Congratulations on your purchase of The Incredible Incubator Thermostat. We at Fall Harvest Products know that you made a wise choice. The Incredible Incubator Thermostat intelligent circuitry analyzes the history of cycling and re-calibrates the cycling time of a heating element in order to precisely hold the target temperature, ensuring a better hatch rate over snap-action, standard solid state switches currently on the market. Our unique solid state circuitry design modulates the temperature by cycling the heating element as the internal temperature approaches the target temperature set point.
THERMOSTAT INSTALLATION INSTRUCTIONS

1. Mount the thermostat case on the wall outside of the incubator using screws (not furnished) in the two screw holes, one on each side of the thermostat.

2. Drill a 1/4-inch hole in the incubator wall and route the thermistor sensor into the incubator near the eggs, mounting the sensor above the incubator floor and away from the incubator walls. Do not rest temperature sensor directly on the incubator floor or wall or it will sense floor or wall temperature and cause internal incubator temperature to rise above your set point damaging the eggs.

3. Drill a 1/2-inch hole in the incubator wall and route the heater wires into the incubator to the heating element location.

4. Connect the fuse assembly, following the instructions in the fuse packet, to the black heater wire. Connect the other end of the fuse assembly to the corresponding heating element (hot) wire. FAILURE TO INSTALL FUSE ASSEMBLY VOIDS WARRANTY. Connect the white heater wire to the corresponding heating element (neutral) wire. Connect the green heater wire to the heating element ground wire or to the frame of the heating element if no ground wire exists on the heating element. Consult your heating element instructions for heating element wire colors. Installing a circulating air fan in the incubator is highly recommended to evenly distribute the heated air throughout the incubator. DO NOT WIRE CIRCULATING FANS TO THE THERMOSTAT HEATER WIRES. Fan must be wired separately from the thermostat circuitry so that it receives full power 100% of the time.

5. Once the thermostat is installed and all heater wires are connected, plug in the thermostat. Once plugged in, the LED (°F or °C) blinks for 6 seconds (about 20 blinks) indicating the target temperature of 99.5° F (37.5° C) and energizing the heating element. As the incubator warms, the circuitry analyzes the rate of rise in temperature. Once the temperature nears the set point the heating element begins to slowly cycle, preventing override of the temperature set point. As the temperature approaches the set point, the heating element begins to rapidly cycle, and upon reaching the set point, the heating element energizes as needed to maintain set point temperature.

To set a temperature other than 99.5° F (37.5° C) turn the Temperature Adjust knob lower or higher to indicate the required setting from 97° F to 102° F (36.1° C to 38.9° C). °F or °C flashes for six seconds and then resumes indicating the incubator’s internal temperature. Slide the switch on the face of the thermostat to switch from °F to °C and the LED indicates your new display choice.

In the event of a power failure or interruption, upon resumption of power the thermostat will reset to 99.5° F (37.5° C) and resume operation. If you previously required a different set point, you must reset thermostat to that alternate set point.

Unpack the thermostat using care when handling the manual temperature adjustment knob and thermistor sensor (light gauge) wire.

CAUTION: DO NOT PLUG IN THE THERMOSTAT UNTIL THE HEATER WIRES ARE CONNECTED AND GROUNDED TO THE HEATING ELEMENT. ELECTROCUTION AND/OR SERIOUS INJURY MAY RESULT.

THERMOSTAT FEATURES

- Precision circuitry prevents thermal shock to heating element ensuring longer life when compared to conventional thermostat circuitry
- Temperature range 96°F – 102°F (35.5°C – 39°C) preset at 99.5° F (37.5°C)
- Defaults to 99.5° F. (37.5 °C) on initial power-up and after power interruption
- Powers up to a 250 watt heating element
- Use in small and very large incubators hatching from one to thousands of eggs
- Bright LED display visible from a distance in variable lighting conditions
- Industrial quality and laboratory precision
- Hyper-sensitive thermistor style temperature sensor
- Slide switch allows F° or C° LED display
- Heavy steel case with powder coat paint finish
- Mounting tabs allow for easy installation

WHAT’S IN THE BOX

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DIGITAL DISPLAY

CONTROL KNOB

HEATER FUSE KIT INSTRUCTIONS