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Techbee JK-PM04

Techbee Plug-in Electrical Meter Socket Electricity Usage Monitor

Model: JK-PM04

1. PRODUCT OVERVIEW

The Techbee Plug-in Electrical Meter Socket is an advanced device designed to help you monitor and manage your electricity consumption. It provides comprehensive data on various electrical parameters, allowing you to identify energy-intensive appliances and optimize your power usage for energy saving and environmental protection.



Figure 1.1: Techbee Plug-in Electrical Meter Socket Electricity Usage Monitor (Model JK-PM04) with its packaging.

Key Features:

- **Energy-saving and Environmental Protection:** Measures power consumption and calculates total energy costs for rational electricity planning.
- **Multi-functional Monitoring:** Offers 11 display modes including power (Watt), total energy used (kWh),

carbon emissions (CO₂), voltage (Volt), current (Amp), frequency (Hz), power factor, cost per kWh, minimum power, and maximum power.

- **Multi-layer Protection:** Features warning indicators (screen flash and LED) for preset power, energy cost, or consumption limits. Default overload limit is 3680W, with a recommendation to set it to 1800W for initial use.
- **User-friendly Display:** Large, easy-to-read display set at a 45-degree angle for optimal visibility.
- **Partial Reset Function:** Allows deletion of measurement data without affecting original settings (e.g., cost/kWh).
- **Built-in Battery:** Retains settings and measured data even when unplugged.

2. SETUP AND INITIAL USE

Follow these steps to set up your Techbee Power Meter:

1. **Unpacking:** Carefully remove the power meter from its packaging.
2. **Protective Film:** A transparent protective film is present on the screen. You may remove it for clearer visibility or keep it as preferred.
3. **Power On:** Plug the meter directly into a standard electrical wall socket. The display should illuminate. If the screen remains blank or buttons are unresponsive, plugging it into a live socket will resolve the issue as it powers the internal battery and display.
4. **Initial Overload Setting:** The default overload power limit is 3680W. Before using the energy meter, it is recommended to set the overload power to 1800W for general household appliances. Refer to Section 3.2 for instructions on setting alarm thresholds.
5. **Connect Appliance:** Plug the appliance you wish to monitor into the socket on the front of the power meter.

User Friendly Design for Your Convenience

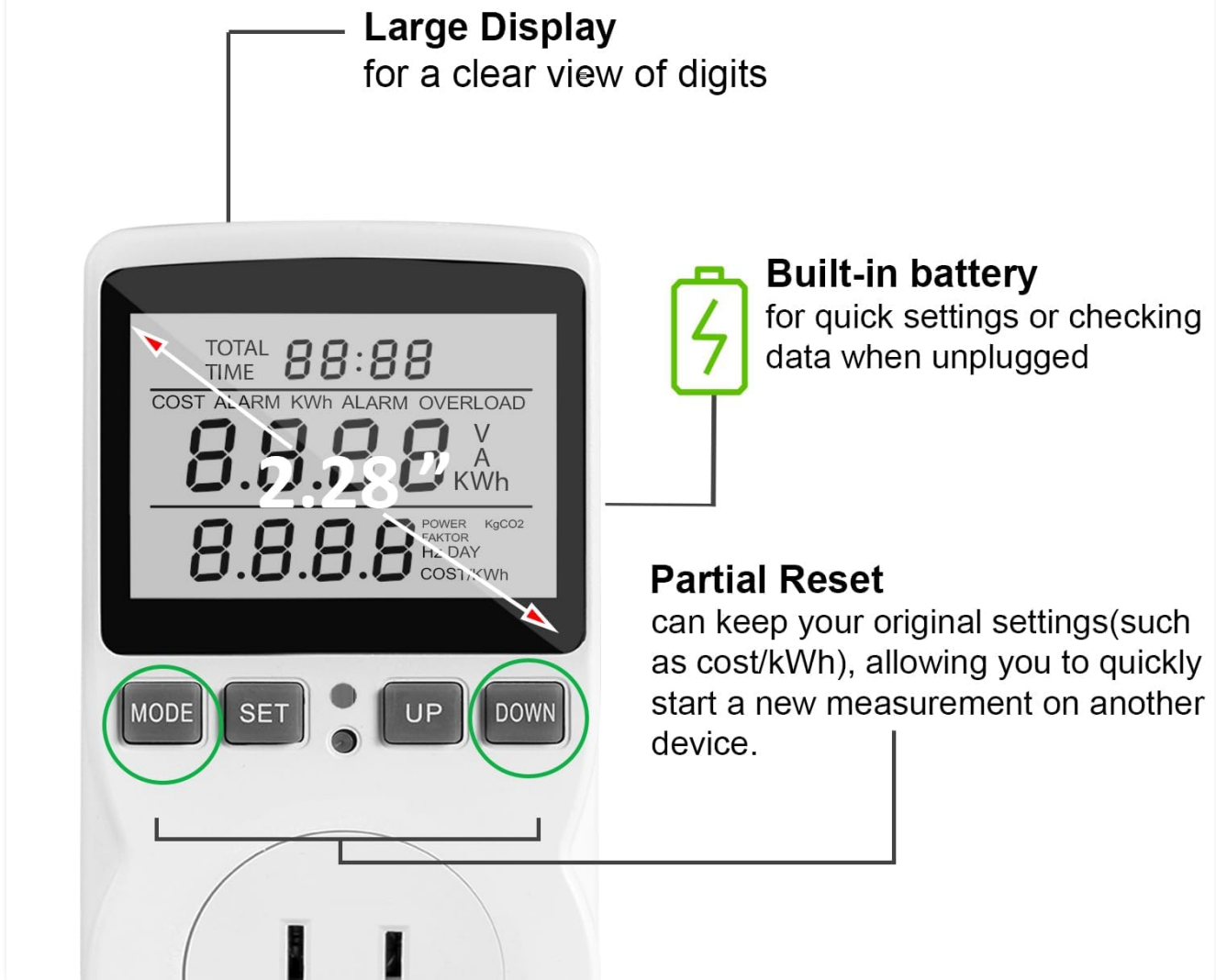


Figure 2.1: The meter features a large display and a built-in battery for convenience.

3. OPERATING INSTRUCTIONS

The Techbee Power Meter features four control buttons: **MODE**, **SET**, **UP**, and **DOWN**.

3.1. Display Modes

Press the **MODE** button to cycle through the 11 different display modes. Each mode provides specific electrical data:

1. **Watt / Total Cost:** Displays current power consumption in Watts and accumulated cost.
2. **Total kWh Used:** Shows the total kilowatt-hours consumed.
3. **Carbon Emissions (CO₂):** Displays CO₂ emissions based on energy consumption.
4. **Voltage / Frequency:** Shows the current voltage (V) and frequency (Hz) of the power supply.

5. **Current / Power Factor:** Displays the current (Amp) and power factor.
6. **Cost per kWh:** Allows setting and viewing the cost per kilowatt-hour.
7. **Minimum Power:** Shows the lowest recorded power consumption.
8. **Maximum Power:** Shows the highest recorded power consumption.
9. **Overload Alarm:** Displays the set overload power limit.
10. **Alarm of kWh:** Displays the set kWh alarm limit.
11. **Alarm of Cost:** Displays the set cost alarm limit.

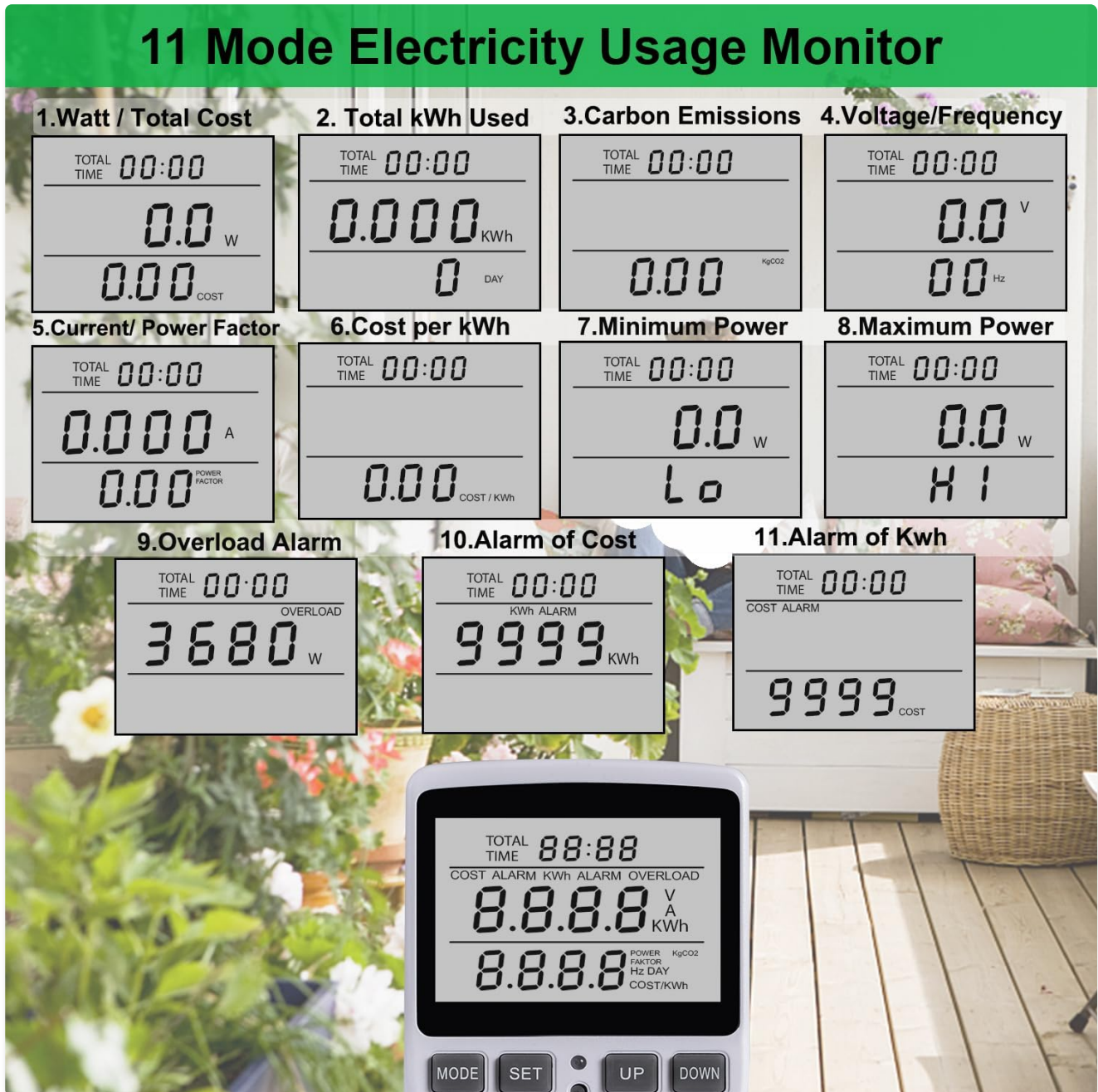


Figure 3.1: Overview of the 11 monitoring modes available on the device.

3.2. Setting Alarm Thresholds and Cost

To set specific values like cost per kWh or alarm limits:

1. Press the **MODE** button until you reach the desired setting mode (e.g., "Cost per kWh", "Overload Alarm", "Alarm of kWh", or "Alarm of Cost").
2. Press the **SET** button. The digit you can adjust will start flashing.
3. Use the **UP** and **DOWN** buttons to adjust the value.

4. Press **SET** again to move to the next digit or to confirm the setting.
5. Once all digits are set, press **MODE** to exit the setting mode.

Flashing LED for Visible Alarms

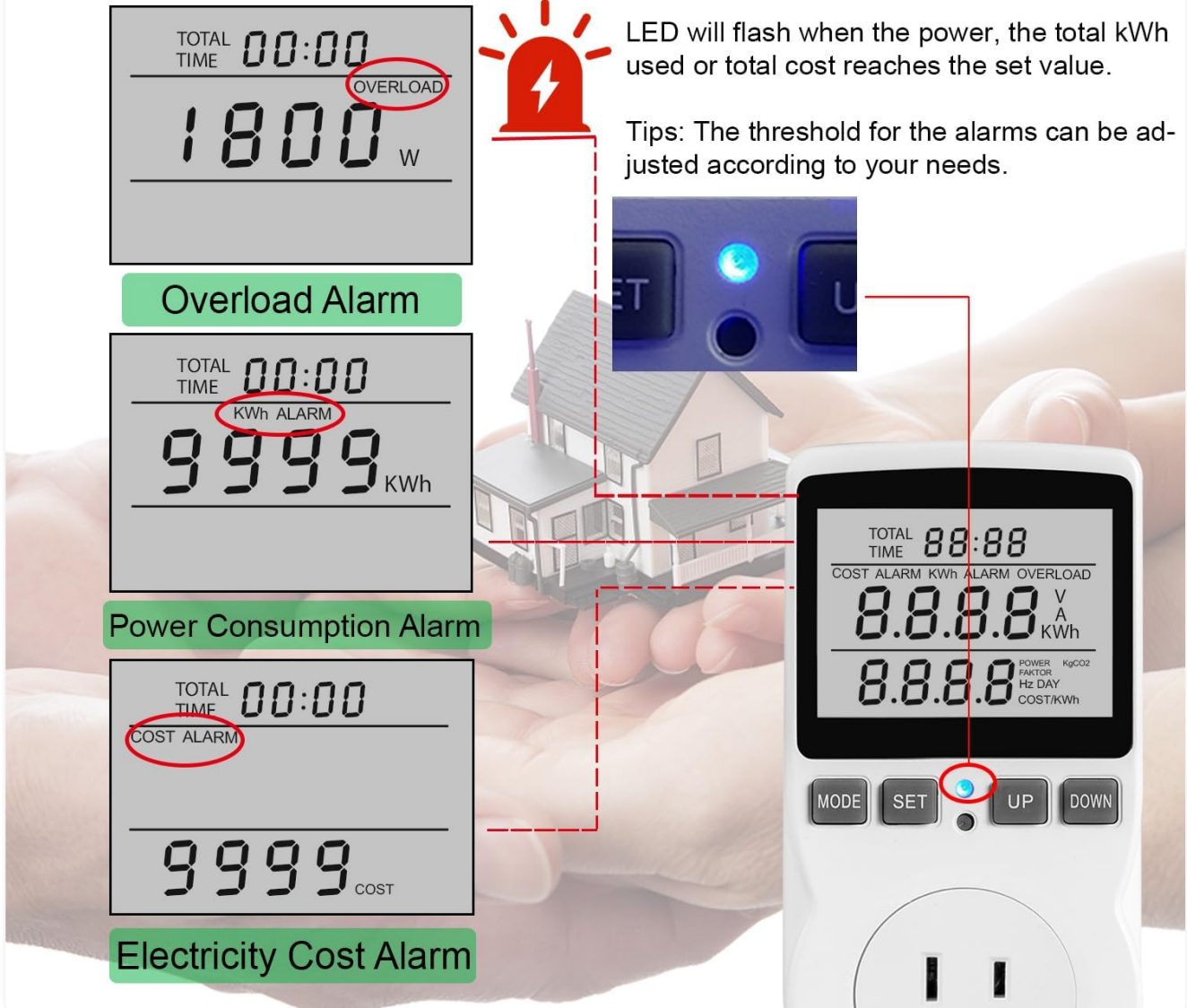


Figure 3.2: The device provides visual alarms (flashing LED and screen indicators) when set thresholds are exceeded.

3.3. Resetting Data

The meter allows for partial data reset, which means you can clear accumulated measurement data (like total kWh or total cost) without losing your custom settings (like cost per kWh or alarm thresholds). To reset measurement data, press and hold the **DOWN** button for approximately 5 seconds until the relevant data clears.

3.4. Monitoring Appliance Consumption

The meter can precisely detect power usage down to 0.5W, allowing you to identify even the tiniest standby power consumption from your devices. This helps in tracking and reducing unnecessary electricity usage across various household appliances.

Track Your Home Appliance Consumption to Save Unnecessary Electricity and Its Cost



Figure 3.3: The power meter can be used to track consumption of various household appliances.

4. MAINTENANCE

To ensure the longevity and accurate performance of your Techbee Power Meter, follow these maintenance guidelines:

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents, as they may damage the display or casing.
- **Storage:** Store the meter in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery:** The meter includes a built-in Lithium Metal battery. This battery is not user-replaceable and is designed to retain settings and data when the device is unplugged.
- **Avoid Moisture:** Do not expose the device to water or high humidity. It is designed for indoor use only.

5. TROUBLESHOOTING

If you encounter any issues with your Techbee Power Meter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Screen is blank or buttons are unresponsive.	Meter is not receiving power or internal battery needs charging.	Plug the meter into a live electrical socket. This will power the unit and charge the internal battery.
Display is difficult to read.	Lack of backlight in low-light conditions.	Use a flashlight to illuminate the screen for better visibility. Ensure adequate ambient lighting.
Overload alarm activates frequently.	Connected appliance exceeds the set overload limit.	Reduce the load on the circuit or adjust the overload limit if appropriate (refer to Section 3.2). Ensure the total wattage does not exceed the meter's maximum capacity (15A).
Data not resetting correctly.	Incorrect reset procedure.	Ensure you are pressing and holding the DOWN button for approximately 5 seconds to perform a partial reset.

6. SPECIFICATIONS

Feature	Specification
Model Number	JK-PM04
Item Weight	5.9 ounces
Package Dimensions	6.73 x 3.23 x 2.52 inches
Power Source	Corded Electric
Measurement Accuracy	±2%
Included Components	Watt meter
Battery Type	1 Lithium Metal battery (included)
Manufacturer	Shen Zhen He Yi Ke Ji You Xian Gong Si
Date First Available	July 16, 2023

7. WARRANTY AND SUPPORT

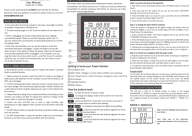
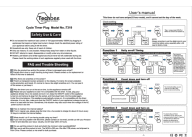
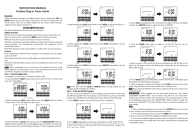
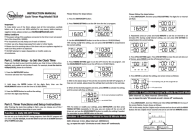
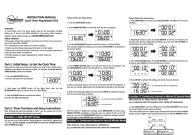
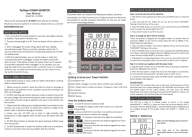
Techbee stands behind the quality of its products. This product comes with **a1-year warranty** from the date of purchase.

For any questions, technical assistance, or warranty claims, please contact Techbee customer service. We offer lifetime customer service to ensure your satisfaction with our products.

You can find more information and support resources by visiting the official Techbee store: [Techbee Store on Amazon](#).

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Related Documents - JK-PM04

	<p>Techbee JK-PM04 Power Monitor User Manual: Features, Safety, and Operation</p> <p>Comprehensive user manual for the Techbee JK-PM04 Power Monitor. Learn about its features, safety precautions, setup, and how to monitor electricity usage, cost, and carbon emissions.</p>
	<p>Techbee T319 Cycle Timer Plug User's Manual</p> <p>The Techbee T319 Cycle Timer Plug is a versatile digital timer designed for household use, offering various programmable modes for automatic control of electrical appliances. Features include clock setting, daily on-off timing, countdown functions (turn off/on), and advanced interval cycle modes (infinite or set duration). It ensures safety with overload protection and includes features like child lock and alarm. Ideal for managing power consumption and automating device operation.</p>
	<p>Techbee Plug-in Timer Outlet Instruction Manual - Model TE02</p> <p>Comprehensive instruction manual for the Techbee Plug-in Timer Outlet (Model TE02), covering setup, programming, manual operation, countdown, and random functions. Includes safety guidelines and specifications.</p>
	<p>Techbee T319 Digital Programmable Outlet Timer Plug Instruction Manual</p> <p>Detailed instruction manual for the Techbee T319 digital programmable outlet timer plug, covering setup, various timing functions, specifications, and troubleshooting.</p>
	<p>Techbee T319 Cycle Timer Plug: User Manual and Setup Guide</p> <p>Comprehensive instruction manual for the Techbee T319 digital cycle timer plug. Learn how to set the clock, program daily ON/OFF cycles, continuous intervals, countdown timers, and more for efficient appliance control.</p>
	<p>Techbee JK-PM04 Power Monitor User Manual: Features, Safety, and Operation</p> <p>Comprehensive user manual for the Techbee JK-PM04 Power Monitor. Learn about its features, safety precautions, setup, and how to monitor electricity usage, cost, and carbon emissions.</p>

