

SPECIFICATIONS

Temperature Control Range	50~86°F / 10~30°C
Temperature Resolution	0.1°F / 0.1°C
Temperature Accuracy	±1°F(-68~108°F) / 0.1°C(-50~70°C)
Temperature Control Mode	On/Off Control,Heating
Input Power	100~240VAC, 50Hz/60Hz
Temperature Control Output	Max. 1000W
Sensor Type	NTC sensor
Sensor Length	1.8m / 5.9ft
Relay Contact Capacity	Heating (8-4.3A,100-240VAC)
Input Power Cable Length	1.5m(4.9ft)
Output Power Cable Length	10cm(0.32ft)
Dimension	Body:142x65.5x32mm(5.5x2.5x1.2inch.)
NET Weight	About 0.43kg (0.94lb)
Ambient Temperature	-22~167°F / -30~75°C
Storage	Temperature -10~30°C / 50~86°F Humidity 20~85% (No Condensate)
Warranty	1 Year

The **ROOT+ Heat Mat Thermostat** is designed to keep heat mats at a consistent, optimal temperature—perfect for supporting healthy growth in plants, seedlings, and cuttings. It helps maintain ideal root-zone conditions when used with trays and humidity domes.

Featuring a simple plug-in setup, the thermostat includes an LED indicator, digital temperature controls, and a grounded three-prong plug for safe operation. It offers an adjustable temperature range from 10°C to 30°C and comes with a 1.8-metre probe to accurately monitor conditions. You can also switch between Celsius and Fahrenheit for convenience.

Beyond gardening, heat mats have become popular for a variety of uses. This thermostat allows precise temperature control for reptile and arachnid enclosures, homebrewing fermentation, and other projects that require stable warmth. With the ability to set and maintain your desired temperature, this thermostat reduces the need for constant monitoring—giving you reliable performance in both cooler and warmer environments.

ROOT+ is a GHEDirect brand
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Batch Code: GHE-202604-05
Product Code: TH-STD-10008839



ROOT+ HEAT MAT THERMOSTAT



Temperature
controller
with digital
interface

INSTRUCTION MANUAL

OPTIMUM TEMPERATURE CHART

The ideal temperature is crucial to growing strong healthy plants. Excessive heat or cold can result in poor quality growth.

Optimum plant temperatures	Temperature for seed germination		Temperature for transplant growth			
			DAY		NIGHT	
Plant type	°C	°F	°C	°F	°C	°F
Bergonias	24	75	24	75	18	65
Chillies	24	75	24	75	18	65
Peppers	24	75	24	75	18	65
Tomatoes	24	75	24	75	18	65
Bulb Onions	15	60	18	65	15	60
Broad Beans	15	60	18	65	15	60
Carrots	12	54	18	65	12	54

This digital thermostat allows gardeners to select and maintain optimal rooting temperatures for faster seedling or cutting growth.



SET UP THE THERMOSTAT

- 1 Insert the probe approximately 25mm into the rooting area.
- 2 Position the thermostat up and away from the seedling trays. **DO NOT SUBMERGE THE THERMOSTAT IN WATER.**
- 3 Plug the heat mat into the thermostat.
- 4 Plug the thermostat's power cord into the electrical outlet. The **POWER LED** will light up.
- 5 Set the desired temperature for the heat mat.

USING THE CONTROLLER

- 1 Power on thermostat and it will show ambient temperature on the screen.
- 2 Press 'up' button to show temperature in Fahrenheit.
- 3 Press "down" button to show temperature in Celsius.
- 4 Press "set" button to show set temperature (if in the last step you chose Fahrenheit, it will show Fahrenheit, if not, it will show Celsius).
- 5 Press and hold "set" button for 3 seconds to set temperature. Press "+" or "-" button to adjust temperature (Celsius range 10° C - 30° C) and (Fahrenheit range is 50° F - 86° F). Press "set" button again to retain setting and exit.
- 6 If "ERR" is displayed, unplug unit and check for faults.

TIPS

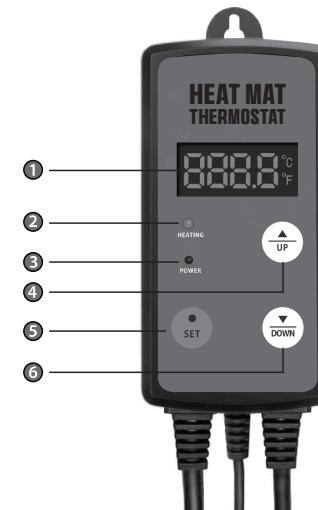
The ROOT+ Heat Mat Thermostat is designed to achieve the desired heat temperature within 5 hours. If it takes longer than 5 hours, or if the mat runs for longer than 5 hours, desired temperatures are not being reached.

To conserve power and increase the mats effectiveness, move the mat to a more insulated surface. You can also add a humidity dome to cover the seeding tray, which aides in heat retention.

WARNING: DO NOT IMMERSE CONTROLLER IN WATER

If the probe's temperature reaches 30 degrees C, the automatic safety shut-off is activated. In the event that you would like to use your thermostat to control air temperature, we've included a suction cup so that the probe can be mounted outside the rooting area.

Simply clip the suction cup over the probe and apply to desired area. It may help to moisten the suction cup prior to sticking it.



- 1 LED display: °C and °F display current temperature.
- 2 HEATING Indicator Lamp: When the light is on the heat mat is operating.
- 3 POWER Indicator Lamp: When the light is on it means that the unit has power and can be used normally.
- 4 UP key: under setting mode press to INCREASE value.
- 5 SET key: Press "SET" key for 3 seconds to enter menu for temperature setting. If you press "set" button again, it retains the setting and exits.
- 6 DOWN key: under setting mode press to DECREASE value.