DEWENWILS HTCS02A

DEWENWILS Digital Temperature Controller User Manual

Model: HTCS02A

Introduction

This manual provides comprehensive instructions for the DEWENWILS Digital Temperature Controller (Model HTCS02A). This device is designed for precise temperature management in various applications, offering both heating and cooling control, along with advanced timing functions. Please read this manual thoroughly before operation to ensure safe and efficient use.



Image: The DEWENWILS Digital Temperature Controller, showing its display, control buttons, power outlet, and temperature probe.

Safety Information

Always adhere to the following safety precautions to prevent injury or damage to the device:

- Ensure the power supply matches the device's specifications (120 Volts).
- Do not exceed the maximum load capacity of 15A/1800W.

- Keep the device and its probe away from water or excessive moisture unless specifically designed for such environments.
- Do not disassemble or attempt to repair the device. Refer to qualified personnel for service.
- Unplug the device from the power outlet before cleaning or when not in use for extended periods.
- Use only in well-ventilated areas.

Product Overview and Features

The DEWENWILS Digital Temperature Controller is equipped with a VA display and intuitive controls for precise temperature management.

Key Features:

- **Powerful Performance:** 15A/1800W high-power output for stable operation of high-power heaters.
- **Clear VA Display:** Self-illuminating font technology provides clear readings even in dim or dark environments.
- **Wide Temperature Control Range:** -40℉ to 210℉ with 0.1℉ precision, supporting both heating and cooling modes.
- **Versatile Applications:** Suitable for incubators, reptile rooms, greenhouses, home brewing, and more.
- **Convenient Functions:** Power memory, temperature calibration, Cyclic Timing, Countdown ON/OFF modes.



Image: Diagram illustrating the wide temperature control range of the digital temperature controller, from -40°F to 210°F.



Image: The VA screen displaying illuminated fonts, highlighting its readability in dark environments.

Setup

1. **Unpack:** Carefully remove the temperature controller and its probe from the packaging.
2. **Connect Probe:** Insert the temperature probe into the designated port on the side of the controller.
3. **Placement:** Position the temperature probe in the area where you wish to monitor and control the temperature. Ensure it is not directly exposed to heat sources or drafts that could skew readings.
4. **Plug In:** Plug the temperature controller into a standard 120V AC power outlet. The VA display will illuminate.
5. **Connect Appliance:** Plug your heating or cooling appliance (e.g., heater, fan, refrigerator) into the outlet on the front of the temperature controller.

Operating Instructions

Button Functions:



Image: A detailed diagram labeling each button on the DEWENWILS Digital Temperature Controller: SET, FUN, UP, and DOWN, along with display indicators for Measured Temperature, Start Temperature, and Stop Temperature.

- **SET Button:** Used to enter and confirm settings. Press and hold to enter parameter setting mode.
- **FUN Button:** Used to switch between different functions or modes (e.g., temperature control, timing modes).
- **UP Button:** Increases values or navigates up through options.
- **DOWN Button:** Decreases values or navigates down through options.

Setting Temperature Control (Heating/Cooling):

1. Press and hold the **SET** button for 3 seconds to enter the parameter setting mode.
2. Use **UP** or **DOWN** to select the desired parameter (e.g., Start Temperature, Stop Temperature).
3. Press **SET** to confirm your selection.
4. Use **UP** or **DOWN** to adjust the value.
5. Press **SET** again to save the adjusted value and move to the next parameter, or press **FUN** to exit.
6. The controller will automatically switch between heating and cooling based on your set start and stop temperatures.

Timing Modes:

The controller supports various timing functions for advanced control.

- **Cyclic Timing Mode (F01):** Allows setting timed ON or OFF periods.



Image: Display showing "F01" for Cyclic Timing Mode, with settings for ON and OFF durations.

- **Countdown ON Mode (F02):** The device will turn ON at the end of a set countdown period.



Image: Display showing "F02" for Countdown ON Mode, with a countdown timer.

- **Countdown OFF Mode (F03):** The device will turn OFF at the end of a set countdown period.



Image: Display showing "F03" for Countdown OFF Mode, with a countdown timer.

- **Countdown ON/OFF Mode (F04):** The device will turn ON after the first countdown, then OFF after a second countdown.



Image: Display showing "F04" for Countdown ON/OFF Mode, with two separate countdown timers.

To access timing modes, press the **FUN** button repeatedly until the desired mode (F01-F04) is displayed. Then use the **SET**, **UP**, and **DOWN** buttons to configure the timing parameters.

Temperature Calibration:

If you notice a discrepancy between the controller's measured temperature and a known accurate thermometer, you can calibrate the device:

1. Enter the parameter setting mode (press and hold **SET**).
2. Navigate to the temperature calibration setting (refer to the full manual for specific parameter code, usually indicated by 'CA' or similar).
3. Adjust the offset value using **UP** or **DOWN** until the displayed temperature matches your reference thermometer.
4. Save the setting by pressing **SET**.

Versatile Applications

The DEWENWILS Digital Temperature Controller is highly adaptable for various environments requiring precise temperature regulation.



Image: Collage showing various applications: an aquarium, home brewing setup, a reptile enclosure, and an attic fan, demonstrating the controller's versatility.

- **Greenhouses:** Maintain optimal growing temperatures for plants.

- **Incubators:** Ensure stable temperatures for hatching eggs.
- **Reptile Habitats:** Create precise thermal gradients for reptiles.
- **Home Brewing:** Control fermentation temperatures for consistent results.
- **Well Houses:** Prevent pipes from freezing in cold weather.
- **Aquariums:** Regulate water temperature for aquatic life.

Maintenance

To ensure the longevity and accurate performance of your DEWENWILS Digital Temperature Controller, follow these maintenance guidelines:

- **Cleaning:** Disconnect the device from power before cleaning. Wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners or immerse the device in water.
- **Probe Care:** Keep the temperature probe clean and free from debris. Avoid bending or kinking the probe cable excessively.
- **Storage:** When not in use, store the controller in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Regular Checks:** Periodically check the power cord and probe cable for any signs of damage. If damage is found, discontinue use and contact support.

Troubleshooting

Problem	Possible Cause	Solution
Display is off.	No power.	Ensure the controller is securely plugged into a live outlet. Check the power source.
Temperature reading is inaccurate.	Probe not properly placed or needs calibration.	Reposition the probe. Perform temperature calibration as described in the Operating Instructions.
Appliance not turning ON/OFF as expected.	Incorrect temperature settings or timing mode.	Verify the Start and Stop temperatures. Check the selected timing mode (F01-F04) and its settings. Ensure the appliance is properly plugged into the controller.
"Fun" button instead of "Run" (as noted in a review).	Typographical error in manufacturing.	This is a known cosmetic issue and does not affect functionality. Treat the "Fun" button as the "Run" or function button.

Specifications

Feature	Detail
Brand	DEWENWILS
Model Number	HTCS02A
Product Dimensions	1.53"D x 2.26"W x 4.14"H
Controller Type	Push Button
Color	White
Temperature Control Type	Heating/Cooling
Temperature Range	-40℉ to 210℉
Voltage	120 Volts
Wattage	1800 watts
Max Current	15 Amps
Display Type	VA
Control Method	Touch / Button Control
Backlight	Yes
Item Weight	5.3 ounces



Image: The temperature controller plugged into an outlet, illustrating its compact, space-saving design and key dimensions (4.14"H x 2.26"W x 1.53"D).

Warranty and Support

For warranty information and technical support, please contact DEWENWILS customer service. Refer to the product packaging or the official DEWENWILS website for the most current contact details.
Website: DEWENWILS Official Store

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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.

Submit question