diymore DMH-LF0048A

Diymore Plug-in Electricity Cost Meter User Manual

Model: DMH-LF0048A
Brand: diymore

1. Introduction

The Diymore Plug-in Electricity Cost Meter is a versatile device designed to help you monitor and understand the electricity consumption of your appliances. It provides real-time data on various electrical parameters and calculates electricity costs, enabling better energy management and cost savings. This manual will guide you through the setup, operation, and maintenance of your electricity meter.

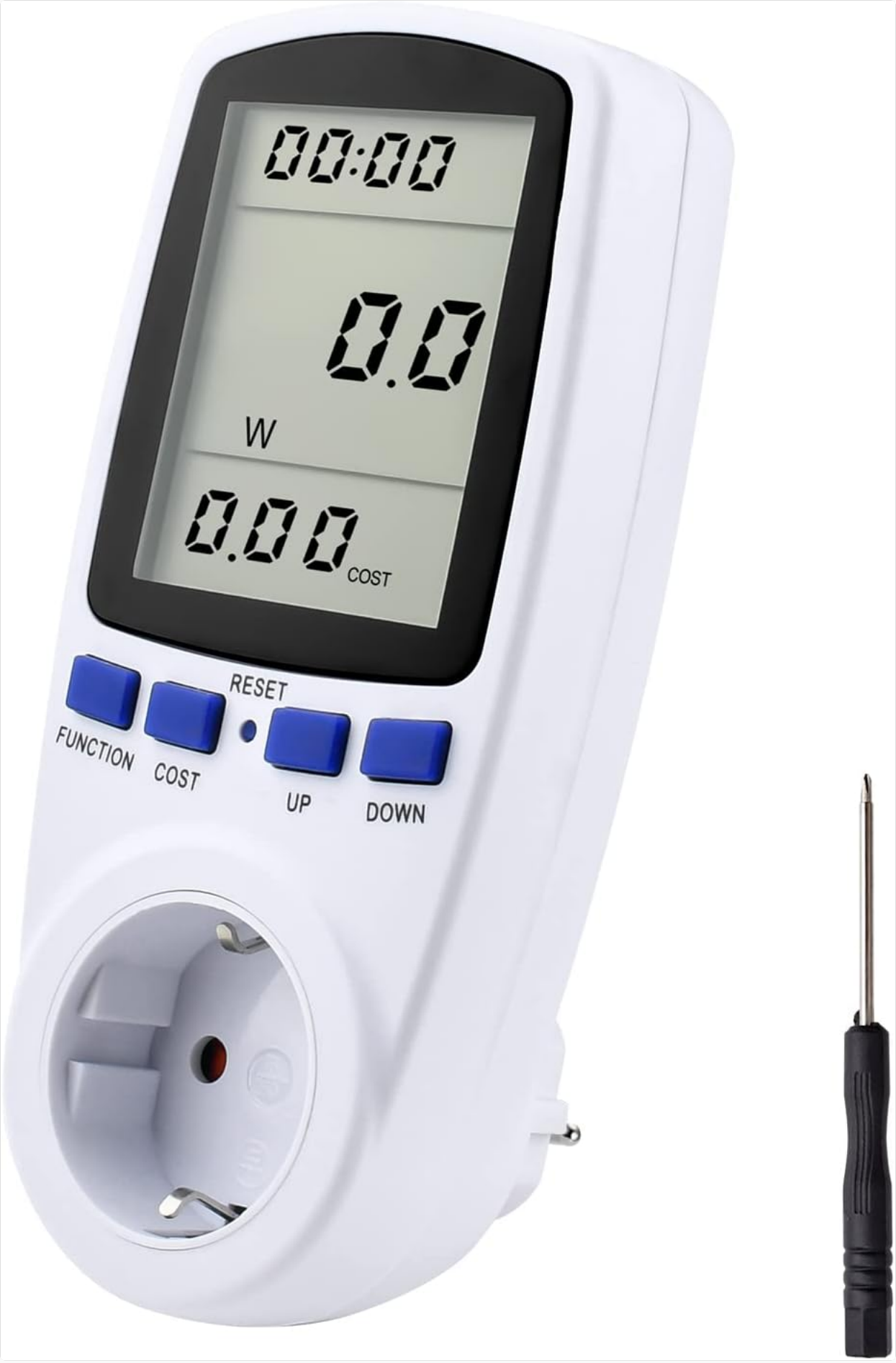

Figure 1.1: Front view of the Diymore Electricity Cost Meter, showing the LCD screen, function buttons, and power socket.

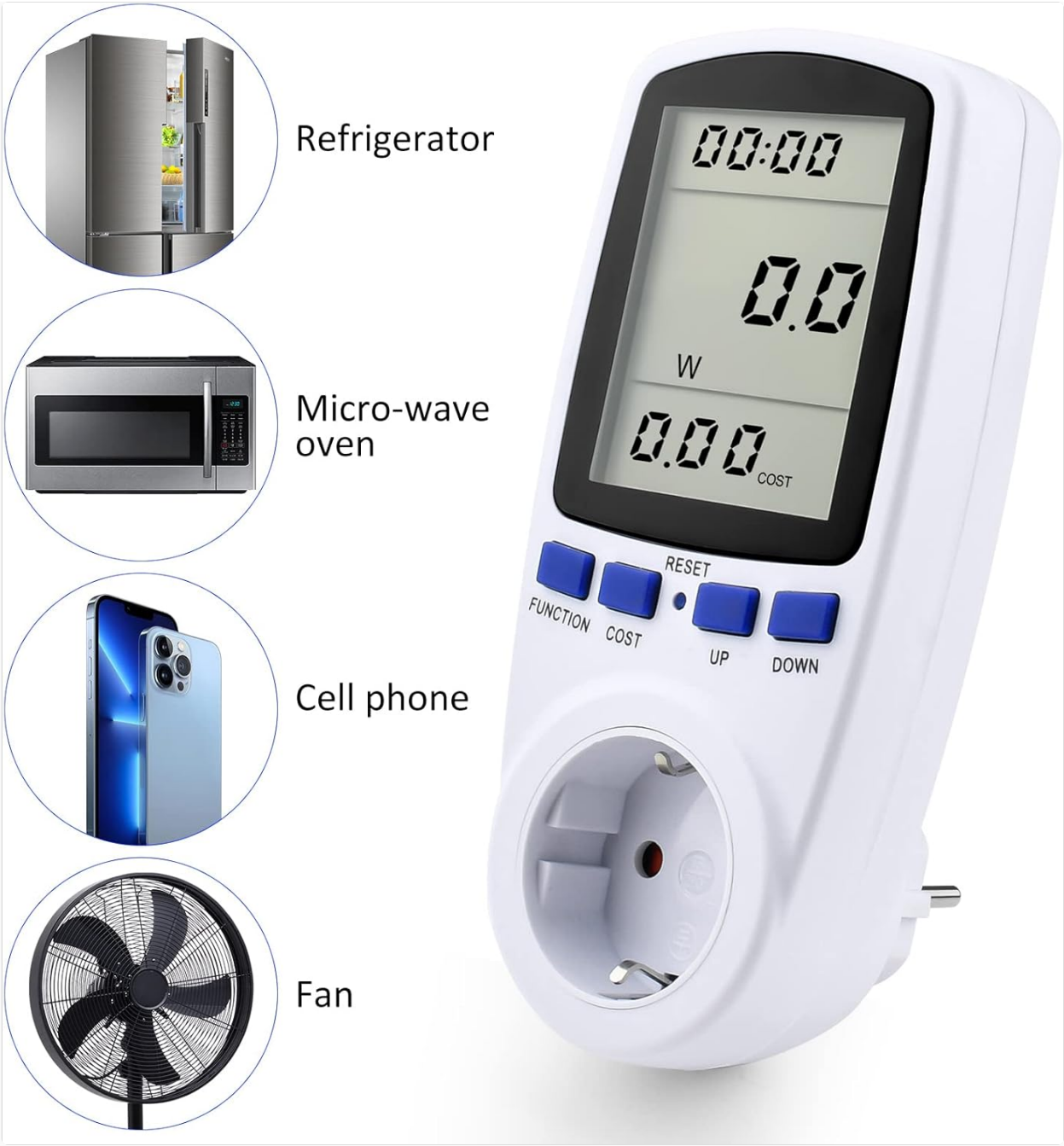

Figure 1.2: The electricity meter can be used with a variety of household appliances to monitor their power consumption.

2. Setup

Setting up your Diymore Electricity Cost Meter is straightforward:

1. **Unpack:** Carefully remove the electricity meter from its packaging.
2. **Insert Batteries:** The device requires 1 LR44 battery (included). Ensure it is properly inserted for memory function and display.
3. **Plug In:** Insert the electricity meter into a standard wall outlet. The LCD screen should illuminate.
4. **Connect Appliance:** Plug the appliance you wish to monitor into the socket on the front of the electricity meter.

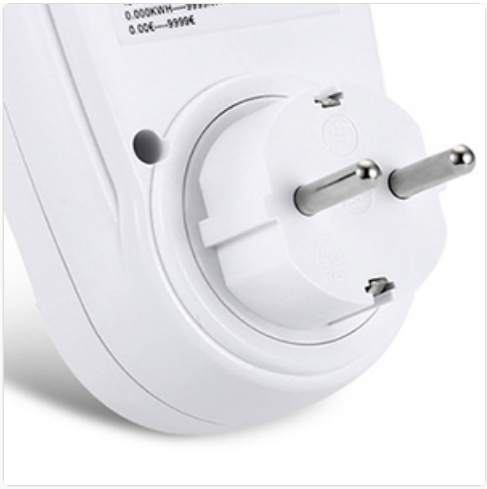

Figure 2.1: Detail of the integrated power socket where appliances are connected.

3. Operating Instructions

The electricity meter features an LCD display and several buttons for navigation and data viewing. It offers 7 distinct modes for monitoring electrical parameters.

3.1. Button Functions

- **FUNCTION:** Press to cycle through the 7 display modes.
- **COST:** Used to set the unit cost of electricity.
- **UP:** Used to increase values when setting the unit cost.
- **DOWN:** Used to decrease values when setting the unit cost.
- **RESET:** Press and hold to clear accumulated data (energy, cost, accumulated time).

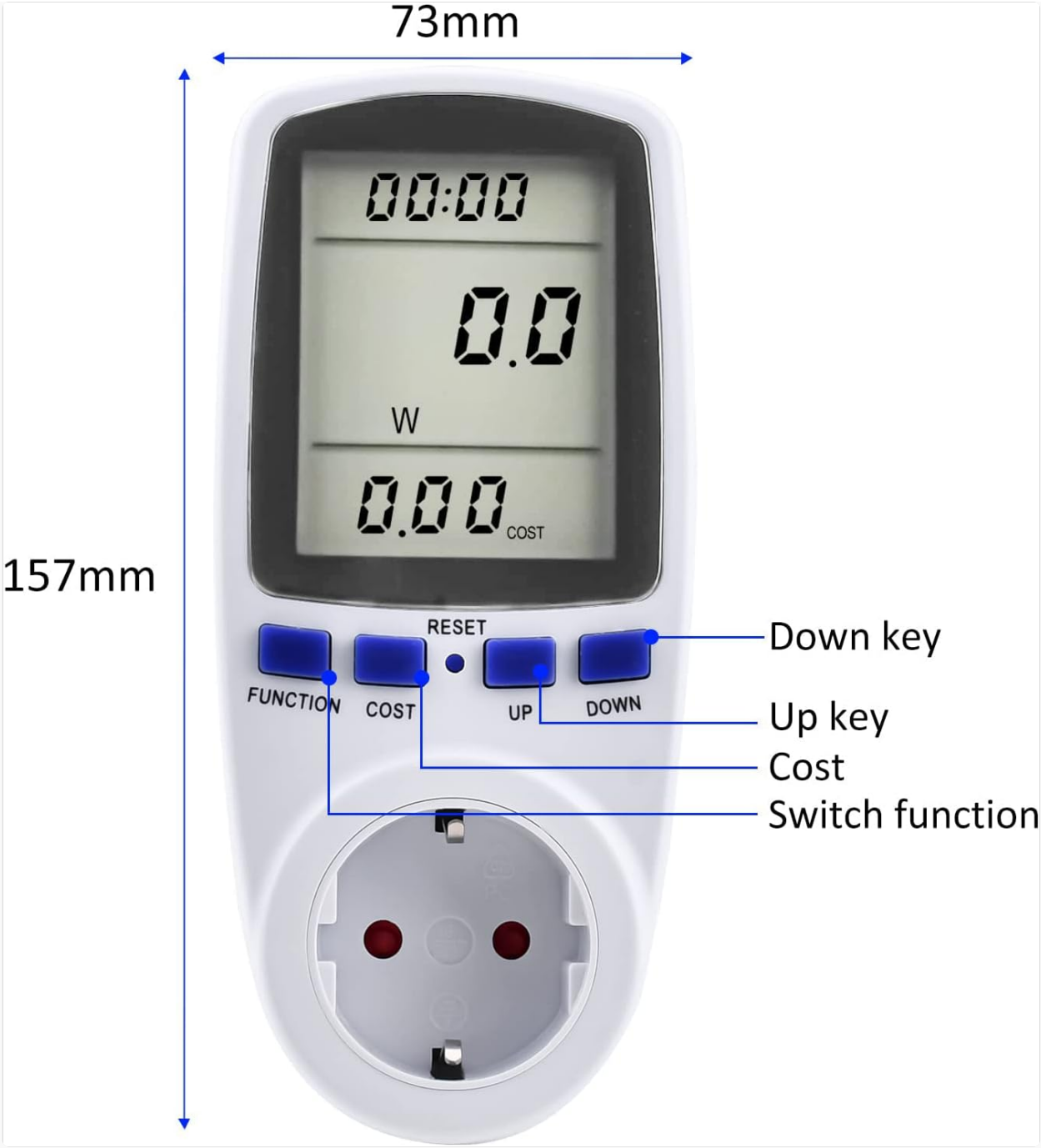

Figure 3.1: Overview of the meter's buttons and their labels.

3.2. Display Modes

Press the **FUNCTION** button to switch between the following modes:

1. **Mode 1: Time/Watt/Cost Display**
   Shows the current time, real-time power consumption in Watts (W), and accumulated cost.
2. **Mode 2: Time/Accumulated Energy (kWh)/Days Display**
   Displays the total accumulated energy consumption in kilowatt-hours (kWh) and the number of days the device has been monitoring.
3. **Mode 3: Time/Voltage/Frequency Display**
   Shows the current time, voltage (V) of the power supply, and frequency (Hz).
4. **Mode 4: Time/Current/Power Factor Display**
   Displays the current time, current (A) drawn by the appliance, and the power factor.
5. **Mode 5: Time/Minimum Power (Lo) Display**

Shows the current time and the lowest recorded power consumption (Lo).

6. **Mode 6: Time/Maximum Power (Hi) Display**
   Displays the current time and the highest recorded power consumption (Hi).
7. **Mode 7: Time/Cost/kWh Unit Cost Display**
   Shows the current time and the set unit cost per kWh.

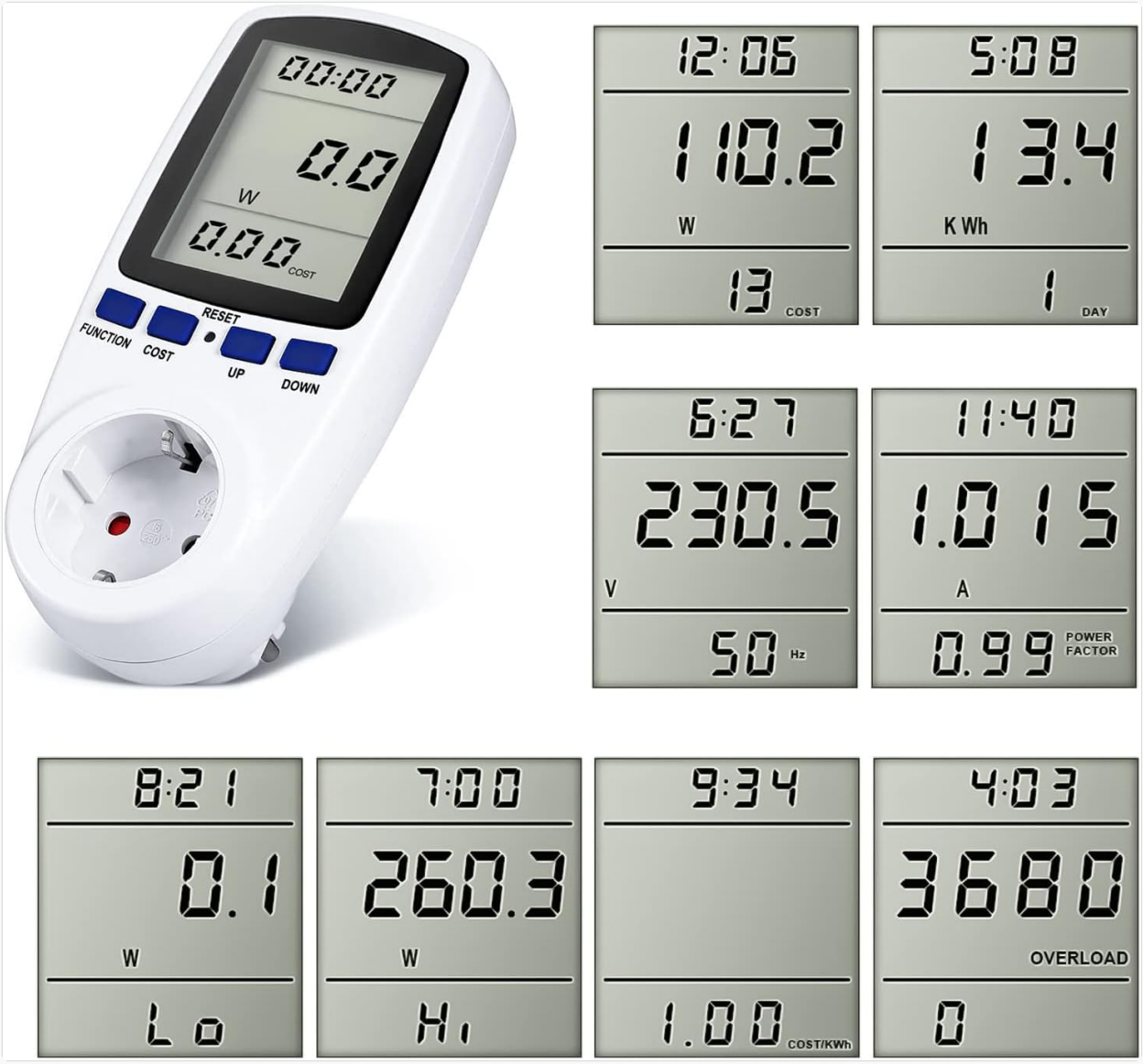

Figure 3.2: Examples of the various data displays available on the meter's LCD screen.

3.3. Setting Electricity Cost

To set the unit cost of electricity:

1. Press the **COST** button. The cost display will start flashing.
2. Use the **UP** and **DOWN** buttons to adjust the unit cost per kWh.
3. Press **COST** again to confirm and save the setting.

3.4. Overload Protection

The meter features an overload protection function. If the connected appliance's power consumption exceeds 3680 Watts, an audible alarm will sound to warn the user. This helps prevent damage to the meter or the electrical circuit.

4. Maintenance

To ensure the longevity and accuracy of your Diymore Electricity Cost Meter:

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the meter in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Replacement:** If the display becomes dim or the memory function fails, replace the LR44 battery.

5. Troubleshooting

- **Display is blank:** Ensure the meter is securely plugged into a live outlet. Check if the LR44 battery needs replacement.
- **No readings for time/date:** The