EZAIoT EZ-V4W.723

EZAIoT Smart Thermostat

Model: EZ-V4W.723 User Manual

1. Introduction

This manual provides detailed instructions for the installation, setup, and operation of your EZAIoT Smart Thermostat, Model EZ-V4W.723. This device is designed for precise temperature control of water heating systems, including gas/combi boilers and water floor heating, offering programmable Wi-Fi connectivity for smart home integration.

2. Safety Information

- **Electrical Hazard:** Installation must be performed by a qualified electrician. Ensure power is disconnected at the main circuit breaker before installation or maintenance.
- **Voltage:** This thermostat operates on 220-240V AC. Incorrect wiring can cause damage to the device or electrical shock.
- **Compatibility:** This thermostat is designed for water heating systems (boilers, water floor heating). It is **not suitable** for electric heating products such as heating cables, films, or pads.
- **Wiring:** Follow the wiring diagram precisely. Do not connect live wires directly to the 'PC1' and 'PC2' terminals to prevent short circuits.
- Keep the device away from water and high humidity environments.

3. Product Overview

The EZAIoT Smart Thermostat EZ-V4W.723 features a modern design with advanced functionalities for efficient home heating control.



Image: EZAIoT Smart Thermostat EZ-V4W.723 displaying current room temperature and set temperature, alongside a list of its main features.

Key Features:

- **VA Screen:** Clear and easy-to-read display.
- **Weekly Programming:** Customizable 5+2, 6+1, or 7-day schedules with 6 time periods per day.
- **Power-off Memory:** Retains settings after a power outage.
- **Accurate Measurement:** Precise temperature sensing.
- **Capacitive Touch:** Responsive touch controls.
- **APP Control:** Manage settings remotely via TUYA Smart Life app.

- **Manual/Auto Mode:** Switch between manual temperature control and programmed schedules.
- **Voice Control:** Compatible with Alexa and Google Assistant for hands-free operation.
- **Antifreeze Protection:** Prevents pipes from freezing in cold conditions.
- **Clock Display:** Integrated real-time clock.

4. Installation

Professional installation is highly recommended due to the electrical nature of this device.

4.1. Dimensions and Wall Box Requirements



Image: Detailed technical drawing of the thermostat's front and side dimensions (86x86x32.6mm, 11.7mm depth from wall) and recommended wall box specifications.

- **Product Dimensions:** 86 mm (Length) x 86 mm (Width) x 32.6 mm (Depth).
- **Wall Box Size Recommendations:**
    - Length and Width: 60 mm < L & W < 86 mm
    - Depth: > 34 mm
    - Spacing of mounting holes: 60 mm

4.2. Wiring Diagram

Carefully follow the wiring instructions below. Incorrect wiring can damage the thermostat and pose a safety risk.

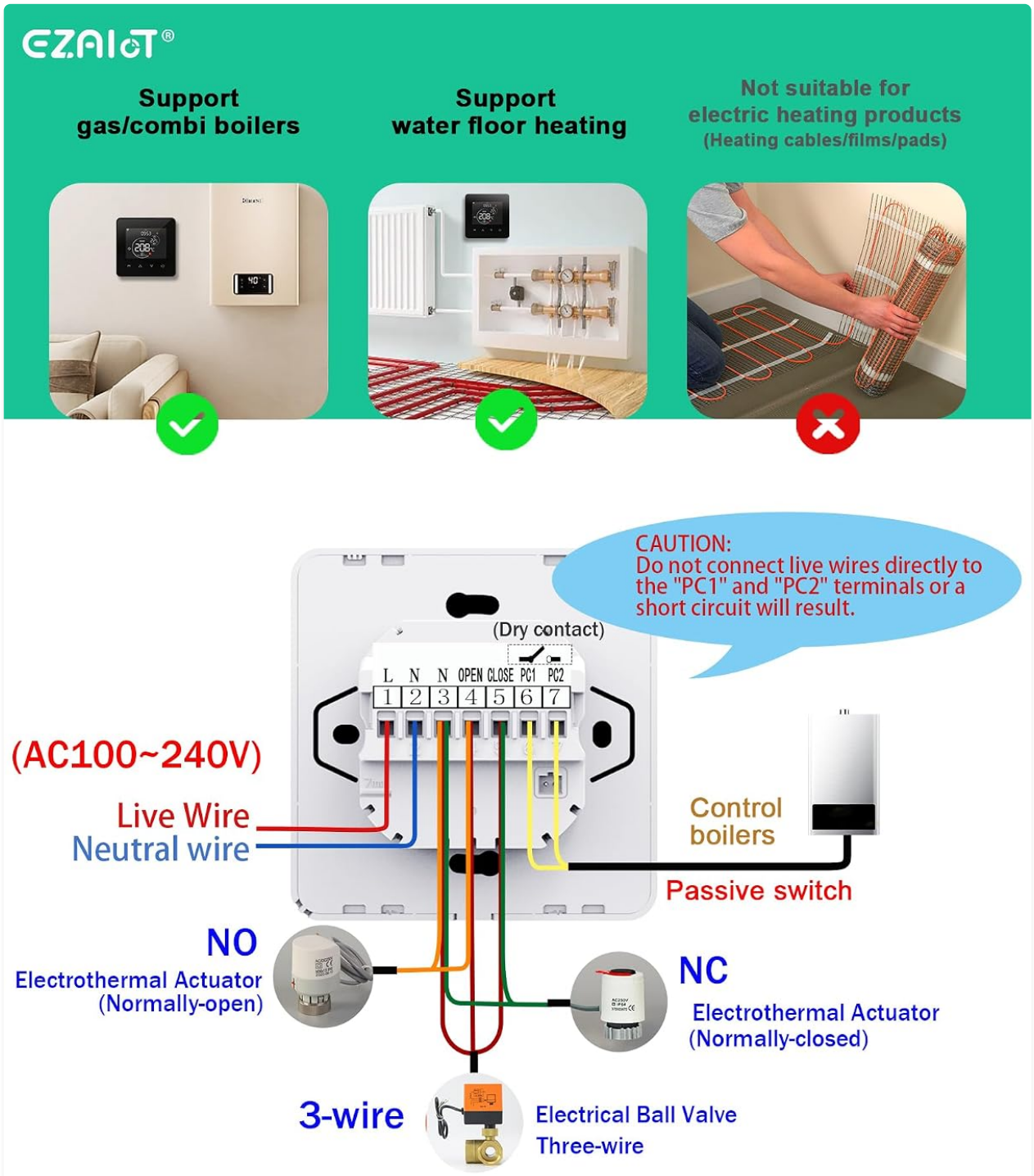


Image: Wiring schematic for the thermostat, illustrating connections for AC100~240V Live and Neutral wires, boiler control (passive switch), and normally-open (NO) and normally-closed (NC) electrothermal actuators, including a 3-wire electrical ball valve.

- **L (Live Wire):** Connect the main live power supply (AC100~240V).
- **N (Neutral Wire):** Connect the main neutral power supply (AC100~240V).
- **1, 2 (Boiler Control / Passive Switch):** These terminals are for connecting to your boiler's control input. They act as a passive switch.
- **3, 4 (NO - Normally Open):** For Normally-Open Electrothermal Actuators.
- **5, 6 (NC - Normally Closed):** For Normally-Closed Electrothermal Actuators.
- **7 (3-wire):** For 3-wire Electrical Ball Valves.

CAUTION: Do not connect live wires directly to the 'PC1' and 'PC2' terminals (labeled as 1 and 2 in the diagram) or a short circuit will result. These terminals are for boiler control signals only.

4.3. Compatibility

- Supports gas/combi boilers.
- Supports water floor heating systems.
- **Not suitable for electric heating products** (e.g., heating cables, films, pads).

5. Initial Setup and App Connection

To utilize the smart features of your thermostat, connect it to your home Wi-Fi network and the TUYA Smart Life application.

1. **Download the App:** Download the 'TUYA Smart Life' app from your smartphone's app store (available for Android and iOS).
2. **Register/Log In:** Create an account or log in to your existing TUYA Smart Life account.
3. **Add Device:** In the app, tap '+' to add a new device. Select 'Small Home Appliances' > 'Thermostat' or use the auto-scan feature.
4. **Pairing Mode:** Follow the on-screen instructions in the app to put your thermostat into pairing mode. This usually involves pressing and holding a button on the thermostat until a Wi-Fi indicator blinks rapidly.
5. **Connect to Wi-Fi:** Enter your Wi-Fi network name and password in the app. Ensure your phone is connected to a 2.4GHz Wi-Fi network (5GHz networks are generally not supported by smart home devices).
6. **Completion:** Once connected, the app will confirm the successful addition of the thermostat. You can then rename the device and configure initial settings.

6. Operation

6.1. Manual and Automatic Modes

- **Manual Mode:** Allows you to set a desired temperature directly on the thermostat or via the app. The thermostat will maintain this temperature until changed.
- **Automatic (Program) Mode:** Follows the pre-set weekly schedule.
- Switch between modes using the 'M' button on the thermostat or through the app interface.

6.2. Weekly Programming

The thermostat supports flexible weekly programming with 6 time periods per day. You can choose between 5+2 days (weekdays/weekend), 6+1 days, or 7 individual days programming.



Image: An illustrative weekly programming schedule showing six events (Wake up, Leave (am), Return (am), Leave (pm), Return (pm), Sleep) with corresponding time and temperature settings (e.g., Wake up: Event 1, 20°C).

To set up your weekly program:

1. Access the programming menu on the thermostat or through the TUYA Smart Life app.
2. Select your preferred programming mode (5+2, 6+1, or 7 days).
3. For each day and each of the 6 time periods, set the desired start time and target temperature.
4. Save your settings. The thermostat will now automatically adjust the temperature according to your schedule.

6.3. Temperature Adjustment

- In Manual Mode, use the up/down arrows on the thermostat or the app to change the target temperature.
- In Automatic Mode, a temporary adjustment will override the schedule until the next programmed event.

6.4. Voice Control

Once connected to the TUYA Smart Life app, you can link your thermostat to Amazon Alexa or Google Assistant for voice control. Refer to the respective voice assistant app for instructions on linking smart home devices.

7. Maintenance

- **Cleaning:** Wipe the thermostat's screen and body with a soft, dry cloth. Do not use abrasive cleaners, solvents, or chemical sprays.
- **No User-Serviceable Parts:** Do not attempt to open or repair the thermostat yourself. This will void the warranty and could pose a safety risk.

8. Troubleshooting

- **Thermostat not powering on:** Check the main circuit breaker and ensure all wiring connections are secure and correct according to the diagram.
- **No Wi-Fi connection:** Ensure your Wi-Fi router is on and broadcasting a 2.4GHz signal. Check that the thermostat is within range of your router. Try restarting the thermostat and your router.
- **Temperature not changing:** Verify the thermostat is in the correct operating mode (Manual or Auto). Check the set temperature. Ensure the boiler or heating system is functioning correctly.
- **App not controlling thermostat:** Ensure both your phone and the thermostat are connected to the internet. Restart the app.
- **Short circuit upon power-on:** Immediately disconnect power. Re-check all wiring, especially the boiler control terminals (PC1/PC2), to ensure no live wires are connected to them. This indicates a serious wiring error.

9. Specifications

Feature	Specification
Brand	EZAIoT
Model Number	EZ-V4W.723
Dimensions (L x W x H)	8.6 x 8.6 x 4.5 cm
Weight	200 g
Power Consumption	1.5 Watts
Voltage	230 Volts (AC100~240V)
Connectivity Technology	Wi-Fi (2.4GHz)
Specific Uses	Boiler, Water Heating

Temperature Control Type	Heating
Special Features	Clock Display, Temperature Display, Programmable, Automatic Programming, Antifreeze Protection
Shape	Square
Finish Type	Polished

10. Warranty and Support

Warranty information for the EZAIoT Smart Thermostat EZ-V4W.723 is not provided within this document. For details regarding warranty coverage, technical support, or spare parts availability, please contact your retailer or the manufacturer directly.