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› Inkbird Digital Outlet Heat Temperature Controller ITC-306T User Manual

Inkbird ITC-306T

Inkbird Digital Outlet Heat Temperature Controller

MODEL: ITC-306T

User Manual

1. Product Overview

The Inkbird ITC-306T is a pre-wired heating output temperature controller designed for precise temperature management. It features dual time cycle settings, allowing for different temperature configurations during day and night cycles, which is beneficial for various applications such as breeding, planting, and fermentation. This controller is specifically for heating applications and does not include a cooling function.



Figure 1: Inkbird ITC-306T Temperature Controller showing the main unit, power strip, and temperature probe.

2. Key Features

- **Convenient Design:** Plug and play operation for ease of use. Supports temperature readings in both Celsius and Fahrenheit.
- **Dual Display Window:** Simultaneously displays the measured temperature (PV) and the set temperature (SV).
- **Heating Only Control:** Operates in On/Off control mode for heating. Both output sockets are for heating devices. Total maximum load is 1200W (110V).
- **Dual Time Cycle Setting:** Allows setting different temperatures for day and night periods over a 24-hour cycle, catering to specific physiological needs of animals and plants.
- **Safety Functions:** Includes temperature calibration, over-temperature alarm, and sensor fault alarm for enhanced safety and reliability.

3. Package Contents

Upon opening the package, verify that all components are present and undamaged:

- 1 x Inkbird ITC-306T Temperature Controller Unit
- 1 x Temperature Probe (with 5' cord)
- 1 x User Guide



Figure 2: Contents of the Inkbird ITC-306T package, showing the main unit, temperature probe, and user guide.

Video 1: An unboxing video demonstrating the contents of the Inkbird ITC-306T package and initial setup steps.

4. Setup Instructions

1. **Placement:** Position the ITC-306T controller in a dry, stable location away from direct sunlight or excessive moisture. Ensure adequate ventilation around the unit.
2. **Probe Installation:** Carefully insert the stainless steel temperature probe into the environment where temperature needs to be controlled (e.g., aquarium, terrarium, brewing vessel). Ensure the probe tip is fully immersed or positioned correctly to accurately measure the desired temperature. Avoid bending the probe

cable sharply.

3. **Connect Heating Device:** Plug your heating device (e.g., heat mat, ceramic heater, aquarium heater) into one of the two output sockets on the ITC-306T's power strip. Ensure the total wattage of connected devices does not exceed 1200W.
4. **Power On:** Plug the main power cord of the ITC-306T into a standard 110V AC power outlet. The digital display will illuminate, showing the current measured temperature (PV) and the set temperature (SV).



Figure 3: Proper connection of the ITC-306T controller, including the power plug, output sockets, and temperature probe.

5. Operating Instructions

5.1. Setting Temperature (SV)

1. Press the **SET** button once. The SV (Set Value) display will begin to flash.
2. Use the ▲ (Up) or ▼ (Down) buttons to adjust the desired temperature.
3. Press the **SET** button again to confirm the setting and exit.

5.2. Advanced Settings (Menu Codes)

To access advanced settings, press and hold the **SET** button for 3 seconds until the display shows "TS". Use the ▲ or ▼ buttons to navigate through the menu codes (e.g., TS, HD, CD, PT, CA, AT, DY, NT). Press **SET** to enter a parameter and adjust its value, then press **SET** again to confirm.

Table 1: Common Menu Codes and Functions

Code	Function	Description
TS	Temperature Setting	Sets the desired temperature (SV).
HD	Heating Differential	The temperature difference below SV at which heating activates.
CA	Temperature Calibration	Adjusts the measured temperature (PV) for accuracy.
DY	Day Temperature Setting	Sets the desired temperature for the day cycle.
NT	Night Temperature Setting	Sets the desired temperature for the night cycle.

For detailed instructions on setting specific parameters, refer to the comprehensive user guide provided with the product or available online.

6. Maintenance

- **Cleaning:** Wipe the controller unit with a soft, dry cloth. Do not use abrasive cleaners or immerse the unit in water.
- **Probe Care:** Regularly inspect the temperature probe for any signs of damage or corrosion. Clean the probe gently if necessary, ensuring no residue affects its accuracy.
- **Storage:** If storing the unit for an extended period, unplug it from the power source, clean it thoroughly, and store it in a cool, dry place.

7. Troubleshooting

Table 2: Common Issues and Solutions

Problem	Possible Cause	Solution
Display is blank	No power supply.	Check if the unit is properly plugged into a live power outlet. Verify the outlet is functioning.
Temperature reading is inaccurate	Probe is dirty or damaged; Calibration needed.	Clean the probe. If still inaccurate, use the CA (Temperature Calibration) function to adjust. If damaged, replace the probe.
Heating device not turning on/off	Incorrect temperature settings (SV, HD); Device malfunction.	Verify SV and HD settings. Ensure the heating device is functional by plugging it directly into a power outlet.
"E1" or "HH" error on display	Sensor fault or temperature exceeding range.	Check probe connection. If the error persists, the probe may be faulty. "HH" indicates temperature is too high.

If the issue persists after attempting these solutions, please contact Inkbird customer support.

8. Specifications

- **Model:** ITC-306T

- **Input Voltage:** 100-265VAC, 50Hz/60Hz
- **Output Voltage:** 100-265VAC, 50Hz/60Hz
- **Current:** 10A Max
- **Maximum Output Load:** 1200W (110V)
- **Temperature Range:** -50°C to 99°C / -58°F to 210°F
- **Temperature Control Mode:** On/Off Control (Heating Only)
- **Dimensions:** Approximately 7.52 x 4.13 x 3.39 inches
- **Weight:** Approximately 15.2 ounces

9. Warranty and Support

Inkbird products typically come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included in your product packaging or visit the official Inkbird website. Keep your purchase receipt as proof of purchase.

For technical support, troubleshooting assistance, or warranty claims, please contact Inkbird customer service through their official channels. You may find contact information in the user guide or on the Inkbird website.

A Certificate of Compliance for this product is available for download:[Certificate of Compliance \(PDF\)](#).

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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

