

## HEXEH E5CC-RX2ASM-880

# HEXEH E5CC-RX2ASM-880 Digital Temperature Controller Instruction Manual

Model: E5CC-RX2ASM-880

## 1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your HEXEH E5CC-RX2ASM-880 Digital Temperature Controller. This device is designed for precise temperature control in various industrial and cooling applications, including air conditioners and refrigerators. Please read this manual thoroughly before installation and operation to ensure proper use and to prevent damage or injury.

## 2. SAFETY INFORMATION

**WARNING: To prevent accidents, always turn off the equipment's power supply before installation, maintenance, or any wiring adjustments.**

- Ensure all wiring is performed by a qualified professional in accordance with local electrical codes.
- Do not operate the controller in environments exceeding its specified temperature and humidity limits.
- Avoid exposing the device to water or excessive moisture.
- Do not attempt to disassemble or modify the controller, as this may void the warranty and pose safety risks.
- Verify that the power supply voltage matches the controller's specifications (100-240VAC).

## 3. PRODUCT OVERVIEW

The HEXEH E5CC-RX2ASM-880 is a digital temperature controller designed for accurate and reliable temperature management. It features a compact design and a clear interface for easy integration and operation.



**Figure 1:** HEXEH E5CC-RX2ASM-880 Digital Temperature Controller with Wiring Diagram.

This image displays the HEXEH E5CC-RX2ASM-880 Digital Temperature Controller, highlighting its model number "DIGITAL CONTROLLER Ver2.1 LOT No. 16322M" and detailed wiring instructions. The diagram shows connections for three outputs (OUT1, SUB2, SUB1), a "DO NOT USE" terminal, and inputs for V/TC (Voltage/Thermocouple) and mA (milliamperes). Power input is specified as 100-240VAC, 50/60Hz, 5.2VA. The outputs are rated at 250VAC, 3A.

Key components typically include:

- **Temperature Sensor Input:** Connects to a compatible temperature sensor (e.g., thermocouple, RTD) to measure the current temperature.
- **Control Outputs:** Relays or solid-state outputs to control heating or cooling equipment. The diagram shows OUT1, SUB1, and SUB2.
- **Display Panel:** Shows current temperature, setpoint, and operational status.
- **Control Buttons:** For setting parameters and navigating menus.
- **Power Input:** Connects to the main power supply (100-240VAC).

## 4. SPECIFICATIONS

Feature	Specification
Model	E5CC-RX2ASM-880

Feature	Specification
Input Voltage	100-240VAC, 50/60Hz
Power Consumption	5.2VA
Output 1 (OUT1)	250VAC, 3A
Output 2 (SUB1)	250VAC, 3A
Output 3 (SUB2)	250VAC, 3A
Input Type	V/TC (Voltage/Thermocouple), mA (Milliamperes)
Item Weight	300 Grams
Manufacturer	HEXEH

## 5. INSTALLATION

The HEXEH E5CC-RX2ASM-880 is designed for easy installation with standard sizing. Follow these steps carefully:

- 1. Power Disconnection:** Before beginning any installation, ensure that the main power supply to the equipment is completely turned off and locked out to prevent accidental startup.
- 2. Mounting:** Mount the temperature controller in a suitable enclosure or panel cutout. Ensure adequate ventilation to prevent overheating.
- 3. Wiring (Refer to Figure 1):**
  - **Power Supply:** Connect the 100-240VAC, 50/60Hz power supply to terminals 11 and 12.
  - **Output 1 (OUT1):** Connect your primary control device (e.g., heater, cooler) to terminals 1 and 2. This output is rated for 250VAC, 3A.
  - **Output 2 (SUB2):** Connect a secondary control device to terminals 7 and 8. This output is rated for 250VAC, 3A.
  - **Output 3 (SUB1):** Connect a tertiary control device to terminals 9 and 10. This output is rated for 250VAC, 3A.
  - **Sensor Input (V/TC):** Connect your voltage or thermocouple sensor to terminals 5 and 6.
  - **Sensor Input (mA):** Connect your milliamper sensor to terminals 4 and 5.
  - **DO NOT USE:** Terminal 3 is marked "DO NOT USE". Do not connect any wires to this terminal.
- 4. Secure Connections:** Ensure all wire connections are tight and secure to prevent loose contacts and potential hazards.
- 5. Final Check:** Double-check all wiring against the diagram before restoring power.

## 6. SETUP AND CONFIGURATION

After installation, the controller needs to be configured for your specific application. The exact steps for parameter setting will depend on the specific model's firmware and button layout. Generally, the process involves:

- 1. Power On:** Restore power to the equipment. The controller display should illuminate.
- 2. Initial Display:** The display will typically show the current measured temperature.

3. **Accessing Settings:** Press the "SET" or equivalent button to enter the parameter setting mode.
4. **Setting Temperature Setpoint:** Use the Up/Down arrow buttons to adjust the desired temperature setpoint. Confirm with the "SET" or "ENT" button.
5. **Configuring Control Mode:** Select the appropriate control mode (e.g., PID, ON/OFF) based on your application requirements.
6. **Sensor Type Selection:** Ensure the controller is configured for the correct sensor type (e.g., K-type thermocouple, Pt100 RTD, 4-20mA).
7. **Alarm Settings:** Configure any desired high or low temperature alarms.
8. **Saving Settings:** Exit the parameter setting mode, ensuring all changes are saved.

*Refer to the detailed programming guide (if provided separately) for advanced parameter settings and calibration procedures.*

## 7. OPERATING INSTRUCTIONS

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Once configured, the temperature controller operates automatically to maintain the set temperature. Monitor the display for current temperature readings and operational status.

- **Monitoring:** The main display continuously shows the process variable (current temperature).
- **Setpoint Adjustment:** If a temporary change to the setpoint is needed, use the Up/Down buttons to adjust it. The controller will then work to reach and maintain this new setpoint.
- **Alarm Indicators:** Pay attention to any alarm indicators on the display, which signal deviations from set parameters or system faults.
- **Manual Control (if applicable):** Some controllers offer a manual control mode for testing or specific operations. Consult the advanced manual for details.

## 8. MAINTENANCE

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Regular maintenance ensures the longevity and accuracy of your temperature controller.

- **Cleaning:** Periodically clean the display and exterior of the controller with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Connections Check:** Annually, or as needed, inspect all wiring connections for tightness and signs of corrosion. Ensure power is off before inspection.
- **Sensor Inspection:** Check the temperature sensor for physical damage or buildup that might affect its accuracy.
- **Environmental Conditions:** Ensure the operating environment remains within specified temperature and humidity ranges.

## 9. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Controller does not power on.	No power supply; incorrect wiring; blown fuse.	Check power connections (terminals 11, 12); verify power source; inspect internal fuse (if accessible and user-serviceable).

<b>Problem</b>	<b>Possible Cause</b>	<b>Solution</b>
Incorrect temperature reading.	Faulty sensor; incorrect sensor type setting; loose sensor connection.	Check sensor wiring (terminals 4, 5, 6); ensure correct sensor type is selected in settings; replace sensor if damaged.
Output not activating.	Setpoint not reached; output wiring error; faulty output relay.	Verify setpoint and current temperature; check output wiring (terminals 1, 2, 7, 8, 9, 10); test output device.
Temperature fluctuates widely.	Improper PID tuning; sensor placed incorrectly.	Adjust PID parameters (if applicable); reposition sensor for better measurement.

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

## 10. SUPPORT

For further assistance, technical support, or warranty inquiries regarding your HEXEH E5CC-RX2ASM-880 Digital Temperature Controller, please contact your retailer or the manufacturer directly.

Please have your model number (E5CC-RX2ASM-880) and any relevant purchase information ready when contacting support.