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› Bolisila ERC111A Temperature Controller User Manual

Bolisila ERC111A

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1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Bolisila ERC111A Temperature Controller. Please read this manual thoroughly before using the device to ensure proper function and safety.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent electric shock, injury, or damage to the device:

- Ensure the power supply voltage matches the specifications of the controller.
- Disconnect power before performing any wiring or maintenance.
- All wiring should be performed by a qualified electrician in accordance with local electrical codes.
- Do not operate the device in environments with excessive moisture, dust, or corrosive gases.
- Do not disassemble or modify the controller. Refer all servicing to qualified personnel.

3. PRODUCT OVERVIEW

The Bolisila ERC111A is a compact temperature controller designed for various applications requiring precise temperature management. It features a clear digital display and intuitive controls.



Figure 3.1: Front view of the Bolisila ERC111A Temperature Controller. This image shows the digital display, power button, and up/down navigation buttons on the front panel.



Figure 3.2: Rear view of the Bolisila ERC111A Temperature Controller. This image displays the wiring terminals for power input, digital

output (DO), and sensor connections (S1, S2), along with the product specification label.

3.1 Components

- **Digital Display:** Shows current temperature and settings. (Red Display)
- **Control Buttons:** Power, Up, Down for navigation and setting adjustments.
- **Wiring Terminals:** Connections for power, digital output, and temperature sensors.

4. SETUP

4.1 Mounting

The ERC111A is designed for panel mounting. Ensure adequate space for ventilation and access to wiring terminals. Secure the controller firmly in its designated panel cutout.

4.2 Wiring

Refer to the wiring diagram on the device label (visible in Figure 3.2) and the instructions below. Ensure all connections are secure and correct before applying power.

- **Power Input (L, N):** Connect the main power supply (100-240VAC +/-10% 50/60Hz) to the 'L' (Live) and 'N' (Neutral) terminals.
- **Digital Output (DO):** Connect the controlled load (e.g., heater, cooler) to the DO terminals. The relay output is rated IEC 16(16)A.
- **Sensor Connections (S1, S2):** Connect the temperature sensors to the S1 and S2 terminals as required by your application. The label indicates connections for 'Cabinet Sensor' and 'Evapor. Condens Sensor'.
- **DO & Input/Sensors (Com.):** Ensure common connections are correctly established as per the wiring diagram.

Note: Incorrect wiring can damage the device or cause malfunction. Consult a professional if unsure.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press the **Power** button to turn the controller on or off.

5.2 Setting Temperature

Specific steps for setting the target temperature will depend on the controller's firmware. Generally, this involves:

1. Pressing a dedicated 'SET' button (if available, not explicitly visible but common).
2. Using the **Up** and **Down** buttons to adjust the desired temperature value.
3. Confirming the setting, often by pressing the 'SET' button again or waiting for a timeout.

The current temperature will be displayed on the Red Display.

5.3 Display Modes

The controller typically displays the current measured temperature. Additional display modes or parameters may be accessible via button presses, allowing viewing of set points, sensor readings, or error codes.

6. MAINTENANCE

- **Cleaning:** Wipe the controller's surface with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Sensor Check:** Periodically inspect temperature sensors for damage or corrosion. Ensure they are securely connected.
- **Wiring Inspection:** Check wiring connections for looseness or signs of wear.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Controller does not power on.	No power supply; incorrect wiring; faulty unit.	Check power connections and voltage. Verify wiring. If problem persists, contact support.
Temperature reading is inaccurate.	Faulty sensor; incorrect sensor connection; sensor placed improperly.	Check sensor wiring. Ensure sensor is correctly installed and not damaged. Replace sensor if necessary.
Output (e.g., heater) not activating.	Incorrect set point; faulty relay; wiring issue.	Verify set point and temperature differential. Check output wiring. Test the load directly if possible.

8. SPECIFICATIONS

Model: ERC111A

Manufacturer: Bolisila

Power Supply: 100-240VAC +/-10% 50/60Hz

Display Type: Red Digital Display (LCD or LED)

Digital Output (DO): IEC 16(16)A

Sensors: S1, S2 (e.g., Cabinet Sensor, Evapor. Condens Sensor)

Color: Black

ASIN: B0DHRZ2N4X

9. WARRANTY AND SUPPORT

Specific warranty details for the Bolisila ERC111A Temperature Controller are not provided in this manual. For warranty information, technical support, or service inquiries, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.

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