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Fydun ZL-7901A

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Fully Automatic Digital Temperature and Humidity Control

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the Fydun ZL-7901A Incubator Controller. This device is designed for precise and automatic control of temperature and humidity in various incubation environments, ensuring optimal conditions for successful hatching.

2. PRODUCT OVERVIEW

The Fydun ZL-7901A is a high-precision digital incubator controller capable of managing both temperature and humidity. It features a clear display and intuitive controls for easy programming and monitoring.

Key Features:

- **Precise Control:** High-accuracy temperature and humidity regulation for stable incubator environments.
- **Strong Anti-interference:** Designed for reliable operation in various conditions.
- **High Stability and Accuracy:** Ensures consistent performance for critical incubation processes.
- **Wide Application:** Suitable for a variety of eggs including chicken, duck, goose, pigeon, quail, parrot, and peacock.
- **Automatic Operation:** Fully automatic control reduces manual intervention.

Components:



Figure 2.1: Front view of the Fydun ZL-7901A Incubator Controller, showing the display and control buttons.



Figure 2.2: The ZL-7901A controller packaged with its temperature and humidity sensors and connecting cables.



Figure 2.3: The ZL-7901A controller shown in an incubator environment, demonstrating its application for egg incubation.

3. SAFETY INFORMATION

- Read all instructions carefully before installation and operation.
- Ensure the power supply voltage matches the controller's requirements (100V-240V).
- All wiring should be performed by a qualified professional to prevent electrical hazards.
- Do not expose the controller to water or excessive moisture.
- Keep the device away from flammable materials.
- Disconnect power before performing any maintenance or wiring changes.
- This device is not a toy. Keep out of reach of children.

4. SETUP AND INSTALLATION

4.1 Mounting the Controller

The ZL-7901A controller is designed for panel mounting. Ensure a secure and stable location within your incubator

setup.



Figure 4.1: Side view illustrating the mounting bracket for panel installation.

4.2 Wiring Connections

Carefully connect the power supply, sensors, and output devices (heater, humidifier, fan, egg turner) to the appropriate terminals on the back of the controller. Refer to the wiring diagram provided with your product for specific connections. Ensure all connections are tight and secure.



Figure 4.2: Rear view of the controller, showing the terminal blocks for electrical connections.



Figure 4.3: Angled view highlighting the various connection points on the controller's side.

After all connections are made, double-check them for correctness before applying power.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press the **Power button** to turn the controller on or off. The display will illuminate upon power-on. The power button is located on the right side of the controller's front panel.

5.2 Display Overview

The main display shows the current temperature and humidity readings. Additional indicators may show the status of heating, humidifying, and turning functions.

5.3 Setting Parameters

1. Press the **Settings button** (gear icon) to enter the parameter setting mode. This button is on the left side of the controller's front panel.
2. Use the **Up** (up arrow) and **Down** (down arrow) buttons to navigate through different parameters (e.g., target temperature, target humidity, egg turning interval). These buttons are on the right side of the controller's front panel.
3. Press the **Enter button** (return arrow icon) to select a parameter for editing. This button is on the right side of

the controller's front panel.

4. Use the **Up** and **Down** buttons to adjust the value.
5. Press the **Enter button** again to confirm the new value.
6. Repeat for all desired parameters.
7. Exit the setting mode by pressing the **Settings button** again or waiting for a timeout.

Note: Consult the full product manual (if provided separately) for a complete list of parameters and their functions.

5.4 Function Buttons

- **Light Button** (light bulb icon): Controls the internal light of the incubator (if connected). This button is on the left side of the controller's front panel.
- **Fn Button**: Activates special functions or enters advanced settings. Refer to the detailed manual for specific Fn button operations. This button is on the left side of the controller's front panel.

6. MAINTENANCE

6.1 Cleaning

- Ensure the controller is powered off and disconnected from the power source before cleaning.
- Wipe the exterior of the controller with a soft, dry cloth.
- Do not use abrasive cleaners, solvents, or immerse the unit in water.
- Keep the sensor probes clean and free from debris to ensure accurate readings.

6.2 Sensor Care

Handle the temperature and humidity sensors with care. Avoid bending or damaging the cables. If readings appear inaccurate, gently clean the sensor tips. Do not attempt to disassemble the sensors.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Controller does not power on.	No power supply; loose connection; faulty power cable.	Check power outlet; ensure all connections are secure; test power cable.
Inaccurate temperature/humidity readings.	Sensor dirty or damaged; sensor not properly placed; calibration needed.	Clean sensor; reposition sensor away from direct airflow/heat; refer to advanced settings for calibration (if available).
Heater/Humidifier not activating.	Output device not connected; setpoint not reached; faulty output device.	Verify wiring connections; check setpoint values; test heater/humidifier independently.
Display shows error code.	Sensor fault; internal error.	Note the error code and consult the full product manual or contact support.

8. SPECIFICATIONS

Feature	Detail
Model	ZL-7901A
Brand	Fydun
Input Voltage	100V-240V AC
Control Type	Fully Automatic Digital Temperature and Humidity Control
Accuracy	High precision for both temperature and humidity
Application	Incubators for various poultry and bird eggs
Mounting	Panel Mount

9. WARRANTY AND SUPPORT

Fydun is committed to providing quality products and excellent customer service. If you encounter any issues or have questions regarding your ZL-7901A Incubator Controller, please contact our customer service team.

For support, please refer to the contact information provided with your purchase or visit the official Fydun store on Amazon: [Fydun Amazon Store](#).

Our professional customer service team is ready to assist you promptly.