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Aideepen TC819C

Aideepen TC819C Digital Temperature Control Socket User Manual

Model: **TC819C**
Brand: **Aideepen**

1. Introduction

The Aideepen TC819C is an intelligent digital display temperature control socket designed for precise temperature management across a wide range of applications. This device allows users to set desired temperature ranges for heating or cooling, ensuring optimal conditions for various environments such as greenhouses, terrariums, incubators, and more. It features a large, clear screen for easy reading and multiple operating modes to suit diverse needs.

2. Safety Warnings

Please read all safety instructions carefully before using the device.

- **Electrical Safety:** Ensure the device is plugged into a properly grounded outlet. Do not overload the socket.
- **Do Not Disassemble:** This product contains electronic parts. Do not disassemble or modify the product. Unauthorized modifications can lead to electric shock, fire, or damage to the device, and will void the warranty.
- **Keep Out of Reach of Children:** Store the device in a safe place away from children and pets.
- **Environmental Conditions:** Do not expose the device to water, excessive humidity, or extreme temperatures. Use only in dry, indoor environments.
- **Probe Handling:** Handle the temperature probe with care. Do not bend or damage the probe cable.



Image: Safety warnings indicating not to disassemble electronic parts and to keep out of reach of children. Also shows CE, UKCA, FCC, and RoHS compliance marks.

3. Product Components and Overview

The Aideepen TC819C temperature control socket consists of the main unit with a digital display and control buttons, and an external temperature probe.



Image: Front view of the Aideepen TC819C temperature control socket, showing the large digital display, control buttons, power socket, and the attached temperature probe.

Key Components:

- **Digital Display:** Large screen showing measured temperature, start temperature, stop temperature, and mode indicators.
- **Control Buttons:**
  - **(Home/Mode) Button:** Used for navigating between modes or confirming settings.
  - ⚙ **(Settings) Button:** Used to enter and exit setting parameters.
  - ▲ **(Up) Button:** Used to increase values or navigate up.
  - ▼ **(Down) Button:** Used to decrease values or navigate down.

- **Temperature Probe:** External sensor for accurate temperature measurement. Cable length is approximately 1.7m (5.58ft).
- **Power Socket:** Standard electrical outlet for connecting your heating or cooling appliance.
- **Reset Button:** Small button for resetting the device (requires a pin).



Image: Dimensions of the Aideepen TC819C, showing a height of 12cm (4.72in), width of 5.8cm (2.28in), and depth of 3.9cm (1.53in). The probe cable length is 1.7m (5.58ft).

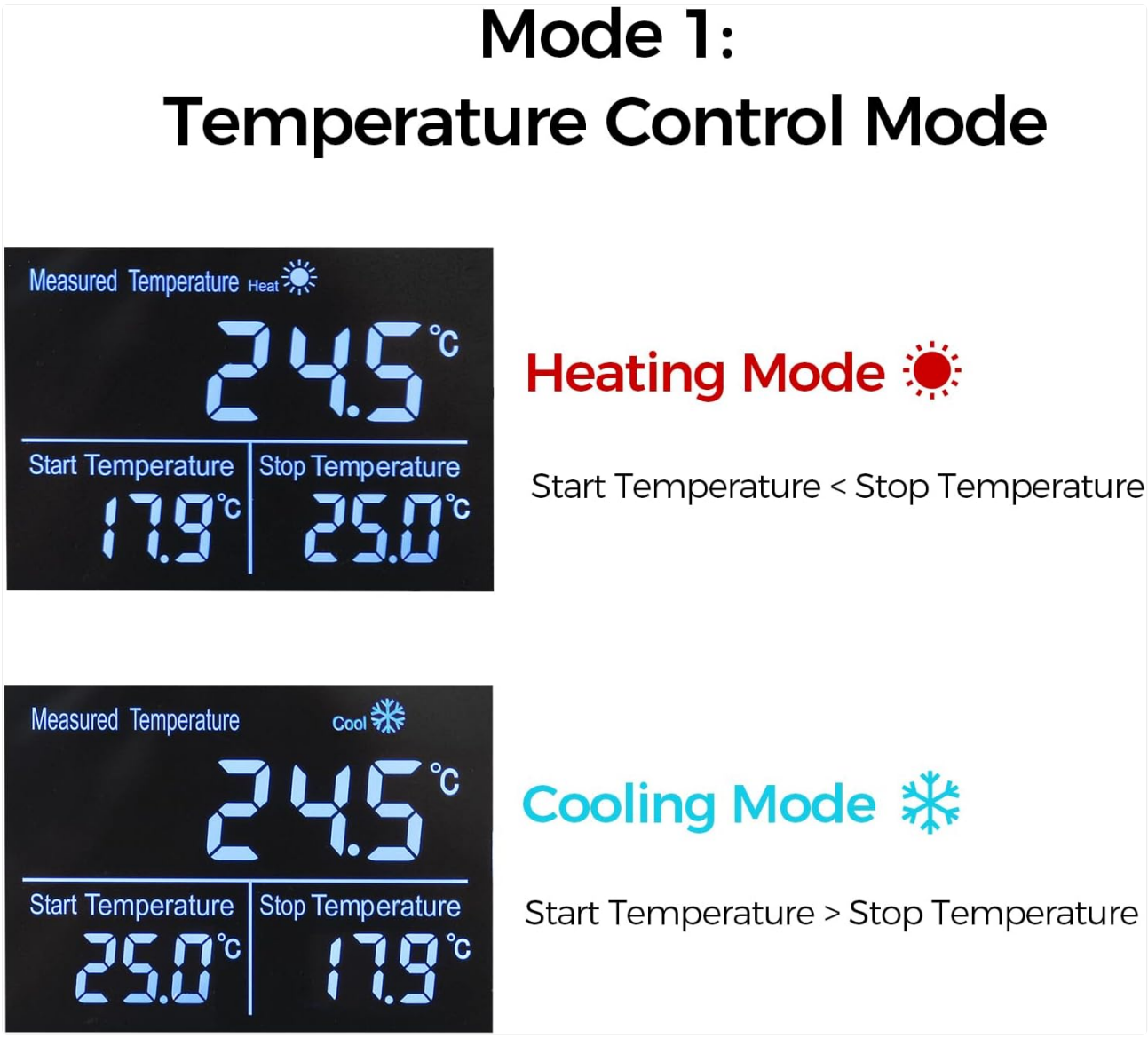


Image: Detailed views of the Aideepen TC819C, highlighting the display, control buttons, power plug, and the integrated socket.

4. Key Features

- **Large Digital Display:** Clear and easy-to-read screen for all temperature and setting information.
- **Wide Temperature Control Range:** Capable of controlling temperatures from -40°C to 120°C.
- **Countdown Function:** Allows for timed operation in specific modes.
- **Temperature Correction Function:** Enables calibration of the temperature reading for enhanced accuracy.
- **°C/°F Switching Function:** Easily switch between Celsius and Fahrenheit temperature units.
- **Memory Function:** Retains settings even after power loss.
- **Reset Function:** Provides an option to restore default settings.
- **Multiple Operating Modes:** Five distinct modes for various temperature control and timing needs.



Image: Visual representation of the key features including Countdown Function, Temperature Correction Function, °C/°F switching Function, Memory Function, and Reset Function.

5. Setup Guide

1. **Unpack:** Carefully remove the temperature control socket and its probe from the packaging.
2. **Connect Probe:** Plug the temperature probe securely into the designated port on the side of the main unit.
3. **Position Probe:** Place the temperature probe in the environment where you wish to monitor and control the temperature (e.g., inside a terrarium, incubator, or greenhouse). Ensure the probe is not directly exposed to heat sources or drafts that could skew readings.
4. **Power On:** Plug the Aideepen TC819C temperature control socket into a standard electrical wall outlet. The display will light up.
5. **Connect Appliance:** Plug your heating or cooling appliance (e.g., heater, fan, lamp) into the power socket located on the front of the Aideepen TC819C.

6. Operation

6.1 Display Information

The large digital display provides the following information:

- **Measured Temperature:** The current temperature detected by the probe.
- **Heat/Cool Indicator:** Shows if the device is currently in heating or cooling mode.
- **Start Temperature:** The temperature at which the connected appliance will turn ON.
- **Stop Temperature:** The temperature at which the connected appliance will turn OFF.
- **CD TC ON/OFF:** Indicates countdown timer status in relevant modes.

6.2 Setting Temperature (Mode 1: TC Mode)

This is the primary temperature control mode. The device will automatically switch between heating and cooling based on your set temperatures.

1. Press the ⚙ **(Settings)** button once to enter the setting mode for Start Temperature. The "Start Temperature" value will flash.
2. Use the ▲ **(Up)** and ▼ **(Down)** buttons to adjust the desired Start Temperature.
3. Press the ⚙ **(Settings)** button again to move to the Stop Temperature setting. The "Stop Temperature" value will flash.
4. Use the ▲ **(Up)** and ▼ **(Down)** buttons to adjust the desired Stop Temperature.
5. Press the ⚙ **(Settings)** button a third time to save the settings and exit the setting mode.

Heating Mode: If **Start Temperature < Stop Temperature**, the device operates in heating mode. The appliance turns ON when the measured temperature drops below the Start Temperature and turns OFF when it reaches the Stop Temperature.

Cooling Mode: If **Start Temperature > Stop Temperature**, the device operates in cooling mode. The appliance turns ON when the measured temperature rises above the Start Temperature and turns OFF when it drops to the Stop Temperature.

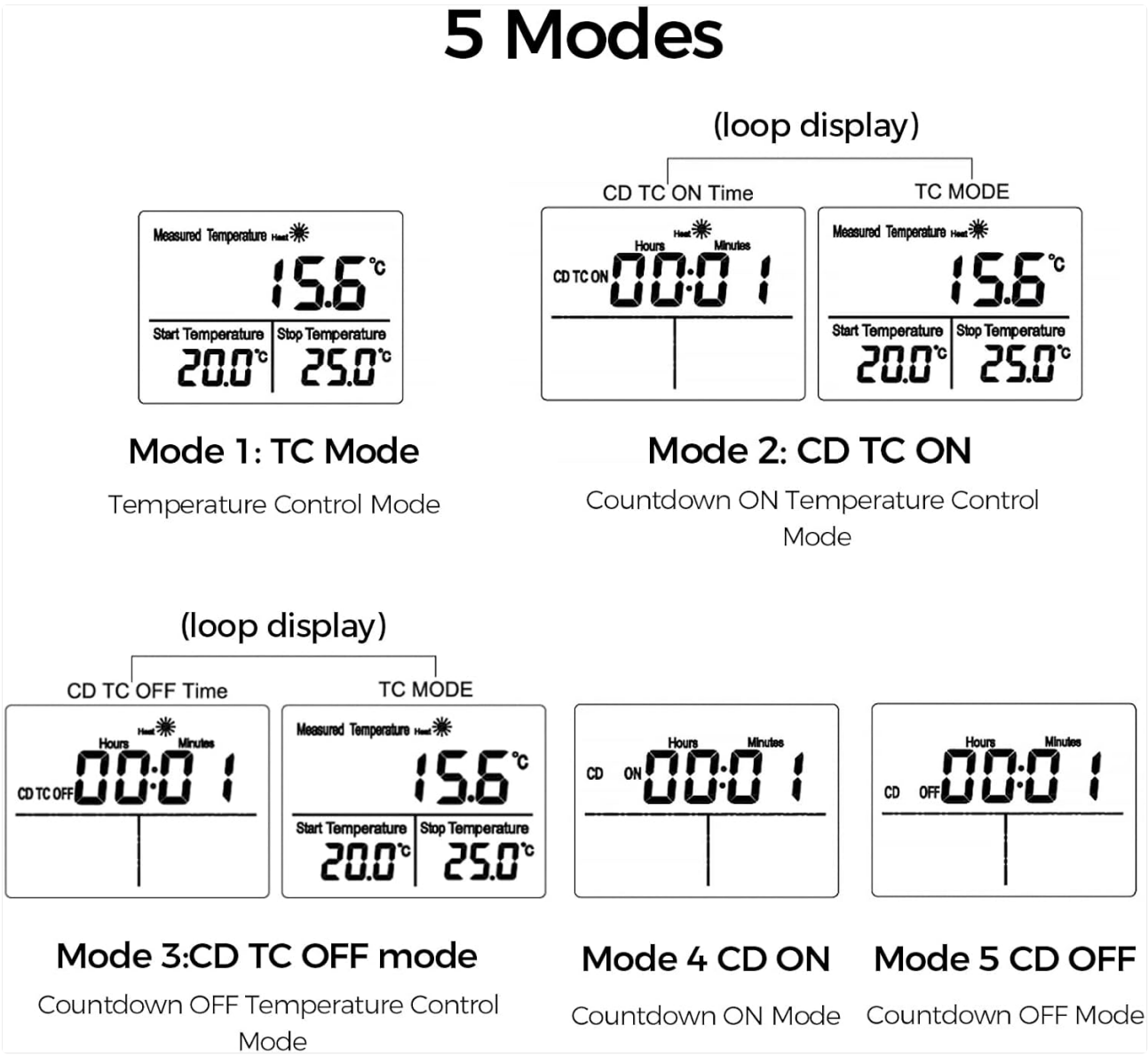


Image: Illustration of Mode 1 (Temperature Control Mode) showing examples for Heating Mode (Start Temp < Stop Temp) and Cooling Mode (Start Temp > Stop Temp).

6.3 Operating Modes

The Aideepen TC819C offers five distinct operating modes. Press the **(Home/Mode)** button to cycle through these modes.

- **Mode 1: TC Mode (Temperature Control Mode)**
  This is the standard temperature control mode as described in Section 6.2. The device maintains temperature within the set range.
- **Mode 2: CD TC ON (Countdown ON Temperature Control Mode)**
  In this mode, the temperature control function is active, and a countdown timer is also running. The device will operate for the set countdown duration.
- **Mode 3: CD TC OFF (Countdown OFF Temperature Control Mode)**
  Similar to Mode 2, but the countdown timer is for the OFF period of the temperature control cycle.
- **Mode 4: CD ON (Countdown ON Mode)**
  A simple countdown timer mode where the connected appliance turns ON for the set duration. Temperature control is not the primary function here.
- **Mode 5: CD OFF (Countdown OFF Mode)**
  A simple countdown timer mode where the connected appliance turns OFF for the set duration.

To set the countdown duration in Modes 2, 3, 4, or 5, press the⚙ **(Settings)** button when in the desired countdown mode. Use the ▲ **(Up)** and ▼ **(Down)** buttons to adjust hours and minutes, then press⚙ **(Settings)** to confirm.



Image: Diagram illustrating the five different operating modes: TC Mode, CD TC ON, CD TC OFF, CD ON, and CD OFF, showing their respective display layouts.

6.4 Advanced Settings (Temperature Correction, °C/°F Switching)

To access advanced settings, long-press the ⚙ **(Settings)** button until the display changes to show additional parameters. Use the ▲ **(Up)** and ▼ **(Down)** buttons to navigate between settings and adjust values. Press⚙ **(Settings)** to confirm and move to the next parameter, or long-press to exit.

- **Temperature Correction:** If you find the measured temperature is slightly off compared to a known accurate thermometer, you can calibrate it here. Adjust the offset value to match the actual temperature.
- **°C/°F Switching:** Toggle between Celsius and Fahrenheit temperature units.

6.5 Memory Function

The device is equipped with a memory function, meaning all your set parameters (temperatures, modes,

countdowns) will be saved automatically and retained even if the power is disconnected.

6.6 Reset Function

To reset the device to its factory default settings, locate the small reset button (usually a small hole) on the front panel. Use a thin pin or paperclip to gently press and hold the button for a few seconds until the display indicates a reset.

7. Typical Applications

The Aideepen TC819C is versatile and can be used in various settings requiring precise temperature control:

- **Greenhouses:** Maintain optimal growing temperatures for plants.
- **Climbing Pets/Reptile Terrariums:** Ensure stable temperatures for reptiles and amphibians.
- **Incubators:** Critical for maintaining consistent temperatures for hatching eggs.
- **Wine Cellars:** Control temperature for proper wine storage.
- **Fridges/Freezers:** Monitor and control temperatures for specific storage needs (e.g., fermentation).
- **Warehouses:** Regulate temperature in storage areas for sensitive goods.



Image: Collage showing various applications for the Aideepen TC819C, including greenhouses, climbing pet enclosures, incubators, wine cellars, fridges, and warehouses.

8. Maintenance

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

9. Troubleshooting

Problem	Possible Cause	Solution
Device not powering on.	No power from outlet; device malfunction.	Check if the wall outlet is working by plugging in another appliance. Ensure the device is fully plugged in.
Temperature reading is inaccurate.	Probe not properly connected; probe damaged; need for calibration.	Ensure the probe is securely plugged in. Check the probe for visible damage. Use the Temperature Correction function (Section 6.4) to calibrate.
Connected appliance not turning ON/OFF as expected.	Incorrect Start/Stop temperature settings; appliance malfunction; wrong mode selected.	Verify your Start and Stop temperature settings (Section 6.2). Ensure the connected appliance is functional. Check that the correct operating mode is selected (Section 6.3).
Display shows "CD TC OFF" or "CD TC ON" unexpectedly.	Device is in a countdown mode.	Press the **(Home/Mode)** button to cycle through modes until "TC Mode" is displayed, if that is your desired operation.
Device needs to be reset to factory settings.	User preference or configuration issue.	Use a thin pin to press the Reset button (Section 6.6).

10. Specifications

Parameter	Value
Model Number	TC819C (cad91b26-6ae1-40c2-83d0-356485d8bcf8)
Temperature Control Range	-40°C to 120°C

Parameter	Value
Voltage	230V AC
Max Wattage	3680W
Item Weight	180 g (0.18 Kilograms)
Package Dimensions	14.5 x 8.2 x 6.3 cm
Manufacturer	Ningbo Jijia Electric CO.,LTD.
Date First Available	7 Nov. 2024

11. Support and Contact Information

For technical support or inquiries regarding your Aideepen TC819C Digital Temperature Control Socket, please contact your retailer or the manufacturer.

EC Representative:

SUCCESS COURIER SL
CALLE RIO TORRES NUM. 1,
PLANTA 1, DERECHA, OFICINA3,
Fuenlabrada, Madrid, 28947
Email: Spainsuccesservice@hotmail.com

Please refer to the model number TC819C (cad91b26-6ae1-40c2-83d0-356485d8bcf8) when contacting support.

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