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> Aoleaby XH260L-501C0 Temperature and Humidity Controller User Manual

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Aoleaby XH260L-501C0 Temperature and Humidity Controller User Manual

Model: XH260L-501C0 | Brand: Aoleaby

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Aoleaby XH260L-501C0 Temperature and Humidity Controller. Please read this manual thoroughly before using the device to ensure proper function and safety.

2. SAFETY INFORMATION

- Ensure all wiring is performed by qualified personnel and complies with local electrical codes.
- Disconnect power before performing any installation, wiring, or maintenance.
- Do not operate the device in environments exceeding its specified operating conditions.
- Avoid exposing the device to water or excessive moisture.
- This device is designed for industrial and scientific applications. Use only as intended.

3. PRODUCT OVERVIEW

The Aoleaby XH260L-501C0 is a versatile temperature and humidity controller designed for precise environmental management. It features a user-friendly interface, fast response, and high stability for reliable long-term operation. The device also supports data recording and analysis.



Figure 3.1: Overall view of the Aoleaby XH260L-501C0 controller, showing the front panel with display and buttons, and the rear housing with mounting brackets.

3.1 Front Panel Controls and Display



Figure 3.2: Close-up of the controller's front panel, featuring a red digital display on the left and six control buttons on the right. Buttons include 'Up', 'Set Temp', 'Light', 'Down', 'Set %RH', and 'Power'.

The front panel includes a digital display for showing current temperature and humidity readings, along with various control buttons:

- **Display:** Shows current temperature, humidity, and setting parameters.
- **Up Arrow Button:** Used to increase values or navigate menus.
- **Set Temp Button:** Used to enter temperature setting mode.
- **Light Button:** Controls display backlight or other light functions.
- **Down Arrow Button:** Used to decrease values or navigate menus.
- **Set %RH Button:** Used to enter humidity setting mode.
- **Power Button:** Turns the device on or off.

4. SPECIFICATIONS

Feature	Value
Model Number	XH260L-501C0
Brand	Aoleaby
Package Dimensions	1.18 x 0.79 x 0.39 inches

Feature	Value
Item Weight	1.32 pounds (600 Grams)
Operating Temperature Range	-50°C to 100°C
Operating Humidity Range	20%~85% R.H.
Power Supply	230V AC
Power Consumption	10VA Max.
Probe Type	NTC/4-20mA

5. SETUP AND INSTALLATION

Proper installation is crucial for the accurate and safe operation of the XH260L-501C0 controller. Refer to the wiring diagram below for connection details.

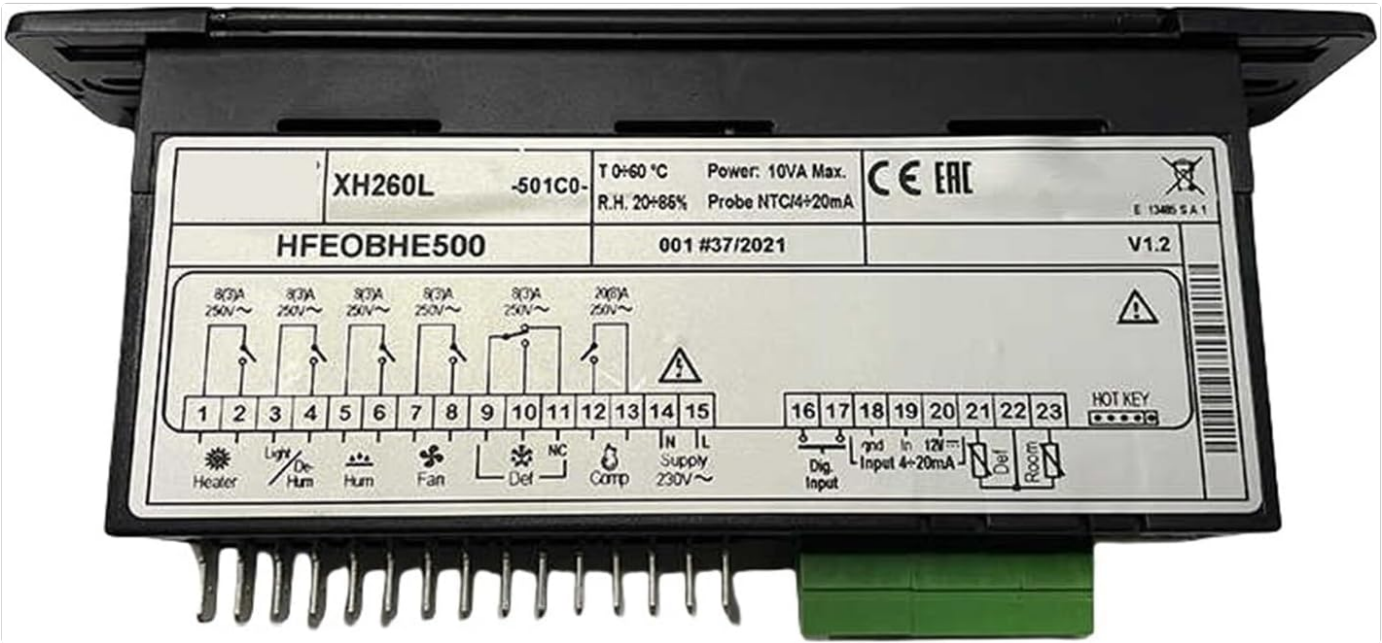


Figure 5.1: Rear label of the controller showing the wiring diagram and technical specifications. The diagram details connections for Heater, Light, Humidifier, Fan, Defrost, Compressor, Supply 230V, Digital Input, and Room Sensor.

5.1 Wiring Instructions

The wiring diagram on the back of the unit (Figure 5.1) provides detailed connection points. Ensure all connections are secure and correctly matched to their respective functions.

- Power Supply (Terminals 13, 14, 15):** Connect the 230V AC power supply to the designated terminals. Ensure proper live and neutral connections.
- Heater (Terminals 1, 2):** Connect the heating element to these terminals.
- Light (Terminals 3, 4):** Connect the lighting circuit.
- Humidifier (Terminals 5, 6):** Connect the humidifier device.
- Fan (Terminals 7, 8):** Connect the fan unit.
- Defrost (Terminals 9, 10):** Connect the defrosting element.
- Compressor (Terminals 11, 12):** Connect the compressor unit.
- Digital Input (Terminals 16, 17):** For external digital input signals.

9. **Room Sensor (Terminals 18, 19):** Connect the temperature and humidity sensor probe.

Warning: Incorrect wiring can damage the device and connected equipment, and poses a risk of electric shock. Consult a qualified electrician if unsure.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

- To power on the device, press the **Power Button** (typically marked with a circle and vertical line icon) once.
- To power off, press and hold the **Power Button** for a few seconds until the display turns off.

6.2 Setting Temperature

1. Press the **Set Temp Button**. The temperature setting value will flash on the display.
2. Use the **Up Arrow** or **Down Arrow** buttons to adjust the desired temperature.
3. Press the **Set Temp Button** again to confirm and save the setting, or wait a few seconds for it to save automatically.

6.3 Setting Humidity

1. Press the **Set %RH Button**. The humidity setting value will flash on the display.
2. Use the **Up Arrow** or **Down Arrow** buttons to adjust the desired relative humidity.
3. Press the **Set %RH Button** again to confirm and save the setting, or wait a few seconds for it to save automatically.

6.4 Data Recording and Analysis

The XH260L-501C0 controller is capable of recording temperature data. Refer to the advanced settings menu (details not provided in this manual, consult full product documentation if available) for options to export and analyze recorded data.

7. MAINTENANCE

- **Cleaning:** Gently wipe the device's exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Sensor Care:** Keep the temperature and humidity sensor clean and free from dust or debris to ensure accurate readings.
- **Inspection:** Periodically check all wiring connections for tightness and signs of wear or damage.
- **Calibration:** If accuracy issues are suspected, professional calibration may be required.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	No power supply; incorrect wiring; faulty power button.	Check power connections and source. Verify wiring according to Figure 5.1. If problem persists, contact support.
Inaccurate temperature/humidity readings.	Dirty or damaged sensor; sensor not properly connected; environmental interference.	Clean the sensor. Ensure sensor wiring is secure. Relocate the sensor if exposed to direct heat/cold sources or strong air currents.
Controller not activating connected devices (heater, fan, etc.).	Incorrect set points; faulty wiring to device; device itself is faulty.	Verify temperature/humidity set points. Check wiring to the connected device. Test the connected device independently.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the product packaging or contact Aoleaby customer service directly. Keep your purchase receipt for warranty claims.

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