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LKHFOAQM EAEMP3-100-TY-W

LKHFOAQM 3 Phase 380V 100A Tuya WiFi Smart Bi-Directional Energy Power kWh Meter and Protector User Manual

Model: EAEMP3-100-TY-W | Brand: LKHFOAQM

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the LKHFOAQM 3 Phase 380V 100A Tuya WiFi Smart Bi-Directional Energy Power kWh Meter and Protector. This device is designed to monitor and protect three-phase electrical systems, offering features such as over/under voltage protection, over/under current protection, energy metering, and smart control via Tuya WiFi.

2. Safety Information

WARNING: Installation and maintenance should only be performed by qualified electricians. Disconnect all power before installation or servicing to prevent electric shock or equipment damage.

- Ensure the device is installed in a dry, well-ventilated area, away from flammable materials.
- Verify that the supply voltage and current ratings match the device specifications.
- Proper grounding is essential for safe operation.
- Do not operate the device if it appears damaged.

3. Product Overview

The LKHFOAQM Smart Energy Meter and Protector integrates advanced monitoring and protection functionalities for three-phase electrical circuits. It features a clear display for real-time data and intuitive buttons for configuration.

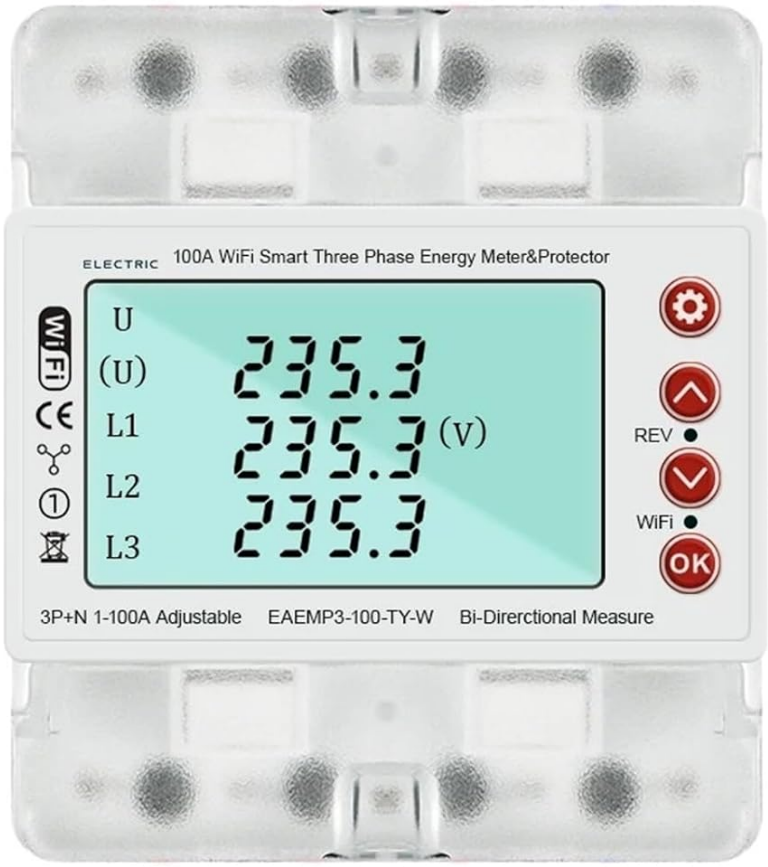


Figure 1: Front view of the LKHFOAQM 3 Phase Smart Energy Meter, showing the display with voltage readings for L1, L2, L3, and control buttons.

Key Features:

- **Rated Voltage:** AC380V; Frequency: 50Hz/60HZ
- **Over/Under Voltage Protection:** Adjustable limits (e.g., Upper Voltage Limit: 120-300V, Lower Voltage Limit: 80-210V).
- **Over/Under Current Protection:** Adjustable limits (e.g., Upper Current Limit: 1-100A, Lower Current Limit: 1-100A).
- **High Temperature Alarm:** Adjustable threshold (10-85°C).
- **Adjustable Recovery Delay Times:** For overcurrent, over/under voltage events.
- **Three-Phase Imbalance Alarms:** For current and voltage.
- **Energy Metering:** Power Display Range: 0-9999999.9kWh.
- **Reclosing Function:** Adjustable allowed times and recovery seconds.

- **Smart Connectivity:** Tuya WiFi for remote control, device sharing, and voice control.

4. Installation and Setup

4.1 Mounting

The device is designed for Bolt-On Mount installation. Ensure a secure and stable mounting location within an electrical enclosure, adhering to local electrical codes.

4.2 Wiring

Connect the three-phase power supply (L1, L2, L3) and neutral (N) to the corresponding terminals on the device. Connect the load to the output terminals. Refer to the wiring diagram typically found on the device casing or in a dedicated wiring section (if available, otherwise general guidance).
Note: Incorrect wiring can cause damage to the device or connected equipment. Always consult a qualified electrician.

4.3 Initial Power-On and WiFi Connection

1. After secure wiring, switch on the main power supply. The device display will illuminate.
2. The device will attempt to connect to a WiFi network. If the WiFi indicator (on the display) is blinking, it is in pairing mode.
3. Download the Tuya Smart App from your smartphone's app store.
4. Register or log in to your Tuya account.
5. In the app, tap "+" to add a new device. Follow the on-screen instructions to connect the meter to your 2.4GHz WiFi network.
6. Once connected, the WiFi indicator on the device will become solid.

5. Operating Instructions

5.1 Display and Button Functions

The device features an LCD display showing real-time electrical parameters and several buttons for navigation and setting adjustments.

- **Display:** Shows voltage (U), current (I), power (P), energy (kWh), frequency (Hz), and protection status.
- ⚙ **(Settings) Button:** Enters the settings menu.
- ⬆ **(Up) Button:** Navigates up or increases values in settings.
- ⬇ **(Down) Button:** Navigates down or decreases values in settings.
- **OK Button:** Confirms selections or exits menus.

5.2 Parameter Settings

To adjust protection parameters:

1. Press the ⚙ (Settings) button to enter the main settings menu.
2. Use the ⬆ and ⬇ buttons to navigate through the parameters.
3. Press **OK** to select a parameter for adjustment.
4. Use ⬆ and ⬇ to change the value.
5. Press **OK** to confirm the new value and save it.

6. Repeat for all desired parameters. Press ⚙ to exit the settings menu.

Adjustable Parameters include:

- Upper Voltage Limit (Default: 275V, Range: 120-300V)
- Lower Voltage Limit (Default: 175V, Range: 80-210V)
- Upper Current Limit (Default: 80A, Range: 1-100A)
- Lower Current Limit (Default: 10A, Range: 1-100A)
- High Temperature Alarm (Default: 85°C, Range: 10-85°C)
- Overcurrent Recovery Power-On Delay Time (Default: 20s, Range: 1-9999s)
- Overcurrent Event Threshold Time (Default: 5s, Range: 1-999s)
- Over and Under Voltage Event Recovery Power-On Delay Time (Default: 20s, Range: 1-9999s)
- Over and Under Voltage Event Time Threshold (Default: 3s, Range: 1-9999s)
- Three-Phase Current Imbalance Alarm (Default: 20%, Range: 10-100%)
- Voltage Three-Phase Imbalance Alarm
- Lost Current Recovery Delay Time
- Time Threshold of Lost Flow Event
- Power Display Range (Adjustable, 0-9999999.9kWh)
- Reclosing Allowed Times (Default: 1, Range: 1-30)
- Reclose Recover Seconds (Default: 1, Range: 1-99)
- Power-On Delay Power-On-Time (Default: 5, Range: 1-9999)

5.3 Remote Control and Voice Control

Once connected to the Tuya Smart App, you can remotely monitor electrical parameters, adjust settings, and control the device (e.g., turn on/off) from anywhere. The app also supports device sharing with other users. For voice control, integrate the Tuya Smart App with compatible voice assistants (e.g., Amazon Alexa, Google Assistant) and follow their respective setup instructions.

6. Maintenance

- Regularly inspect the device and wiring for any signs of damage, loose connections, or overheating.
- Keep the device clean and free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.
- Ensure proper ventilation around the device to prevent overheating.

7. Troubleshooting

Problem	Possible Cause	Solution
Device not powering on	No power supply; incorrect wiring; internal fault.	Check main power supply. Verify wiring connections. If problem persists, contact support.
WiFi indicator blinking/not connecting	Incorrect WiFi password; 5GHz network; device too far from router; network issues.	Ensure 2.4GHz WiFi. Re-enter password in Tuya app. Move device closer to router. Restart router.

Problem	Possible Cause	Solution
Device trips frequently	Protection parameters set too low; actual overcurrent/overvoltage condition.	Review and adjust protection limits in settings. Investigate the electrical system for actual faults.
Inaccurate readings	Improper wiring; faulty sensor.	Verify wiring. If readings are consistently incorrect, contact support.

8. Specifications

Parameter	Value
Brand	LKHFOAQM
Model Number	EAEMP3-100-TY-W
Rated Voltage	AC380V
Frequency	50Hz/60HZ
Current Rating	1-100 Amps (Adjustable)
Circuit Breaker Type	Standard
Mounting Type	Bolt-On Mount
Product Dimensions	0.39"D x 0.39"W x 0.39"H (1 x 1 x 1 cm)
Weight	1.76 ounces (approx. 50g)
Connectivity	Tuya WiFi (2.4GHz)
Energy Measurement	0-9999999.9 kWh

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.
Manufacturer: LKHFOAQM

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