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DIGITEN WTC100

DIGITEN WTC100 Wireless Thermostat Outlet User Manual

Model: WTC100 | Brand: DIGITEN

1. Introduction

The DIGITEN WTC100 Wireless Thermostat Outlet is a versatile digital temperature controller designed for both cooling and heating applications. It features a remote control for convenient programming and a built-in temperature sensor for accurate ambient temperature detection. This device is ideal for maintaining desired temperatures in various environments such as greenhouses, mushroom houses, reptile breeding setups, wine cellars, and more, helping to save energy and ensure comfort.

2. Product Components

The DIGITEN WTC100 system consists of two main components:

- **Thermostat Outlet:** The plug-in unit that connects to your appliance and receives commands from the remote control.
- **Remote Control:** The handheld unit with an LCD display and buttons for setting temperature, modes, and alarms. It also contains the built-in temperature sensor.



Figure 2.1: Overview of the DIGITEN WTC100 Wireless Thermostat Outlet and its Remote Control.



Figure 2.2: The plug-in Thermostat Outlet unit.



Figure 2.3: The Remote Control unit with its LCD display and control buttons.



Figure 2.4: Rear view of the Thermostat Outlet, displaying model and electrical specifications.

3. Setup

1. **Install Batteries in Remote:** Open the battery compartment on the back of the remote control and insert 2 AAA batteries (not included), ensuring correct polarity.
2. **Plug in Thermostat Outlet:** Plug the Thermostat Outlet unit into a standard 100-240VAC wall socket.
3. **Connect Appliance:** Plug your heating or cooling appliance into the outlet on the front of the Thermostat Outlet unit. Ensure the appliance's power requirements do not exceed the thermostat's maximum load (15A, 1650W).
4. **Position Remote Control:** Place the remote control in an ideal location where it can accurately measure the ambient temperature of the area you wish to control. Avoid placing it near heat sources, direct sunlight, or drafts, as this can affect temperature readings. The remote and outlet are pre-paired for immediate use.

4. Operating Instructions

The remote control allows you to easily program and monitor your desired temperature settings.

4.1. Basic Operation

- **Power On/Off:** Press the power button on the remote control to turn the system on or off.
- **Switch Temperature Units (°C/°F):** With the remote on, press and hold the 'SET' button for approximately 3 seconds to toggle between Celsius (°C) and Fahrenheit (°F).

4.2. Setting Temperature and Mode

The thermostat operates with two main temperature settings: a 'Run' temperature and a 'Stop' temperature. The mode (heating or cooling) determines how these temperatures function.

1. **Enter Setting Mode:** Press the 'SET' button once. The 'Run' temperature will start flashing.
2. **Adjust 'Run' Temperature:** Use the 'Up' (∧) or 'Down' (∨) arrows to set your desired 'Run' temperature. This is the temperature at which your appliance will activate (e.g., heater turns on, cooler turns off).
3. **Adjust 'Stop' Temperature:** Press 'SET' again. The 'Stop' temperature will flash. Use the 'Up' (∧) or 'Down' (∨) arrows to set your desired 'Stop' temperature. This is the temperature at which your appliance will deactivate (e.g., heater turns off, cooler turns on).
4. **Select Mode (Heating/Cooling):** Press 'SET' a third time. The mode indicator (sun for heating, snowflake for cooling) will flash. Use the 'Up' (∧) or 'Down' (∨) arrows to select the desired operating mode.
5. **Confirm Settings:** Press 'SET' a fourth time or wait a few seconds for the settings to be saved automatically.



Figure 4.1: Illustration of Cooling Mode and Heating Mode functionality.

4.3. High/Low Temperature Alarms

The WTC100 allows you to set high and low temperature alarms to alert you if the temperature goes outside your desired range.

1. **Enter Alarm Setting Mode:** Press the 'M' button once. The 'Low' alarm temperature will flash.
2. **Set Low Alarm:** Use the 'Up' (∧) or 'Down' (∨) arrows to set the desired low temperature threshold. If the ambient temperature drops below this value, the alarm will sound. To disable the low alarm, set it to 'OFF' using the arrows.
3. **Set High Alarm:** Press 'M' again. The 'High' alarm temperature will flash. Use the 'Up' (∧) or 'Down' (∨)

arrows to set the desired high temperature threshold. If the ambient temperature rises above this value, the alarm will sound. To disable the high alarm, set it to 'OFF' using the arrows.

4. **Confirm Settings:** Press 'M' a third time or wait a few seconds for the settings to be saved.



Figure 4.2: Setting High and Low temperature alarms on the remote control.

4.4. Usage Examples



Figure 4.3: Controlling a fan for cooling purposes.



Figure 4.4: Managing an air conditioning unit for precise temperature control.



Figure 4.5: Operating a space heater to maintain a comfortable temperature.

5. Maintenance

- **Cleaning:** Wipe the thermostat outlet and remote control with a soft, dry cloth. Do not use abrasive cleaners or immerse in water.
- **Battery Replacement:** Replace the AAA batteries in the remote control when the low battery indicator appears on the display or if the remote's responsiveness decreases. Ensure proper disposal of old batteries.

6. Troubleshooting

Problem	Possible Cause	Solution
Thermostat not responding to remote.	Low batteries in remote; remote out of range; interference.	Replace remote batteries. Ensure remote is within 50-100m (open area) of the outlet. Reduce potential interference from other wireless devices.
Inaccurate temperature readings.	Remote placed in an unsuitable location (e.g., direct sunlight, near heat source/draft).	Relocate the remote control to an area that accurately represents the ambient temperature you wish to control.
Appliance not turning on/off at set temperature.	Incorrect mode (heating/cooling) selected; 'Run'/'Stop' temperatures set incorrectly.	Verify the correct mode is selected. Re-check and adjust 'Run' and 'Stop' temperatures as needed.
Alarm constantly beeping or not silencing.	Alarm thresholds are met; alarm not properly disabled.	Check the current temperature against your set high/low alarm thresholds. To permanently disable an alarm, set its value to 'OFF' in the alarm setting mode.
Outlet unit feels hot or shows signs of melting.	Overload due to appliance exceeding maximum wattage/amperage.	**Immediately unplug the appliance and the thermostat.** Do not use the thermostat with appliances that exceed 15A or 1650W. This indicates a serious safety hazard. Contact customer support.

7. Specifications

Feature	Specification
Model Name	WTC100
Brand	DIGITEN
Power Source	100-240VAC
Max Load	15A / 1650W
Temperature Control Type	Remote
Connectivity Protocol	Wireless (RF)
Communication Range	50-100m (open area)
Display Type	LCD with Backlight
Temperature Sensor	Built-in (in remote control)
Special Features	High/Low Temperature Alarm, Multi-Receiver Control

Feature	Specification
Remote Battery Type	2 x AAA batteries (not included)

8. Warranty and Support

DIGITEN provides a one-year warranty for any product quality problems. If you encounter any issues or require assistance with your WTC100 Wireless Thermostat Outlet, please contact DIGITEN customer support through the retailer's platform or the official DIGITEN website for prompt assistance.

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