

AISET XMTG-6000 Series Temperature Controller User Manual

Brand: AISET

Series: XMTG-6000 Temperature Controller

Document Type: Simplified English Manual

Version: V1.0

1. Overview

The AISET XMTG-6000 series is a high-performance digital temperature controller, designed for temperature measurement and automatic control in industrial production, laboratories and other scenarios. It features simple operation, high control accuracy and stable performance, widely applied in heating, cooling and constant temperature control systems.

2. Key Specifications

Item	Parameter
Measurement Range	-50°C ~ 999°C
Control Accuracy	±0.1°C
Input Signal	Thermocouple (K/J/T/E), RTD (PT100)
Output Mode	Relay output, SSR drive (optional)
Operating Voltage	AC 100~240V, 50/60Hz
Working Temperature	0°C ~ 50°C
Protection Class	IP40

3. Basic Operation

3.1 Power On

Connect the power supply according to the wiring diagram, then turn on the power switch. The controller will automatically display the current measured temperature.

3.2 Set Target Temperature

1. Press the "SET" key once, the display will flash, entering the target temperature setting mode.
2. Press " \triangle " (up) or " ∇ " (down) key to adjust the target temperature to the required value.
3. Press "SET" key again to confirm and exit the setting mode, and the controller will start temperature control.

3.3 Display Introduction

- Normal mode: Displays the current measured temperature (left) and target temperature (right).
- Setting mode: Flashing display indicates the parameter being set.
- Alarm mode: Alarm indicator lights up when the temperature exceeds the set range (optional function).

4. Wiring Instructions

Please turn off the power before wiring to avoid electric shock. The basic wiring is as follows (refer to the product label for details):

- Power Terminal (L/N): Connect AC 100~240V power supply.
- Input Terminal (IN): Connect thermocouple or RTD sensor.
- Output Terminal (OUT): Connect load (heater, cooler, etc.).
- Ground Terminal (PE): Connect ground wire for safety.

 Note: Wrong wiring may damage the controller. Confirm the wiring before power-on.

5. Notes

- Install the controller in a dry, ventilated place, away from high temperature, humidity and strong electromagnetic interference.
- Do not disassemble or modify the controller without authorization, which will affect performance and safety.

- Regularly check the wiring and sensor to ensure stable operation.
- If the controller fails, turn off the power immediately and contact professional maintenance personnel.

6. Warranty

This product provides a 12-month warranty from the date of delivery. Free repair or replacement is offered for defects in materials or workmanship under normal use. The warranty does not cover damage caused by improper operation, wrong wiring or disassembly.

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Remark: This is a simplified manual. For detailed operation, refer to the full version manual.

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