

## KETOTEK KTEM07C WIFI

# KETOTEK KTEM07C WIFI Smart Energy Monitor User Manual

Model: KTEM07C WIFI

## 1. INTRODUCTION

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The KETOTEK KTEM07C WIFI Smart Energy Monitor is a single-phase digital electricity meter designed for real-time monitoring and remote control of energy consumption. It integrates with Smart Life/Tuya applications, offering features such as remote data reading, overload protection, timer functions, and compatibility with voice assistants like Alexa and Google Assistant. This manual provides essential information for the safe installation, operation, and maintenance of your device.



Figure 1: KETOTEK KTEM07C WIFI Smart Energy Monitor

## 2. PRODUCT FEATURES

- **Remote and Voice Control:** Manage your energy monitor via the Smart Life/Tuya app and integrate with Alexa or Google Assistant for voice commands. (Note: Router supports 2.4 GHz Wi-Fi only, not 5G).
- **Multifunction Energy Meter:** Features a large color LCD display for real-time voltage, current, and power readings. Includes overload protection, prepaid function, and power failure memory. Access daily, monthly, and annual energy records in the app.
- **Overload Protection Function:** Automatically cuts power when current, voltage, or leakage current exceeds predefined limits. Attempts to restore power after a set 'reconnection time'. Extended cutoff time can be preset for electrical safety.
- **Timer Function:** Schedule devices to turn on or off automatically at specific times using the app.
- **Excellent Performance:** Offers high stability, strong overload capacity, low power loss, and compact volume. Designed for 35mm DIN rail mounting. Suitable for homes, apartments, factories, and office buildings.



Figure 2: Key Features of the Smart Energy Monitor

### 3. PACKAGE CONTENTS

Please check the package for the following items:

- 1 x KETOTEK KTEM07C WIFI Smart Energy Monitor
- 1 x User Manual

### 4. SPECIFICATIONS

| Specification                  | Value              |
|--------------------------------|--------------------|
| Product Dimensions (L x W x H) | 3.7 x 6.5 x 8.5 cm |
| Weight                         | 180 grams          |
| Manufacturer                   | KETOTEK            |
| Item Model Number              | KTEM07C WIFI       |

| Specification            | Value                     |
|--------------------------|---------------------------|
| Country of Origin        | China                     |
| Power Source             | Corded Electric           |
| Color                    | White                     |
| Min. Operating Voltage   | 187 Volts (AC)            |
| Working Voltage          | AC 220±15% 50/60Hz        |
| Rated Current            | 1(63)A                    |
| Power Consumption        | ≤1W 6VA                   |
| Compliant Specifications | CE Marked, RoHS Compliant |
| Product Type Name        | Electricity Meter         |

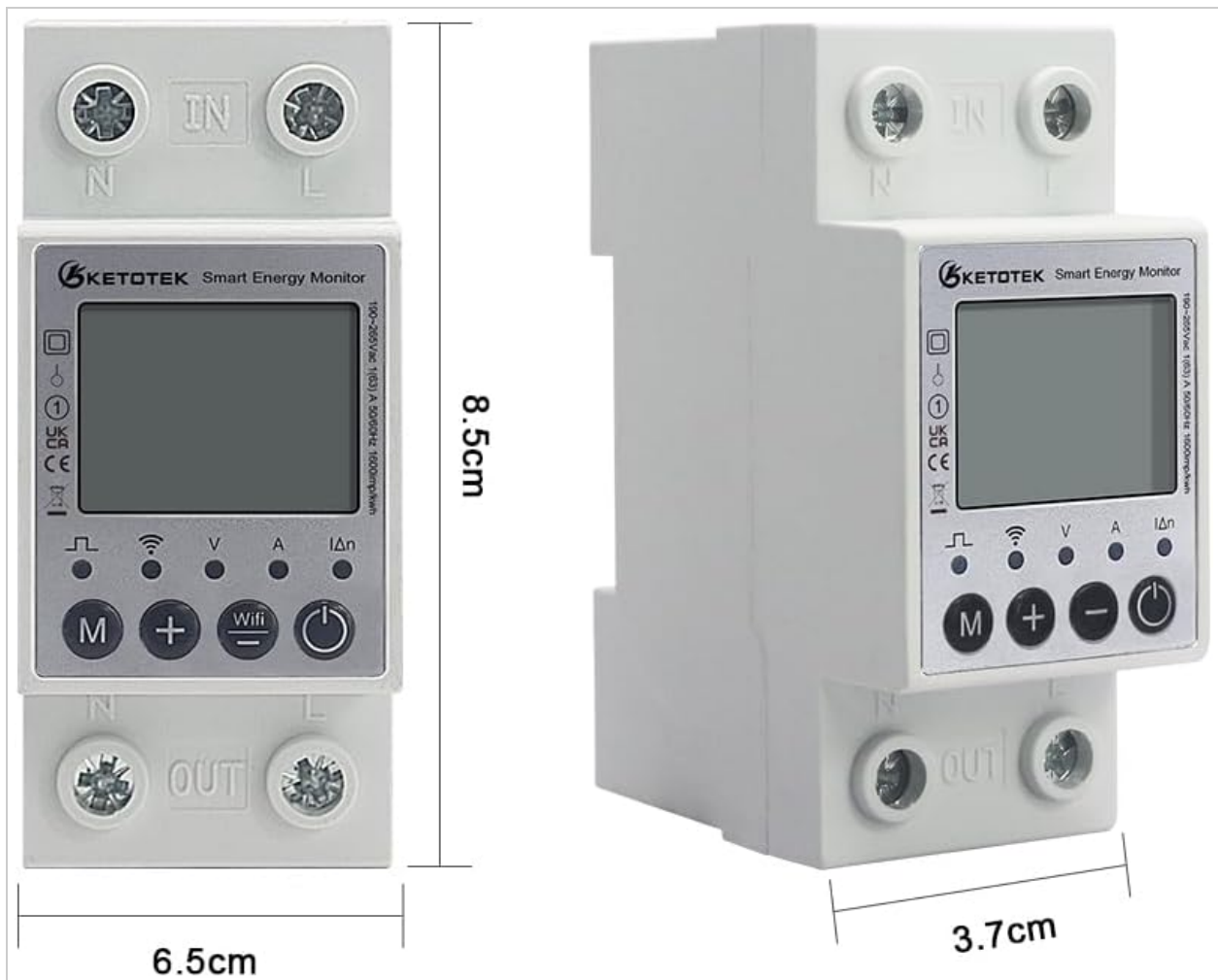


Figure 3: Device Dimensions

## 5. SAFETY INFORMATION

Please read and understand all safety instructions before installation and operation. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- 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 installation or wiring work.
- Do not operate the device if it is damaged or appears to be malfunctioning.
- Keep the device away from water, moisture, and extreme temperatures.
- Do not attempt to open or repair the device yourself. Contact qualified personnel for service.

## 6. SETUP

### 6.1 Installation

1. **Power Disconnection:** Before starting, ensure the main power supply to the circuit where the meter will be installed is completely turned off at the main breaker.
2. **DIN Rail Mounting:** Mount the KTEM07C WIFI Smart Energy Monitor onto a standard 35mm DIN rail. Ensure it is securely fastened.
3. **Wiring:** Connect the input (IN) and output (OUT) terminals according to the wiring diagram provided. Ensure correct connection of Neutral (N) and Live (L) wires. Tighten all terminal screws firmly to prevent loose connections.

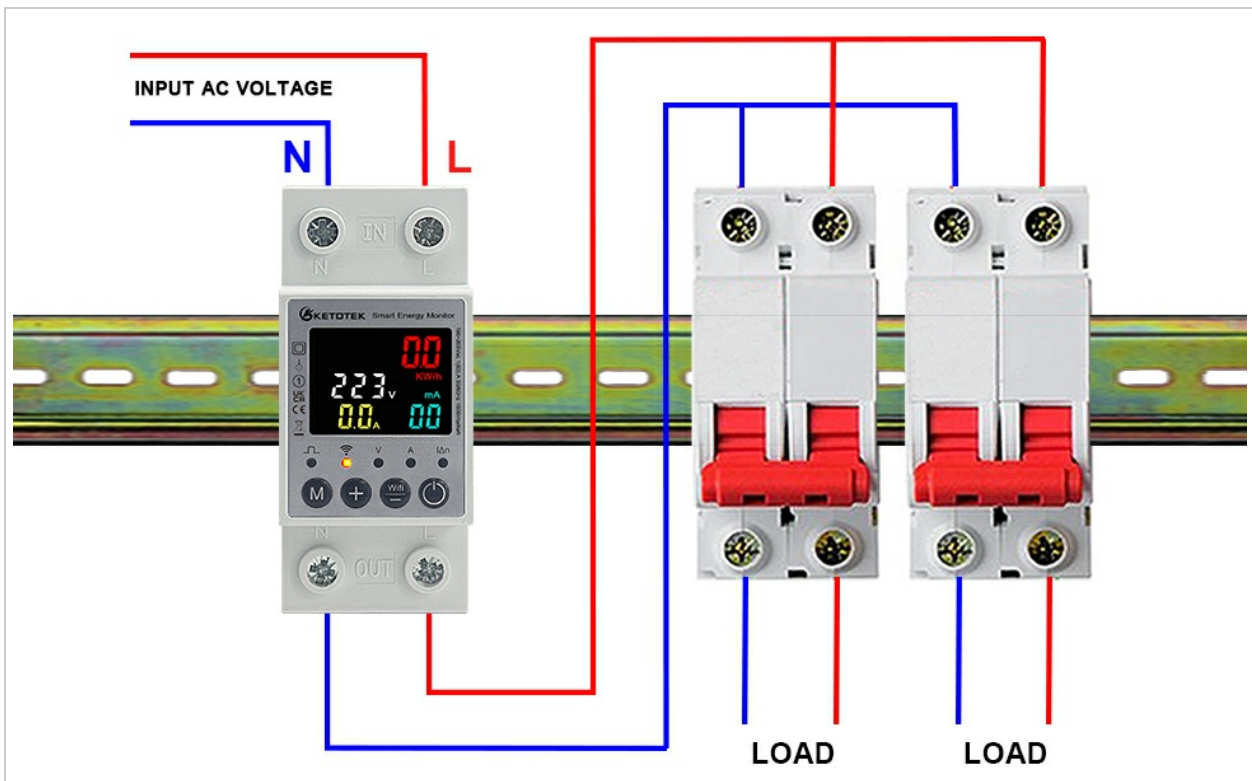


Figure 4: Wiring Diagram

### 6.2 App Installation and Pairing

1. **Download App:** Download the 'Smart Life' or 'Tuya Smart' app from your smartphone's app store (Google Play Store for Android or Apple App Store for iOS).
2. **Register/Login:** Open the app and register for a new account or log in with an existing one.
3. **Enable Wi-Fi:** Ensure your smartphone is connected to a 2.4 GHz Wi-Fi network. The device does not support 5 GHz Wi-Fi.
4. **Enter Pairing Mode:** Restore power to the energy monitor. Press and hold the 'Wifi' button on the device until the Wi-Fi indicator light starts blinking rapidly.

5. **Add Device:** In the Smart Life/Tuya app, tap '+' or 'Add Device'. Select 'Electrical Engineer' > 'Circuit Breaker (Wi-Fi)' or 'Energy Meter (Wi-Fi)'. Follow the on-screen instructions to connect the device to your Wi-Fi network.
6. **Confirmation:** Once successfully paired, the Wi-Fi indicator light on the device will stop blinking and remain solid. The device will appear in your app.

## 7. OPERATING INSTRUCTIONS

### 7.1 Display Overview

The LCD screen displays various real-time electrical parameters:

- **Energy (kWh):** Total energy consumption.
- **Voltage (V):** Current line voltage.
- **Current (A):** Current flowing through the circuit.
- **Leakage Current (mA):** Indicates leakage current.
- **Pulse:** Pulse indicator.



Figure 5: Display and Button Functions

### 7.2 Button Functions

- **'M' Button:** Used to view or set parameters. Press to cycle through different display modes or enter settings.
- **'+' Button:** Used to increase values when setting parameters.
- **'Wifi' Button:** Used to enter Wi-Fi pairing mode (long press) or decrease values when setting parameters (short press).
- **Power Button:** Used to turn the device on or off.

### 7.3 Remote Control and Monitoring

Once connected to the Smart Life/Tuya app, you can:

- **Remote ON/OFF:** Turn the connected circuit on or off from anywhere.
- **Real-time Data:** View current voltage, current, and power consumption in real-time.
- **Historical Data:** Access daily, monthly, and yearly energy consumption statistics to track usage and manage costs.

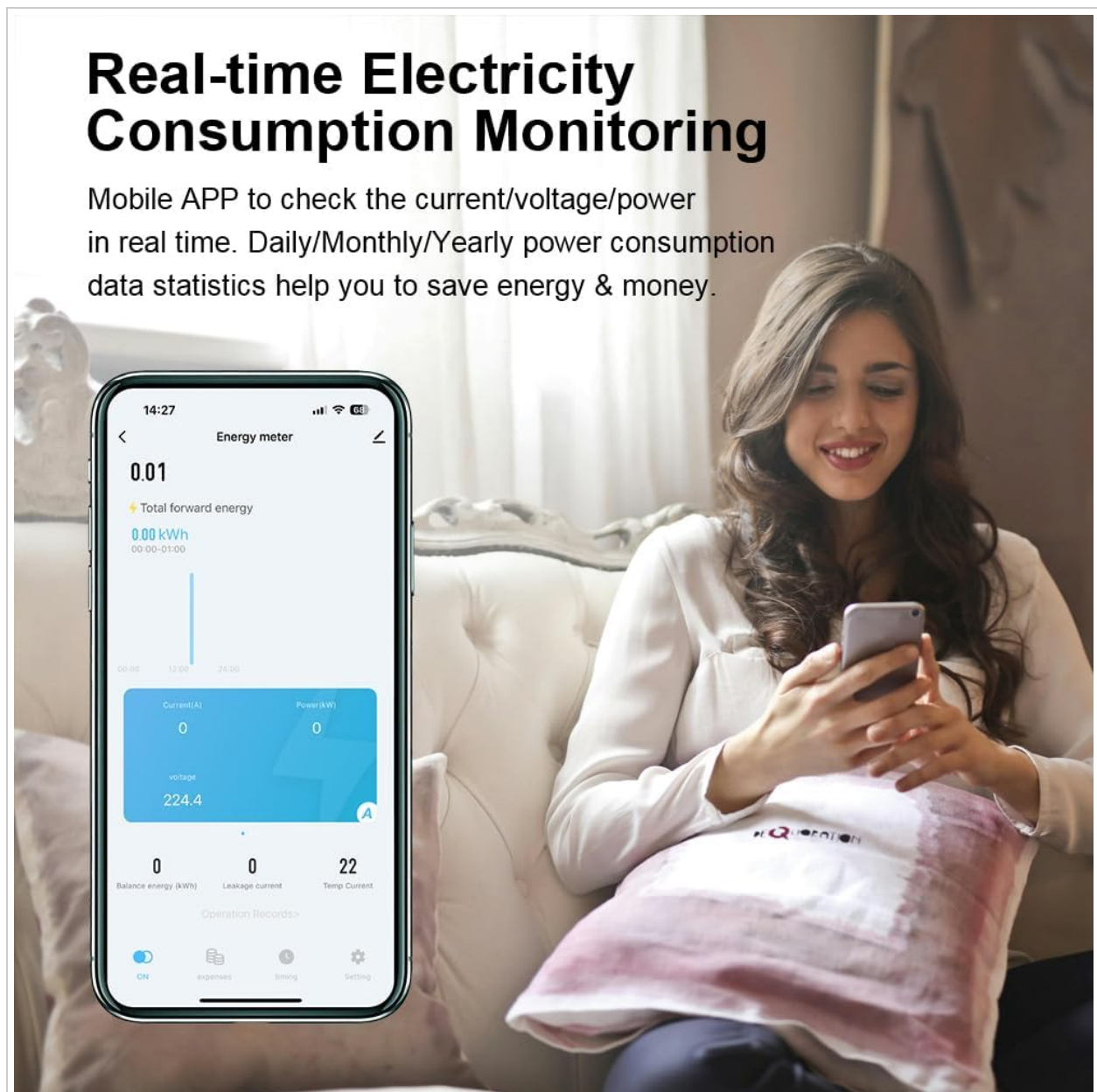


Figure 6: Real-time Electricity Consumption Monitoring via App

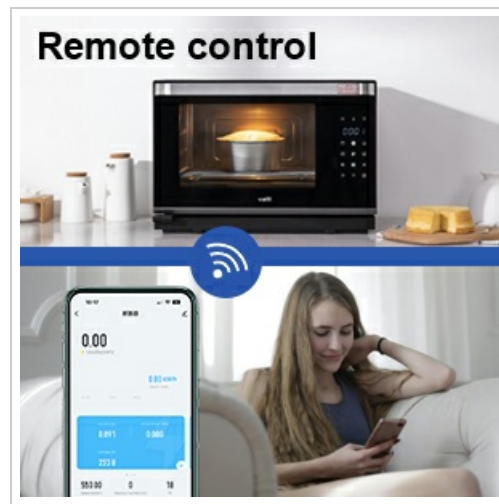


Figure 7: Remote Control Functionality

## 7.4 Protection Functions

The device offers multiple protection features configurable via the app:

- **Overvoltage Protection:** Set a maximum voltage limit.
- **Undervoltage Protection:** Set a minimum voltage limit.
- **Current Limit Protection:** Set a maximum current limit.
- **Leakage Current Protection:** Detects and protects against leakage currents.

When any set limit is exceeded, the device will automatically cut off power to protect connected appliances and the electrical system. It will attempt to reconnect after a configurable delay.

# Multiple Protection Functions

Push notification from the app when data reaches an alarm value



Overvoltage protection



Undervoltage protection



Current limit protection



Leakage current protection



Figure 8: Multiple Protection Functions

## 7.5 Timer Function

Use the app's timer function to create schedules for your connected devices. This allows for automated control, enhancing convenience and energy efficiency.

# Schedule Function



Figure 9: Schedule Function in App



Figure 10: Timer Application Interface

## 7.6 Prepaid Function

The device supports a prepaid function, allowing you to manage energy expenses by setting an energy balance. Once the balance is depleted, the device can automatically cut off power until recharged.

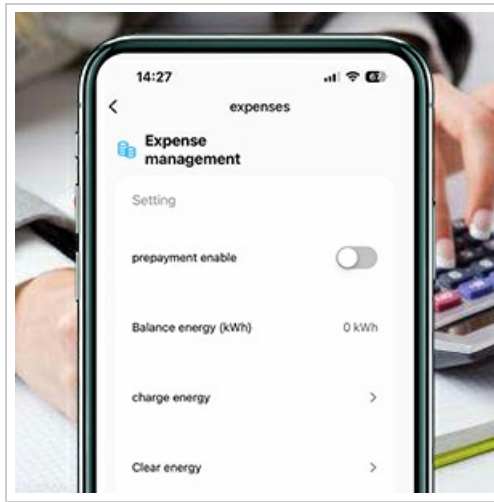


Figure 11: Expense Management with Prepaid Function

## 8. MAINTENANCE

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- **Cleaning:** Regularly wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check the wiring connections to ensure they are secure.
- **Environment:** Ensure the device is kept in a dry, well-ventilated area, free from dust and direct sunlight.

## 9. TROUBLESHOOTING

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- **Device Not Powering On:** Check the main power supply and wiring connections. Ensure the power button on the device is in the ON position.
- **Wi-Fi Disconnection:** Ensure your router is operating on a 2.4 GHz frequency. Check the Wi-Fi signal strength near the device. If the signal is weak, consider using a Wi-Fi repeater. Re-pair the device with the app if necessary.
- **Inaccurate Readings:** Verify that the wiring is correctly installed according to the diagram.
- **Display Difficult to Read:** Some users have reported issues with display clarity. Ensure the device is installed in a well-lit area.
- **App Not Responding:** Ensure your smartphone has a stable internet connection. Restart the app or your phone. Check for app updates.
- **Overload Protection Tripping Frequently:** Review your connected load and the configured protection limits in the app. Adjust limits if appropriate for your electrical system, or reduce the load.

## 10. WARRANTY AND SUPPORT

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For warranty information, technical support, or service inquiries, please refer to the contact information provided by your retailer or visit the KETOTEK official website. Keep your purchase receipt as proof of purchase.