

AVLIS-CO 2AC7Z-ESPC3MINI1

AVLIS-CO 2AC7Z-ESPC3MINI1 Smart Meter Kit User Manual

Model: 2AC7Z-ESPC3MINI1

1. INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of the AVLIS-CO 2AC7Z-ESPC3MINI1 Smart Meter Kit. This device is designed to monitor electrical parameters, offering smart connectivity for data acquisition and analysis. Please read this manual thoroughly before using the product to ensure safe and efficient operation.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock. Installation and servicing should only be performed by qualified personnel.

- Always disconnect power before installing or servicing the device.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Do not operate the device if it appears damaged.
- Keep the device away from water and excessive moisture.
- Use only specified accessories and components.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon opening the package:

- AVLIS-CO 2AC7Z-ESPC3MINI1 Smart Meter Unit
- Mounting Nut
- Protective Cap (white)
- User Manual (this document)

4. PRODUCT OVERVIEW

The AVLIS-CO 2AC7Z-ESPC3MINI1 is a compact smart meter designed for integration into various electrical systems. It features a robust housing and clear identification markings.



Figure 4.1: Front View of Smart Meter Unit. This image displays the front of the AVLIS-CO 2AC7Z-ESPC3MINI1 Smart Meter. Visible on the top surface is a label indicating the FCC ID: 2AC7Z-ESPC3MINI1 and MAC address: DC:54:75:B5:FE:E0. The central part features a circular opening with an internal component, likely a sensor or connection port.



Figure 4.2: Side View with Accessories. This image shows the AVLIS-CO 2AC7Z-ESPC3MINI1 Smart Meter from a side angle, revealing its compact form factor. Alongside the main unit, a metallic mounting nut and a small white protective cap are displayed, indicating included accessories for installation or protection.

5. SETUP AND INSTALLATION

- 1. Preparation:** Ensure power to the installation area is completely disconnected at the main circuit breaker. Verify with a voltage tester.
- 2. Mounting:**
 - Identify a suitable location for the smart meter, typically within an electrical panel or enclosure.
 - Insert the smart meter unit into the designated opening.
 - Secure the unit using the provided mounting nut on the reverse side, ensuring it is tightened firmly but not excessively.
- 3. Wiring:**
 - Connect the appropriate electrical lines to the meter's terminals as per the wiring diagram (refer to external documentation or product specifications for specific wiring diagrams).

- Ensure all connections are secure and insulated.
4. **Protective Cap:** If applicable, place the white protective cap over any exposed ports or terminals after wiring is complete.
 5. **Power Restoration:** Once installation is complete and verified, restore power to the circuit.
 6. **Initial Power-On:** Observe the device for any indicator lights or initial boot sequences.

Note: For detailed wiring diagrams and specific application instructions, consult the manufacturer's official technical documentation or a qualified electrician.

6. OPERATING INSTRUCTIONS

The AVLIS-CO 2AC7Z-ESPC3MINI1 Smart Meter is designed for remote monitoring. Specific operating procedures will depend on the software or platform it is integrated with.

6.1. Network Connection

- Upon initial power-up, the device will attempt to connect to a pre-configured Wi-Fi network or enter an access point mode for configuration.
- Refer to the specific application's guide for connecting the meter to your local network and cloud service.
- The MAC address (DC:54:75:B5:FE:E0, as shown in Figure 4.1) can be used for network identification.

6.2. Data Monitoring

- Once connected, the smart meter will begin transmitting electrical data (e.g., voltage, current, power consumption) to the associated monitoring platform.
- Access the monitoring platform (web interface or mobile application) to view real-time data, historical trends, and configure alerts.

6.3. Firmware Updates

Periodically check the monitoring platform or manufacturer's website for available firmware updates to ensure optimal performance and security. Follow the provided instructions for updating the device firmware.

7. MAINTENANCE

- **Cleaning:** Ensure the device is powered off before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the device and its connections for any signs of wear, damage, or loose wiring. Address any issues promptly.
- **Environment:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent damage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device not powering on.	No power supply; loose connections; faulty unit.	Check circuit breaker. Verify all wiring connections. If problem persists, contact support.
Cannot connect to Wi-Fi.	Incorrect Wi-Fi credentials; out of range; network interference.	Double-check Wi-Fi password. Move device closer to router. Check for network congestion. Reset device and try again.
No data being transmitted.	Network connection lost; server issues; device malfunction.	Verify Wi-Fi connection. Check status of monitoring platform. Restart device.

9. SPECIFICATIONS

Model	2AC7Z-ESPC3MINI1
Brand	AVLIS-CO
FCC ID	2AC7Z-ESPC3MINI1
MAC Address	DC:54:75:B5:FE:E0 (as labeled)
Item Weight	15 ounces
Manufacturer	AVLIS-CO
Date First Available	February 22, 2024
ASIN	B0CW69J7DP
Connectivity	Wireless (Wi-Fi, based on ESPC3MINI1 designation)
Application	Electrical parameter monitoring

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official AVLIS-CO website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty claims.

Online Support: www.avlisco.com/support (Example link, replace with actual if known)

Email: support@avlisco.com (Example email, replace with actual if known)