EZAIoT EZ-R7C.716-WS

EZAIoT Smart WiFi Thermostat for Underfloor Heating
Model: EZ-R7C.716-WS

1. INTRODUCTION

Thank you for choosing the EZAIoT Smart WiFi Thermostat. This device is designed to provide intelligent control over your electric underfloor heating system, enhancing comfort and energy efficiency in your home. Featuring a 2.8-inch color display, it offers advanced functionalities such as humidity and weather information, weekly programming, and remote control via the Smart Life or Tuya app. Please read this manual thoroughly before installation and operation to ensure proper use and optimal performance.

2. SAFETY INFORMATION

- **Electrical Installation:** Installation must be performed by a qualified electrician in accordance with local electrical codes and regulations. Ensure the main power supply is disconnected before any wiring work.
- **Voltage:** This thermostat operates at 230 Volts. Verify your power supply matches this requirement.
- **Water Exposure:** Do not install the thermostat in areas where it may be exposed to water or excessive humidity, unless specifically rated for such environments.
- **Children Safety:** Keep the device out of reach of children. The key lock function can prevent unintended changes.
- **Operating Temperature:** Ensure the operating environment is within the specified temperature range to prevent damage.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- EZAIoT Smart WiFi Thermostat
- User Manual
- Mounting Screws
- External Temperature Sensor (NTC 10K)

4. PRODUCT OVERVIEW AND FEATURES

The EZAIoT Smart WiFi Thermostat offers a range of features for intelligent heating control:

- **Upgraded 2.8-inch Color Screen:** Provides a clear and intuitive display of temperature, heating status, humidity, and weather conditions. Icons indicate when the heating valve is active.
- **Humidity and Weather Display:** Connects to Wi-Fi to show local weather conditions and humidity, offering more comprehensive environmental information.
- **Weekly Heating Program:** Supports 3 weekly modes (5+2, 6+1, 7 days) with 6 programmable heating periods per day, allowing for optimized energy savings.
- **App Remote Control:** Fast and easy connection to the Smart Life/Tuya app for remote control of your thermostat from anywhere, preventing unnecessary heating.
- **Frost Protection:** Activates automatically to prevent pipes from freezing when low temperatures are detected.
- **Key Lock:** Prevents unauthorized access or accidental changes to settings.
- **Power-loss Memory:** Retains settings even after a power outage.

Image: The EZAIoT Smart Thermostat with its colorful display, showing integration with Google Assistant and Amazon Alexa.

5. SPECIFICATIONS

Attribute	Value
Brand	EZAIoT
Model	EZ-R7C.716-WS
Color	White Silver
Product Dimensions	4.4 x 8.6 x 8.6 cm
Weight	240 g
Power (W)	1.8 W

Voltage	230 Volts
Connectivity Protocol	Wi-Fi
Mounting Type	Wall Mount
Backlight	Yes

6. INSTALLATION AND SETUP

6.1. Physical Installation and Wiring

Warning: Disconnect power at the circuit breaker before beginning installation to prevent electrical shock.

1. **Mounting:** The thermostat is designed for wall mounting. Ensure you have a standard electrical box for installation.

2. **Wiring:** Connect the thermostat according to the wiring diagram. This model is for electric underfloor heating systems (16A Max, 220V). The external temperature sensor (NTC 10K) should also be connected.
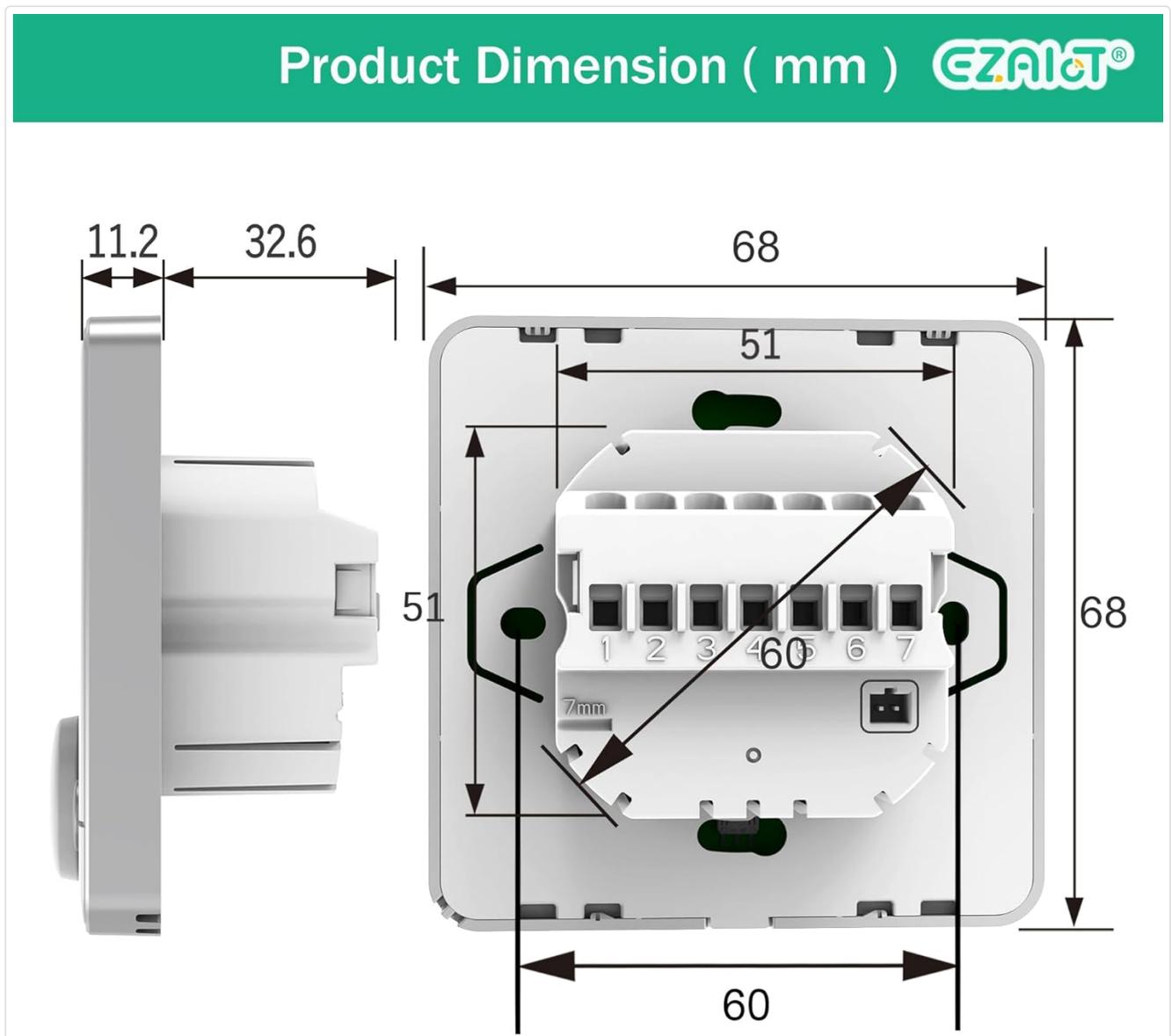

Image: Detailed wiring diagram showing connections for Line (L), Neutral (N), Common (COM), Load Out (LOUT), and external temperature sensor (NTC1, NTC2).

Image: Dimensional drawing of the thermostat, showing front and side views with measurements in millimeters.

6.2. Initial Power-On and Wi-Fi Connection

After successful wiring and mounting, restore power. The thermostat will power on. Follow the on-screen instructions or refer to the app's guide for Wi-Fi setup. The thermostat uses a fast networking technology for quick connection to the Smart Life or Tuya app.

7. OPERATING INSTRUCTIONS

7.1. Basic Controls and Display

The thermostat features a 2.8-inch color screen and a rotary dial for navigation and setting adjustments. The screen displays current room temperature, set temperature, humidity, and local weather conditions (after Wi-Fi connection).

Image: Multifunction screen of the thermostat, displaying icons for Wi-Fi setting, Auto Mode, Cloud Service, Engineer Mode, System Setting, and Back.

7.2. Setting Temperature

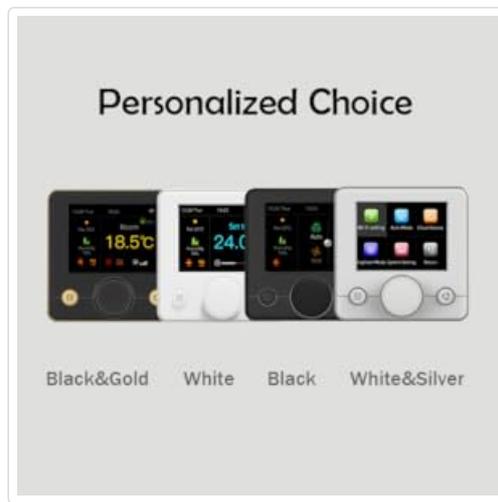Rotate the dial to adjust the desired temperature. The new setpoint will be displayed prominently on the screen.

Image: A hand precisely adjusting the temperature using the thermostat's rotary dial.

7.3. Weekly Programming

The thermostat supports flexible weekly programming with 3 modes: 5+2 days (weekday/weekend), 6+1 days (single day off), or 7 individual days. Each day can have up to 6 distinct heating periods. This allows you to customize your heating schedule to match your lifestyle and save energy.

1. Access the programming menu through the thermostat's interface or the mobile app.

2. Select your preferred weekly mode (5+2, 6+1, or 7 days).

3. Set the desired temperature and time for each of the 6 periods (e.g., Wake up, Leave (am), Return (am), Leave (pm), Return (pm), Sleep).

Image: A mobile app screenshot illustrating the weekly programming interface with six time periods for weekdays and weekends.

7.4. App Remote Control (Smart Life/Tuya)

Download the Smart Life or Tuya app from your smartphone's app store. After connecting the thermostat to your home Wi-Fi network, you can control it remotely from anywhere. The app allows you to:

- Adjust temperature settings.

- Modify weekly heating schedules.

- Monitor current room temperature, humidity, and weather.

- Enable/disable frost protection.

- Share device control with family members.

EZAIoT® **Multifunction**

Room Humidity

Outdoor Humidity

Target Temperature

Room Heating

App Control

Key Control

Frost Protection

Key Lock

Date & Time

Power-loss Memory

Local weather

Wi-Fi

Wi-Fi setting Auto Mode Cloud Service

Englneer Mode System Setting Back

EZAIoT

Image: A mobile phone screen showing the Smart Life app, demonstrating remote control capabilities for the thermostat.

7.5. Voice Control (Alexa/Google Home)

Once connected to the Smart Life/Tuya app, you can integrate your thermostat with Amazon Alexa or Google Home for voice control. Follow the instructions within the Smart Life/Tuya app to link your account with your preferred voice assistant.

8. MAINTENANCE

- **Cleaning:** Wipe the thermostat's screen and body with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **No User-Serviceable Parts:** The thermostat contains no user-serviceable parts. Do not attempt to open or repair the device yourself.

9. TROUBLESHOOTING

- **Thermostat not powering on:** Check the main power supply and circuit breaker. Ensure wiring is correct according to the installation diagram.

- **Wi-Fi connection issues:** Ensure your Wi-Fi network is 2.4GHz. Check your router's signal strength near the thermostat. Restart the thermostat and your router, then attempt to reconnect via the app.

- **Inaccurate temperature readings:** Verify the external temperature sensor is correctly installed and not obstructed.

- **Heating not activating:** Check the set temperature is higher than the current room temperature. Ensure the thermostat is not in an 'Off' or 'Frost Protection' mode if heating is desired. Verify wiring connections to the heating element.

- **App control not working:** Ensure your phone has an active internet connection. Check if the thermostat is still connected to Wi-Fi. Log out and back into the Smart Life/Tuya app.

10. WARRANTY AND SUPPORT

This EZAIoT Smart WiFi Thermostat comes with a **12-month warranty** for replacement or refund. For any installation assistance, technical issues, or warranty claims, please contact EZAIoT customer support. Our support team is available to provide assistance.
Please refer to the product packaging or the EZAIoT official website for specific contact details.