DIGITEN WTC100

DIGITEN WTC100 Wireless Thermostat Outlet Instruction Manual

Model: WTC100

PRODUCT OVERVIEW

The DIGITEN WTC100 is a wireless thermostat outlet designed to control heating or cooling devices based on precise temperature measurements from a remote sensor. This plug-and-play system offers convenience and flexibility for various applications, including greenhouses, homes, and other temperature-sensitive environments.

Key features include:

- Wireless remote control with integrated temperature sensor.
- Programmable RUN and STOP temperature settings.
- Clear LCD display with backlight for easy reading.
- Switchable temperature units (°C/°F).
- Memory function for settings retention during power outages.
- Flame-retardant PC material construction.
- Maximum load capacity of 15A 1650W.

PACKAGE CONTENTS

- 1 x DIGITEN WTC100 Wireless Thermostat Remote Control
- 1 x DIGITEN WTC100 Wireless Thermostat Outlet Receiver
- 1 x User Manual (this document)

SETUP

1. Component Identification

Familiarize yourself with the main components: the remote control unit and the plug-in receiver unit.

Figure 1: DIGITEN WTC100 Wireless Thermostat Outlet and Remote Control. The image shows the remote control unit on the left with an LCD display and control buttons, and the plug-in receiver unit on the right with a power button and an electrical outlet.

Figure 2: Back view of the DIGITEN WTC100 Remote and Receiver. The remote control's back shows a battery compartment and a wall-mounting slot. The receiver's back shows the electrical prongs and product information label.

2. Battery Installation (Remote Control)

1. Locate the battery compartment on the back of the remote control unit.
2. Open the compartment cover.
3. Insert the required batteries (typically AAA, check markings inside the compartment) ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

3. Initial Power-Up and Placement

1. Plug the receiver unit into a standard electrical outlet. The power indicator on the receiver may light up.
2. The remote control unit should power on automatically once batteries are installed.
3. Place the remote control unit in the area where you wish to monitor and control the temperature. Ensure it is within the wireless range (50-100m) of the receiver and not obstructed by large metal objects. The remote contains the temperature sensor.

Figure 3: DIGITEN WTC100 Remote Control highlighting the internal temperature sensor. The image shows the remote control's display with temperature readings and text indicating that the temperature sensor is inside the remote control.

OPERATING INSTRUCTIONS

1. Understanding the Display and Buttons

The remote control features an LCD display and several buttons for operation:

- **LCD Display:** Shows current temperature, RUN temperature, STOP temperature, and operating mode.
- **SET Button:** Enters programming mode.
- **Up/Down Arrows:** Adjust temperature values and navigate settings.
- **M Button:** Mode selection or confirmation.

Figure 4: Overview of DIGITEN WTC100 Wireless Thermostat features. This image illustrates key features such as LCD with green backlight, plug-and-play design, energy saving, RF technology, and °C/°F switchable units.

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

To switch between Celsius and Fahrenheit:

1. Press and hold the 'M' button for a few seconds until the unit changes.
2. Release the button. The display will show the new temperature unit.

3. Setting RUN and STOP Temperatures (Heating/Cooling Modes)

The thermostat operates by turning a connected device ON when the temperature reaches the RUN value and OFF when it reaches the STOP value. The behavior depends on whether you configure it for heating or cooling.

For Heating Devices:

Connect your heating device (e.g., space heater) to the receiver outlet. In heating mode, the device turns ON when the ambient temperature falls below the RUN setting and turns OFF when it reaches the STOP setting. Therefore, the RUN temperature should be lower than the STOP temperature.

1. Press the 'SET' button once. The RUN temperature will flash.
2. Use the Up/Down arrows to set your desired RUN temperature (e.g., 22°C / 72°F). This is the

temperature at which the heater will activate.

3. Press 'SET' again. The STOP temperature will flash.

4. Use the Up/Down arrows to set your desired STOP temperature (e.g., 26°C / 79°F). This is the temperature at which the heater will deactivate.

5. Press 'SET' a third time to confirm and exit programming mode.

Example: If you set RUN to 22°C and STOP to 26°C, the heater will turn on when the room temperature drops to 22°C and turn off when it reaches 26°C.

For Cooling Devices:

Connect your cooling device (e.g., air conditioner) to the receiver outlet. In cooling mode, the device turns ON when the ambient temperature rises above the RUN setting and turns OFF when it reaches the STOP setting. Therefore, the RUN temperature should be higher than the STOP temperature.

1. Press the 'SET' button once. The RUN temperature will flash.

2. Use the Up/Down arrows to set your desired RUN temperature (e.g., 26°C / 79°F). This is the temperature at which the air conditioner will activate.

3. Press 'SET' again. The STOP temperature will flash.

4. Use the Up/Down arrows to set your desired STOP temperature (e.g., 22°C / 72°F). This is the temperature at which the air conditioner will deactivate.

5. Press 'SET' a third time to confirm and exit programming mode.

Example: If you set RUN to 26°C and STOP to 22°C, the air conditioner will turn on when the room temperature rises to 26°C and turn off when it reaches 22°C.

Figure 5: Illustration of setting RUN and STOP temperatures for both cooling and heating devices. The image shows two remote displays side-by-side, demonstrating how to set RUN > STOP for cooling and RUN < STOP for heating.

Figure 6: Visual representation of the thermostat switching between cooling and heating modes. The image displays two remote screens, one showing cooling settings (RUN 72°F, STOP 80°F) and the other heating settings (RUN 76°F, STOP 84°F), with an arrow indicating the switchable functionality.

4. Backlight Operation

The LCD display features a backlight for improved visibility in low-light conditions. The backlight typically activates automatically when any button is pressed and remains on for a short period before dimming.

Figure 7: The DIGITEN WTC100 remote control with its green backlight illuminated, shown in a dimly lit room next to a sleeping baby. This demonstrates its readability at night.

MAINTENANCE

1. Cleaning

To maintain optimal performance and appearance:

- Wipe the surfaces of both the remote control and receiver with a soft, dry cloth.
- Do not use abrasive cleaners, solvents, or chemical sprays, as these can damage the device.
- Ensure no liquid enters the device openings.

2. Battery Replacement (Remote Control)

When the remote control's display becomes dim or unresponsive, it's time to replace the batteries. Refer to the "Battery Installation" section under Setup for detailed steps.

3. Storage

If storing the device for an extended period, remove the batteries from the remote control to prevent leakage and potential damage.

TROUBLESHOOTING

If you encounter issues with your DIGITEN WTC100, please refer to the following common problems and solutions:

1. Remote Control Display is Blank or Dim

- **Check Batteries:** Ensure batteries are correctly installed and not depleted. Replace with fresh batteries if necessary.
- **Battery Polarity:** Verify that the batteries are inserted with the correct positive (+) and negative (-) orientation.

2. Receiver Unit Not Responding to Remote Control

- **Range:** Ensure the remote control is within the effective wireless range (50-100m) of the receiver.
- **Obstructions:** Large metal objects, thick walls, or other electronic devices can interfere with the wireless signal. Try repositioning the remote or receiver.
- **Power to Receiver:** Confirm the receiver is securely plugged into a live electrical outlet.
- **Re-pairing:** Although typically plug-and-play, if communication issues persist, consult the manufacturer's specific instructions for re-pairing the remote and receiver if such a function exists (not explicitly mentioned in provided data, but a common troubleshooting step).

3. Inaccurate Temperature Readings

- **Sensor Placement:** The remote control contains the temperature sensor. Ensure it is placed in an area that accurately reflects the desired ambient temperature, away from direct sunlight, drafts, or heat sources.
- **Calibration:** The device does not appear to have a user-adjustable calibration feature. If readings are consistently off, consider the offset and adjust your RUN/STOP settings accordingly.

4. Device Not Turning On/Off at Set Temperatures

- **RUN/STOP Settings:** Double-check your RUN and STOP temperature settings. Ensure they are correctly configured for either heating (RUN < STOP) or cooling (RUN > STOP) as intended.

- **Connected Device:** Verify that the heating or cooling device plugged into the receiver is functioning correctly and is switched ON.

Figure 8: Display showing alarm settings for the DIGITEN WTC100. The image illustrates how low and high temperature alarms are displayed when active or inactive.

SPECIFICATIONS

Feature	Specification
Brand	DIGITEN
Model Name	WTC100NEW
Controller Type	Remote Control
Special Feature	Portable, Programmable
Specific Uses	Air Conditioner, Boiler, Electric Baseboard Heater, Heat Pump
Temperature Control Type	Cooling, Heating
Connectivity Technology	RF
Power Source	Battery Powered (Remote)
Voltage	120 Volts (AC)
Material	Acrylonitrile Butadiene Styrene (ABS)
Display Type	LCD
Backlight	Yes
Wattage (Max Load)	1650 watts

Feature	Specification
Item Weight	7.8 ounces
Package Dimensions	4.69 x 4.13 x 2.56 inches

WARRANTY INFORMATION

DIGITEN provides a one-year warranty for any product quality issues. Please retain your proof of purchase for warranty claims.
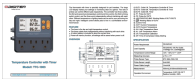
CUSTOMER SUPPORT

For further assistance, technical support, or warranty inquiries, please contact DIGITEN customer service through the retailer where the product was purchased or visit the official DIGITEN website.
You can also visit the DIGITEN Store on Amazon for more information.

Related Documents - WTC100

	DIGITEN WTC100/WTC200 Wireless Thermostat User Manual User manual for the DIGITEN WTC100 and WTC200 wireless thermostats, providing setup, operation, specifications, and troubleshooting information for temperature control in cooling and heating applications.
	DIGITEN Wireless Thermostat WTC100 WTC200 User Manual Comprehensive user manual for the DIGITEN Wireless Thermostat models WTC100 and WTC200, covering features, specifications, setup, operation, troubleshooting, and warranty.
	DIGITEN WTC100/WTC200 Wireless Thermostat User Manual Comprehensive user manual for the DIGITEN WTC100 and WTC200 wireless thermostats, detailing features, setup, operation, specifications, and troubleshooting for efficient temperature control.

	Digiten DTC-101 / DTC-151 Digital Temperature Controller User Manual and Specifications 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.
	DIGITEN DHTC-1011 Temperature and Humidity Controller User Manual User manual for the DIGITEN DHTC-1011 Temperature and Humidity Controller, detailing its features, specifications, setting instructions, and troubleshooting.
	Digiten TTC-1003 Temperature Controller with Timer User Manual 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.