF	Differential	1
ASD	Anti-Short Cycle Delay	1
OFS	Temperature Offset	0
SF	Sensor Failure Mode	1 - Cubers
		0 - Nugget/Flake/Chiplet

Positioning the Touchpad Jumpers

P5 Jumper

The P5 jumper position determines if the touchpad is locked or unlocked. The control is factory locked; to unlock move the jumper from one pin to two pins.



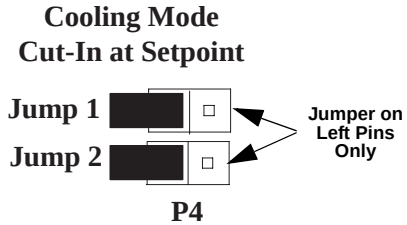


Inside of Bin Thermostat Control

P4 Jumper

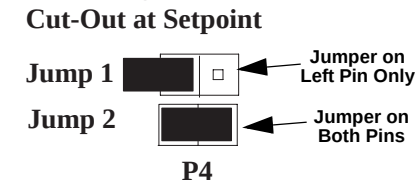
The P4 jumper labeled Jump 1 is used to set the control for heating or cooling mode. Jump 2 is used to establish Set-point at either cut-in or cutout. The Cubers use Diagram A settings and Nugget/Flake/Chiplet use Diagram B settings.

Diagram A



Cubers

Diagram B



Nugget/Flake/Chiplet

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Setting Control Setpoint Value

To view and adjust setpoint, follow these steps:

1. Press MENU until the display flashes SP.
2. Press MENU again to display the existing setpoint value.
3. Press Up or Down (arrows) to change the setpoint value.
4. Press MENU again to save the new value. The display returns to the sensed temperature.

NOTE: If no setup entry is made for 30 seconds, the control reverts to the normal temperature display.

Important

If MENU is not pressed after changing the setpoint value, the control reverts to the previously programmed setpoint value.

Differential, Anti-Short Cycle Delay, Temperature Offset, or Sensor Failure Operation

To set or verify the Differential, Anti-Short Cycle Delay, Temperature Offset or Sensor Failure Operation use the following method.

Factory Preset Temperature Control Code Settings as follows:

1. Press and hold MENU until the display changes to flashing SP.
2. Press up and down (arrows) repeatedly until the desired function is displayed.
3. Press MENU to display the function's current value.
4. Press up and down (arrows) until the desired value is displayed.
5. Press MENU to save the new value. The display returns to the sensor temperature.

NOTE: If no setup entry is made for 30 seconds, the control reverts to the temperature display.

NOTE: Any saved control settings are non-volatile and remain in the control's memory during power interruptions.

Check Procedure

⚠ Warning

Line voltage is present inside control. Contact with line voltage can cause serious injury or death.

If the control system does not function properly, verify that the control is wired and set up properly. If the problem persists use the following procedures to determine the cause of the problem.

Important

Follow these troubleshooting procedures in the order presented. Do not skip any of the steps in the procedures.

1. Check the proper voltage to the control.
   A. Remove the cover, loosen the four cover screws.
   B. Use an AC voltmeter to check the voltage between the common and 120V or 240V terminals.
   C. The voltage must be between102 and 132 volts for 120V applications, 177 and 264 volts for 208/230V applications.
   D. If the voltage reading is not within the required range, check the power source and input power wires for problems.
2. Fault Codes

If the LCD displays an alarm or fault code (SF or EE):

Fault Code	Definition	Solution
SF flashing alternately with OP	Open temperature sensor or sensor wiring	See Step 3. Cycle power to reset control.
SF flashing alternately with SH	Shorted temperature sensor or sensor wiring	See Step 3. Cycle power to reset control.
EE	Program failure	Reset the control by pressing MENU. If problem persists, replace the control.

3. Check for proper operation.

NOTE: Perform Steps 1 and 2 before performing this step.

   A. Disconnect the load from the output relay terminals.
   B. Reconnect the sensor leads and supply power to the control.
   C. Replace the cover.
   D. Check the control settings for proper values.
   E. Press and hold MENU until SP appears.
   F. Press up and down (arrows) to change the setpoint temperature above and below the sensor temperature until the relay energizes and de-energizes.
   G. If the output relay does not perform as indicated replace the control.
   H. If proper operation of the control is verified, reconnect the load.