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EZAIoT EZ-TRV901W

EZAIoT Smart Radiator Thermostat EZ-TRV901W User Manual

Model: EZ-TRV901W

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your EZAIoT Smart Radiator Thermostat, model EZ-TRV901W. Please read this manual thoroughly before use to ensure proper functionality and safety. Keep this manual for future reference.

2. SAFETY INFORMATION

- Do not attempt to disassemble or repair the device yourself. Refer all servicing to qualified personnel.
- Keep the device away from water, moisture, and extreme temperatures.
- Ensure batteries are inserted with correct polarity. Replace all batteries at the same time with new ones of the same type.
- This device is designed for indoor use only.
- Keep packaging materials out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Smart Radiator Thermostat (EZ-TRV901W) x 1
- Valve Adapters x 6 (for various valve types)

- AA Batteries x 2 (pre-installed or included)
- User Manual (English) x 1



Image: Contents of the EZAloT Smart Radiator Thermostat package, showing the main unit, six different valve adapters, and two AA batteries.

4. PRODUCT OVERVIEW

The EZAloT Smart Radiator Thermostat EZ-TRV901W is a compact, WiFi6-enabled device designed to control your radiator heating system efficiently. It features a clear OLED color display and can be controlled via a smartphone application.

Key Features:

- **WiFi6 Connectivity:** Ensures stable and low-latency connection for remote control.
- **OLED Color Display:** Provides clear temperature readings and settings, with a 4-way rotation function for optimal viewing angles.
- **Compact Design:** With a diameter of 50mm, it fits into narrow spaces.
- **PID Precision Control:** Optimizes heating for energy efficiency.
- **App Control:** Manage and program schedules via the Tuya Smart Life app.
- **Voice Control Compatibility:** Works with Alexa, Google Home, and Home Assistant.
- **Safety Features:** Child lock, frost protection, and automatic anti-calc function.



Image: The EZALoT Smart Radiator Thermostat displaying its current temperature, alongside a smartphone screen showing the corresponding control interface in the app.

Wi-Fi 6 Energiesparendes Design



Image: A visual breakdown of the thermostat's features, highlighting its internal components, compact dimensions (50mm diameter), OLED color display, and the ability to rotate the display for better viewing.

5. INSTALLATION

The EZAIoT Smart Radiator Thermostat is designed for easy DIY installation. Follow these steps to replace your existing radiator valve:

- 1. Prepare the Radiator:** Turn off your heating system and allow the radiator to cool down.
- 2. Remove Old Thermostat:** Unscrew your existing thermostatic radiator valve head. No need to drain water from the radiator.

- Select Adapter:** Identify the correct adapter from the included set that matches your radiator valve. The thermostat is compatible with most common radiator valves (e.g., M30 x 1.5).
- Install Adapter (if needed):** If an adapter is required, screw it onto the radiator valve body.
- Attach Thermostat:** Place the EZALoT Smart Radiator Thermostat onto the adapter or directly onto the valve body and tighten it securely.
- Insert Batteries:** Ensure the two AA batteries are correctly inserted into the thermostat.



Image: A hand demonstrating the installation of the smart thermostat onto a radiator. An inset displays different types of valve adapters for compatibility with various radiator valves.

6. APP CONNECTION AND CONFIGURATION

Control your EZALoT Smart Radiator Thermostat remotely using the Tuya Smart Life application.

- Download App:** Download the "Tuya Smart Life" app from your smartphone's app store (iOS or Android).
- Register/Log In:** Create an account or log in to your existing account.
- Add Device:** In the app, tap the "+" icon to add a new device. Select "Radiator Thermostat" or search for the device type.
- Pairing Mode:** Follow the app's instructions to put the thermostat into pairing mode. This usually involves a long press on a button on the thermostat until a pairing indicator appears on the display.
- Connect to WiFi:** Select your 2.4GHz WiFi network and enter the password. The thermostat will connect directly to your WiFi network without the need for a separate gateway.
- Name Device:** Once connected, you can name your thermostat (e.g., "Living Room Radiator").



Image: An illustration depicting the smart thermostat wirelessly connecting to a home WiFi router, emphasizing that no additional hub is required for its operation.

7. OPERATING INSTRUCTIONS

7.1 Manual Control

You can adjust the temperature directly on the thermostat by rotating the main body. The OLED display will show the target temperature. The display can be rotated 0°/90°/180°/270° for optimal readability, especially in hard-to-reach areas.

7.2 App Control and Programming

Use the Tuya Smart Life app for comprehensive control:

- Set Temperature:** Adjust the target temperature from anywhere.
- 7-Day Programming:** Create custom heating schedules for each day of the week to match your routine and save energy.
- Holiday Mode:** Set a specific temperature for an extended period when you are away.
- Child Lock:** Activate the child lock feature to prevent unauthorized changes to settings on the device.
- Window Open Detection:** The thermostat can detect sudden drops in temperature (e.g., when a window is opened) and temporarily pause heating to prevent energy waste.
- Frost Protection:** Automatically maintains a minimum temperature to prevent pipes from freezing.



Image: Visual representation of the thermostat's advanced features, including PID temperature control for stable heating, voice control capability, automatic window opening detection, and a robust child lock system.

7.3 Energy Efficiency (PID Control)

The thermostat utilizes precise PID (Proportional-Integral-Derivative) control to minimize temperature fluctuations and optimize heating cycles. This technology, combined with scheduled programming and window open detection, helps reduce heating costs significantly by only heating when necessary.



Image: A graph demonstrating the effectiveness of the PID algorithm in maintaining a stable room temperature, illustrating quick response and precise temperature regulation for energy savings.

7.4 Voice Control

Integrate your EZALoT thermostat with popular voice assistants for hands-free control:

- **Amazon Alexa:** Link your Tuya Smart Life account to Alexa. Use commands like "Alexa, set Living Room to 22 degrees."
- **Google Home:** Link your Tuya Smart Life account to Google Home. Use commands like "Hey Google, turn up the heat in the bedroom."
- **Home Assistant:** The thermostat is compatible with Home Assistant for advanced smart home setups.



Image: A woman relaxing in bed, using voice commands to control her heating system via a smart speaker, illustrating the convenience of voice operation for the smart thermostat.

8. MAINTENANCE

8.1 Battery Replacement

The thermostat is powered by two AA batteries. When the battery indicator on the OLED display shows low power, replace both batteries promptly. Ensure correct polarity when inserting new batteries.

8.2 Cleaning

Clean the thermostat's exterior with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the device in water.

9. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|--------------------------------------|--|--|
| Thermostat not turning on | Dead or incorrectly inserted batteries. | Replace batteries with new ones, ensuring correct polarity. |
| Cannot connect to WiFi | Incorrect WiFi password, 5GHz network selected, or thermostat too far from router. | Ensure correct 2.4GHz WiFi password. Move thermostat closer to router. Restart router and thermostat. |
| Temperature not regulating correctly | Thermostat not properly installed on valve, or valve stuck. | Check installation and ensure the thermostat can move the valve pin freely. Manually check if the radiator valve is functioning. |
| App shows device offline | WiFi connection lost or internet outage. | Check your home WiFi and internet connection. Restart the thermostat. |

10. SPECIFICATIONS

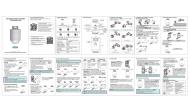
- Brand:** EZALoT
- Model Number:** EZ-TRV901W
- Dimensions:** 50mm (diameter) x 82.7mm (height)
- Weight:** 128 g
- Material:** Acrylonitrile Butadiene Styrene (ABS)
- Connectivity:** WiFi6 (2.4GHz)
- Power Source:** 2 x AA Batteries
- Special Features:** Low battery indicator, Temperature indicator, Holiday mode, Programmable, Frost protection
- Controller Type:** Smart Life App
- Specific Uses:** Radiator heating

11. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official EZAIoT website. If you encounter any issues not covered in this manual, please contact customer service for assistance.

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Related Documents - EZ-TRV901W

| | |
|---|---|
|  | <p>LED Display Electronic Radiator Thermostatic Valve User Manual and Technical Specifications</p> <p>Detailed user manual and technical specifications for the LED Display Electronic Radiator Thermostatic Valve, covering installation, operation, programming, and troubleshooting.</p> |
|  | <p>EZAIOT TRV706W LED Wi-Fi Smart Thermostat Radiator Valve User Manual</p> <p>Comprehensive user manual for the EZAIOT TRV706W LED Wi-Fi Smart Thermostat Radiator Valve. Learn about installation, features, technical specifications, modes, troubleshooting, and voice control with Alexa and Google Home.</p> |
|  | <p>EZAIOT LED Wi-Fi Smart Thermostat Radiator Valve User Manual and Installation Guide</p> <p>Comprehensive guide for the EZAIOT LED Wi-Fi Smart Thermostat Radiator Valve, covering installation, setup, main functions, technical specifications, troubleshooting, and voice control integration with Alexa and Google Home.</p> |
|  | <p>EZAIoT IPS Smart Thermostat User Manual and Specifications</p> <p>Comprehensive guide for the EZAIoT IPS Smart Thermostat, covering features, operation, Wi-Fi setup, scheduling, and technical specifications. Compatible with Alexa and Google Assistant.</p> |
|  | <p>EZAIOT LED Bluetooth Thermostatic Radiator Valve User Manual</p> <p>Comprehensive user manual for the EZAIOT LED Bluetooth Thermostatic Radiator Valve. This guide covers installation, app control using the Smart Life app, voice integration with Amazon Alexa and Google Assistant, detailed features, technical specifications, and troubleshooting. It provides step-by-step instructions for setup and operation.</p> |
|  | <p>EZAIOT TRV701W Smart WiFi Thermostatic Radiator Valve User Manual</p> <p>User manual for the EZAIOT TRV701W, a Tuya Smart WiFi Thermostatic Radiator Valve Actuator. This programmable controller allows remote heating temperature management and integrates with Alexa and Google Home for efficient home climate control.</p> |