

ETEK ELECTRIC R3 Series APP Wifi Smart MCB



# ETEK ELECTRIC R3 Series APP Wifi Smart MCB User Guide

[Home](#) » [ETEK Electric](#) » ETEK ELECTRIC R3 Series APP Wifi Smart MCB User Guide 

## Contents

- [1 ETEK ELECTRIC R3 Series APP Wifi Smart MCB](#)
- [2 Usage Instructions](#)
- [3 WIFI EQUIPMENT DISTRIBUTION NETWORK](#)
- [4 ZIGBEE EQUIPMENT DISTRIBUTION NETWORK](#)
- [5 485 Dry Contact Equipment Distribution Network](#)
- [6 Main technical parameters](#)
- [7 Installation matters](#)
- [8 Product size and wiring method](#)
- [9 FAQ](#)
- [10 Product Warranty](#)
- [11 Documents / Resources](#)
  - [11.1 References](#)



**ETEK ELECTRIC R3 Series APP Wifi Smart MCB**



### Specifications:

- Brand: ETEK ELECTRIC
- Model: R3 Series Tuya APP Wifi Smart MCB
- Country of Origin: China
- Remote Control: Yes
- Wireless Connectivity: WiFi, Zigbee

### Product Description:

The R3 Smart Switch is a building electrical terminal power distribution device developed by ETEK ELECTRICAL TECHNOLOGY CO., LTD for smart and safe power consumption and energy management systems. This product is an IoT intelligent circuit breaker that uses electronic technology to control the normal operation of traditional circuit breakers. It features remote opening and closing control, local mode selection, timing opening and closing settings, and more.

### Usage Instructions

#### WiFi Setup:

1. Download the Tuya Smart App from the Android application market or the App Store.
2. Click the + button in the upper right corner of the app to add a device.
3. Press the device distribution button until the indicator light flashes.
4. Connect your mobile phone to the WiFi signal (switch to 2.4GHz if needed).
5. Enter the WiFi password and wait for the connection to succeed.

#### Zigbee Setup:

1. Download and install the Tuya Smart App from the Android application market or App Store.

2. Add the Zigbee gateway on the device adding interface.
3. Select the corresponding Zigbee gateway.
4. Connect your mobile phone to the WiFi signal (switch to 2.4GHz if needed).
5. Enter the WiFi password and wait for the connection to succeed.

Dry Contact Equipment Setup:

#### **Dry Contact Control Instructions:**

- Dry contact 1 signal: Short IN1 and G to close the product.
- Dry contact 2 signal: Short IN2 and G to open the product.

#### **Dangers and Warnings:**

This equipment should only be installed by professionals.

Failure to comply with the instructions may result in failures for which the manufacturer bears no responsibility. Be cautious of electric shock, burns, or explosions. Ensure proper installation and maintenance by qualified personnel.

#### **MATTER NEEDING ATTENTION:**

- Make sure the device is powered on when binding.
- Ensure to enter the distribution network state when binding.
- Make sure the network signal is 2.4GHz when binding.

#### **FAQ:**

**Q:** Can I control multiple devices with this circuit breaker?

**A:** Yes, you can control multiple devices through the Tuya Smart App by adding them to the device interface individually.

No.288 Wei 17th Road,Economic Development  
Zone,Yueqing City Zhejiang China.  
Tel: 0086-577-62780116 Fax: 0086-577-62774090  
Email: [info@etek-china.com](mailto:info@etek-china.com)

Thank you for choosing R3 series Smart Circuit Breaker Instructions.  
Please read this manual before installation, operation and maintenance.

## **WIFI EQUIPMENT DISTRIBUTION NETWORK**

### **APP download**

- You can search for the “Tuya Smart” APP through the Android application market or the App Store and download and install it.
- One-click login with mobile number.  
Device binding and unbinding
- Click the “+” button in the upper right corner of the APP to enter the add device interface.
- After the device is powered on for 10 seconds, short press the device distribution button until the indicator light flashes.

- After the mobile phone is connected to the WIFI signal (the 5G network needs to be switched to 2.4G).  
Automatically connect on the APP adding device interface
- After entering the Wi-Fi password, click Next and wait for the connection to succeed.

### MATTER NEEDING ATTENTION

1. Make sure the device is powered on when binding.
2. Make sure to enter the distribution network state when binding.
3. Make sure the network signal is 2.4GHz when binding.

## ZIGBEE EQUIPMENT DISTRIBUTION NETWORK

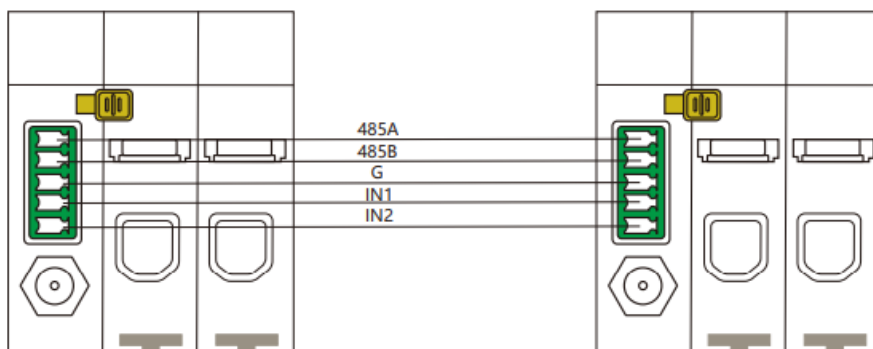
### APP download

- Use the Android application market or App Store to search for the “Tuya Smart” APP by downloading and installing it.
- One-click login with mobile number.  
Device binding and unbinding
- Click the “+” button in the upper right corner of the APP to enter the add device interface.
- Add the ZIGBEE gateway first on the device adding interface, and select the corresponding ZIGBEE gateway.
- After the mobile phone is connected to the WIFI signal (the 5G network needs to be switched to 2.4G).  
Automatically connect on the APP adding device interface
- After entering the Wi-Fi password, click Next and wait for the connection to succeed. Go back to the home page and click ZIGBEE gateway to select add self-device.
- After the device is powered on for 10 seconds, short press the device distribution button until the indicator light flashes.
- Wait for the device to automatically connect successfully.

### MATTER NEEDING ATTENTION

- Make sure the device is powered on when binding.
- Make sure to enter the distribution network state when binding.

## 485 Dry Contact Equipment Distribution Network



- Dry Contact Control Instructions
- Dry contact 1 has a signal, IN1 and G are shorted, and the product is closed.
- Dry contact 2 has a signal, the product is opened.
- IN2 and G are shorted, and the product is opened.

### **Dangers and Warnings**

This equipment can only be installed by professionals, and the manufacturer will not bear any responsibility for failures caused by failure to comply with the instructions in this manual.

### **Risk of electric shock, burns or explosion**

- Equipment should only be installed and maintained by qualified personnel.
- Before doing any work on the equipment, isolate the voltage input from the power supply and short-circuit the secondary windings of all current transformers.
- Use a suitable voltage detection device to confirm that the voltage has been cut off.
- Return all mechanical parts, doors and covers to their original positions before energizing the unit.
- The equipment should provide the correct rated voltage in use.
- Failure to heed these precautions could result in serious injury.

### **Product description**

R3 smart switch is a building electrical terminal power distribution device developed by ETEK ELECTRICAL TECHNOLOGY CO., LTD for smart and safe power consumption and energy management systems.

This product is an IoT intelligent circuit breaker, which uses electronic technology to control the normal operation of traditional circuit breakers. It has remote opening and Closing control, local mode select on, timing opening and closing settings, etc.

### **Main functions**

- Remote control: remote opening and closing, timing tasks.
- Local control: local opening and closing, mode selection.
- Short circuit protection: automatic tripping in case of short circuit fault.
- Networking module function: Built-in networking module WIFI, realize remote control on APP side through network transmission.
- Independent power supply (the gateway function will be added later).

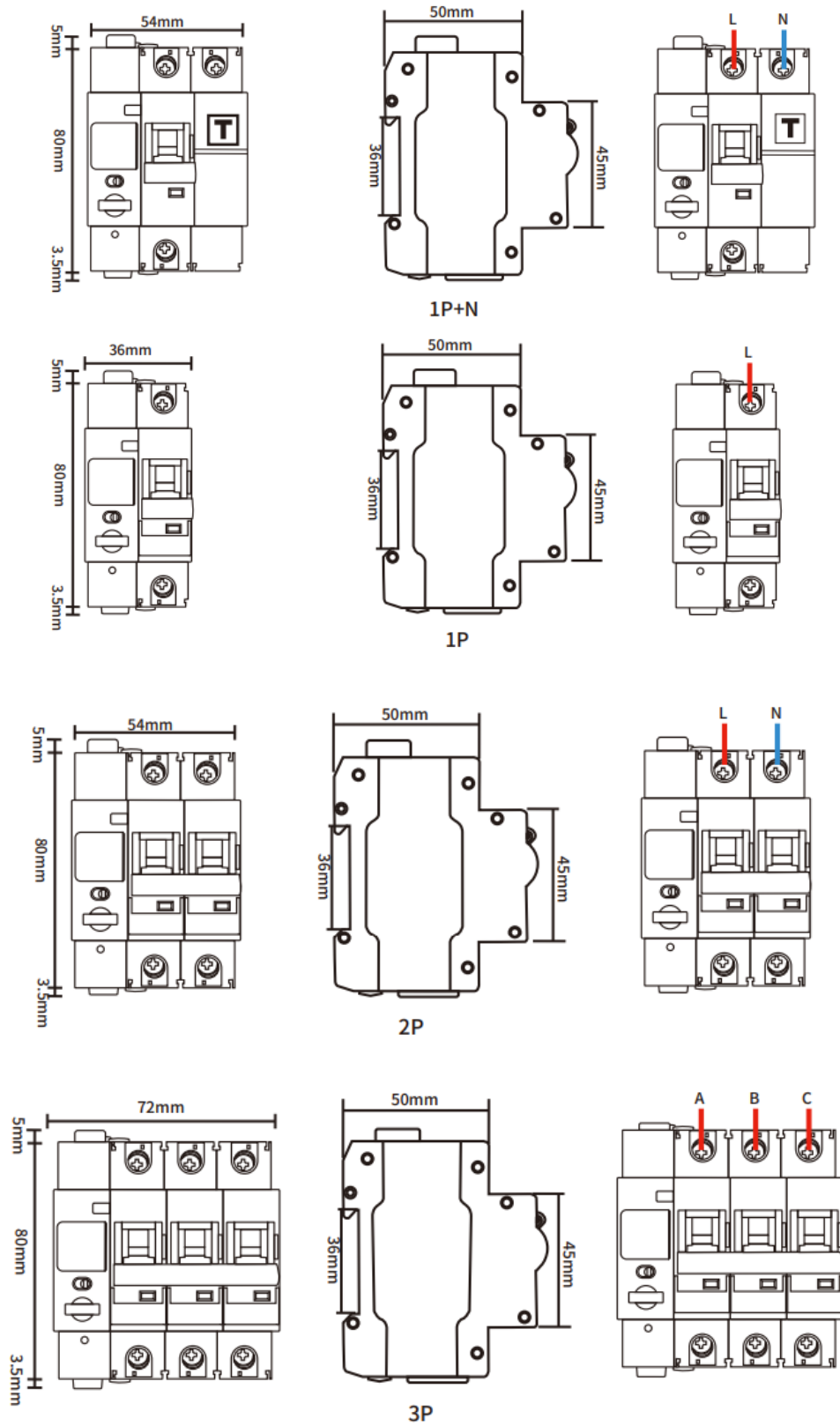
### **Main technical parameters**

Model	R3				
Series	1P+N	1P	2P	3P	4P
Rate current	10A、16A、25A、32A、40A				
Rate current (1P+N)	10A、16A、25A、32A、40A、50A、63A				
Rated working voltage and frequency	220/230VAC 50Hz			380/400VAC 50Hz	
Breaking capacity	6KA				
Tripping type	C、D				
Standbypower	<3W				
Trippingtime	≤0.1S				
Short-circuit time	≤0.04S				
Executivestandard	GB/T16917.1-2014(1P+N) GB/T10963.1-2020(1P、2P、3P、4P)				
Control mode	Manualautomaticcontrol				
Communication method	WIFI、ZIGBEE、485、Dry contact				
Installation site requirement	The altitude of the installation site is not more than 3000m				
Temperature requirement	Ambient air temperature -20℃~+70℃				

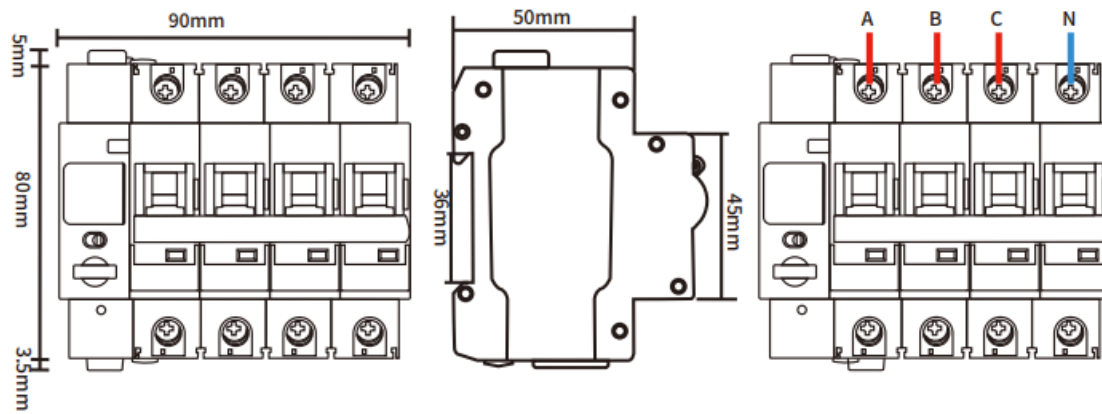
## Installation matters

- When operating and installing, please be sure to do it under the condition of power failure to ensure personal safety.
- When operating and installing, please be sure to be operated by professionals.
- This product only needs to be connected to the zero fire groundwire, please connect it correctly according to the logo or wiring diagram.
- Wiring is strictly in accordance with the requirements of the logo or wiring diagram, and the position of the zero and live wires cannot be changed, otherwise the equipment will not work or be damaged.
- After the first pairing and binding of the product is completed, other mobile phones will no longer be able to bind it. If multiple people are required to operate, you can authorize others to use it through the sharing function.
- The product should be installed in an environment with protective measures such as waterproof, moisture-proof, and sunscreen.
- The product should work in areas covered by 4G/wi fi signals while avoiding signal interference.

## Product size and wiring method



**Escription of product interface**



- WIFI, ZIGBEE device indicator light description
  - Green light is always on Connect to cloud server
  - Green light flashes for 100ms Mechanism failure
  - Green light flashes on for 100ms and off for 900ms Mechanical locking
  - Green light flashes for 500ms Configuration network
  - Green light flashes for 5000ms Connect to router
- 485 dry contact device indicator light description
  - Steady red light Automatic mode tripping
  - Red light flashing for 100ms Auto mode – Motor reset failed
  - Red light flashes for 100ms Cycle closing failure
  - Red light flashing for 500ms Automatic mode overvoltage and undervoltage trip
  - Green light is always on Automatic mode closing
  - Steady green light Remote opening, signal opening
  - Green light flashes for 100ms Automatic mode-closing
  - steady orange light is always on Manual mode
  - Orange light is always on Manual mode – open
  - Orange light is always on Manual mode – closing

## FAQ

The device cannot be closed remotely

1. Check whether the remote lock is turned on in the APP.
2. Whether to open manually, first manually close and then operate on the APP, can you close and open?
3. Whether the safety lock is pulled out.

### 485 Device cannot communicate, send opening/closing command, no action

Please ensure that the device is in normal operation, and then check whether A and B of the R\$485 line are reversed, whether the communication baud rate is set correctly, and whether there is any abnormality in the communication connection.

### Operation without feedback

1. Check whether the product terminals have been tightened.
2. Check the APP settings, notification type and whether the message notification is enabled.



### After power on, the indicator light does notight up

Check whether the power interface is reversed, whether the swit ching power supply output has power.

## Product Warranty


- For all new devices sold to users, within one year from the date of sale to users, free quality assurance will be implemented for failures caused by design, material and process defects.

If it is determined that the product meets the above warranty conditions, the supplier will repair and replace it free of charge.

The supplier may ask the user to send the device back to the manufacturer to confirm whether the device is covered by the free warranty and to repair the device.

- The problems of the following devices are not covered bythe free warrant
  - Damage caused by improper installation, use, storage.
  - Abnormal operating and application conditions beyond those specified for the product.
  - Devices that have been repaired by organizations or persons not authorized by the company.
  - Devices beyond the free warranty period.
- 

## Documents / Resources

	<a href="#">ETEK ELECTRIC R3 Series APP Wifi Smart MCB</a> [pdf] User Guide R3 Series APP Wifi Smart MCB, R3 Series, APP Wifi Smart MCB, Smart MCB
---	---

## References

- [User Manual](#)

### [Manuals+](#), [Privacy Policy](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.