FICEMETOI DM-808TT

FICEMETOI DM-808TT Digital Temperature Controller User Manual

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the FICEMETOI DM-808TT Digital Temperature Controller. This device is designed to precisely control temperature in various applications, offering both heating and cooling functions with a dual display for current and set values. Please read this manual thoroughly before using the product to ensure safe and efficient operation.

2. Product Overview

The DM-808TT is an electronic temperature control socket featuring a dual digital display. It includes two output sockets for connecting heating or cooling devices and two temperature probes for accurate measurement. The front panel provides intuitive buttons for setting parameters.

Figure 2.1: Front view of the DM-808TT Digital Temperature Controller, showing the dual display, control buttons, and output sockets.

3. Key Features

- **Dual Digital Display:** Simultaneously shows the current temperature (PV) and the set temperature (SV).
- **Wide Voltage Range:** Operates on AC 85-250V, suitable for various power environments.
- **High Current Capacity:** Supports up to 10A output for connected devices.
- **Heating and Cooling Modes:** Configurable for both heating and cooling applications.
- **User-Friendly Interface:** Simple button controls for easy parameter adjustment.

- **Reliable Performance:** Constructed with quality electronic components for stable and precise temperature control.

4. Specifications

Parameter	Value
Model	DM-808TT
Input Voltage	AC 85-250V
Output Current	Max 10A
Display Type	Dual Digital Display (PV/SV)
Control Mode	Heating / Cooling
Manufacturer	FICEMETOI

5. Setup

1. **Unpacking:** Carefully remove the DM-808TT controller and its accessories from the packaging. Inspect for any visible damage.
2. **Power Connection:** Plug the controller's power cord into a standard AC 85-250V power outlet. The display should illuminate.
3. **Sensor Connection:** Insert the temperature probes into the designated sensor input ports on the controller. Ensure a secure connection.
4. **Device Connection:** Plug your heating or cooling device(s) into the output sockets (OUT 1, OUT 2) on the controller. Ensure the total current draw does not exceed 10A.
5. **Placement:** Position the temperature probes in the environment where temperature control is required. Avoid placing them near heat sources or direct airflow that could affect readings.

6. Operating Instructions

6.1 Display Overview

- **PV (Process Value):** The upper display shows the current measured temperature from the sensor.
- **SV (Set Value):** The lower display shows the target temperature you have set.

6.2 Button Functions

- **SET Button:** Press to enter parameter setting mode. Press again to cycle through parameters.
- **SAV Button:** Press to save the current settings and exit parameter setting mode.
- **Up Arrow (▲) Button:** Increases the value of the selected parameter.
- **Down Arrow (▼) Button:** Decreases the value of the selected parameter.

6.3 Setting the Target Temperature (SV)

1. Press the **SET** button once. The SV display will start flashing.
2. Use the **Up Arrow (▲)** or **Down Arrow (▼)** buttons to adjust the target temperature to your desired

value.

3. Press the **SAV** button to confirm and save the new target temperature. The display will stop flashing.

6.4 Selecting Heating or Cooling Mode

The DM-808TT supports both heating and cooling modes. The specific steps to switch between modes and adjust related parameters (e.g., hysteresis, calibration) will be accessible through the **SET** menu. Refer to the on-screen prompts or a more detailed parameter list for advanced settings.

1. Press and hold the **SET** button for approximately 3-5 seconds to enter the advanced parameter menu.
2. Use the **SET** button to cycle through the available parameters until you find the mode selection (often indicated by 'HC' for Heating/Cooling).
3. Use the **Up Arrow (▲)** or **Down Arrow (▼)** buttons to select 'H' for Heating or 'C' for Cooling.
4. Press the **SAV** button to save the mode and exit the menu.

7. Maintenance

- **Cleaning:** Wipe the controller's surface with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the device is unplugged before cleaning.
- **Sensor Care:** Keep the temperature probes clean and free from debris. Avoid bending or damaging the probe cables.
- **Storage:** When not in use for extended periods, store the controller in a cool, dry place away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically check the power cord and sensor cables for any signs of wear or damage. Do not use the device if any damage is found.

8. Troubleshooting

- **No Display:**
  - Check if the power cord is securely plugged into a live outlet.
  - Verify the power outlet is functioning correctly.
- **Inaccurate Temperature Reading:**
  - Ensure the temperature probe is correctly inserted and not damaged.
  - Check if the probe is positioned correctly in the environment to be measured, away from drafts or direct heat.
  - Consider if calibration is needed (refer to advanced settings in the manual).
- **Connected Device Not Activating:**
  - Verify the target temperature (SV) is set correctly relative to the current temperature (PV) and the selected mode (heating/cooling).
  - Ensure the connected device is properly plugged into the controller's output socket and is functional.
  - Check if the controller is in the correct heating or cooling mode.
- **Buttons Unresponsive:**
  - Unplug the device from power for a few minutes, then plug it back in to perform a soft reset.

9. Warranty and Support

FICEMETOI products are manufactured to high standards. For any technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact your retailer or the manufacturer's customer support. Please have your product model number (DM-808TT) and purchase information ready when contacting support.