

Temperature Calibration for Hybex

Required part(s): Cat. #1051-52-0 — Digital Thermometer with cable

Re-calibrating the Hybex temperature controller is recommended only if the display varies by more than one degree (1°C) to a connected NIST-certified digital thermometer (SciGene cat. #1051-52-0).

Definitions:

Set temperature = temperature programmed into the Hybex controller by the user
(hold SET button to display)

Actual temperature = temperature shown on the Hybex display indicating current conditions
(shown when SET button is not depressed)

To adjust the controller to achieve accurate temperatures:

- 1) Program the controller to 65°C (set temperature). Once the Hybex incubator reaches 65°C display (actual temperature) allow 5 minutes to stabilize.
- 2) Using the cable provided with the digital thermometer, plug one end into the blue receptacle found on the back panel of the Hybex incubator and the other end into the digital thermometer.
- 3) Turn on the thermometer. The actual temperature of the block will be displayed
- 4) On the Hybex controller, press the INFINITY KEY (∞) for three seconds until "OPEN" appears.
- 5) Press the DOWN ARROW four times until "Cal" appears.
- 6) Press and hold the SET key. The existing offset value between the controller and digital thermometer is displayed.
- 7) Calculate the new offset value (numerical difference) between the Hybex controller and the digital thermometer. For example, if the controller displays 65°C and the digital thermometer displays 63.5°C, the difference is -1.5°C.
- 8) Press and hold the SET key and use the UP and DOWN ARROWS to enter the offset value calculated in Step 7. For example, if the controller displays a temperature that is 1.5°C higher than the thermometer, adjust to -1.5 of the existing offset value.
- 9) Press the Infinity Key (∞) to exit calibration. The block temperature is now calibrated.

For assistance, please contact: techserv@scigene.com (408) 733-7337, option 6.

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