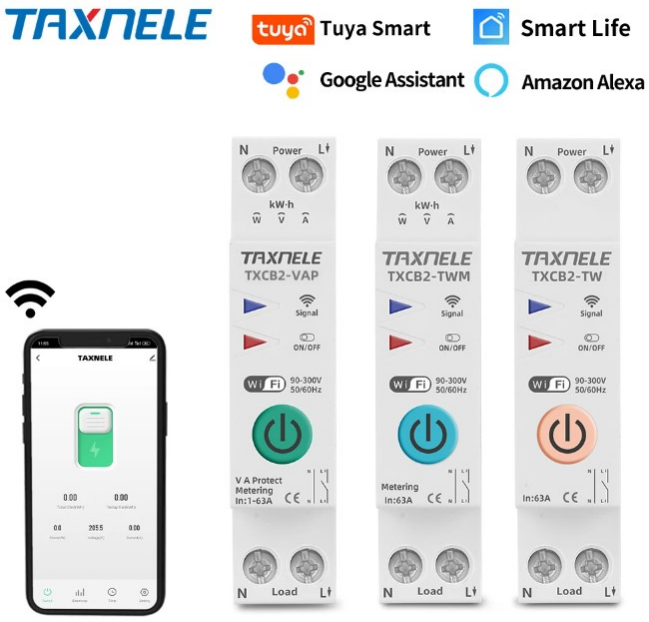
TAXNELE TXCB2 Series Smart Circuit Breaker User Manual

Models: TXCB2-TW, TXCB2-TWM, TXCB2-VAP

1. Introduction

The TAXNELE TXCB2 series smart circuit breakers are advanced electrical devices designed for intelligent control and monitoring of your electrical circuits. These devices integrate Wi-Fi connectivity, allowing for remote control, timing functions, energy metering, and various protection features via the Tuya Smart or Smart Life mobile applications. This manual provides essential information for the safe installation, operation, and maintenance of your TXCB2 smart circuit breaker.



2. Safety Information

WARNING: Electrical installation should only be performed by qualified personnel. Failure to follow these instructions may result in electric shock, fire, or serious injury.

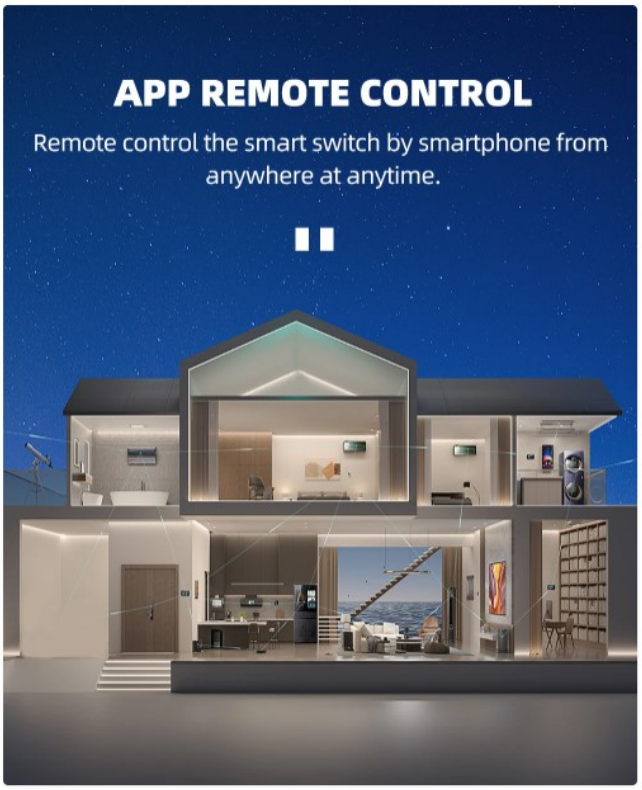
- Always disconnect power at the main circuit breaker before performing any installation or maintenance.
- Ensure proper wiring according to local electrical codes and standards.
- The device must be connected with a Live line (L) and a Neutral line (N). Connecting Live line to Live line (L+L) is not supported and can cause damage or malfunction.
- Do not operate the device if it appears damaged.
- Keep the device away from water and high humidity environments.

3. Product Overview

The TXCB2 series offers three main models, each with distinct functionalities:

- **TXCB2-TW (No Metering):** Provides remote on/off control, timing functions, and relay status indication.
- **TXCB2-TWM (Metering):** Includes all features of TXCB2-TW, plus real-time monitoring of kWh, Voltage, and Current.
- **TXCB2-VAP (Metering & Protection):** Offers all features of TXCB2-TWM, with added current limit, over-voltage, under-voltage, over-current, and over-power protection.





YOU CAN TURN ON TURN OFF ANY ELECTRIC DEVICE BY

tuya Tuya Smart

Smart Life





4. Specifications

Feature	Description
Brand Name	TAXNELE
Model Number	TXCB2
Type	Mini Circuit Breaker
Poles Number	1P+N
Working Voltage	AC90-300V, 50/60Hz
Rated Current Options	10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A (1-63A adjustable for VAP model)
Wireless Type	Wi-Fi 2.4GHz
Mechanical Life	Over 100,000 Times
Working Temperature	-25℃ to 70℃
Is Smart Device	Yes
Origin	Mainland China

Function Comparison Table

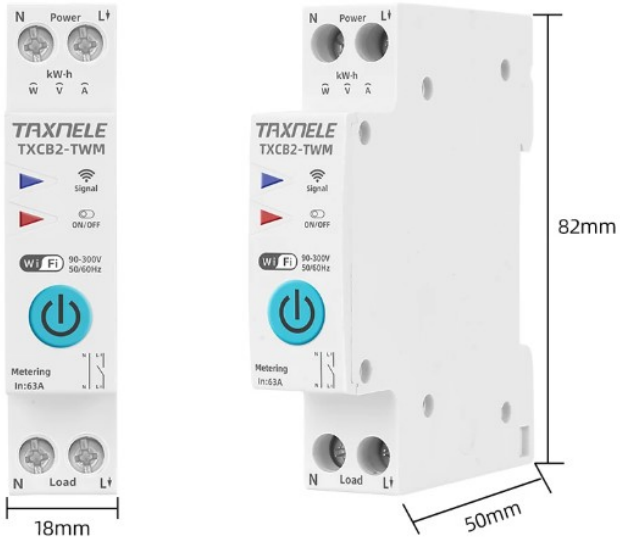
Function	TXCB2-TW	TXCB2-TWM	TXCB2-VAP
Remote On/Off	Yes	Yes	Yes
Time Control (Timer, Countdown, Cycle)	Yes	Yes	Yes
Relay Last Status	Yes	Yes	Yes
Voltmeter	No	Yes	Yes
Ammeter	No	Yes	Yes
Power Meter (kWh)	No	Yes	Yes
Active Power	No	Yes	Yes
Over Voltage Protection	No	No	Yes
Under Voltage Protection	No	No	Yes
Over Current Protection	No	No	Yes
Over Power Protection	No	No	Yes

5. Setup and Installation

5.1 Wiring Instructions

IMPORTANT: Ensure the main power supply is OFF before proceeding with wiring.

1. Identify the Live (L) and Neutral (N) lines from your power source.
2. Connect the incoming Live line to the 'N Power' terminal and the incoming Neutral line to the 'L Power' terminal on the top of the circuit breaker.
3. Connect the outgoing Live line to the 'N Load' terminal and the outgoing Neutral line to the 'L Load' terminal on the bottom of the circuit breaker.
4. Ensure all connections are secure using the tunnel-type wiring ports.



5.2 App Installation and Device Pairing

1. Download the **Tuya Smart** or **Smart Life** app from your smartphone's app store.
2. Register or log in to your account.
3. Power on the circuit breaker. The Wi-Fi indicator should start blinking (refer to the device's LED behavior for pairing mode).
4. In the app, tap '+' to add a new device. Select 'Electrical' > 'Circuit Breaker (Wi-Fi)'.
5. Follow the on-screen instructions to connect the device to your 2.4GHz Wi-Fi network.
6. Once connected, you can rename the device and assign it to a room.

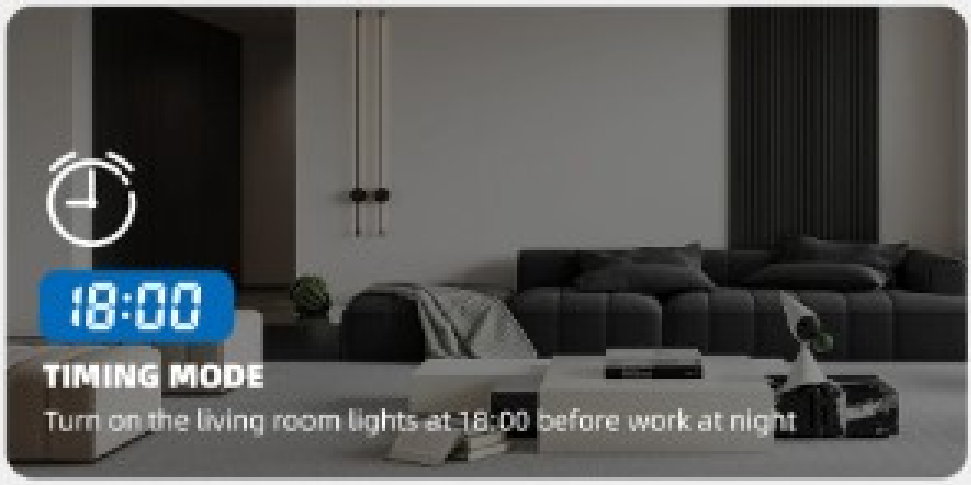
6. Operating Instructions

6.1 Remote Control

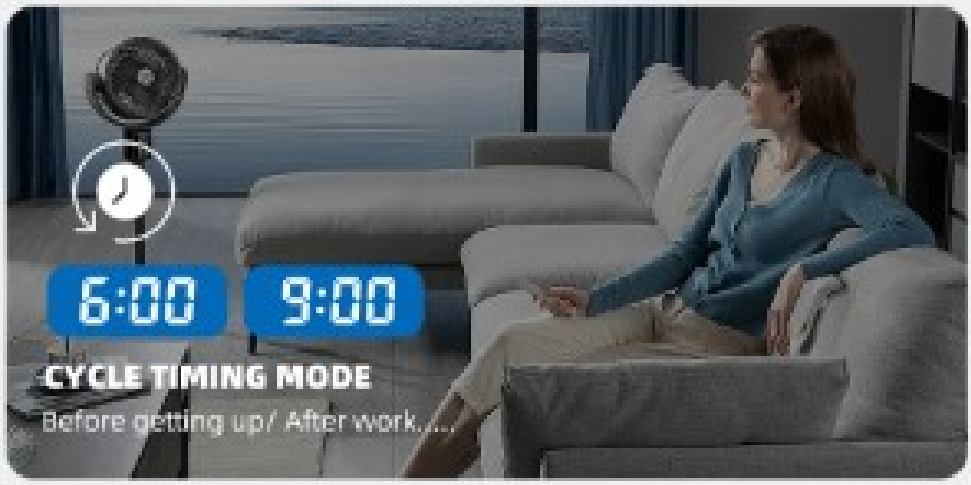
Use the Tuya Smart/Smart Life app to remotely turn the circuit breaker on or off from anywhere, at any time. The app provides an operation panel for easy control.

THREE TIME SETTING MODES

(Timing/Countdown/Cycle Time)







6.2 Timing Modes

The device supports three timing modes:

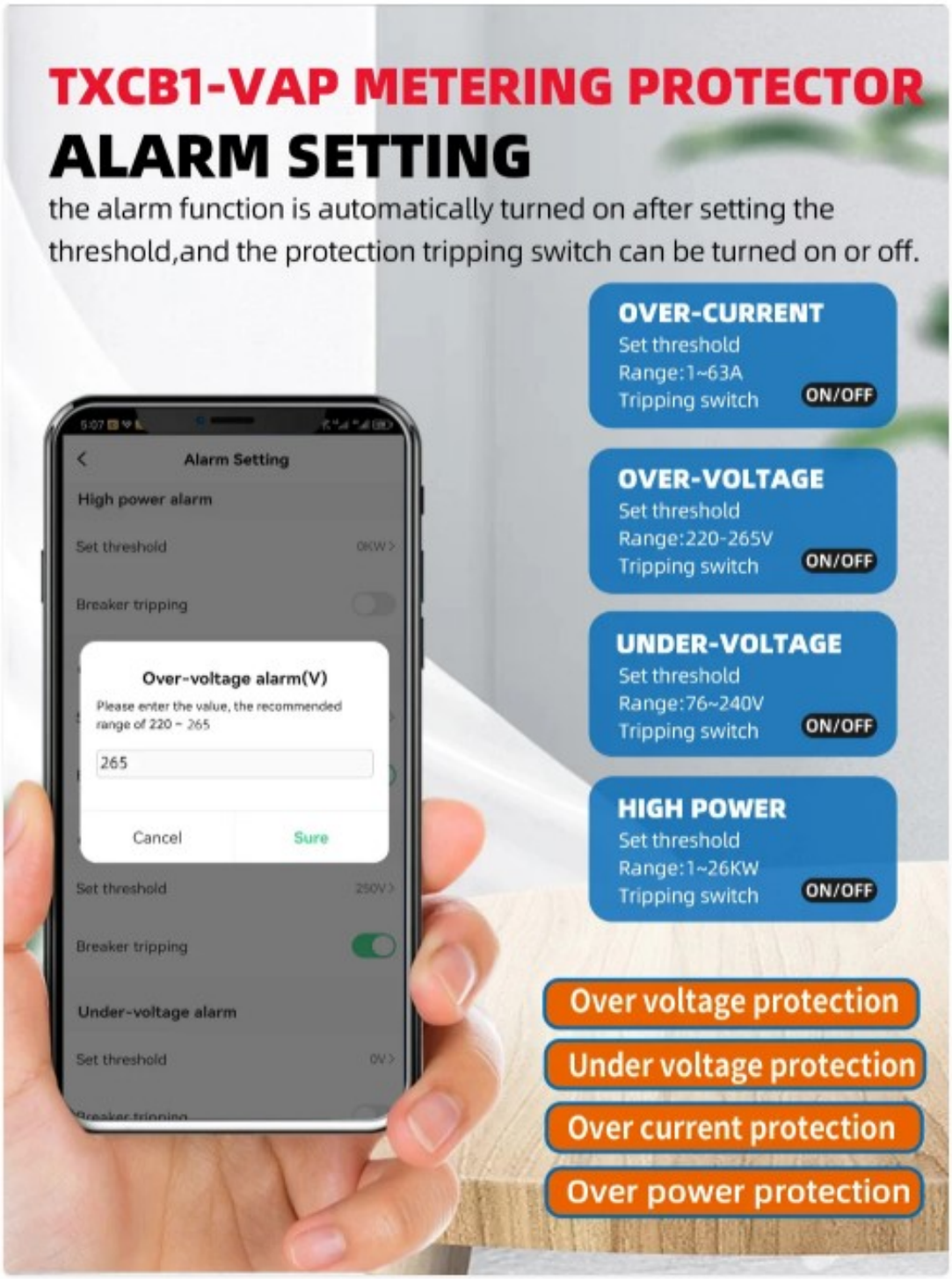
- **Timing Mode:** Set specific times for the circuit breaker to turn on or off (e.g., turn on lights at 18:00).
- **Countdown Mode:** Set a countdown timer after which the device will change its state (e.g., turn off bedroom lights after 20 minutes).
- **Cycle Timing Mode:** Schedule repetitive on/off cycles (e.g., for appliances that need to run periodically).

PRODUCT PARAMETERS

Model	Rate Voltage	Rated Current	Wi-Fi Standard	Function
TXCB2-TW NO METERING	90-300VAC 50/60Hz	10A 16A 25A 32A 40A 50A 63A	2.4GHz	Remote On/Off Timer
TXCB2-TWM METERING	90-300VAC 50/60Hz	10A 16A 25A 32A 40A 50A 63A	2.4GHz	Remote On/Off Timer Meter(V A Power Energy)
TXCB2-VAP METERING PROTECT	90-300VAC 50/60Hz	1-63A	2.4GHz	Remote On/Off Timer Meter(Voltmeter Ammeter Energy Meter) Over/Under Voltage Protector Over Current Protector

6.3 Voice Control

Integrate your smart circuit breaker with Google Assistant or Amazon Alexa for convenient voice control. Simply link your Tuya Smart/Smart Life account to your voice assistant and use commands like "Alexa, turn on the living room light" or "Google, turn on the living room light."



6.4 Energy Monitoring (TXCB2-TWM & TXCB2-VAP)

For models with metering capabilities, the app provides real-time electricity statistics, including daily, monthly, and yearly energy consumption (kWh), current voltage, and current amperage. This helps you track and manage your energy usage.



6.5 Protection Features and Alarm Settings (TXCB2-VAP)

The TXCB2-VAP model offers advanced protection features. You can set thresholds for:

- **Over-Current Protection:** Range 1-63A.
- **Over-Voltage Protection:** Range 220-300V (or 220-265V depending on specific firmware).
- **Under-Voltage Protection:** Range 76-240V.
- **High Power Protection:** Range 1-26KW.

The alarm function is automatically activated after setting the threshold. The protection tripping switch can be turned on or off via the app.



7. Maintenance

- Regularly check the physical condition of the circuit breaker for any signs of damage or wear.
- Ensure the wiring connections remain tight and secure.
- Keep the device clean and free from dust and debris. Use a dry cloth for cleaning.
- Do not attempt to repair the device yourself. Contact qualified service personnel if a malfunction occurs.
- Periodically check for app updates to ensure optimal performance and access to new features.

8. Troubleshooting

8.1 Device Not Connecting to Wi-Fi

- Ensure your Wi-Fi network is 2.4GHz. The device does not support 5GHz networks.
- Check if the Wi-Fi signal strength is adequate at the installation location.
- Verify that you have entered the correct Wi-Fi password.
- Try resetting the circuit breaker (refer to the device's specific reset procedure, usually holding the button for several seconds until the indicator blinks rapidly) and re-attempt pairing.
- Ensure your router is not blocking new device connections.

8.2 Remote Control Not Responding

- Check your internet connection and the device's Wi-Fi connection status in the app.
- Ensure the circuit breaker is powered on and its indicator light is stable (indicating a successful Wi-Fi connection).
- Restart the app or your smartphone.

8.3 Protection Tripping Frequently (TXCB2-VAP)

- Review the set thresholds for over-current, over-voltage, under-voltage, and high power in the app.
- Check the actual load connected to the circuit breaker. It might be exceeding the set limits or the device's maximum rated current.
- Consult an electrician to assess your electrical system for potential issues causing voltage fluctuations or current surges.

9. User Tips

- **Optimize Energy Usage:** Utilize the energy monitoring feature (TWM/VAP models) to identify power-hungry appliances and adjust their usage or schedule them with the timing function to save energy.
- **Smart Home Integration:** Leverage voice control with Amazon Alexa or Google Assistant for hands-free operation, especially useful when your hands are occupied.
- **Safety First:** For the TXCB2-VAP model, carefully set the protection thresholds to match your connected appliances and electrical system's capabilities to prevent damage and ensure safety.