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› [KETOTEK Mini AC Energy Meter User Manual \(Model: 97645b18-7c75-4337-8104-f6862010723d\)](#)

KETOTEK 97645b18-7c75-4337-8104-f6862010723d

KETOTEK Mini AC Energy Meter User Manual

Brand: KETOTEK | Model: 97645b18-7c75-4337-8104-f6862010723d

1. INTRODUCTION

This KETOTEK Mini AC Energy Meter is a digital multifunction device designed for comprehensive electrical parameter monitoring. It accurately measures AC voltage, AC current, power factor, active power, electrical energy, and power frequency. Featuring a high-definition color LCD display, it offers clear visibility from a 360° viewing angle, day or night, thanks to its backlight function.

Constructed from high-quality flame-retardant ABS material and equipped with a high-precision chip, this meter ensures safe and accurate operation. It is suitable for various power measurement systems, including residential, commercial, and industrial applications.



Image 1.1: The KETOTEK Mini AC Energy Meter displaying various electrical parameters, accompanied by its current transformer (CT).

2. KEY FEATURES

- **6-in-1 Multifunction Measurement:** Simultaneously displays AC voltage, AC current, power factor, active power, electrical energy, and frequency.
- **High-Definition Color LCD:** Provides a 360° viewing angle with backlight for clear readability in all lighting conditions.
- **Automatic Data Storage:** Electrical energy values are automatically saved during power outages and resume accumulation upon power restoration.
- **Energy Reset Function:** Allows for manual resetting of the electrical energy reading.
- **Durable Construction:** Made from flame-retardant ABS material for enhanced safety and longevity.

6 Test Functions +1 Autosave

New version upgrade ,LCD Color Distinct



6 Test Functions

- Ⓢ Ac current
- ⓐ Ac voltage
- ⚡ Power factor
- Ⓜ Active power
- Ⓡ Frequency
- Ⓦ Energy

Autosave

Autosave : When the meter power is off,the current electric energy value will be automatically saved,the meter will read the value after the next power on and going to keep adding to the saved value,number.

Image 2.1: Visual representation of the meter's six measurement functions (AC current, AC voltage, power factor, active power, frequency, energy) and its autosave capability.

3. PRODUCT SPECIFICATIONS

Parameter	Value
Accuracy	1% + 2 digits
AC Voltage Range	AC 50.0-300.0V
AC Current Range	AC 0.0-99.99A (0.01A precision below 100A, displays 100.0A above 100A)
Power Frequency Range	45.00-65.00 Hz
Power Factor Range	0.00-1.00 PF

Active Power Range	0-30000W (0.1W precision for 0-9999.9W, 1W precision otherwise)
Electrical Energy Range	0-99999kWh (0.01kWh for 0-999.99kWh, 0.1kWh for 1000.0-9999.9kWh, 1kWh for 10000-99999kWh)
Measurement Speed	2 times per second
Dimensions	49mm x 47mm x 52mm
Color	Grey
Weight	70 Grams
Material	Flame-retardant ABS



Product parameters

Voltage Range:
AC 50.0-300.0V

Active power:
0-30000W

Current Range:
AC 0 - 99.99A

Frequency:
45.0Hz-65.0Hz

Power Factor:
0.00-1.00PF

Electric Energy:
0-99999Kwh

Image 3.1: A visual summary of the meter's key technical specifications and measurement ranges.

4. INSTALLATION GUIDE

The KETOTEK Mini AC Energy Meter is designed for easy panel installation. Follow these steps for proper setup:

4.1 Dimensions and Mounting

Ensure adequate space for mounting. The meter requires a standard industrial 22mm hole for installation. Refer to the diagram below for precise dimensions.



Image 4.1: Front and side dimensions of the meter (49mm x 47mm) and the back panel with a 21.5mm mounting depth.

4.2 Wiring Instructions

Connect the meter according to the wiring diagram provided. The current transformer (CT) is essential for current measurement.

1. Connect the measuring voltage input to the designated terminals on the meter.
2. Pass the wire of the measure loop (the circuit whose current you want to measure) through the hole of the current transformer (CT).
3. Connect the secondary input of the current transformer to the CT input terminals on the meter.

Important: Ensure all connections are secure and performed by qualified personnel to prevent electrical

hazards.

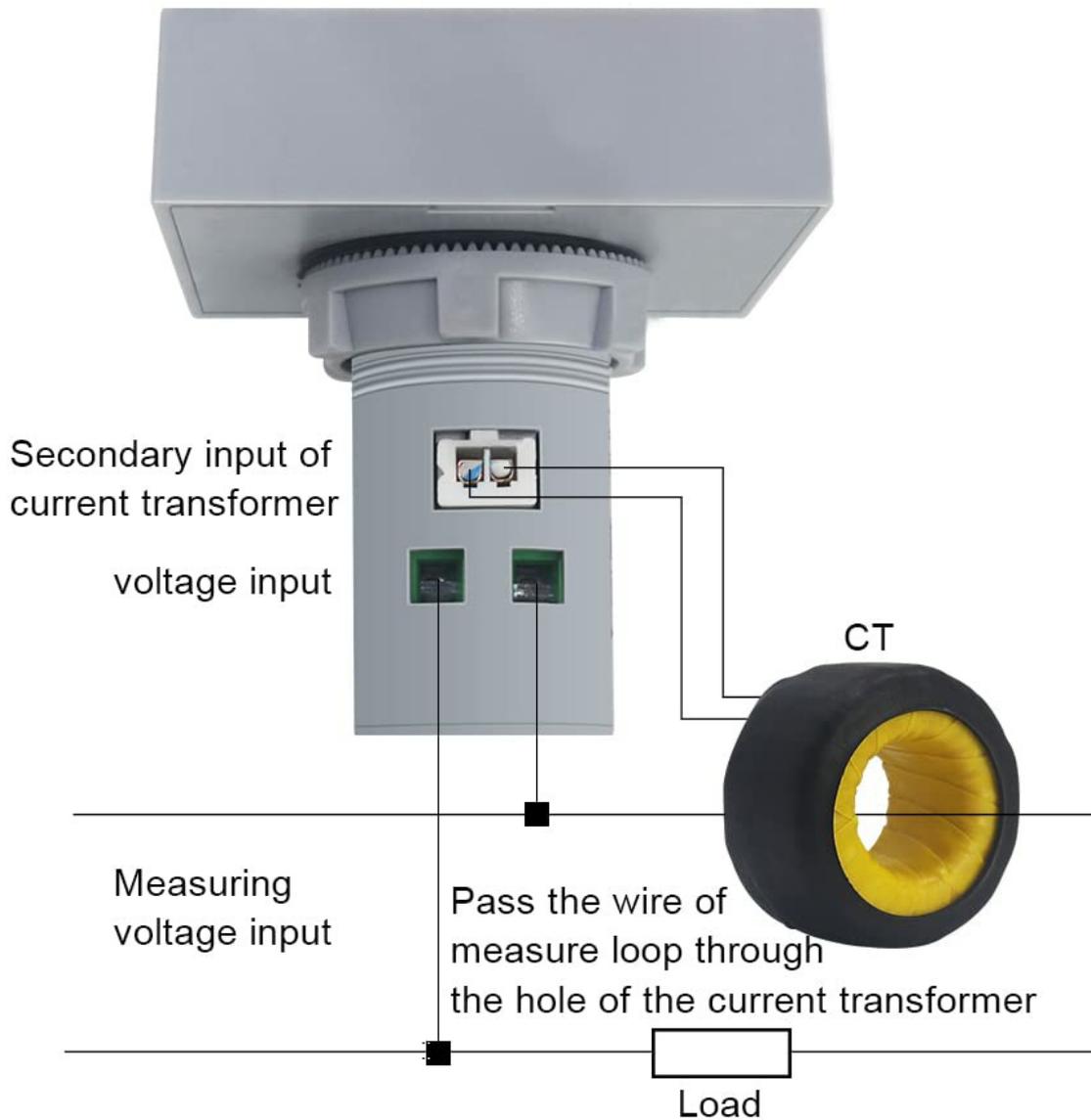


Image 4.2: Detailed wiring diagram illustrating how to connect the voltage input and integrate the current transformer (CT) with the load circuit.

5. OPERATING INSTRUCTIONS

5.1 Power On and Display

Once correctly installed and powered, the meter's HD color LCD will illuminate, displaying the six measured electrical parameters simultaneously.

5.2 Automatic Data Storage

The meter features an automatic data storage function for electrical energy readings. If power is interrupted, the last recorded energy value is saved. Upon power restoration, the meter will display this saved value and continue to accumulate energy consumption from that point.

5.3 Resetting Electrical Energy

To reset the accumulated electrical energy value (kWh):

1. Locate the reset button. It is a small button positioned at the bottom right of the meter's casing.
2. Using a thin, pointed object (such as a needle or paperclip), press and hold the reset button for approximately 4 seconds.
3. Release the button. The electrical energy reading will reset to zero.



Image 5.1: The reset button is discreetly located on the side of the meter, requiring a small tool for activation.

6. MAINTENANCE

The KETOTEK Mini AC Energy Meter requires minimal maintenance. Follow these guidelines to ensure optimal performance and longevity:

- **Cleaning:** Use a soft, dry cloth to clean the display and casing. Avoid abrasive cleaners or solvents that could damage the surface.
- **Environment:** Install the meter in a dry environment, away from direct sunlight, extreme temperatures, and high humidity.
- **Connections:** Periodically check all wiring connections to ensure they remain secure.

7. TROUBLESHOOTING AND IMPORTANT WARNINGS

Important Warning:

This digital energy meter is designed exclusively for measuring standard 50/60 Hz AC city power. It is critical to adhere to this specification. Using the meter to measure:

- Square waves
- Inverter output
- Non-standard sine waves

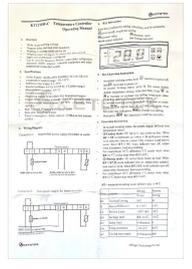
will cause irreparable damage to the device and void any warranty. Ensure the power source is compatible before connecting the meter.

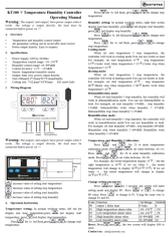
8. WARRANTY AND SUPPORT

KETOTEK products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation provided with your purchase or contact KETOTEK customer support. If you encounter any issues or require technical assistance, please reach out to the seller or manufacturer through the official channels.

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