



BIOSMART TECHNOLOGIES™

Calibrating Instructions for the A06 PC Board

The base-line calibration of the internal thermometer in the heater can be re-calibrated to match the actual room temperature when you have an independent room thermometer that indicates that the heater thermometer is not accurate the way it arrived from the factory.

This procedure can be completed directly with the controls on the front panel. The instructions for changing the base-line thermometer setting on the heater are as follows:

1. Turn the heater on.
2. Determine what the heater thinks the room temperature is (base-line temperature) by **pressing the “up” and “down” buttons at the same time**. The heater will display the temperature that it thinks the room is at. This may or may not correspond with the wall thermostat setting (or another reference thermostat that you are using). If the heater thermostat does not register the same as the wall thermostat, this is what you are about to change.
3. **Release the buttons and wait 15 seconds** for the heater to return to its regular function.
4. To continue with the re-calibration, **press “up” and “enter” at the same time** and hold until the heater displays what it thinks the room temperature is. **The display will begin to flash** this number.
5. **Press “enter”** again. Now, **press the “up” or “down” buttons until the number on the heater’s display screen matches the room temperature of the room thermometer on the wall**. Once you are satisfied with the number on the display screen of the heater, **press “enter” again**.
6. Allow the heater to return to its original function. The display will now revert to a temperature setting that is derived from the new base-line temperature. Now, press the “temperature” button and when the display starts flashing, adjust the room temperature to your desired setting by pushing the appropriate “up” or “down” button. Once the display matches your desired room temperature, press the “enter” button to establish the new set point for the temperature which takes the heater out of the temperature calibration mode.

The heater will now monitor the new temperature displayed on the screen and will turn the infrared on and off to maintain this desired temperature.

Notes:

- The heater operates the infrared heating elements only when the “heat-on” light is on, showing that the heater is in heating mode. Do not confuse the “infrared-on” light with the “heat-on” light.
- The “Infrared-on” light only appears when the temperature in the room falls below the temperature set point on the display screen. Remember that the heater thermostat sensor will vary by 2 degrees between when it turns the infrared on and when it turns the infrared off.
- The fan continues to run for a couple of minutes after the sensor in the heater shuts the infrared elements off. This is to allow the internal components to cool off gradually and not overheat.
- When the display screen goes into “sleep” mode after 1 or 2 minutes (depending on the model year), you will see only a few lighted “dots” at the bottom of the screen. This is to let you know that the heater is functioning normally even though the display has gone into sleep mode. Pushing any button will bring the full display back. The “Infrared-on” light will continue to turn on when the infrared elements are on even though the display is in “sleep” mode.