

LDHJBNAC PJEZC0H000

LDHJBNAC PJEZC0H000 Temperature Controller User Manual

Model: PJEZC0H000

1. INTRODUCTION

Thank you for choosing the LDHJBNAC PJEZC0H000 Temperature Controller. This device is designed for precise temperature regulation in various industrial and commercial applications. It features a highly accurate display and control system, simplified operation, and flush mounting for seamless integration. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your temperature controller.

2. SAFETY INFORMATION

- Read all instructions carefully before installation and operation.
- Ensure the power supply matches the specifications of the controller. Incorrect voltage can cause damage or malfunction.
- All wiring should be performed by a qualified electrician in accordance with local and national electrical codes.
- Disconnect power before performing any wiring, maintenance, or inspection.
- Do not operate the controller in environments with excessive moisture, dust, or corrosive gases.
- Avoid exposing the probes to extreme mechanical stress or temperatures beyond their specified range.
- This device is not intended for life-support applications where a malfunction could result in injury or death.

3. PRODUCT OVERVIEW

The LDHJBNAC PJEZC0H000 is a versatile temperature controller designed for reliable performance. It comes equipped with two probes for comprehensive temperature monitoring and control. Its key features

include:

- **Simplified Operation:** Designed for ease of use, allowing quick setting of defined values.
- **High Accuracy:** Provides highly accurate temperature display and control.
- **Mounting:** Features flush mounting and secure screw terminals for installation.
- **Wide Application:** Suitable for various sectors including light industry, chemistry, machinery, metallurgy, ceramics, petrification, food & beverage, ovens, furnaces, and plastic extruder heating processes.



Figure 3.1: LDHJBNAC PJEZC0H000 Temperature Controller with two included probes. This image shows the front panel display and control buttons, along with the two temperature sensing probes.

4. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and safety of the temperature controller. The unit is designed for flush mounting.

4.1 Mounting

1. Prepare an opening in your control panel according to the controller's dimensions (refer to specifications for exact cutout size).
2. Insert the controller into the opening from the front.
3. Secure the controller using the provided flush mounting clips or screws from the rear of the panel.

4.2 Wiring

All electrical connections should be made using the screw terminals located on the rear of the unit. Ensure all connections are tight and secure.

- **Power Supply:** Connect the main power supply to the designated power input terminals. Verify voltage and frequency match the controller's requirements.
- **Load Connections:** Connect the heating or cooling load (e.g., heater, compressor) to the relay output terminals. Observe the maximum current rating of the relay.
- **Probe Connections:** Connect the two temperature probes to their respective sensor input terminals. Ensure correct polarity if applicable.

***Note:** A detailed wiring diagram is typically provided on the unit itself or in a separate diagram sheet. Always refer to that specific diagram for precise connections.*

5. OPERATING INSTRUCTIONS

The PJEZC0H000 controller is designed for simplified operation. Once powered on, the display will show the current temperature measured by the probes.

5.1 Setting the Desired Temperature (Set Point)

To set the target temperature:

1. Press the 'SET' button once. The display will flash, showing the current set point value.
2. Use the 'UP' and 'DOWN' arrow buttons to adjust the value to your desired temperature.
3. Press the 'SET' button again to confirm the new set point. The display will return to showing the current temperature.

5.2 Advanced Settings (if applicable)

Depending on the specific model and firmware, there may be advanced parameters such as hysteresis, calibration, or alarm settings. These are typically accessed by pressing and holding the 'SET' button for several seconds, then navigating through a menu using the arrow keys. Refer to the specific parameter list provided with your unit for detailed instructions on adjusting these values.

6. MAINTENANCE

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

- **Cleaning:** Periodically wipe the display and front panel with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Connections:** Annually check all electrical connections for tightness. Loose connections can lead to intermittent operation or overheating.
- **Probe Inspection:** Inspect the temperature probes for any signs of damage, corrosion, or wear. Replace damaged probes immediately to maintain accuracy.
- **Ventilation:** Ensure that the area around the controller is free from obstructions to allow for proper heat dissipation.

7. TROUBLESHOOTING

If you encounter issues with your LDHJBNA C PJEZC0H000 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; verify voltage; inspect internal fuse (if accessible and user-serviceable).
Temperature reading is inaccurate.	Damaged probe; incorrect probe type; probe not properly inserted; calibration error.	Inspect and replace probe if damaged; ensure correct probe type is used; check probe connection; perform calibration if available.
Load (heater/cooler) does not switch.	Incorrect set point; relay malfunction; wiring error to load; load itself is faulty.	Verify set point and hysteresis settings; check load wiring; test the load independently.
Display shows error code.	Sensor fault; internal error.	Refer to the specific error code list (if provided with the unit) for diagnosis. Often indicates a probe issue.

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

8. SPECIFICATIONS

- **Model:** PJEZC0H000
- **Included Components:** Temperature Controller, 2 Probes
- **Mounting:** Flush mounting
- **Terminals:** Screw terminals
- **Display:** Highly accurate digital display
- **Package Dimensions:** Approximately 1.18 x 0.79 x 0.39 inches (30 x 20 x 10 mm)
- **Item Weight:** Approximately 7.1 ounces (200 grams)
- **Application:** Light industry, chemistry, machine, metallurgy, ceramics, petrification industry, food & beverage, oven, furnace, plastic extruder heating processes, etc.

Note: Specific electrical ratings (voltage, current, temperature range) should be verified on the product label or

accompanying documentation.

9. WARRANTY AND SUPPORT

This LDHJBNAC PJEZC0H000 Temperature Controller is covered by a standard manufacturer's warranty against defects in materials and workmanship. The duration and terms of the warranty may vary. Please retain your proof of purchase for warranty claims.

For technical support, troubleshooting assistance, or warranty inquiries, please contact the manufacturer or your authorized distributor. When contacting support, please have your product model number (PJEZC0H000) and purchase date available.

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