Hasaller DTC-2210

Hasaller DTC-2210 WiFi Wireless Temperature Controller User Manual

Model: DTC-2210 | Brand: Hasaller

1. Introduction

Thank you for choosing the Hasaller DTC-2210 WiFi Wireless Temperature Controller. This device provides precise and convenient temperature control for various applications, featuring wireless connectivity for remote monitoring and adjustment. This manual will guide you through the setup, operation, and maintenance of your new temperature controller.

2. Product Overview

The DTC-2210 is designed for reliable temperature regulation, offering both heating and cooling output capabilities. It features a clear digital display, intuitive controls, and WiFi connectivity for integration with smart home systems.

2.1. Components

- **Main Controller Unit:** Features a digital display, control buttons, and connection ports.
- **Temperature Sensor Cable:** Used to measure ambient or target temperature. The DTC2201 and DTC1201 refer to different sensor cable options.
- **WiFi Antenna:** For wireless communication with your network.

2.2. Device Layout

Image 1: Overview of the Hasaller DTC-2210 Temperature Controller, showing the main unit, detachable WiFi antenna, and the wired temperature sensor.

Image 2: Front view of the controller, highlighting the digital display and control buttons. The display shows current temperature and status indicators for cooling, heating, and network connectivity.

Image 3: Rear view of the controller, showing the wiring terminals for power input, heating output, and cooling output. This is where external devices are connected.

PRODUCT DETAILS

Show product details

Image 4: Close-up view of the sensor input port, where the temperature sensor cable is connected to the main unit.

3. Setup

3.1. Physical Installation

1. **Mounting:** Secure the controller unit in a suitable location using the integrated mounting tabs. Ensure it is away from direct heat sources or extreme cold.
2. **Connect Antenna:** Screw the provided WiFi antenna onto the designated port on the controller.
3. **Connect Sensor:** Plug the temperature sensor cable (DTC2201 or DTC1201) into the sensor input port on the controller. Position the sensor in the area where temperature measurement is required.
4. **Wiring Power and Outputs:**
    - Connect the main power supply (230V AC) to the designated power input terminals.
    - Connect your heating device to the "Heat" output terminals.
    - Connect your cooling device to the "Cool" output terminals.

Warning: Ensure all power is disconnected before performing any wiring. If you are unsure about electrical wiring, consult a qualified electrician.

3.2. App Installation and WiFi Connection

1. **Download App:** Download the "Tuya Smart" application from your smartphone's app store (iOS or Android).
2. **Register/Log In:** Open the Tuya Smart app and register for a new account or log in if you already have one.
3. **Add Device:**
    - Ensure your DTC-2210 controller is powered on.
    - In the Tuya Smart app, tap the "+" icon to add a new device.
    - Select "Temperature Controller" or search for "DTC-2210".
    - Follow the on-screen instructions in the app to connect the controller to your 2.4GHz WiFi network. This typically involves putting the device into pairing mode (refer to the device's display or a quick start guide for specific button presses).
    - Once connected, the "Net" indicator on the controller's display will illuminate or stop blinking.

4. Operating Instructions

4.1. Display Overview

The digital display shows the current temperature and various status indicators:

- **Current Temperature:** The large red digits indicate the real-time temperature measured by the sensor.
- **"Cool" Indicator:** Illuminates when the cooling output is active.
- **"Heat" Indicator:** Illuminates when the heating output is active.
- **"Set" Indicator:** Appears when adjusting the target temperature.
- **"Net" Indicator:** Shows the status of the WiFi connection. Solid indicates connected, blinking indicates pairing mode or connection issue.
- **"Data" Indicator:** May indicate data transmission or logging.

4.2. Basic Operation (On-Device)

- **Power On/Off:** Press and hold the **Power button** (usually marked with a circle and vertical line) to turn the device on or off.
- **Set Temperature:**
    a. Press the **'S' (Set) button** once. The "Set" indicator will appear, and the target temperature will blink.
    b. Use the **Up (▲)** and **Down (▼)** buttons to adjust the target temperature.
    c. Press the **'S' button** again or wait a few seconds for the setting to be saved.
- **Mode Selection:** The controller automatically switches between heating and cooling modes based on the current temperature and the set target temperature, considering any hysteresis settings (differential).

4.3. App Operation (Tuya Smart)

Once connected to the Tuya Smart app, you can control and monitor your DTC-2210 remotely:

- **Remote Monitoring:** View the current temperature and device status from anywhere.
- **Remote Control:** Adjust the target temperature, switch modes (if applicable), and set schedules.
- **Advanced Settings:** Access additional settings such as temperature calibration, hysteresis (temperature differential), high/low temperature alarms, and timer functions. Refer to the Tuya Smart app's help section for detailed instructions on these advanced features.

5. Maintenance

- **Cleaning:** Wipe the controller's surface with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Sensor Care:** Keep the temperature sensor clean and free from debris. Avoid bending or damaging the sensor cable.
- **Environmental Conditions:** Ensure the controller is operated within its specified temperature and humidity ranges to prevent damage.

6. Troubleshooting

Problem	Possible Cause	Solution
Controller does not power on.	No power supply or incorrect wiring.	Check power connections and ensure the device is receiving 230V AC. Verify wiring according to Section 3.1.
"Net" indicator is blinking or off.	No WiFi connection or incorrect network settings.	Ensure your router is on and broadcasting a 2.4GHz network. Re-attempt WiFi pairing via the Tuya Smart app (Section 3.2). Check WiFi password.
Incorrect temperature reading.	Sensor faulty, improperly connected, or placed incorrectly.	Check sensor cable connection. Ensure the sensor is clean and positioned correctly. If issues persist, the sensor may need replacement.
Heating/Cooling device not activating.	Incorrect wiring, device malfunction, or temperature settings.	Verify wiring of heating/cooling devices to the controller. Check if the set temperature and current temperature are within the activation range. Ensure the heating/cooling device itself is functional.

7. Specifications

- **Model:** DTC-2210
- **Brand:** Hasaller
- **Input Voltage:** 230 Volts AC
- **Output Capacity (Cooling):** 10 A / 250 VAC
- **Output Capacity (Heating):** 10 A / 250 VAC
- **Sensor Options:** DTC2201 / DTC1201 (cable sensor)
- **Connectivity:** WiFi (2.4GHz)
- **App Compatibility:** Tuya Smart
- **Color:** As shown in images (typically white/black)

8. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact Hasaller customer service. Keep your proof of purchase for warranty claims.