Jauarta QS-WK16026

Jauarta QS-WK16026 Digital Temperature Controller

User Manual

1. Introduction

This manual provides comprehensive instructions for the safe and efficient operation of your Jauarta QS-WK16026 Digital Temperature Controller. This intelligent thermostat is designed for precise temperature regulation across a wide voltage range (AC 110-240V), suitable for various applications requiring stable temperature control.

Figure 1: Front view of the Jauarta QS-WK16026 Digital Temperature Controller.

2. Safety Information

Please read and understand all safety instructions before using this device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the power supply voltage matches the device's specified range (AC 110-240V).
- Do not operate the device with wet hands or in damp environments.

- Do not disassemble or modify the device. Refer all servicing to qualified personnel.
- Keep the device away from water, direct sunlight, and extreme temperatures.
- Ensure proper ventilation around the device.
- The ABS housing provides strong insulation; however, always handle with care to prevent damage.

3. Product Overview

The Jauarta QS-WK16026 features an intuitive display and control buttons for easy temperature management.

Figure 2: Close-up view of the display and control panel.

Components:

- **LED Digital Tube Display:** Shows actual temperature (red), set start temperature (left yellow), and set stop temperature (right yellow).
- **Start Setting Buttons:** Up/Down arrows to adjust the desired start temperature.
- **Stop Setting Buttons:** Up/Down arrows to adjust the desired stop temperature.
- **Status Light:** Indicates device operation (red light on = working, red light off = stopped).

- **Power Outlet:** For connecting the heating or cooling device.
- **Temperature Probe:** For accurate temperature measurement.

4. Specifications

Parameter	Value
Model	QS-WK16026
Display	LED Digital Tube
Temperature Measurement Range	-9°C to 99°C
Control Accuracy	1°C
Measurement Accuracy	±0.1°C
Resolution	0.1°C
Refresh Rate	0.5 seconds
Temperature Calibration Range	±9°C
Output	Relay 10A single load
Quiescent Current	≤ 40mA
Suction Current (Attracting Current)	≤ 65mA
Working Environment Temperature	-10°C to 60°C
Working Environment Humidity	20% to 85%
Working Mode	Heating or Cooling Mode
Power Cord Length	Approx. 150cm / 59in
Material	ABS

5. Setup

Follow these steps to set up your temperature controller:

1. **Connect the Temperature Probe:** Insert the temperature probe into the designated port on the controller. Ensure it is securely connected.
2. **Position the Probe:** Place the temperature probe in the area where you wish to measure and control the temperature (e.g., fish tank, greenhouse).
3. **Plug in the Device:** Connect the temperature controller's power plug into a suitable AC 110-240V power outlet.
4. **Connect Heating/Cooling Appliance:** Plug your heating or cooling appliance (e.g., heater, fan) into the power outlet on the temperature controller.

Figure 3: Temperature controller with power cord and probe connected.

6. Operating Instructions

Understanding the Display:

- The **red digital tube** in the middle displays the current actual temperature measured by the probe.
- The **left yellow digital tube** displays the set *start* temperature.
- The **right yellow digital tube** displays the set *stop* temperature.
- The **red status light** indicates when the connected appliance is active (on) or inactive (off).

Setting Temperatures:

The controller operates in either heating or cooling mode based on the relationship between the set start and stop temperatures.

1. **Set Start Temperature:** Use the "Start Setting" up/down arrow buttons to adjust the desired temperature at which the connected appliance should activate.
2. **Set Stop Temperature:** Use the "Stop Setting" up/down arrow buttons to adjust the desired temperature

at which the connected appliance should deactivate.

Operating Modes:

- **Heating Mode:** If the *Start Temperature* is set **below** the *Stop Temperature*, the controller will operate in heating mode. The appliance will turn on when the actual temperature drops below the set start temperature and turn off when it reaches the set stop temperature.
- **Cooling Mode:** If the *Start Temperature* is set **above** the *Stop Temperature*, the controller will operate in cooling mode. The appliance will turn on when the actual temperature rises above the set start temperature and turn off when it drops to the set stop temperature.

Temperature Calibration:

The device supports temperature calibration within a range of ±9°C. Specific instructions for calibration are not provided in this manual. If precise calibration is required, please contact customer support for detailed guidance.

7. Maintenance

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Probe Care:** Ensure the temperature probe is kept clean and free from debris for accurate readings. Avoid bending or damaging the probe cable.

8. Troubleshooting

If you encounter issues with your temperature controller, refer to the following common troubleshooting steps:

- **Device Not Powering On:**
  - Check if the power plug is securely inserted into a live power outlet.
  - Verify that the power outlet is functioning correctly.
- **Appliance Not Activating/Deactivating:**
  - Ensure the appliance is correctly plugged into the controller's outlet and is powered on.
  - Check if the set start and stop temperatures are appropriate for your desired heating or cooling mode.
  - Verify that the temperature probe is properly connected and positioned.
- **Inaccurate Temperature Readings:**
  - Ensure the temperature probe is clean and undamaged.
  - Verify the probe is fully immersed or positioned correctly in the environment being measured.
  - Consider if temperature calibration is needed (refer to Section 6).

If problems persist after attempting these steps, please contact customer support.

9. Warranty and Support

For warranty information or technical support, please refer to the product packaging or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.