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Ovenot Qiterrus6irzy9do-01

Ovenot W3230 Digital Temperature Controller User Manual

Model: Qiterrus6irzy9do-01

1. Introduction

The Ovenot W3230 Digital Temperature Controller is a versatile device designed for precise temperature regulation in various applications, including greenhouses, incubators, and industrial settings. It features a clear LED display for current and set temperatures, along with intuitive controls for easy operation. This manual provides detailed instructions for the proper setup, operation, and maintenance of your W3230 temperature controller.

2. Safety Information

Please read all safety warnings and instructions carefully before installing or operating the device. Failure to do so may result in electric shock, fire, or damage to the product.

- Ensure the power supply voltage matches the specifications of the controller (12V, 24V, or 220V depending on model).
- Disconnect power before making any wiring connections.
- All wiring should be performed by a qualified electrician if you are unsure.
- Do not expose the device to water or excessive humidity.
- Keep out of reach of children.

3. Product Overview

The W3230 controller features a compact design with a clear digital display and easy-to-use buttons. It includes a waterproof NTC temperature sensor for accurate readings.



Figure 3.1: Front view of the W3230 Digital Temperature Controller with its attached NTC temperature sensor. The display shows two sets of digits for current and set temperatures, along with control buttons.



Figure 3.2: Detailed view of the controller's front panel, highlighting the PV (Process Value) and SV (Set Value) digital displays, along with the 'SET', 'Up', 'Down', and 'Restart' buttons.



Figure 3.3: Rear view of the W3230 controller, showing the blue terminal block for power input and output connections, and the sensor input cable.



Figure 3.4: Side profile of the W3230 temperature controller, illustrating its compact depth and mounting tabs.



Figure 3.5: Another front view of the W3230, emphasizing the clarity of the LED display and the layout of the control buttons.



Figure 3.6: An angled perspective of the W3230 controller, showing its overall form factor and the integrated mounting clips.

4. Setup

4.1 Wiring Diagram

The W3230 controller has a 4-pin terminal block for power input and output. Ensure correct polarity and voltage for your specific model (12V, 24V, or 220V).

- **Pin 1 & 2:** Power Input (Connect to your DC 12V/24V or AC 220V power source).
- **Pin 3 & 4:** Output (Connect to your heating or cooling device).
- The temperature sensor cable is permanently attached and should be placed in the environment where temperature needs to be measured.

4.2 Mounting

The controller is designed for panel mounting. Cut a rectangular opening of approximately 76mm x 39mm (3.0in x 1.5in) in your panel. Insert the controller and secure it using the integrated clips on the sides.

5. Operating Instructions

5.1 Power On/Off

The device powers on automatically when connected to a power source. To turn off, disconnect the power supply.

5.2 Setting Temperature (SV)

1. Press the '**SET**' button once. The SV (Set Value) display will start flashing.
2. Use the '**Up**' (▲) and '**Down**' (▼) buttons to adjust the desired temperature.
3. Press '**SET**' again to confirm and save the setting, or wait a few seconds for it to save automatically.

5.3 Parameter Settings

To access advanced parameters:

1. Press and hold the '**SET**' button for approximately 3 seconds. The display will show 'P0'.
2. Use the '**Up**' (▲) and '**Down**' (▼) buttons to navigate through parameters (P0-P8).
3. Press '**SET**' to view the value of the selected parameter.
4. Use the '**Up**' (▲) and '**Down**' (▼) buttons to modify the value.
5. Press '**SET**' again to save the new value and return to the parameter list.
6. To exit the parameter settings, press the 'Restart' button or wait for 10 seconds without any operation.

Common Parameters:

- **P0:** Heating/Cooling Mode (H=Heating, C=Cooling)
- **P1:** Hysteresis Setting (Temperature difference for output switching)
- **P2:** Max Set Temperature Limit
- **P3:** Min Set Temperature Limit
- **P4:** Temperature Correction/Calibration
- **P5:** Delay Start Time (in minutes)
- **P6:** High Temperature Alarm
- **P7:** Data Lock (On/Off)
- **P8:** Factory Reset (Set to 'on' and press 'Restart' to reset)

5.4 Restart Function

Press the '**Restart**' button to reset the controller to its default operating state or to exit parameter settings.

6. Maintenance

To ensure the longevity and accurate performance of your W3230 temperature controller, follow these maintenance guidelines:

- **Cleaning:** Wipe the device surface with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure no liquid enters the device.
- **Sensor Care:** Keep the temperature sensor clean and free from debris. Avoid bending or damaging the sensor cable. While the sensor is waterproof, avoid prolonged submersion in corrosive liquids.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion.
- **Storage:** If storing the device for an extended period, keep it in a dry, cool place away from direct sunlight and extreme temperatures.

7. Troubleshooting

If you encounter issues with your W3230 temperature controller, refer to the following common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Display shows 'LLL' or 'HHH'	Sensor open circuit (LLL) or short circuit/temperature exceeds range (HHH).	Check sensor connection. Replace sensor if damaged. Ensure temperature is within specified range.
Controller not responding to button presses	Data lock (P7) enabled or temporary software glitch.	Check P7 parameter and disable if necessary. Press 'Restart' button. Disconnect and reconnect power.
Output not switching (heating/cooling device not turning on/off)	Incorrect P0 setting (Heating/Cooling mode), incorrect SV or hysteresis (P1), or wiring issue.	Verify P0 is set correctly (H for heating, C for cooling). Adjust SV and P1. Check output wiring to the device.
Temperature reading is inaccurate	Sensor calibration needed (P4) or sensor is faulty.	Calibrate sensor using P4 parameter. Compare reading with a known accurate thermometer. Replace sensor if consistently inaccurate.

8. Specifications

Detailed technical specifications for the Ovenot W3230 Digital Temperature Controller:

- **Model:** Qiterrus6irzy9do-01
- **Brand:** Ovenot
- **Manufacturer:** Qiterr
- **Display Type:** LED
- **Voltage Options:** 12V DC, 24V DC, 220V AC (model dependent)
- **Temperature Range:** Typically -50°C to 110°C (check specific model for exact range)
- **Measurement Input:** NTC 10K waterproof sensor
- **Output:** Relay output (e.g., 10A/250VAC)
- **Item Weight:** 1.76 ounces (0.05 Kilograms)
- **Color:** Green, Blue (display color)
- **UPC:** 784911093749

9. Warranty & Support

For warranty information or technical support, please refer to the retailer or manufacturer's official website. Keep your purchase receipt as proof of purchase.

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