EVVR

Energy Monitoring Smart Relay 20A

Instruction Manual

Rev. J-010524 v1.2

P/N CHW01P

Thank you for purchasing the **EVVR Energy Monitoring Smart Relay 20A**.

This Relay, which supports a maximum current of 20 A, is designed to make almost any conventional home appliances smart. It is HomeKit-enabled, allowing you to effortlessly manage appliances connected over your iPhone. The Relay can continuously monitor appliances' electricity usage, and you can check such information on the EVVR app. The EVVR app also provides other features, such as scheduled power-on and -off, conditional power-on and -off, and firmware update.
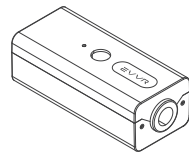
Safety Precautions

- To avoid electric shock, DO NOT splash water on the device or touch the **Switch Button** with wet hands.
- Turn off the power at the AC mains before wiring.
- Improper use or improper installation can cause damage/loss of property, injury, or even fatal accidents.
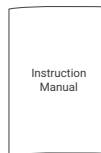
- This product is intended for indoor use only.
- Metal casings, mirrors, electrical appliances, etc., may affect, reduce, or interfere with wireless communication.
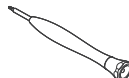
What's in the Box
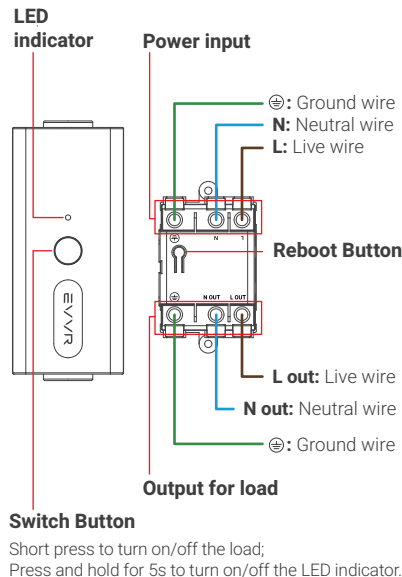

Energy Monitoring Smart Relay

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T4 Screws

T4 Screwdriver

Technical Specifications

Input	AC 85 V~245 V 50/60 Hz
Max. Load	20 A
Wireless Standard	IEEE 802.11 b/g/n Wi-Fi 2.4 GHz
Standby Power Consumption	0.54 W
Operating Temperature	-20~60°C (-4°~140°F)
Product Size (L × W × H)	95 mm × 42.8 mm × 32 mm (3.74 in. × 1.69 in. × 1.26 in.)

Part Names

LED indicator

Power input

⊕: Ground wire
N: Neutral wire
L: Live wire

Reboot Button

L out: Live wire

N out: Neutral wire

⊕: Ground wire

Output for load

Switch Button
Short press to turn on/off the load;
Press and hold for 5s to turn on/off the LED indicator.
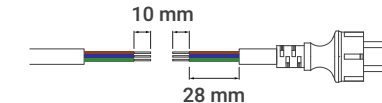
Indicator Light Status

- **Blue blinking (continuous)**: The Relay is in the setup mode.
- **Blue blinking (3 blinks)**: The Button is disabled.
- **Blue steady:** The Relay works normally.
- **Red blinking (continuous)**: Wi-Fi is unavailable.
- **Red blinking (2 blinks)**: The Relay is restored to factory settings.
- **Red blinking (3 blinks)**: The Relay is overloaded or exceeds the temperature limit.
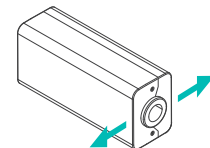- **Red steady:** The Relay is not paired.

Wiring

For your safety, we recommend that you ask a professional electrician for help installing this Relay.

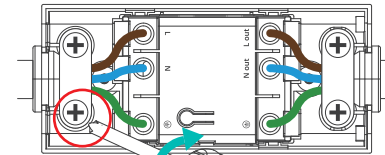**For appliances that have three wires (live, neutral & ground wires):**

1. Turn off the power at the AC mains.
2. Cut the power cable connecting the appliance into two segments. Strip each segment to expose 10 mm of each of the three wires. Then, identify the live wire, neutral wire, and the ground wire.

10 mm

28 mm

3. Open the exterior case of the Relay.

4. Connect the wires of the power cable to the Relay as follows, and fasten the wires with screws.

■ **Live**
■ **Neutral**
■ **Ground**

On the AC mains side of the Relay
L - the live wire
N - the neutral wire
⊕ - the ground wire

On the Appliance side of the Relay
L OUT - the live wire
N OUT - the neutral wire
⊕ - the ground wire

5. Fasten the exterior case with two T4 screws and the screwdriver.
6. Connect the plug to the AC mains. Turn on the power at the AC mains.

For appliances that have two wires (live & neutral wires, no ground wire), follow the preceding steps, but skip the connection of the ground wire.

Setup Instructions

iOS

1. Open the Home app, tap "+", and then tap **Add Accessory**.
2. Locate and scan the setup code on the front page of this manual. Follow in-app instructions.
3. Download the EVVR app from the Apple App Store (QR code below).

Android

1. Download the EVVR app from Google Play Store (QR code below).
2. Tap "+" and then **Add Wi-Fi Device**.
3. Locate and scan the setup code on the front page of this manual. Follow in-app instructions.

Note: The setup mode will exit if there is no action performed in 10 minutes. To enter setup mode again, disconnect the Relay from power and connect it to power again.

Restore to Factory Settings

There are two methods to restore the Relay to factory settings:

1. Using Switch Button on the exterior of the plastic case

i. Disconnect the Relay from power.
ii. While pressing and holding the Button, reconnect the Relay to power.
iii. Keep holding the Button for another 10 seconds until the red LED blinks twice.

2. Using Reboot Button on the interior of the plastic case

Press and hold Reboot Button for 5 seconds until the red LED blinks twice.

Troubleshooting

Q1. Smart Relay pairing failed.

1. Move the Relay close to the Wi-Fi router.
2. Restore the Relay to factory settings and try again.

Q2. Smart Relay cannot be controlled by Apple Home app.

1. Ensure good network connectivity.
2. Ensure that the Relay and your phone are in the same network.

Legal Notice

Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Apple, HomeKit, HomePod, HomePod mini, iPad, iPhone and Apple TV are trademarks of Apple Inc., registered in the U.S. and other countries and regions.

Certifications (Regional)

FCC ID: 2A68U-CHW01P

FCC Statement
This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

 - Reorient or relocate the receiving antenna.
 - Consult the dealer or an experienced technician for help.

Important Announcement Important Note Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Disposal Instructions

This product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Warranty Policy

For warranty information, please visit
https://www.evvr.io/warranty

Contact Us

E-mail:
support@evvr.io

Website:
https://docs.evvr.io/

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