

Yasorn SPM01 WiFi 1-Phase Energy Monitor

eMylo SPM01 Smart WiFi 1-Phase Energy Monitor Instruction Manual

1. INTRODUCTION

Thank you for choosing the eMylo SPM01 Smart WiFi 1-Phase Energy Monitor. This device is designed to accurately measure and monitor your electrical energy consumption in real-time, providing valuable insights through a mobile application. Please read this manual carefully before installation and use to ensure safe and optimal performance.

The eMylo SPM01 features high accuracy, simple installation, remote monitoring capabilities, and detailed energy statistics, all within a compact design.

2. SAFETY INFORMATION

- **Electrical Safety:** Installation must be performed by qualified personnel only. Always turn off the main power supply before attempting any wiring or installation.
- **Voltage and Current:** Ensure the device's specifications match your electrical system (110V-240V, 63A max).
- **Proper Wiring:** Incorrect wiring can cause product damage or electrical hazards. Follow the wiring diagrams precisely.
- **Environment:** Do not expose the device to excessive moisture, dust, or extreme temperatures.
- **Maintenance:** Do not attempt to repair or modify the device yourself. Contact customer support for assistance.

3. PRODUCT FEATURES

- **High Accuracy:** Equipped with an imported chip, offering 99% statistical accuracy for precise energy consumption measurement.
- **Compact Design:** Mini size (1.8 x 4.6 x 2.1 cm) maximizes space saving, allowing installation in existing electrical boxes or switch walls without needing a separate distribution box.
- **Inductive Measurement:** Utilizes inductive measurement technology, eliminating the need for additional wiring. Simply pass the device cable through the inductive hole.

- **Remote Monitoring:** Monitor real-time current, voltage, power, and total consumption via the Smart Life/Tuya Smart APP.
- **Energy Statistics:** Access daily, monthly, and annual energy consumption data through the app for better energy management.
- **Protection Notifications:** Receive over-voltage, under-voltage, and overload circuit notifications to protect your electrical equipment.
- **Connectivity:** Supports 2.4GHz WiFi for seamless integration with your smart home system.

4. PRODUCT OVERVIEW AND DIMENSIONS

The eMylo SPM01 is a compact and efficient energy monitor. Below are its key dimensions and a visual representation.



Figure 4.1: eMylo Smart Energy Monitor with indicated dimensions (0.82in height, 0.71in width, 1.85in length).



Figure 4.2: Compact energy monitor highlighting its features and small size.

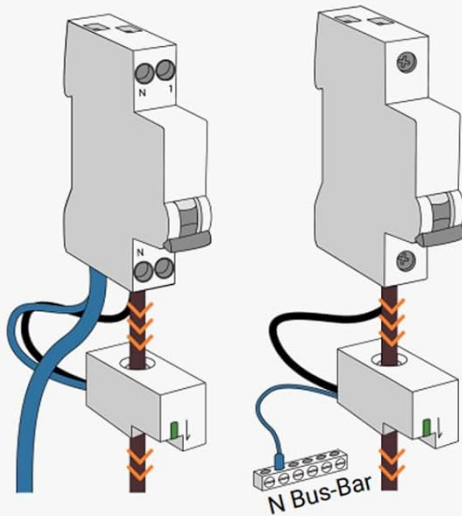
5. INSTALLATION INSTRUCTIONS

Follow these steps carefully to install your eMylo Smart WiFi 1-Phase Energy Monitor. Ensure the main power supply is OFF before proceeding.



5.1 Wiring Diagram

Installation Instruction

Installation Scheme-A



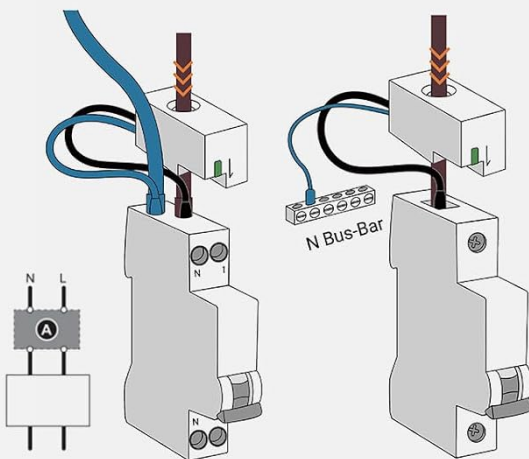
Note:

The energy flowing  in the same direction as the current flow arrow printed on the sensor housing  is counted as forward energy.





- It can cause product damage, if the blue cable for N connection is connected to phase conductors by mistake.
- Installation of SPM01 sensors downstream of control devices-such as a contactor, variable frequency drive or motor starter -is forbidden because of possible product damage.

Installation Scheme-B



Note:

The energy flowing  in the same direction as the current flow arrow printed on the sensor housing  is counted as forward energy.



- It can cause product damage, if the blue cable for N connection is connected to phase conductors by mistake.
- SPM01 sensors must be associated with an easily accessible upstream protection and circuit-breaker system-marked with callout A in the schematic above.

Figure 5.1: Installation Schemes A and B. Note: Energy flowing in the same direction as the current flow arrow on the sensor housing is counted as forward energy. Product damage can occur if the blue cable for N connection is connected to phase conductors by mistake. SPM01 sensors must be associated with an easily accessible upstream protection and circuit-breaker system.

5.2 Step-by-Step Installation

1. **Turn Off Power:** Open your electrical panel and turn off the main power supply to prevent electric shock.
2. **Find the Right Direction:** Ensure the current's direction matches the direction of the arrow printed on the SPM cover.
3. **Disconnect Live Wire:** Disconnect the live wire connected to the circuit breaker.
4. **Pass the Wire:** Let the live wire pass through the inductive hole of the energy monitor.
5. **Reconnect Wires:** Reconnect the live wire to the circuit breaker, and the neutral wire to the bus bar.
6. **Connect the Power:** Reconnect the power back on.

Please Note: The terminals of the voltage measuring cables must be adjusted according to the equipment for monitoring. It is the responsibility of qualified professionals to provide such cable terminals.

Your browser does not support the video tag.

Video 5.1: Step-by-step installation guide for the eMylo Smart Energy Monitor, demonstrating how to safely connect the device within an electrical panel.

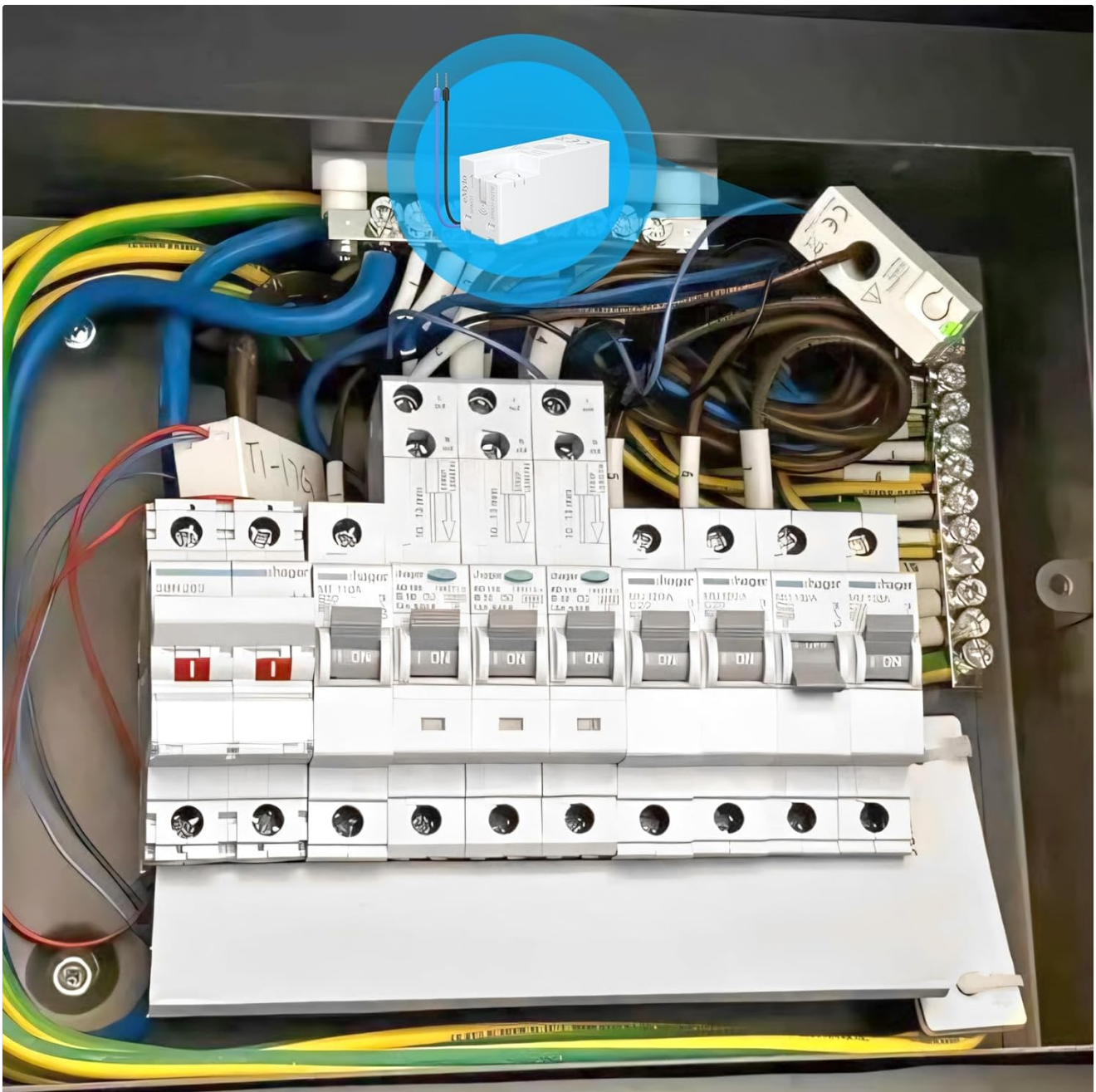


Figure 5.2: Example of the eMylo Smart Energy Monitor installed within an electrical distribution box.

6. APP CONTROL AND MONITORING

The eMylo Smart WiFi 1-Phase Energy Monitor integrates with the Smart Life/Tuya Smart APP for remote control and data visualization.

6.1 Pairing with the App

1. Download the Smart Life or Tuya Smart app from your mobile app store.
2. Register or log in to your account.
3. **Enter Reset Mode:** Press and hold the button on the energy monitor until the indicator light flashes quickly.
4. In the app, tap 'Add Device' or the '+' icon. The app will discover the device.
5. Follow the on-screen prompts to connect the device to your 2.4GHz WiFi network.

6.2 Real-time Monitoring

Once paired, the app displays real-time data including current, voltage, power, and total energy consumption.

Real-time Monitoring

Real-time monitoring of voltage, current, power and other key electrical data via APP

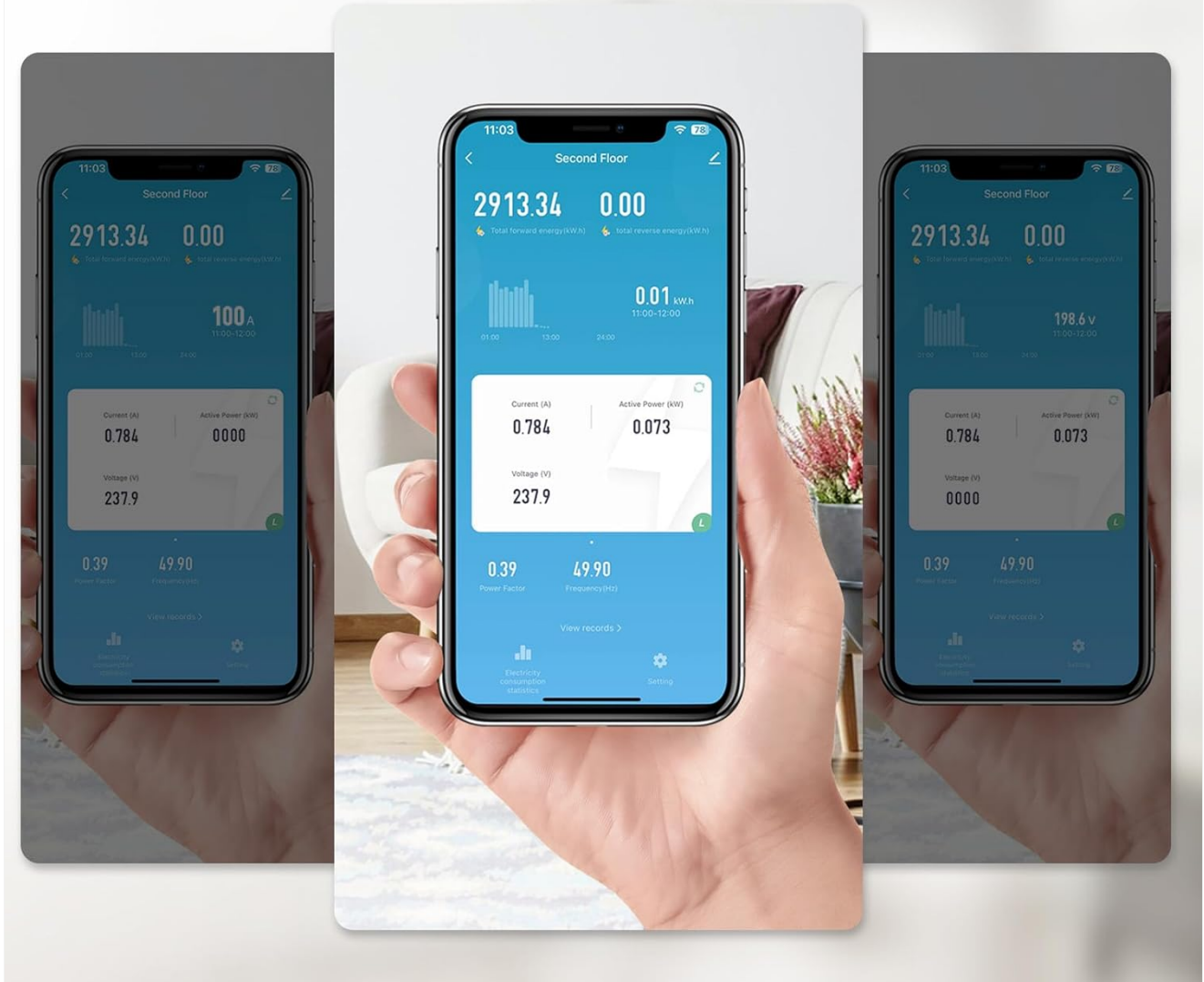


Figure 6.1: Real-time monitoring of electrical data via the mobile application.

6.3 Historical Data and Charts

The app provides historical charts to visualize energy usage over different periods (daily, monthly, yearly).

Historical Chart

Chart showing energy usage at different granularities

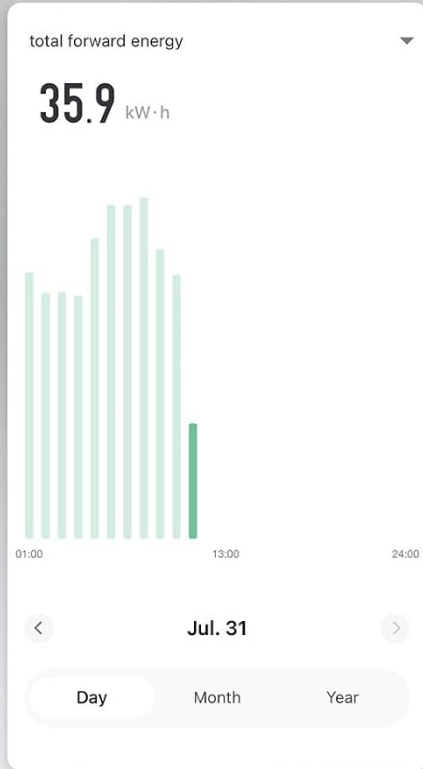


Figure 6.2: Historical energy consumption chart for detailed analysis.

6.4 Alarm Notifications

Receive automatic alarm messages for unbalanced load, over-current, over-voltage, and under-voltage conditions directly on your phone for safety reminders.

Alarm notification

Alarm messages, such as unbalanced load and over current, are automatically sent to APP for safety reminding

- ⚠ Over-current alarm
- ⚠ Over-voltage alarm
- ⚠ Under-voltage alarm



Figure 6.3: Alarm notifications for various electrical anomalies.

6.5 Bidirectional Monitoring (Solar Panels)

The device supports bidirectional current monitoring, allowing you to track both direct consumption and energy fed back into the grid, useful for solar panel installations.

Suivi du courant avant et arrière

- Fournit des statistiques détaillées quotidiennes, mensuelles et annuelles pour le courant avant.
- Les statistiques sur le courant inverse ne sont disponibles que sous forme de totaux cumulés.



Statistiques sur le courant direct
Suivi de la consommation d'électricité de ménages entiers, d'appartements ou d'entreprises



Statistiques sur le courant inverse
Surveille l'énergie solaire excédentaire renvoyée au réseau

Figure 6.4: Monitoring direct current consumption and reverse current from solar panels.

7. SPECIFICATIONS

Brand	Yasorn
Manufacturer	eMylo
Product Dimensions (L x W x H)	1.8 x 4.6 x 2.1 cm
Weight	30 grams
Style	WiFi 1-Phase Energy Monitor
Batteries Included?	No
Batteries Required?	No
Measurement Accuracy	99%
Connectivity	2.4GHz WiFi only
Certifications	CE, FCC

8. TROUBLESHOOTING

- **Device Not Powering On:** Ensure all electrical connections are secure and the main power supply is turned on. Verify the voltage supply.
- **Cannot Connect to WiFi:**
 - Ensure your WiFi network is 2.4GHz. The device does not support 5GHz networks.
 - Check if the WiFi signal strength is adequate at the installation location.
 - Confirm the WiFi password entered in the app is correct.
 - Try resetting the device to pairing mode (press and hold the button until the indicator light flashes quickly) and attempt pairing again.
- **Inaccurate Readings:**
 - Verify that the live wire is correctly passed through the inductive hole and the current direction matches

- the arrow on the device.
- Ensure the voltage measuring cables are properly connected.
- **App Data Not Updating:** Check your internet connection. If the device is connected to WiFi, try restarting the app or refreshing the device status.

9. WARRANTY AND SUPPORT

The eMylo SPM01 Smart WiFi 1-Phase Energy Monitor comes with a standard manufacturer's warranty. For detailed warranty terms, please refer to the documentation provided with your purchase or contact Yasorn customer support.

If you encounter any issues or have questions not covered in this manual, please contact our customer support team for assistance. Provide your product model and purchase details for faster service.