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Garosa XH-W3005

Digital Humidity Controller User Manual

Model: **XH-W3005** | Brand: **Garosa**

1. Product Overview

The Garosa XH-W3005 Digital Humidity Controller is designed for precise humidity management in various applications, including dehumidification and constant humidity control. It features a clear digital display and simple operation, making it suitable for both professional and home use.



Image 1: The Garosa XH-W3005 Digital Humidity Controller, showing the main unit with its digital display and control buttons, connected to its external humidity sensor via a black cable. Input and output wires are visible.

2. Key Features

- **Easy Operation:** Simple panel with two up/down buttons for easy adjustment and use.
- **High Measurement Accuracy:** Control precision of 0.1% RH for reliable data readings.
- **Multiple Voltage Options:** Available in 12V, 24V, and 220V versions to suit different power requirements.
- **Wide Measurement Range:** Measures humidity from 0% to 99% RH, suitable for various applications.
- **Durable Construction:** Made from high-quality materials for robust and long-lasting performance.

3. Specifications

Model	XH-W3005

Weight	68g / 2.4 oz
Input Voltage Options	12V, 24V, 220V (optional)
Humidity Range	00% ~ 99% RH
Humidity Control Accuracy	0.1% RH
Power Output	120W / 240W / 1500W (depending on voltage)
Output Type	Direct Output
Mounting Space	73mm / 2.9inch
Dimensions	60 * 45 * 31mm / 2.4 * 1.8 * 1.2inch
UPC	738586392249

4. Setup and Installation

Before proceeding with installation, ensure the power supply is disconnected to prevent electrical hazards.

1. Connect the humidity controller to your circuit. Ensure all connections are secure and correct according to your wiring diagram.
2. Connect the device to the appropriate power supply (12V, 24V, or 220V, depending on your model).
3. Once powered on, the digital display will show the current humidity reading.

Important Note:
The XH-W3005 has a direct output. **Do not power on the device if the output end is not connected correctly.** Incorrect connection or accidental contact with wires could lead to sparking or other unnecessary problems.



Image 2: An angled view of the XH-W3005 controller, clearly showing the input and output wiring terminals and the connected humidity sensor cable, illustrating the connection points.

5. Operating Instructions

5.1. Setting the Starting Humidity

1. Press the **"up"** button once to display the current starting humidity value.
2. To adjust, press and hold the **"up"** button for approximately 3 seconds. The starting humidity number on the digital display will begin to flash.
3. Use the **"up"** and **"down"** buttons to set your desired starting humidity value.
4. The setting will automatically save after a few seconds of inactivity, or you can press any other button to confirm.

5.2. Setting the Humidity Threshold (Stopping Humidity)

1. Press the **"down"** button once to display the current humidity threshold value.

2. To adjust, press and hold the **"down"** button for approximately 3 seconds. The humidity number on the digital display will begin to flash.
3. Use the **"up"** and **"down"** buttons to set your desired humidity threshold.
4. The setting will automatically save after a few seconds of inactivity, or you can press any other button to confirm.



Image 3: A close-up view of the XH-W3005 controller's front panel, highlighting the digital display and the "up" and "down" control buttons, which are used for setting humidity parameters.

6. Restoring Factory Settings

To restore the device to its original factory settings:

1. Ensure the device is powered on.
2. Simultaneously press and hold both the **"up"** and **"down"** buttons.
3. The digital display will show **"888"**.

4. After a brief moment, the display will automatically switch to the current humidity detection value, indicating that the factory settings have been successfully restored.

7. Maintenance

To ensure optimal performance and longevity of your Garosa XH-W3005 Digital Humidity Controller:

- Keep the device clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the device to extreme temperatures or high humidity levels beyond its operating range.
- Regularly check all wiring connections to ensure they remain secure.
- Do not attempt to disassemble or repair the device yourself. Refer to qualified personnel for any repairs.

8. Troubleshooting

If you encounter issues with your humidity controller, consider the following common troubleshooting steps:

- **No Display/No Power:** Check all power connections. Ensure the input voltage matches the device's requirements (12V, 24V, or 220V).
- **Incorrect Humidity Reading:** Ensure the humidity sensor is clean and not obstructed. Verify that the sensor cable is securely connected to the main unit.
- **Settings Not Saving:** Ensure you are holding the buttons for the correct duration (approx. 3 seconds) until the display flashes, and allow a few seconds for the setting to save after adjustment.
- **Output Not Activating:** Confirm that the output wiring is correctly connected to your load. Remember the W3005 has a direct output and requires proper load connection before powering on.
- **Device Malfunction:** Try restoring factory settings as described in Section 6. If the issue persists, contact customer support.

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For technical support, please refer to the official Garosa website or contact your retailer.

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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.

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