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> DIGITEN /

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Model: DTC151 | Brand: DIGITEN

INTRODUCTION

The DIGITEN DTC151 Digital Temperature Controller is designed to precisely regulate and maintain desired temperatures in various environments. It features both heating and cooling modes, a clear LED display, and a reliable sensor probe, making it suitable for applications such as greenhouses, reptile enclosures, aquariums, and more. This manual provides detailed instructions for the setup, operation, and maintenance of your DTC151 temperature controller.

SAFETY INFORMATION

- Ensure the power supply voltage matches the device's requirements (110V).
- 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.
- Always unplug the device from the power outlet before cleaning or performing any maintenance.
- Keep the device out of reach of children and pets.
- Do not exceed the maximum current rating of 15A for connected appliances.
- Ensure proper ventilation around the controller and connected devices to prevent overheating.

PRODUCT OVERVIEW

The DTC151 features a compact design with an integrated temperature sensor probe and two power outlets for connecting heating and cooling devices.



Figure 1: Main view of the DTC151 controller, showing the display, control buttons, temperature probe, and power outlets.



Figure 2: Close-up of the controller's front panel, highlighting the digital display and control buttons (SET, Up, Down).



Figure 3: The temperature controller showing the attached sensor probe, which is essential for accurate temperature readings.



Hook Design

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

Figure 4: The top of the controller features a convenient hook design for easy wall mounting or hanging, keeping cords tidy.

SETUP

1. **Placement:** Position the DTC151 controller in a dry, stable location, away from direct sunlight or extreme temperatures. Utilize the integrated hook for wall mounting if desired.
2. **Sensor Placement:** Place the temperature sensor probe in the area where you need to monitor and control the temperature. Ensure the probe is fully immersed in liquid if used in an aquarium, or positioned appropriately in air for other applications like greenhouses or reptile enclosures.
3. **Power Connection:** Plug the DTC151 controller into a standard 110V AC power outlet. The LED display will illuminate.
4. **Connect Appliances:**
 - For **Heating Mode:** Plug your heating device (e.g., heat mat, space heater) into the designated heating outlet on the controller.
 - For **Cooling Mode:** Plug your cooling device (e.g., fan, cooler) into the designated cooling outlet on the

controller.



Figure 5: Illustration of the DTC151 connected to various heating and cooling equipment, demonstrating its versatility.

OPERATING INSTRUCTIONS

Display Overview:

The LED display shows three main values:

- **PV (Process Value):** Current measured temperature by the sensor.
- **RV (Return Value):** The temperature at which the connected device will turn ON.
- **SV (Set Value):** The temperature at which the connected device will turn OFF.

1. Switching Temperature Units (°C/°F):

To switch between Celsius (°C) and Fahrenheit (°F), simultaneously press and hold the **UP** and **DOWN** buttons for a few seconds until the unit changes on the display.

2. Setting Heating Mode:

In heating mode, the device will turn on when the temperature drops to the RV (ON) value and turn off when it reaches the SV (OFF) value.

1. Press the **SET** button once. The PV value will start flashing.
2. Use the **UP** or **DOWN** buttons to adjust the SV (OFF) temperature.
3. Press the **SET** button again. The RV value will start flashing.
4. Use the **UP** or **DOWN** buttons to adjust the RV (ON) temperature.
5. Press the **SET** button a third time to confirm and save your settings.

Example for Heating Mode: If ON at 78°F and OFF at 83°F, the heater will activate when the temperature drops to 78°F

and deactivate when it reaches 83°F.

3. Setting Cooling Mode:

In cooling mode, the device will turn on when the temperature rises to the RV (ON) value and turn off when it reaches the SV (OFF) value.

- 1. Press the SET button once. The PV value will start flashing.
- 2. Use the UP or DOWN buttons to adjust the SV (OFF) temperature.
- 3. Press the SET button again. The RV value will start flashing.
- 4. Use the UP or DOWN buttons to adjust the RV (ON) temperature.
- 5. Press the SET button a third time to confirm and save your settings.

Example for Cooling Mode: If ON at 86°F and OFF at 82°F, the cooler will activate when the temperature rises to 86°F and deactivate when it drops to 82°F.

Video Demonstration:

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Video 1: This video demonstrates how to switch between Fahrenheit and Celsius, and how to set the ON/OFF temperatures for both heating and cooling modes on the DTC151 controller. It shows the process of adjusting the set values (SV) and return values (RV) for precise temperature control.

MAINTENANCE

- **Cleaning:** Regularly wipe the controller unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Sensor Care:** Keep the temperature sensor probe clean and free from debris. If used in water, periodically check for mineral buildup and gently clean if necessary.
- **Cable Inspection:** Periodically inspect the power cords and sensor cable for any signs of damage, fraying, or kinks. Replace if damaged.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is off / No power.	No power to the outlet; loose connection; device malfunction.	Check the power outlet with another appliance. Ensure the controller is securely plugged in. If problem persists, contact support.
Connected device not turning ON/OFF.	Incorrect temperature settings (SV/RV); device not plugged into correct outlet; faulty appliance.	Verify SV and RV settings are appropriate for heating/cooling mode. Ensure appliance is plugged into the correct outlet (heating/cooling). Test appliance directly in a wall outlet.
Inaccurate temperature reading.	Sensor probe dirty or improperly placed; sensor damaged.	Clean the sensor probe. Ensure the probe is correctly positioned to measure the desired temperature. If suspected damage, contact support.
Display turns off quickly.	This is a power-saving feature.	Press any button to reactivate the display. This is normal operation.

SPECIFICATIONS

Feature	Detail
Brand	DIGITEN
Model Number	DTC151
Voltage	110 Volts
Wattage	1650 Watts (15A)
Temperature Control Range	-40°F to 248°F (-40°C to 120°C)
Controller Type	Push Button
Display Type	LCD with Backlight
Special Feature	Programmable, High/Low Temperature Alarm
Material	Silicone
Product Dimensions	1.1 x 2.56 x 5.39 inches
Item Weight	1.06 pounds

WARRANTY AND SUPPORT

DIGITEN provides a one-year warranty for any product quality problems. For technical support, troubleshooting assistance, or warranty claims, please contact DIGITEN customer service through their official channels or the retailer where the product was purchased.

Refer to the official DIGITEN website or your purchase documentation for the most up-to-date contact information.

ASK A QUESTION ABOUT THIS MANUAL

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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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