

DIGITEN THT1032

DIGITEN THT1032 Temperature and Humidity Controller with Timer User Manual

Model: THT1032

Brand: DIGITEN

1. INTRODUCTION

The DIGITEN THT1032 is a versatile temperature and humidity controller designed for precise environmental management. It features three independent outlets for controlling heating/cooling, humidification/dehumidification, and timed operations. Equipped with dual high-precision probes, this device is suitable for various applications including reptile enclosures, mushroom cultivation, plant seeding, and home brewing.

2. KEY FEATURES

- **Plug & Play Operation:** Simple setup with intuitive buttons for quick configuration.
- **Dual High-Precision Probes:** Separate probes for temperature (accuracy: $\pm 0.4^{\circ}\text{C}/\pm 0.7^{\circ}\text{F}$) and humidity (accuracy: $\pm 3\%$).
- **Triple-Zone Precision Control:** Three independent outlets for temperature, humidity, and timed devices.
- **Large LCD Display:** Clear, real-time monitoring with switchable Fahrenheit/Celsius units.
- **Climate Customization:** Combine heating/cooling with humidification/dehumidification, and program the third outlet for timers.

3. PACKAGE CONTENTS

- DIGITEN THT1032 Controller Unit
- Temperature Probe
- Humidity Probe
- User Manual

4. PRODUCT OVERVIEW

The DIGITEN THT1032 controller features a main unit with a large LCD display, control buttons, three power outlets, and two external probes for temperature and humidity sensing.



Image 1: Front view of the DIGITEN THT1032 controller, showing the display, buttons, and three power outlets.

4.1. Control Panel and Display

The front panel includes an LCD screen and four control buttons: SET, MODE, Up (▲), and Down (▼).

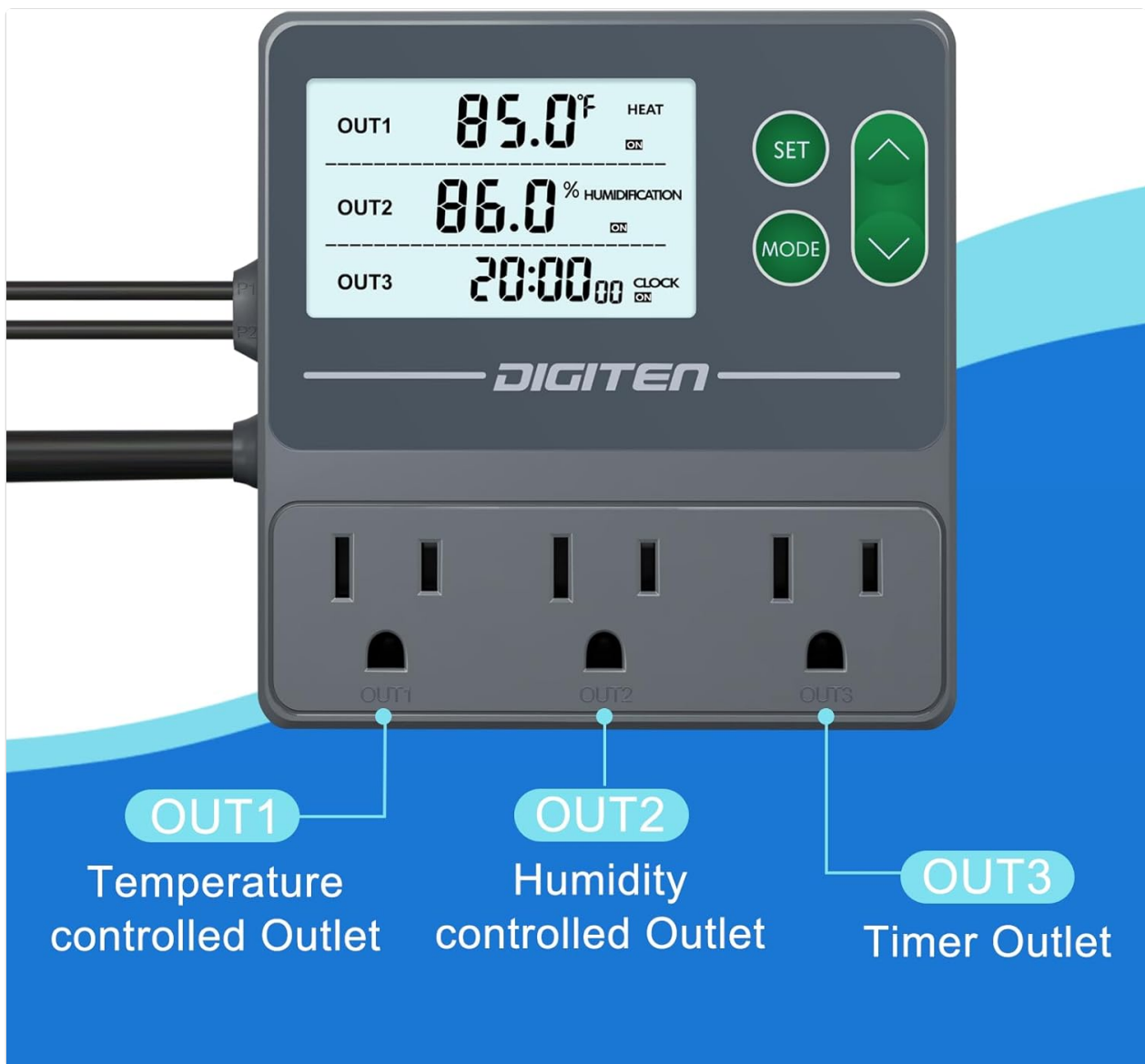


Image 2: Detailed view of the controller's outlets and control buttons. OUT1 is for temperature, OUT2 for humidity, and OUT3 for timer functions.

- **SET Button:** Used to select an outlet for configuration or confirm settings.
- **MODE Button:** Used to change the operating mode (e.g., heating/cooling, humidification/dehumidification, timer program).
- **Up (▲) Button:** Increases values or navigates menu options.
- **Down (▼) Button:** Decreases values or navigates menu options.
- **OUT1:** Temperature controlled outlet.
- **OUT2:** Humidity controlled outlet.
- **OUT3:** Timer controlled outlet.

4.2. Probes

The controller comes with two separate probes: one for temperature and one for humidity. These probes are essential for accurate environmental monitoring.



Image 3: The temperature probe (left) and humidity probe (right) connected to the controller, illustrating their distinct functions.

5. INITIAL SETUP

1. **Connect Probes:** Plug the temperature probe and humidity probe into their respective ports on the controller. Ensure they are securely connected.
2. **Placement:** Position the probes in the environment you wish to monitor and control. Ensure they are not directly exposed to heat sources, moisture, or airflow that could skew readings.
3. **Power On:** Plug the controller into a standard 120V AC power outlet. The display will illuminate, showing current temperature, humidity, and time.
4. **Connect Devices:** Plug your heating/cooling device into OUT1, your humidification/dehumidification device into OUT2, and any timed appliance (e.g., lights, misters) into OUT3.

6. OPERATING INSTRUCTIONS

6.1. Setting Temperature Control (OUT1)

1. Press the **SET** button repeatedly until OUT1 is selected (indicated by a flashing OUT1 icon or similar).

2. Use the **Up (▲)** or **Down (▼)** buttons to adjust the desired target temperature.
3. Press **MODE** to cycle through heating (HEAT) or cooling (COOL) modes. Select the appropriate mode for your connected device.
4. Press **SET** to confirm the temperature and mode.
5. To set the temperature differential (hysteresis), press and hold **SET** for a few seconds when OUT1 is selected. Use **Up/Down** to adjust the difference between the set point and when the device turns on/off. Press **SET** to confirm.

6.2. Setting Humidity Control (OUT2)

1. Press the **SET** button repeatedly until OUT2 is selected.
2. Use the **Up (▲)** or **Down (▼)** buttons to adjust the desired target humidity percentage.
3. Press **MODE** to cycle through humidification (HUMIDIFICATION) or dehumidification (DEHUMIDIFICATION) modes. Select the appropriate mode.
4. Press **SET** to confirm the humidity and mode.
5. To set the humidity differential, press and hold **SET** for a few seconds when OUT2 is selected. Use **Up/Down** to adjust. Press **SET** to confirm.

6.3. Setting Timer Control (OUT3)

1. Press the **SET** button repeatedly until OUT3 is selected.
2. Press **MODE** to enter the timer programming interface.
3. Use **Up (▲)** or **Down (▼)** to set the ON time (hour and minute). Press **SET** to move to the next setting.
4. Set the OFF time (hour and minute) using **Up/Down** and **SET**.
5. The controller supports multiple ON/OFF programs for OUT3. Refer to the on-screen prompts for additional program slots.
6. Press **SET** to save and exit the timer settings.

6.4. Switching Temperature Units (°C/°F)

To switch between Celsius and Fahrenheit, press and hold the **Up (▲)** button for approximately 3 seconds. The display will change accordingly.

7. MAINTENANCE

- **Cleaning:** Wipe the controller unit with a soft, dry cloth. Do not use abrasive cleaners or immerse the unit in water.
- **Probe Care:** Keep the probes clean and free from debris. Avoid bending or damaging the probe cables. If probes become dirty, gently clean them with a damp cloth and allow them to dry completely before re-use.
- **Storage:** When not in use, store the controller in a cool, dry place away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

Issue	Possible Cause	Solution
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Issue	Possible Cause	Solution
Display is blank or not powering on.	No power supply; loose connection.	Ensure the controller is securely plugged into a live power outlet. Check the power source.
OUT1/OUT2/OUT3 not activating connected device.	Incorrect settings; device malfunction; power issue.	Verify temperature/humidity/timer settings. Check if the connected device is working independently. Ensure the controller's set point is met for activation.
Humidity probe shows "ERR" reading.	Probe malfunction; damaged cable; sensor error.	Check the humidity probe connection. Inspect the probe cable for damage. If the error persists, the probe may need replacement.
Inaccurate temperature/humidity readings.	Probe placement; dirty probe; probe malfunction.	Relocate probes away from direct heat/moisture/airflow. Clean probes gently. If issues persist, consider probe replacement.

9. TECHNICAL SPECIFICATIONS

Specification	Value
Model Number	THT1032
Power Requirement	100-240VAC
Load Capacity	10A per outlet (1100W@110V, 2200W@220V)
Temperature Control Range	-10°C to 120°C / 14°F to 248°F
Temperature Accuracy	±0.4°C / ±0.7°F
Humidity Accuracy	±3%
Probe Sensor Type	Digital Signal Output, I2C Interface
Operating Environment Temperature	0-50°C / 32-122°F
Operating Environment Relative Humidity	<85%
Display Type	LCD
Material	Plastic
Color	Gray
Item Weight	1.04 pounds
Package Dimensions	6.85 x 6.34 x 1.93 inches

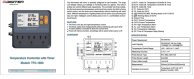





10. WARRANTY AND CUSTOMER SUPPORT

DIGITEN provides a one-year warranty for any quality-related issues with this product. For technical

assistance, troubleshooting, or warranty claims, please contact DIGITEN customer support through the retailer where the product was purchased or visit the official DIGITEN website for contact information.

Please retain your proof of purchase for warranty service.

Related Documents - THT1032

	<p>Digiten TTC-1003 Temperature Controller with Timer User Manual</p> <p>User manual for the Digiten TTC-1003 Temperature Controller with Timer, a 3-outlet thermostat designed for pet breeders and environmental control. Learn about its features, specifications, and how to set up heating, cooling, and timing functions for optimal pet comfort.</p>
	<p>DIGITEN DHTC-1011 Temperature and Humidity Controller User Manual</p> <p>User manual for the DIGITEN DHTC-1011 Temperature and Humidity Controller, detailing its features, specifications, setting instructions, and troubleshooting.</p>
	<p>DIGITEN DTC-310 & DTC-315 Thermostat User Manual</p> <p>User manual for the DIGITEN DTC-310 and DTC-315 electronic temperature controllers, detailing features, specifications, setup, and troubleshooting.</p>
	<p>DIGITEN WTC100/WTC200 Wireless Thermostat User Manual</p> <p>Comprehensive user manual for the DIGITEN WTC100 and WTC200 wireless thermostats, detailing features, setup, operation, specifications, and troubleshooting for efficient temperature control.</p>
	<p>Digiten DTC-101 / DTC-151 Digital Temperature Controller User Manual and Specifications</p> <p>Comprehensive guide to the Digiten DTC-101 and DTC-151 digital temperature controllers, detailing features, setup, operation, technical specifications, and troubleshooting for precise temperature management.</p>
	<p>DIGITEN Wireless Thermostat WTC100 WTC200 User Manual</p> <p>Comprehensive user manual for the DIGITEN Wireless Thermostat models WTC100 and WTC200, covering features, specifications, setup, operation, troubleshooting, and warranty.</p>