BN-LINK T7E

BN-LINK Digital Heat Mat Thermostat Controller User Manual

Model: T7E

1. Introduction

Thank you for choosing the BN-LINK Digital Heat Mat Thermostat Controller. This device is designed to regulate and maintain precise temperatures for various heating applications, ensuring optimal conditions for your plants, reptiles, or brewing projects. It features an easy-to-read digital display and simple push-button controls for effortless operation.



The BN-LINK Digital Heat Mat Thermostat Controller, showing its main unit, power plug, and temperature probe with suction cup.



Detailed diagram illustrating the various components and indicators of the thermostat controller.

2. Safety Information

WARNING: This thermostat controller is designed for heating devices ONLY. Do NOT use with cooling devices.

- Always ensure the device is properly plugged into a grounded outlet (120VAC 60Hz).
- Do not exceed the maximum load of 8.3A (1000W).
- Keep the controller and probe away from water or excessive moisture.
- Do not immerse the controller or probe in water.
- Ensure the temperature probe is securely placed in the desired area for accurate temperature monitoring. Avoid placing the probe directly on a heat source or in direct contact with metallic objects to prevent overheating or inaccurate readings.
- Regularly inspect the power cord and probe for any damage. Discontinue use if damaged.

3. Product Features and Components

- **Digital Display:** Bright, easy-to-read LED display shows current and set temperatures.
- **Temperature Probe:** Durable 4.92 ft (1.5m) temperature probe with suction cup for precise temperature monitoring.
- **Control Buttons:** 'SET', 'UP', and 'DOWN' buttons for easy temperature adjustment and unit selection.
- **Indicator Lights:** 'HEATING' (red) and 'POWER' (red) LED indicators for quick status checks.
- **Power Cord:** 3.94 ft (1.2m) 3-prong grounded power cord.
- **Hanging Tab:** Convenient integrated tab for easy mounting.



The thermostat controller features a practical hook design for convenient mounting.

4. Setup Instructions

1. **Place the Controller:** Mount the thermostat controller in a convenient location using its hanging tab, ensuring it is away from direct heat or moisture.
2. **Connect the Heat Source:** Plug your heating device (e.g., heat mat, heat lamp) into the 3-prong outlet on the bottom of the thermostat controller.
3. **Position the Temperature Probe:** Place the temperature probe in the area where you want to monitor and control the temperature. Use the included suction cup to secure it if needed. Ensure the probe is not directly touching the heat source or any metallic surfaces.
4. **Plug into Power:** Plug the thermostat controller's power cord into a standard 120VAC 60Hz grounded electrical outlet. The digital display will light up, showing the current temperature.

5. Operating Instructions

5.1 Setting the Target Temperature

1. Press and hold the **SET** button for approximately 3 seconds until the display starts flashing.
2. Use the **UP** or **DOWN** buttons to adjust the target temperature to your desired setting. The temperature control range is 40°F to 108°F (5°C to 42°C).
3. Press the **SET** button again to confirm and save your setting. The display will stop flashing and return to showing the current temperature.



Visual guide for setting the target temperature on the thermostat controller.

5.2 Changing Temperature Units (°F/°C)

To switch between Fahrenheit (°F) and Celsius (°C):

- Press and hold the **UP** button for approximately 3 seconds to change the unit to Fahrenheit (°F).
- Press and hold the **DOWN** button for approximately 3 seconds to change the unit to Celsius (°C).



Instructions for switching the temperature display between Fahrenheit and Celsius.

5.3 Temperature Control Logic

The thermostat will automatically turn on the heating device when the current temperature drops 2-3 degrees below your set target temperature. It will turn off the heating device once the target temperature is reached. This 2-3 degree buffering zone prevents constant on/off cycling of your appliance.

Mount Anywhere

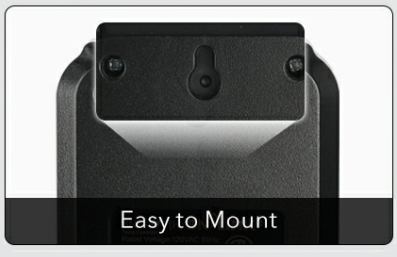
Practical hook design, Convenient to mount and use



The thermostat maintains temperature within a control range of 40°F to 108°F, with a display range of 32°F to 140°F.

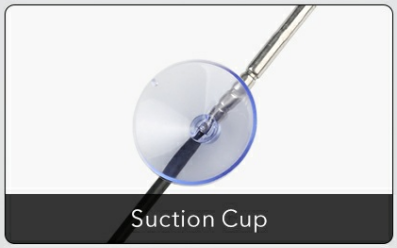












Important: This thermostat controller is designed for heating functions only and should not be used with cooling devices.

5.4 Versatile Applications

This thermostat is perfectly compatible with various heating applications, including:

- Seed Germination
- Reptile Heating Pads
- Home Brewing & Fermentation
- Greenhouses
- Breeding & Incubation



The BN-LINK thermostat controller offers versatile applications in daily life, from plant care to pet environments.

6. Maintenance

- **Cleaning:** Disconnect the controller from power before cleaning. Wipe the unit and probe with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the controller in a cool, dry place when not in use.
- **Regular Inspection:** Periodically check the power cord and probe for any signs of wear or damage.

7. Troubleshooting

Problem	Possible Cause	Solution
Display is off / No power	Not plugged in; Power outage; Faulty outlet	Ensure controller is securely plugged in; Check power supply; Try a different outlet.
Heating device not turning on	Temperature above set point; Heating device unplugged or faulty; Probe not positioned correctly	Wait for temperature to drop (2-3°F below set point); Check heating device connection and functionality; Reposition probe away from direct heat.
Inaccurate temperature reading	Probe not properly placed; Damaged probe	Ensure probe is in the desired ambient temperature area, not touching heat source; Contact support for probe replacement.
Temperature fluctuates widely	Probe exposed to drafts or rapid temperature changes	Relocate probe to a more stable environment; Ensure enclosure is well-sealed.

8. Specifications

Feature	Specification
Brand	BN-LINK
Model Name	T7E(H)
Product Dimensions	1.6"D x 3.5"W x 4.5"H
Controller Type	Push Button
Special Feature	Temperature Display
Color	Black
Specific Uses For Product	Seed Germination, Reptiles, Greenhouse, Brewing, Heating, Fermentation
Temperature Control Type	Heating
Connectivity Technology	PLUG
Included Components	Probe

Feature	Specification
Power Source	Corded Electric
Item Weight	1.14 Pounds
Voltage	120 Volts
Material	Plastic
Shape	Rectangular
Display Type	LED
Control Type	Button Control
Control Method	Remote
Backlight	Yes
Specification Met	ETL
Wattage	1000 watts
UPC	680474115723
Manufacturer	BN-LINK
Item Model Number	T7E

9. Warranty and Support

BN-LINK offers a 30-day return policy and a 12-month replacement warranty for this product. If you encounter any issues or have questions regarding your thermostat controller, please contact BN-LINK customer support for assistance.
For further support, visit the BN-LINK Store on Amazon.

© 2023 BN-LINK. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for

conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question