TAXNELE 16A

TAXNELE TUYA WiFi Smart Circuit Breaker KWh Power Meter (16A) - Instruction Manual

Model: 16A | Brand: TAXNELE

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your TAXNELE TUYA WiFi Smart Circuit Breaker KWh Power Meter. This device allows for remote control, energy monitoring, and smart automation of electrical circuits via the Smart Life or Tuya App, and integrates with voice assistants like Google Home and Amazon Alexa.

SAFETY INFORMATION

WARNING: Electrical installation should only be performed by qualified personnel. Incorrect installation can lead to electric shock, fire, or other hazards. Always disconnect power at the main circuit breaker before installation or maintenance.

- Ensure the power supply is completely off before wiring.
- Verify voltage and current ratings match your electrical system.
- Do not operate the device if it appears damaged.
- Keep the device away from water and high humidity.
- This device is designed for indoor use only.

PRODUCT OVERVIEW AND FEATURES

The TAXNELE TUYA WiFi Smart Circuit Breaker is a versatile device designed to enhance your home's electrical management. It combines the functionality of a circuit breaker with smart monitoring and control capabilities.
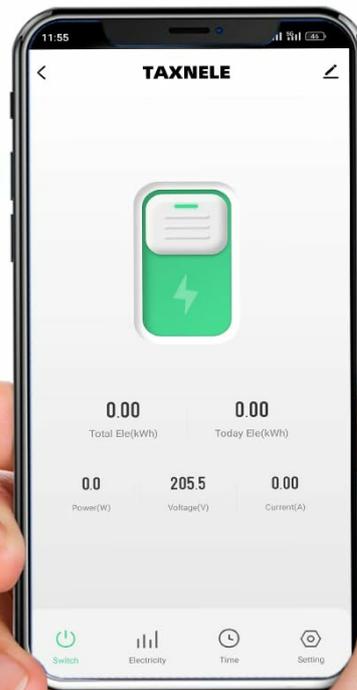
Image: The smart circuit breaker device shown alongside a smartphone displaying the Tuya Smart Life app interface, highlighting its WiFi connectivity and compatibility with Google Assistant and Amazon Alexa.

Key Features:

- **Remote Control:** Manage your electrical devices from anywhere using the Smart Life/Tuya App.
- **Timer Functions:** Schedule on/off times, countdowns, and cycle timers for automated control.
- **Voice Control:** Compatible with Google Home and Amazon Alexa for hands-free operation.
- **Energy Monitoring:** Integrated Voltmeter, Ammeter, and KWh Power Meter to track real-time and historical energy consumption.
- **DIN Rail Mount:** Standardized installation for electrical panels.

PACKAGE CONTENTS

Please check the package for the following items:

- 1 x TAXNELE TUYA WiFi Smart Circuit Breaker (16A model)
- 1 x User Manual (this document)

PRODUCT PARAMETERS

MODEL	TXCB2-TWM METERING
RATE VOLTAGE	90-300VAC 50/60Hz
RATED CURRENT	10A 16A 25A 32A 40A 50A 63A
WI-FI STANDARD	2.4GHz
FUNCTION	Remote On/Off Timer Meter(V A Power Energy)

Image: A visual representation of the product specifications, including model, voltage, current, Wi-Fi standard, and functions.

TAXNELE TUYA WiFi Smart Circuit Breaker Specifications

Parameter	Value
Model	TXCB-TWM
Rated Voltage	AC 90-300V, 50/60Hz
Rated Current	16A (Other variants: 10A, 25A, 32A, 40A, 50A, 63A)
Connection Type	1P+N
Mechanical Life	> 100,000 times
Operating Temperature	-25℃ to 70℃
Wireless Type	Wi-Fi 2.4 GHz

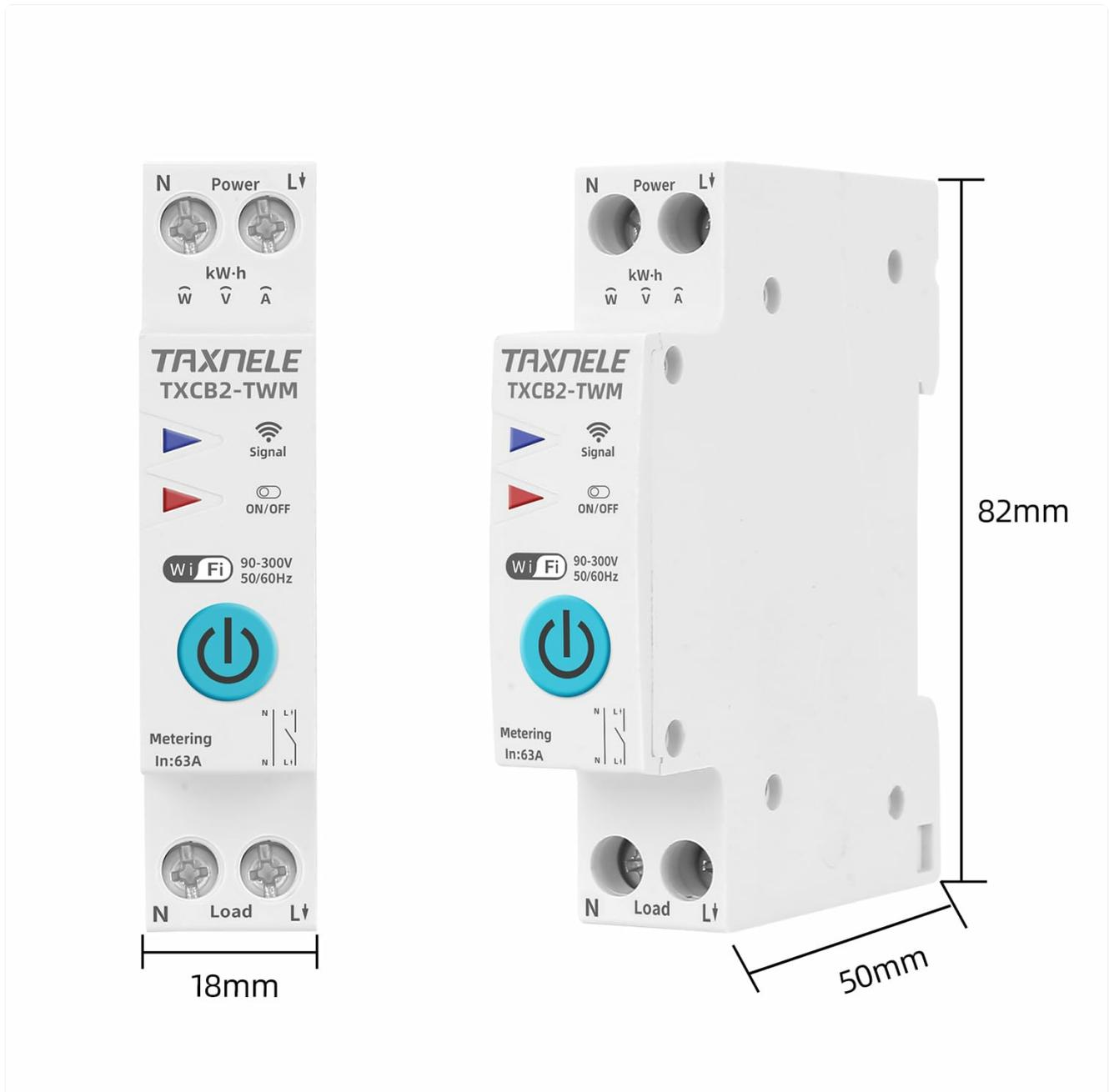| Parameter	Value
Control Type	Remote, Manual
Mounting Rail	DIN35
Dimensions (L x W x H)	Approx. 82 x 68 x 18 mm (3.23 x 2.68 x 0.71 in)
Material	Metal
Power	4800 Watts (for 16A at 300V max)
Certifications	CE

Image: Detailed dimensions of the smart circuit breaker, showing its height (82mm), width (18mm), and depth (50mm).

SETUP

1. Physical Installation

Before you begin: Ensure the main power supply to your electrical panel is turned OFF. Use appropriate safety gear.

1. **Mounting:** Install the smart circuit breaker onto a standard DIN35 rail within your electrical distribution box.

2. **Wiring:**

   - Connect the incoming Live (L) wire to the terminal marked 'L' on the **top** of the device.
   - Connect the incoming Neutral (N) wire to the terminal marked 'N' on the **top** of the device.
   - Connect the outgoing Live (L) wire to the terminal marked 'L' on the **bottom** of the device, leading to your load.
   - Connect the outgoing Neutral (N) wire to the terminal marked 'N' on the **bottom** of the device, leading to your load.
   - Ensure all connections are secure and tight.

   Note: Some users have reported that the input/output terminals might be reversed compared to traditional breakers. Always verify the markings on the device.

3. **Power On:** Once wiring is complete and verified, restore power to the main circuit breaker. The device's indicator light should turn on.

2. App Installation and Device Pairing

The device works with the Smart Life or Tuya Smart app.

1. **Download App:** Download the "Smart Life" or "Tuya Smart" app from your smartphone's app store (Google Play Store for Android, Apple App Store for iOS).

2. **Register/Login:** Open the app and register for a new account or log in if you already have one.

3. **Add Device:**

   - Tap the "+" icon in the top right corner of the app to add a new device.
   - Select "Electrical Engineering" or "Circuit Breaker (Wi-Fi)" from the device list.
   - Follow the on-screen instructions to put the device into pairing mode. This usually involves pressing and holding the ON/OFF button on the device until the Wi-Fi indicator light blinks rapidly.
   - Enter your 2.4 GHz Wi-Fi network name and password. (5 GHz Wi-Fi is not supported).
   - Wait for the app to discover and connect to the device. Once connected, you can rename the device for easy identification.

Image: The Smart Life app interface demonstrating remote control capabilities and 24-hour real-time monitoring of electrical parameters.

OPERATING INSTRUCTIONS

1. Manual Control

The device has a physical ON/OFF button. Press it to manually switch the circuit breaker on or off.

2. Remote Control via App

Once paired, you can control the circuit breaker from anywhere using the Smart Life/Tuya App.

- Open the app and select your device.
- Tap the main switch icon to turn the connected circuit ON or OFF.
- You can also access detailed settings and monitoring features.

APP REMOTE CONTROL

Remote control the smart switch by smartphone from anywhere at anytime.

Image: A cutaway view of a house showing various smart devices being controlled remotely by a smartphone, demonstrating the app's remote control functionality.

YOU CAN TURN ON TURN OFF ANY ELECTRIC DEVICE BY

Image: Two separate images showing a smartphone app controlling a television and a tower fan, illustrating how the Tuya Smart or Smart Life app can turn various electric devices on or off.

3. Timer Functions

The app provides various timing options:

- **Schedule:** Set specific times for the device to turn on or off daily or on selected days.
- **Countdown:** Set a timer for the device to turn off after a specified duration.
- **Cycle Timer:** Configure the device to repeatedly turn on and off at set intervals.

4. Voice Control

Integrate your smart circuit breaker with Google Home or Amazon Alexa for voice commands.

1. **Link Account:** In the Google Home or Alexa app, link your Smart Life/Tuya account.
2. **Discover Devices:** Ask your voice assistant to discover new devices.
3. **Voice Commands:** Use commands like:
   - "Alexa, turn on [Device Name]."
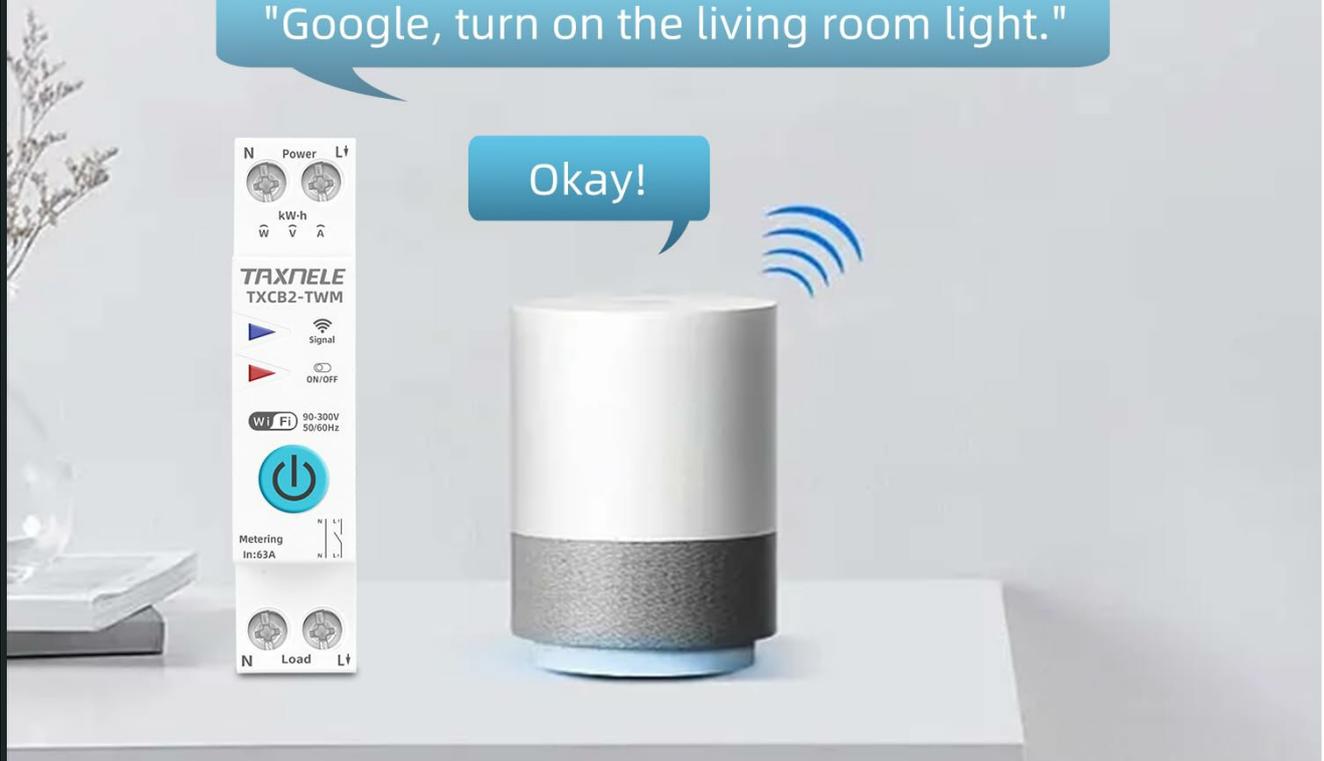
- "Hey Google, turn off [Device Name]."

Image: A smart speaker device with speech bubbles showing example voice commands for Google Assistant and Amazon Alexa to control the smart circuit breaker.

5. Energy Monitoring

The app provides real-time and historical data on your electricity usage.

- **Real-time Data:** View current voltage (V), current (A), and power (W) directly in the app.
- **Historical Data:** Access daily, monthly, and yearly energy consumption (KWh) reports.

Image: A smartphone screen showing detailed electricity statistics, including daily, monthly, and yearly energy consumption, along with real-time voltage, current, and power readings.

MAINTENANCE

- **Cleaning:** Wipe the device with a dry, soft cloth. Do not use harsh chemicals or abrasive cleaners.
- **Firmware Updates:** Periodically check the Smart Life/Tuya App for available firmware updates to ensure optimal performance and security.
- **Connection Check:** Ensure Wi-Fi connectivity is stable for uninterrupted remote control and monitoring.

TROUBLESHOOTING

Common Issues and Solutions

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Device not powering on.	No power supply; incorrect wiring.	Check main circuit breaker. Verify wiring connections (L/N input/output).
Cannot connect to Wi-Fi.	Incorrect Wi-Fi password; 5GHz network; device too far from router; device not in pairing mode.	Ensure 2.4GHz Wi-Fi. Re-enter password. Move device closer to router. Reset device to pairing mode (long press ON/OFF button).
Remote control not working.	No internet connection on phone or device; app not linked.	Check phone's internet. Verify device Wi-Fi connection. Ensure Smart Life/Tuya account is linked.
Inaccurate energy readings.	Incorrect wiring; device malfunction.	Double-check wiring. If issue persists, contact support.
Voice control not responding.	Voice assistant not linked; device name not recognized.	Ensure Smart Life/Tuya account is linked in Google Home/Alexa app. Try renaming the device to something simpler.

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the seller's policy or contact TAXNELE customer service through the platform where the product was purchased. Keep your purchase receipt as proof of purchase.