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› CEMELI WSJ700 Timing Counting Temperature Control Thermostat User Manual

CEMELI WSJ700

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the CEMELI WSJ700 Intelligent Multifunctional Automation Thermostat. The WSJ700 is designed for precise timing, counting, and K-type temperature control applications, featuring a 220VAC power input and solid state output. Please read this manual thoroughly before using the device to ensure safe and efficient operation.

2. SAFETY INFORMATION

To prevent personal injury or damage to the device, observe the following safety precautions:

- Ensure the power supply voltage matches the device's requirements (220VAC).
- All wiring and installation should be performed by qualified personnel in accordance with local electrical codes.
- Do not operate the device in environments with flammable gases, excessive dust, or high humidity.
- Disconnect power before performing any wiring, maintenance, or inspection.
- Do not disassemble or modify the device. Refer all servicing to authorized personnel.

3. PRODUCT OVERVIEW

The CEMELI WSJ700 is an advanced control unit integrating temperature, timing, and counting functions into a compact design. Its front panel features a clear digital display and intuitive control buttons.



Figure 3.1: Front view of the CEMELI WSJ700 thermostat. The display shows temperature, timing, and counting values. Below the display are four buttons: RESET, MODE, Down arrow, and Up arrow.

3.1 Front Panel Components

- **Digital Display:** Shows current temperature, set points, timing values, and count values. Includes indicators for °C/°F, M/S (minutes/seconds), and COUNTER.
- **RESET Button:** Used to reset counters, confirm settings, or exit menus.
- **MODE Button:** Cycles through different operating modes and parameter settings.
- **Down Arrow Button:** Decreases values or navigates menu options.
- **Up Arrow Button:** Increases values or navigates menu options.

4. SPECIFICATIONS

Parameter	Value
Brand	CEMELI
Model	WSJ700
Output Type	Solid State Output
Input Voltage	220 Volts AC
Sensor Type	K-Type Thermocouple
Item Weight	50 Grams
Backlight	Yes
Unit Count	1.0 Count

5. SETUP

5.1 Dimensions and Installation

The WSJ700 is designed for panel mounting. Ensure adequate space and proper ventilation around the device.

- **Panel Size:** 72mm x 72mm
- **Installation Hole Size:** 68mm x 68mm
- **Thickness (Depth):** 45mm



Figure 5.1: Physical dimensions of the WSJ700 for panel installation.

5.2 Wiring Instructions

Refer to the wiring diagram below for proper connection of power, sensor, and output. Ensure all connections are secure before applying power.

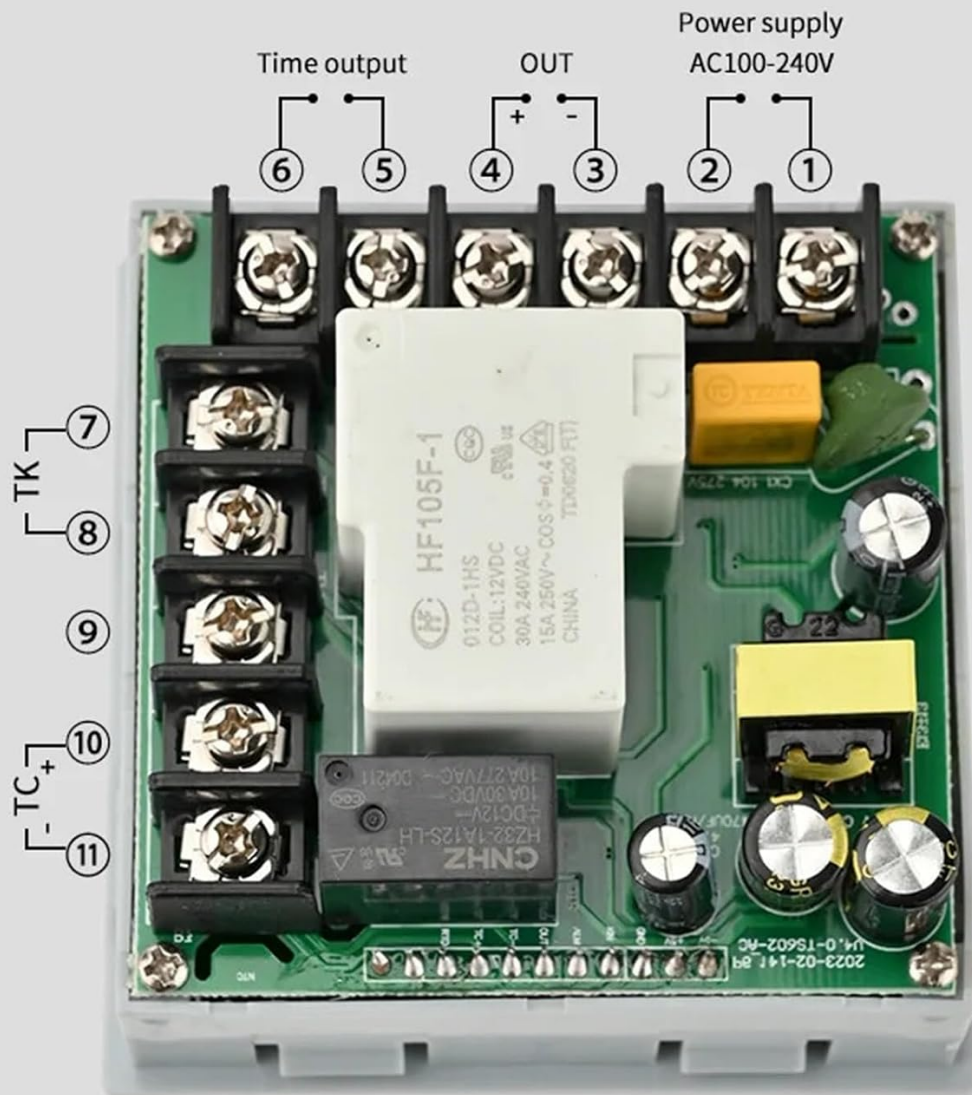


Figure 5.2: Wiring diagram for the WSJ700.

- **Terminals 1 & 2:** AC100-240V Power Supply. Connect your main power input here.
- **Terminals 3 & 4:** OUT (Main Control Output). These terminals provide the solid state output for temperature control.
- **Terminals 5 & 6:** Time Output. These terminals provide a separate output for timing functions.
- **Terminals 7 & 8:** TK (K-Type Thermocouple Positive Input). Connect the positive lead of your K-type thermocouple here.
- **Terminals 9 & 10:** TC (K-Type Thermocouple Negative Input). Connect the negative lead of your K-type thermocouple here.

6. OPERATING INSTRUCTIONS

6.1 Power On

After completing all wiring, apply 220VAC power to terminals 1 and 2. The device display will illuminate, showing the current temperature or the last active mode.

6.2 Mode Selection

Press the **MODE** button to cycle through the main operating modes: Temperature Control, Timing, and Counting. Each press will switch to the next mode or parameter setting within a mode.

6.3 Setting Parameters

When in a setting mode (indicated by a flashing display), use the **Up Arrow** and **Down Arrow** buttons to adjust the desired value. Press **RESET** to confirm the setting and move to the next parameter or exit the setting menu.

6.4 Temperature Control Function

In Temperature Control mode, the display shows the current temperature. Press **MODE** to enter the temperature setting menu. Use the arrow buttons to set the desired target temperature and hysteresis (temperature difference for output switching). Confirm each setting with **RESET**.

6.5 Timing Function

In Timing mode, the display shows the current timer value. Press **MODE** to set the timing duration (e.g., minutes and seconds) and the operating mode (e.g., delay on, delay off). Use the arrow buttons to adjust values and **RESET** to confirm. The Time Output (Terminals 5 & 6) will activate according to the set timing parameters.

6.6 Counting Function

In Counting mode, the display shows the current count. Press **MODE** to set a target count value. The counter can be reset by pressing the **RESET** button. The device can be configured to trigger an output when the target count is reached.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your WSJ700 thermostat.

- **Cleaning:** Use a soft, dry cloth to clean the display and casing. Do not use abrasive cleaners or solvents.
- **Environmental Conditions:** Ensure the operating environment remains within specified temperature and humidity ranges. Avoid exposure to direct sunlight, corrosive gases, or strong vibrations.
- **Connection Check:** Periodically inspect all wiring connections to ensure they are tight and free from corrosion.

8. TROUBLESHOOTING

If you encounter issues with your WSJ700, refer to the following common problems and solutions:

- **Device does not power on:**
 - Check the power supply connection to terminals 1 and 2.
 - Verify that the power source is providing 220VAC.
- **Incorrect temperature reading:**
 - Ensure the K-type thermocouple is correctly wired to terminals 7, 8, 9, and 10, observing polarity.
 - Check if the thermocouple itself is damaged or faulty.
- **Output (Terminals 3 & 4 or 5 & 6) not activating:**
 - Verify that the set temperature, timing, or counting parameters are met.
 - Check the wiring of the load connected to the output terminals.

- Ensure the device is in the correct operating mode for the desired output.
- **Display is blank or erratic:**
 - Power cycle the device.
 - Ensure stable power supply.

If the problem persists after attempting these solutions, please contact customer support.

9. WARRANTY AND SUPPORT

The CEMELI WSJ700 thermostat is covered by a standard manufacturer's warranty against defects in materials and workmanship. For specific warranty terms, please refer to the product packaging or contact your point of purchase. For technical support, troubleshooting assistance, or inquiries regarding product functionality, please contact CEMELI customer service through the vendor's official channels or the contact information provided with your purchase.

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