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› DIGITEN DTC101 Temperature Controller User Manual

## DIGITEN DTC-101

# DIGITEN DTC101 Temperature Controller User Manual

Model: DTC-101 | Brand: DIGITEN

## 1. INTRODUCTION

The DIGITEN DTC101 is a versatile digital temperature controller designed for precise temperature management in various environments. It supports both heating and cooling applications, making it suitable for greenhouses, reptile enclosures, fermentation processes, and more. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance and longevity of your device.



Figure 1: DIGITEN DTC101 Temperature Controller

## 2. SAFETY INFORMATION

- Read all instructions carefully before use.
- Ensure the power supply matches the device's voltage requirements (110V/220V).
- Do not immerse the controller unit in water or expose it to excessive moisture. The sensor probe is waterproof, but the main unit is not.
- Keep out of reach of children.
- Do not disassemble or modify the device. Refer all servicing to qualified personnel.
- Always unplug the device from the power outlet before cleaning or performing maintenance.

## 3. PRODUCT COMPONENTS

The DIGITEN DTC101 package includes the following items:

- DTC101 Temperature Controller Unit

- NTC Temperature Sensor Probe
- User Manual (this document)



Figure 2: Controller unit with power and output cables



Figure 3: NTC Temperature Sensor Probe

## 4. SETUP

Follow these steps to set up your DIGITEN DTC101 Temperature Controller:

1. **Mounting:** The controller features an eyelet tab at the top for convenient hanging. Securely mount the controller in a suitable location, away from direct heat or moisture.



## Hold Design

**It supports hang from the eyelet tab, convenient for the installation of the devices.**

Figure 4: Controller with integrated hanging design

2. **Connect Sensor:** Plug the NTC temperature sensor probe into the designated port on the controller. Ensure it is firmly connected.
3. **Position Sensor:** Place the sensor probe in the area where you want to monitor and control the temperature. Ensure it is not directly exposed to heating or cooling elements, but rather measures the ambient temperature of the controlled environment.
4. **Connect Appliance:** Plug your heating or cooling appliance (e.g., heat mat, fan, heater) into the controlled outlet on the DTC101 unit.
5. **Power On:** Plug the DTC101 controller's power cord into a standard electrical outlet. The display will illuminate, showing the current temperature and default settings.

## 5. OPERATING INSTRUCTIONS

### 5.1 Display Overview

The LED display provides real-time information and settings:



Figure 5: Display with labeled indicators

- **Mode:** Indicates whether the controller is in Heating or Cooling mode.
- **PV (Process Value):** Displays the current temperature measured by the sensor.
- **RV (Run Value):** Displays the temperature at which the connected appliance will turn ON.
- **SV (Stop Value):** Displays the temperature at which the connected appliance will turn OFF.
- **RUN Indicator:** Illuminates when the appliance is actively running (heating or cooling).
- **STOP Indicator:** Illuminates when the appliance is off.

## 5.2 Temperature Unit Conversion (°C/°F)

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

- Press the **UP** and **DOWN** buttons simultaneously. The display will toggle between the two units.

## 5.3 Setting Heating Mode

In Heating mode, the appliance turns ON when the temperature drops below the RV and turns OFF when it reaches the

SV.

1. Press the **SET** button once. The RV (Run Value) will flash.
2. Use the **UP** or **DOWN** buttons to adjust the desired ON temperature (RV).
3. Press the **SET** button again. The SV (Stop Value) will flash.
4. Use the **UP** or **DOWN** buttons to adjust the desired OFF temperature (SV).
5. Press the **SET** button a third time to confirm and exit the setting mode.

## 5.4 Setting Cooling Mode

In Cooling mode, the appliance turns ON when the temperature rises above the RV and turns OFF when it reaches the SV.

1. Press the **SET** button once. The RV (Run Value) will flash.
2. Use the **UP** or **DOWN** buttons to adjust the desired ON temperature (RV).
3. Press the **SET** button again. The SV (Stop Value) will flash.
4. Use the **UP** or **DOWN** buttons to adjust the desired OFF temperature (SV).
5. Press the **SET** button a third time to confirm and exit the setting mode.

## 5.5 Operational Demonstration Video

Your browser does not support the video tag.

Official video demonstrating how to convert temperature units and set heating and cooling modes on the DIGITEN DTC101 Temperature Controller.

## 5.6 Alarms

The DTC101 features high and low-temperature alarms to protect your environment from extreme conditions. If the temperature exceeds the set high limit or falls below the set low limit, an alarm will sound. Refer to the full product manual for detailed instructions on setting alarm thresholds.

## 6. MAINTENANCE

- **Cleaning:** Wipe the controller unit with a soft, dry cloth. Do not use abrasive cleaners or immerse the unit in liquids.
- **Sensor Care:** Ensure the sensor probe is clean and free from debris for accurate readings.
- **Storage:** When not in use, store the controller in a cool, dry place, away from direct sunlight and extreme temperatures.

## 7. TROUBLESHOOTING

- **Display Not On:** Check if the power cord is securely plugged into a working outlet.
- **Appliance Not Responding:** Ensure the appliance is correctly plugged into the controller's output socket and that the controller's settings (RV/SV) are appropriate for the current temperature.
- **Inaccurate Temperature Reading:** Verify the sensor probe is properly connected and positioned correctly within the environment. Avoid placing the sensor directly on heating elements.
- **Alarm Sounds Continuously:** Check the current temperature against your set high and low alarm thresholds. Adjust settings if necessary or address the environmental condition causing the alarm.

## 8. SPECIFICATIONS

| Feature | Specification |
|---------|---------------|
|---------|---------------|

|                          |                                                   |
|--------------------------|---------------------------------------------------|
| Brand                    | DIGITEN                                           |
| Model Name               | DTC-101                                           |
| Product Dimensions       | 1.1"D x 5.39"W x 2.56"H                           |
| Controller Type          | Push Button                                       |
| Temperature Control Type | Cooling, Heating                                  |
| Connectivity Technology  | Wired                                             |
| Included Components      | DTC101 Temperature Controller, NTC sensor, manual |
| Power Source             | Corded Electric                                   |
| Voltage                  | 110 Volts, 220 Volts                              |
| Material                 | Plastic, Glass, Metal                             |
| Display Type             | Digital                                           |
| Mounting Type            | Wall Mount                                        |
| Item Weight              | 15.2 ounces                                       |

## 9. WARRANTY AND SUPPORT

DIGITEN provides a one-year warranty for any product issues. If you encounter problems or require assistance, please refer to the contact information provided with your purchase or visit the official DIGITEN website for support.

### 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

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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.

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