DEWENWILS HTCS02B1

DEWENWILS Digital Temperature Controller

Model: HTCS02B1

Introduction

This instruction manual provides detailed information on the setup, operation, and maintenance of your DEWENWILS Digital Temperature Controller. Designed for precise temperature management, this device is ideal for various applications including greenhouses, incubators, reptile rooms, and home brewing. Please read this manual thoroughly before use to ensure safe and optimal performance.

Product Overview

Front view of the DEWENWILS Digital Temperature Controller, showing the VA display, control buttons, and power outlet.

Detailed view of the controller highlighting the 'SET', 'FUN', 'UP', and 'DOWN' buttons, along with the measured, start, and stop temperature displays.

Key Features:

- **Powerful Performance & Safety:** 15A high-power output, supporting up to 1800W heating capacity, designed to prevent overload.
- **Clear VA Display:** Advanced VA display screen with self-illuminating font technology for clear readings in any lighting condition.
- **Wide Range Temperature Control:** Combines heating and cooling modes, with a range from -40℉ to 210℉ and 0.1℉ precision.

- **Versatile Applications:** Suitable for incubators, reptile rooms, greenhouses, home brewing, and maintaining constant indoor temperatures.
- **Convenient & Efficient:** Features power memory, temperature calibration, and multiple timing modes (Cyclic Timing, Countdown ON/OFF).

Setup

1. **Unpack the Device:** Carefully remove the temperature controller and its accessories from the packaging.
2. **Connect the Sensor:** Plug the temperature probe into the designated port on the side of the controller. Ensure it is securely connected.
3. **Placement of Sensor:** Position the temperature probe in the environment 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 into Power Outlet:** Insert the controller's plug 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) into the power outlet on the front of the temperature controller.

The temperature controller plugged into a wall outlet, illustrating its compact size and the length of the temperature probe cable.

Operating Instructions

Setting Temperature Parameters:

The controller allows you to set a 'Start Temperature' (ON) and a 'Stop Temperature' (OFF) to maintain your desired range.

1. Press the **SET** button once. The 'Start Temperature' (ON) value will begin to flash.
2. Use the **UP** or **DOWN** buttons to adjust the desired 'Start Temperature'.

3. Press the **SET** button again. The 'Stop Temperature' (OFF) value will begin to flash.
4. Use the **UP** or **DOWN** buttons to adjust the desired 'Stop Temperature'.
5. Press the **SET** button a third time to confirm your settings and exit the temperature setting mode.

The device will automatically switch between heating and cooling modes based on the set temperatures and the measured temperature. If the measured temperature falls below the 'Start Temperature', the connected appliance will activate (heating mode). If it rises above the 'Stop Temperature', the appliance will deactivate (cooling mode).

Display showing measured, start, and stop temperatures, illustrating the wide control range from -40°F to 210°F.

Timing Functions (FUN Button):

Press the **FUN** button to cycle through different timing modes (F01-F04). Press **SET** to enter the setting for each mode, and **UP**/**DOWN** to adjust values.

F01: Cyclic Timing Mode

This mode allows the device to cycle between ON and OFF states for set durations. Ideal for applications requiring periodic operation.

Display showing settings for Cyclic Timing Mode (F01), where ON and OFF durations can be configured.

F02: Countdown ON Mode

The device will remain OFF for a set countdown period, then turn ON at the end of the countdown.

Display showing settings for Countdown ON Mode (F02), where a countdown period is set before the device turns ON.

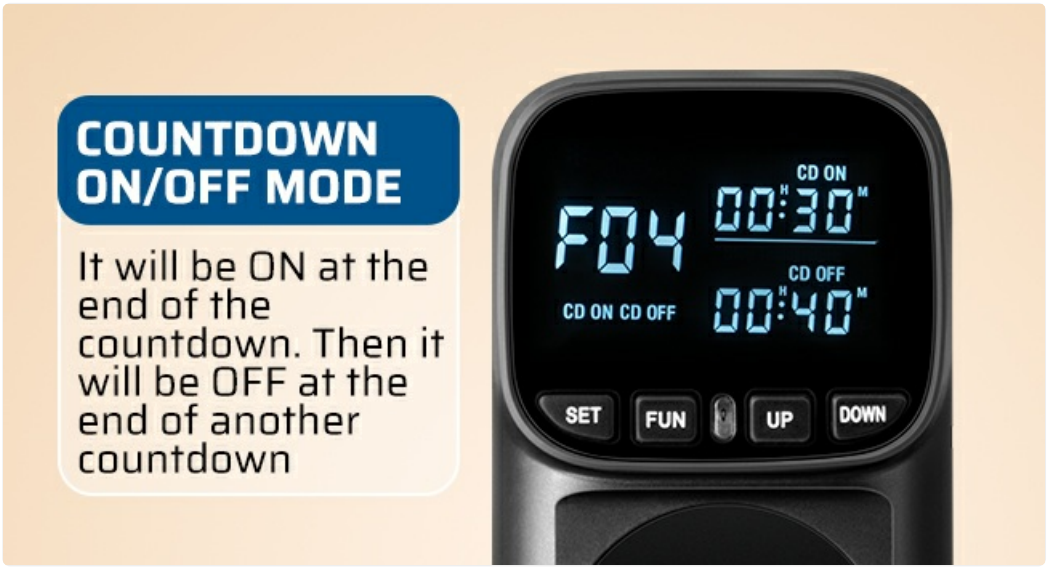
F03: Countdown OFF Mode

The device will remain ON for a set countdown period, then turn OFF at the end of the countdown.

Display showing settings for Countdown OFF Mode (F03), where a countdown period is set before the device turns OFF.

F04: Countdown ON/OFF Mode

The device will turn ON after an initial countdown, then turn OFF after a subsequent countdown period.



Display showing settings for Countdown ON/OFF Mode (F04), allowing for sequential ON and OFF countdowns.

Temperature Calibration:

If you notice a discrepancy between the controller's measured temperature and a known accurate thermometer, you can calibrate the device. Consult the full product manual or manufacturer's website for detailed calibration steps.

Maintenance

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or immerse the unit in water.
- **Sensor Care:** Ensure the temperature probe is kept clean and free from debris. Avoid bending or damaging the probe cable.
- **Storage:** When not in use, store the controller in a cool, dry place away from direct sunlight and extreme temperatures.

Troubleshooting

Problem	Possible Cause	Solution
Display is blank.	No power or power outage.	Check power connection. Ensure the outlet is functional.
Temperature reading is inaccurate.	Sensor dirty or damaged; needs calibration.	Clean the sensor. Perform temperature calibration as per advanced instructions. Replace sensor if damaged.
Appliance not turning ON/OFF as expected.	Incorrect temperature settings; timing mode active; appliance malfunction.	Verify 'Start' and 'Stop' temperature settings. Check active timing mode. Test the connected appliance directly.
Error message on display.	Sensor fault or internal error.	Unplug the device, wait 30 seconds, then plug it back in. If the error persists, contact customer support.

Specifications

Attribute	Value
Brand	DEWENWILS
Product Dimensions	1.53"D x 2.26"W x 4.14"H
Controller Type	Push Button
Special Feature	Cyclic timing; Countdown ON; Countdown OFF; Countdown ON/OFF mode, Power memory; Temperature calibration
Specific Uses For Product	Air Conditioner, Electric Baseboard Heater, Heat Pump (and other applications like greenhouse, incubator, reptile, home brewing)
Temperature Control Type	Heating/Cooling
Included Components	1 controller
Voltage	120 Volts
Control Method	Touch
Style	Black
Wattage	1800 watts
Manufacturer	Dewenwils
Item Weight	5.9 ounces
Item model number	HTCS02B1
Temperature Range	-40℉ to 210℉

Attribute	Value
Precision	0.1℉

Warranty and Support

For warranty information, technical support, or any inquiries regarding your DEWENWILS Digital Temperature Controller, please contact the manufacturer directly through their official website or the contact information provided with your product packaging.
You can also visit the DEWENWILS Store on Amazon for more product information and support resources.