DEWIN LFMLKLAKB-GS110474

DEWIN Energy Cost Meter User Manual

Model: LFMLKLAKB-GS110474

1. Product Overview

The DEWIN Intelligent Circuit Breaker is a versatile device designed for monitoring energy consumption and providing multiple layers of electrical protection. It features a digital color LED display for intuitive data visualization and supports remote control via a mobile application.

Key Features:

- **Self-reset Function:** Automatically stores electrical energy values when the device is turned off.
- **Colorful Digital Display:** Clearly shows voltage, current, electrical energy, and power.
- **Multiple Protection:** Includes overvoltage, undervoltage, over-current, leakage, and temperature protection.
- **Time Control:** Features time control, point switch, and three time measurement modes (chronograph, countdown, cycle).
- **WiFi Mobile Phone Remote Control:** Manage the device from anywhere with a signal via the TUYA App.
- **Durable Material:** Constructed from ABS flame retardant material for safety and longevity.



Image 1.1: The DEWIN Energy Cost Meter displaying voltage, current, power, and energy, alongside a mobile phone showing the corresponding app interface for total forward energy.

2. Package Contents

Upon opening the package, ensure all the following items are present:

- 1 x DEWIN Intelligent Circuit Breaker
- 1 x English User Manual

3. Safety Information

WARNING: To be used under the direct supervision of an adult.

Always adhere to local electrical codes and safety regulations when installing or operating this device. Installation should only be performed by qualified personnel.

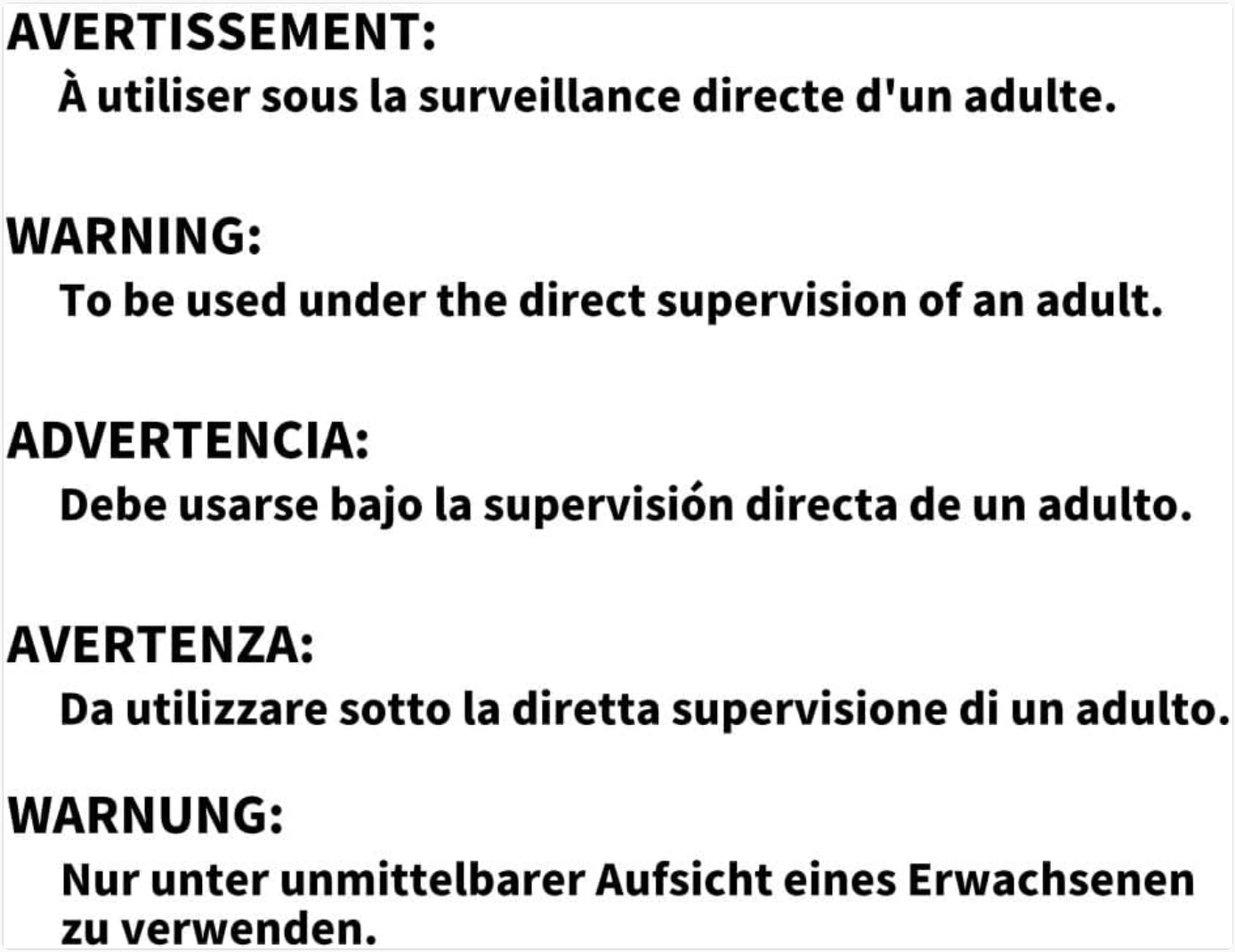


Image 3.1: Safety warning indicating that the product must be used under the direct supervision of an adult.

4. Setup and Installation

The DEWIN Energy Cost Meter is designed for DIN rail installation.

4.1 Physical Installation

The device supports standard 35mm guide rail installation, making it suitable for most electrical distribution boxes.



Image 4.1: The DEWIN Energy Cost Meter mounted on a standard 35mm DIN guide rail, demonstrating its compact design and ease of integration into electrical panels.



Image 4.2: Detailed view showing the guide rail installation mechanism, the physical button design for local control, and the clear LCD digital display of the device.

4.2 Network Configuration (TUYA App)

To utilize the remote control and monitoring features, configure the device with the Tuya Smart APP.

1. **Download the Tuya Smart APP:** Search for "Tuya Smart" in your mobile application market (e.g., Google Play Store, Apple App Store) and install it. Register an account and log in.
2. **Add Device:** In the app, find the "Add Device" interface. Select "Energy Saving" then "Energy Circuit Breaker (WIFI)" to enter the distribution network interface.
3. **Pairing Mode:** Press and hold the device's network configuration button until the indicator light flashes quickly. This indicates it's in pairing mode.
4. **Enter Wi-Fi Password:** In the app, enter your wireless network (Wi-Fi) password for pairing.
5. **Connection Success:** After successful connection, you can enter the circuit breaker control interface and view power consumption data on your mobile phone. The data will synchronize with the device.

6. **Device Settings:** Click the setting button in the lower right corner of the app to enter the device alarm setting interface. Values can be set and adjusted as needed.
7. **Timing Control:** Click the timing button in the lower right corner to enter the equipment timing switch setting interface, where you can set opening and closing schedules.

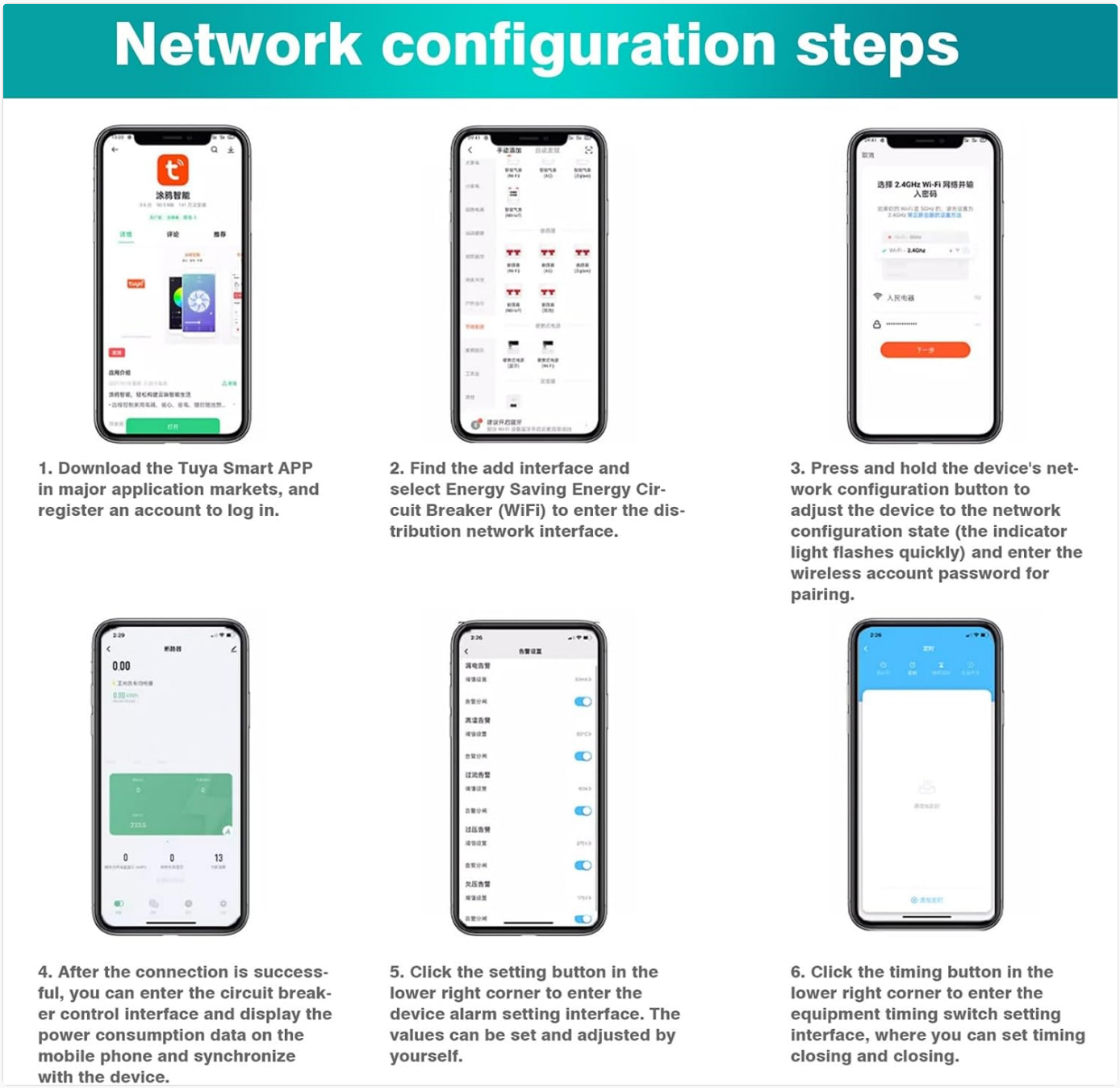


Image 4.3: A visual guide illustrating the step-by-step process of network configuration using the Tuya Smart APP, from downloading the app to setting up timing schedules.

5. Operating Instructions

5.1 Local Operation

The device features a physical button for basic control. Refer to the display and button for direct interaction.



Image 5.1: Close-up of the device showing the physical "SET" button and the power button, along with the clear digital display indicating voltage, current, power, and energy.

5.2 Remote Control and Monitoring (TUYA App)

Once connected to the Tuya Smart APP, you can remotely monitor and control the circuit breaker from anywhere with an internet connection.

- **Real-time Monitoring:** View current voltage, current, power, and total energy consumption in real-time.
- **Remote Switching:** Turn the circuit breaker on or off remotely.
- **Protection Settings:** Adjust parameters for overvoltage, undervoltage, over-current, and leakage protection.
- **Timing Schedules:** Set up automated schedules for turning the device on or off at specific times, promoting energy efficiency.



Image 5.2: Illustration of the remote control capabilities, showing the device installed in an electrical panel and a smartphone displaying the Tuya app interface for real-time monitoring.



Image 5.3: Example of the timing schedule feature, demonstrating how to program the device to turn lights on and off at specific times to save electricity.

6. Protection Functions

The DEWIN Energy Cost Meter provides comprehensive protection features:

- **Overvoltage Protection:** Protects connected devices from excessive voltage. Adjustable range: AC 240-300V (default 275V).
- **Undervoltage Protection:** Safeguards against damage from insufficient voltage. Adjustable range: AC 145-210V (default 175V).
- **Over-current Protection:** Prevents damage due to excessive current draw. Adjustable range: 1-63A (default 63A).
- **Leakage Protection:** Detects and protects against electrical leakage. Leakage rating: 10-99mA.
- **Over Temperature Protection:** Operates within a temperature range of -30 to 70 °C.
- **Reconnection Time:** Configurable reconnection delay after a protection event: 10-99s (default 30s).

7. Maintenance

The DEWIN Energy Cost Meter is designed for durability and requires minimal maintenance.

- **Cleaning:** Use a dry, soft cloth to clean the exterior of the device. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the wiring connections to ensure they are secure.
- **Environment:** Ensure the device is installed in a dry environment, free from excessive dust or moisture.



Image 7.1: Diagram highlighting the robust construction of the device, featuring a PC material shell, ABS flame retardant properties, ease of installation, integrated smart chip, and high temperature resistance, contributing to its low maintenance.

8. Troubleshooting

If you encounter issues with your DEWIN Energy Cost Meter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Device not powering on.	No power supply; incorrect wiring.	Check power source. Verify wiring according to installation instructions.
Cannot connect to Wi-Fi.	Incorrect Wi-Fi password; device too far from router; incorrect pairing mode.	Ensure correct password. Move device closer to router. Re-enter pairing mode (indicator light flashing quickly).
App not displaying data.	No internet connection; app not synchronized; device offline.	Check phone's internet connection. Restart app. Verify device is online and connected to Wi-Fi.
Protection function tripping frequently.	Overload on circuit; sensitive protection settings.	Reduce load on the circuit. Adjust protection thresholds in the app if appropriate (consult an electrician if unsure).

9. Specifications

Parameter	Value
Product Name	Intelligent Circuit Breaker
Model Number	LFMLKLAKB-GS110474
Material	ABS flame retardant material
Display	Digital color LED display
Rated Voltage	230VAC (80-300V available)
Power Display Range	0-9999 kW/h
Low Voltage Protection	AC 145-210V (adjustable: standard 175V)
Surge Protection	AC 240-300V (adjustable: standard 275V)
Over Current Protection	1-63A (adjustable: standard 63A)
Leakage Rating	10-99mA
Reconnection Time	10-99s (default 30s)
Time Control Range	1 minute - 168 hours
Number of Time Groups	30 on/off
Over Temperature Protection	-30 - 70 °C
Time Measurement Modes	Chronograph mode / Countdown mode / Cycle time measurement
Dimensions	10 x 5 x 5 cm
Weight	180 g

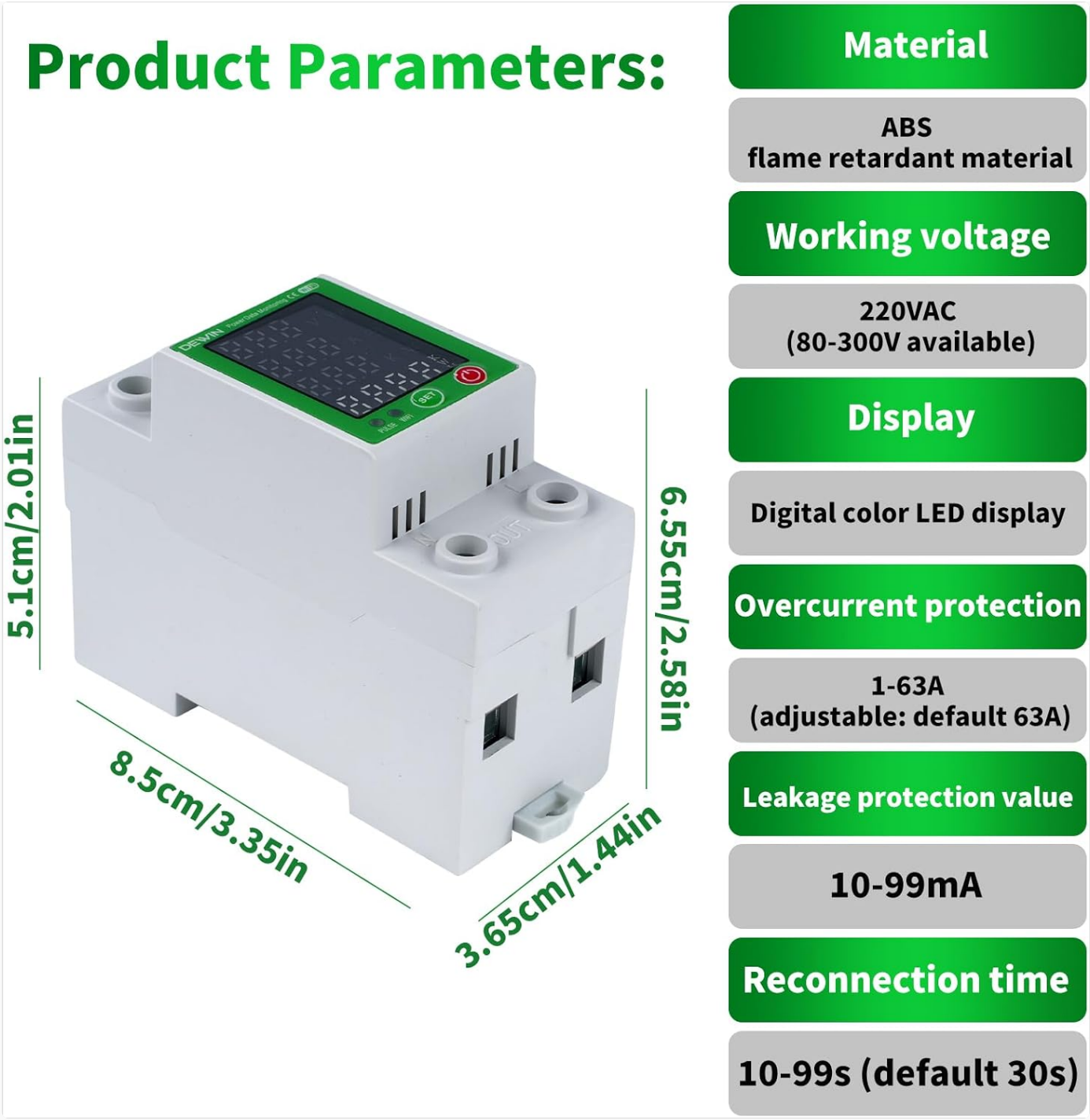


Image 9.1: Visual representation of the product dimensions and a summary of key technical parameters.

10. Warranty and Support

For warranty information and technical support, please refer to the contact details provided with your purchase or visit the official DEWIN website.

Online Resources:

- For additional support and FAQs, please visit theproduct page on Amazon.eg.

© 2024 DEWIN. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question