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> Upgraded Watt Meter, Home Electricity Usage Monitor, Plug-in Socket Power Meter, Power Watt Voltage Amps Meter Tester, Overload Protection

kuman KW47-US

Upgraded Watt Meter User Manual

Model: KW47-US | Brand: kuman

INTRODUCTION

The kuman Upgraded Watt Meter is a versatile plug-in device designed to monitor the electricity usage of your home appliances. It provides detailed insights into various electrical parameters, helping you understand power consumption, identify energy-intensive devices, and ultimately save on electricity costs. This manual provides comprehensive instructions for setting up, operating, and maintaining your watt meter.

KEY FEATURES

- **Electricity Usage Monitoring:** Tracks power, voltage, amperage, frequency, power factor, energy (kWh), cost, and minimum/maximum power.
- **7 Display Modes:** Easily switch between different data displays to view various parameters.
- **Overload Protection:** Alerts the user with an "OVERLOAD" display and sound if the connected load exceeds 1800W.
- **Data Memory Function:** Automatically saves power consumption data even when unplugged or during power failures.
- **Digital LCD Display:** Large, clear screen for easy readability day or night.

PRODUCT OVERVIEW





Figure 1: Front view of the kuman Upgraded Watt Meter. It features a large LCD display at the top, control buttons below it, and a standard US plug socket at the bottom.

VARIOUS MONITORING PARAMETERS

Help to monitor energy usage and save electricity



Electric Current



Electricity bill



Overload



Max/Min Power



Power factor



Frequency



Save Energy



Cumulative Time



Voltage



Power



Figure 2: Visual representation of the various monitoring parameters including Electric Current, Electricity Bill, Overload, Max/Min Power, Power Factor, Frequency, Save Energy, Cumulative Time, Voltage, and Power.

SETUP

1. **Unpack the Device:** Carefully remove the watt meter from its packaging.
2. **Initial Power-Up:** Plug the watt meter directly into a standard 120V AC wall socket. The LCD display will illuminate.
3. **Reset (Optional):** If an abnormal display appears or buttons are unresponsive, press the **RESET** button (small pinhole) using a thin object like a paperclip.
4. **Set Overload Power:** Before use, ensure the overload power is set to 1800W to prevent damage. Refer to the "Operating" section for setting parameters.
5. **Connect Appliance:** Plug the appliance you wish to monitor into the socket on the front of the watt meter.

OVERLOAD PROTECTION

When the power socket connects the load over 1800W, LCD will display "OVERLOAD" with booming noise to warn the use (selectable choice)



NOTE

Please don't use it on high-power devices long time.

Figure 3: The watt meter in use, showing an appliance (tablet charger) connected. The display indicates "OVERLOAD" when the power exceeds the set limit, highlighting the overload protection feature.

OPERATING INSTRUCTIONS

The kuman Watt Meter features 7 display modes, accessible via the **FUNCTION** button. Use the **UP** and **DOWN** buttons to adjust settings, and the **COST** button to configure electricity rates.

Display Modes:

7 MODES ON DISPLAY

Monitor Electricity Consumption Data Roundy

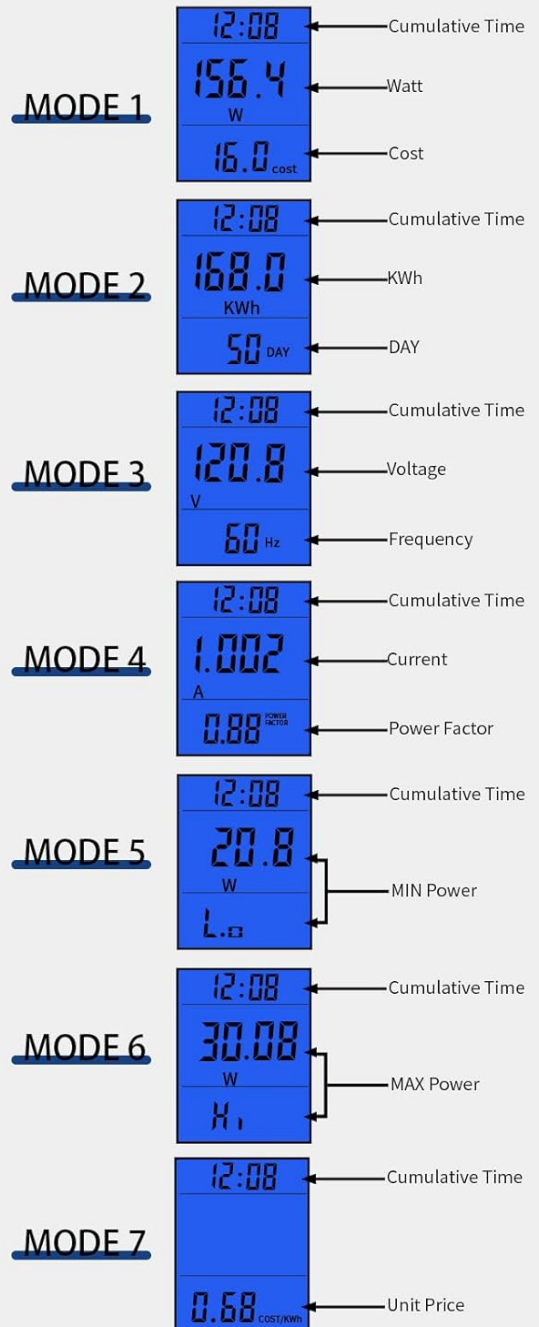


Figure 4: The watt meter's display showing all 7 modes, including cumulative time, watt, cost, kWh, voltage, frequency, current, power factor, minimum power, maximum power, and unit price.

1. **Mode 1: Time/Watt/Cost** - Displays cumulative time, current power consumption (Watts), and total cost.
2. **Mode 2: Time/Cumulative Electrical Quantity (kWh)** - Shows cumulative time and total energy consumed in kilowatt-hours.
3. **Mode 3: Time/Voltage/Frequency** - Displays cumulative time, current voltage (V), and frequency (Hz).
4. **Mode 4: Time/Current/Power Factor** - Shows cumulative time, current (Amps), and power factor.
5. **Mode 5: Time/Minimum Power** - Displays cumulative time and the lowest recorded power consumption (Lo).
6. **Mode 6: Time/Maximum Power** - Shows cumulative time and the highest recorded power consumption (Hi).
7. **Mode 7: Time/Unit Price** - Displays cumulative time and the set unit price of electricity. This mode can be accessed directly by pressing the **COST** button.

Setting Electricity Cost:

- Press the **COST** button to enter cost setting mode (Mode 7).

- The unit price will flash. Use the **UP** and **DOWN** buttons to adjust the value.
- Press **FUNCTION** to move to the next digit or to confirm the setting.
- Once set, the meter will calculate the cost based on the energy consumed.

Official Product Videos:

How to use a Mains Power Consumption Meter

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This video demonstrates the basic operation of the kuman watt meter, including how to plug it in, view current energy usage in watts, and scroll through different display screens like kilowatt-hours. It highlights the timer function and explains the importance of monitoring kWh for cost tracking.

kuman electricity usage monitor with great function

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This video provides a quick overview of the kuman electricity usage monitor, focusing on its key functions. It shows how to reset the device and cycle through various display modes, including time, cumulative electrical quantity, voltage, frequency, current, power factor, minimum power, maximum power, and cost display.

kuman watt meter

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This video demonstrates the kuman watt meter's ability to measure power consumption for various devices, specifically showing its use with UPS units. It illustrates how the meter displays current wattage and amperage, and how the total power consumption increases with more connected devices.

customer review: kuman watt meter

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This customer review video provides an unboxing and setup guide for the kuman watt meter. It details the product's specifications, demonstrates how to set the electricity cost, and shows real-time power readings for a bench light. The video also highlights the meter's ability to track cumulative energy usage and cost over time.

MAINTENANCE

- **Cleaning:** Wipe the device with a dry, soft cloth. Do not use abrasive cleaners or immerse in water.
- **Storage:** If not used for a long time, plug the meter into an AC socket for 15 minutes and press the RESET button to reset it before storing in a cool, dry place.
- **Avoid Overload:** Do not exceed the maximum power rating of 1800W for connected appliances to prevent damage to the meter and potential hazards.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Abnormal display / Buttons unresponsive	Internal error or temporary malfunction.	Press the RESET button using a thin object.
"OVERLOAD" displayed with booming noise	Connected appliance exceeds the set overload power (default 1800W).	Immediately unplug the appliance. Ensure total power consumption does not exceed 1800W.
No display when plugged in	No power from the wall socket or device malfunction.	Check the wall socket with another device. If still no display, contact support.

Problem	Possible Cause	Solution
Data not saving	Rare internal memory issue.	Perform a RESET. If the issue persists, contact support.

Note: If the issue is not listed or persists after attempting the solutions, please contact kuman customer support.

SPECIFICATIONS

Parameter	Value
Operating Voltage	AC 120V
Operating Frequency	60Hz
Wide Voltage Range	110V-130V
Operating Current	15A Max
Timing Display Range	0 second - 9999 days
Measurement Accuracy	±2%
Wattage Display Range	0W-9999W
Voltage Display Range	0V-9999V
Frequency Display	0Hz-9999Hz
Current Display	0.0A-15.0A
Cost Display Range	0.000cost/kWh - 99.99cost/kWh
Total kWh and Cost Display	0.000-999kWh, 0.000-9999cost
Item Weight	7.4 ounces
Product Dimensions	3 x 6 x 6 inches
Material	ABS
Color	White

PRODUCT SIZE AND SPECIFICATIONS

Operating voltage: AC 120V	Wattage display: 0W-9999W
Operating Frequency: 60Hz	Voltage display range: 0V-9999V
Wide voltage range: 110V-130V	Frequency display: 0Hz-9999Hz
Operating current: 15A Max	Current display: 0.0A---15.0A
Timing display range: 0 second---9999 days	Cost display range: 0.000cost/kWh---99.99cost/kWh
Measurement accuracy: $\pm 2\%$	Total kWh and cost display: 0.000---999kWh, 0.000---9999cost



Figure 5: Product dimensions (6.14 inches height, 2.75 inches width, 1.18 inches depth) and a comprehensive table of specifications.

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the official kuman store or contact their customer service directly.

- Official kuman Store: [Visit the kuman Store on Amazon](#)
- User Manual (PDF): [Download User Manual](#)