

Omron E5CC-RX2ASM-800

Omron E5CC-RX2ASM-800 Digital Temperature Controller User Manual

Model: E5CC-RX2ASM-800

1. INTRODUCTION

This manual provides essential information for the safe and correct installation, operation, and maintenance of the Omron E5CC-RX2ASM-800 Digital Temperature Controller. Please read this manual thoroughly before using the product to ensure optimal performance and prevent potential hazards. Keep this manual in a safe place for future reference.

2. SAFETY PRECAUTIONS

Observe the following safety precautions to prevent electric shock, fire, or injury.

- **Electrical Safety:** Ensure all wiring is performed by qualified personnel in accordance with local electrical codes. Disconnect power before wiring or performing maintenance.
- **Proper Use:** Use the controller within its specified voltage, current, and temperature ranges. Do not use in environments with flammable or explosive gases.
- **Installation:** Mount the controller securely to prevent it from falling. Ensure adequate ventilation to prevent overheating.
- **Maintenance:** Do not disassemble, repair, or modify the controller. Contact Omron service personnel for repairs.

3. PRODUCT OVERVIEW

The Omron E5CC-RX2ASM-800 is a high-performance digital temperature controller designed for precise temperature regulation in various industrial applications. It features a clear LCD display, multiple input types (Pt100, Thermocouple, Analog), and relay control outputs, making it versatile for different control needs.



Figure 1: Front view of the Omron E5CC-RX2ASM-800 Digital Temperature Controller, showing the display and control buttons.

4. SETUP

4.1. Mounting

The E5CC-RX2ASM-800 is designed for panel mounting. Ensure the panel cutout dimensions match the controller's specifications. Insert the controller into the cutout and secure it using the provided mounting brackets. Allow sufficient space around the controller for ventilation and wiring access.

4.2. Wiring

All wiring must be done with the power supply disconnected. Refer to the wiring diagram provided with the product for specific terminal connections. Use appropriate wire gauges for power and load connections.

- **Power Supply:** Connect 100-240VAC to the designated power terminals.
- **Input:** Connect your temperature sensor (Pt100, Thermocouple) or analog input to the input terminals. Ensure correct polarity for thermocouples.

- **Control Output:** Connect your heating/cooling element or other controlled device to the relay control output terminals.
- **Alarm Outputs:** Connect external alarm indicators or devices to the two relay alarm output terminals as required.

5. OPERATING INSTRUCTIONS

5.1. Basic Operation

Once powered on, the controller's display will show the Process Value (PV) and Set Value (SV). The PV indicates the current measured temperature, while the SV is the target temperature you wish to maintain.

5.2. Setting Parameters

To change the Set Value (SV) or other operating parameters, follow these general steps:

1. Press the **Mode** or **Level** button to enter the parameter setting mode.
2. Use the **Up** and **Down** arrow buttons to navigate through parameters.
3. Press the **Set** or **Enter** button to select a parameter for editing.
4. Use the **Up** and **Down** arrow buttons to adjust the value.
5. Press **Set** or **Enter** again to confirm the new value.
6. Exit the parameter setting mode by pressing the **Mode** or **Level** button repeatedly until the normal operating display returns.

Refer to the detailed parameter list in the full product manual for specific parameter codes and their functions.

6. MAINTENANCE

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

- **Cleaning:** Periodically clean the display and front panel with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly check wiring connections for looseness or damage. Inspect the controller for any signs of physical damage or overheating.
- **Environmental Conditions:** Ensure the operating environment remains within specified temperature and humidity ranges to prevent malfunction.

7. TROUBLESHOOTING

If you encounter issues with your E5CC-RX2ASM-800, refer to the following common problems and solutions:

- **No Power:** Check power supply connections and ensure the voltage is within the specified range (100-240VAC). Verify circuit breakers or fuses.
- **Incorrect Temperature Reading (PV):** Verify the sensor type setting matches the connected sensor. Check sensor wiring for correct polarity and secure connections. Ensure the sensor is properly installed in the process.
- **Control Output Not Activating:** Check the control output wiring. Verify that the SV is set correctly and that the control mode (e.g., heating/cooling) is appropriate for your application. Check alarm settings if they are interfering.

- **Display Error Code:** Consult the comprehensive product manual for a list of error codes and their corresponding solutions.

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

8. SPECIFICATIONS

Specification	Value
Brand	Omron
Model Number	E5CC-RX2ASM-800
Power Source	Corded Electric
Voltage	100-240VAC (as per description), 240 Volts (as per specifications)
Input Type	Pt100/Thermocouple/Analog
Control Output	Relay + 2 Relay Alarm Outputs
Display Type	LCD
Control Method	Remote (as per specifications, though typically PID/ON-OFF for temperature controllers)
Mounting Type	Wall Mount (Panel Mount is typical for this model)
Item Weight	0.01 Ounces

9. WARRANTY AND SUPPORT

Omron products are manufactured to high-quality standards. For information regarding warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Omron website. For technical assistance, troubleshooting, or service, please contact Omron customer support directly. Ensure you have your model number (E5CC-RX2ASM-800) available when seeking support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question