

yancinne ADL3000-E-B

User Manual

ADL3000-E-B/KC RAIL MULTIFUNCTIONAL FORWARD AND REVERSE METER

Brand: yancinne

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your yancinne ADL3000-E-B/KC Rail Multifunctional Forward and Reverse Meter. Please read this manual thoroughly before using the device and retain it for future reference. Proper adherence to these instructions will ensure optimal performance and extend the lifespan of the meter.

2. SAFETY INSTRUCTIONS

Warning: Installation and maintenance should only be performed by qualified personnel. Failure to follow these safety instructions may result in electric shock, fire, or damage to the device.

- Always disconnect power before installing, wiring, or servicing the meter.
- Ensure all wiring complies with local and national electrical codes.
- Do not operate the meter if it appears damaged.
- Avoid exposing the meter to moisture, extreme temperatures, or corrosive environments.
- Use appropriate personal protective equipment (PPE) during installation.

3. PRODUCT OVERVIEW

The yancinne ADL3000-E-B/KC is a DIN rail-mounted multifunctional meter designed for measuring forward and reverse energy in three-phase systems. It features a digital display for clear readings and intuitive buttons for navigation.



Figure 1: Front view of the yancinne ADL3000-E-B/KC meter. The device features a digital display, four orange control buttons, and terminal blocks for electrical connections. The display shows '0.00' and indicates 'Acrel Three Phase Multi-Function Meter'.

Key Components:

- **Digital Display:** Shows measured parameters such as voltage, current, power, and energy.
- **Control Buttons:** Four orange buttons for navigating menus and adjusting settings.
- **Terminal Blocks:** Located at the top and bottom for secure electrical connections.
- **DIN Rail Mount:** Designed for easy installation on standard DIN rails.
- **Infrared Interface:** For data communication (visible on the right side of the display).

4. SETUP AND INSTALLATION

4.1 Mounting

1. Ensure the mounting location is free from vibrations, excessive heat, and moisture.
2. Attach the meter securely to a standard 35mm DIN rail by pressing the meter onto the rail until it clicks into place.

4.2 Wiring

Refer to the wiring diagram provided on the meter's casing or in the detailed technical specifications for precise connection points. The meter is designed for 3-phase, 4-wire systems (3*220/380V). Ensure correct phase and neutral connections, as well as current transformer (CT) connections if applicable.

- Connect the voltage inputs (L1, L2, L3, N) to the corresponding terminals.
- Connect the current inputs (e.g., S1, S2 for each phase) from the current transformers.
- Verify all connections are tight and secure to prevent loose contacts and potential hazards.

4.3 Initial Power-Up

After completing all wiring, restore power to the circuit. The meter's display should illuminate, indicating successful power-up. The meter will typically perform a self-test and then display default measurement

parameters.

5. OPERATING INSTRUCTIONS

5.1 Display Navigation

The four orange buttons below the display are used to navigate through the various measurement screens and settings. Typically, these buttons function as:

- **Left/Right Arrows:** To scroll through different parameters (e.g., voltage, current, active power, reactive power, frequency, power factor, forward energy, reverse energy).
- **Enter/Set Button:** To confirm selections or enter sub-menus.
- **Escape/Back Button:** To exit sub-menus or return to the previous screen.

Specific button functions may vary slightly; refer to the on-screen prompts or the detailed technical manual for advanced settings.

5.2 Reading Measurements

The display will show real-time measurements. Use the navigation buttons to cycle through the available parameters. The meter is capable of displaying:

- Voltage (Phase-to-Neutral, Phase-to-Phase)
- Current (per phase)
- Active Power (Total and per phase)
- Reactive Power (Total and per phase)
- Apparent Power (Total and per phase)
- Power Factor
- Frequency
- Forward Active Energy (kWh)
- Reverse Active Energy (kWh)
- Forward Reactive Energy (kVarh)
- Reverse Reactive Energy (kVarh)

6. MAINTENANCE

6.1 Cleaning

To clean the meter, gently wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners, solvents, or excessive moisture, as these can damage the display or internal components.

6.2 Inspection

Periodically inspect the meter for any signs of physical damage, loose connections, or discoloration. If any issues are observed, disconnect power and consult a qualified technician for inspection and repair.

6.3 Calibration

The meter is factory-calibrated. If you suspect inaccurate readings, do not attempt to recalibrate the device yourself. Contact a professional calibration service or the manufacturer's support for assistance.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display/Meter not powering on	No power supply; Incorrect wiring; Internal fault.	Check power connections and circuit breaker. Verify wiring according to diagram. If problem persists, contact support.
Incorrect readings	Incorrect wiring; Incorrect CT ratio settings; Faulty CTs; Meter malfunction.	Verify all wiring connections. Check CT ratio settings in the meter's configuration. Inspect CTs for damage. If issues persist, seek professional assistance.
Buttons unresponsive	Temporary software glitch; Physical damage.	Try power cycling the meter (disconnect and reconnect power). If buttons remain unresponsive, the meter may require service.

For issues not listed above or if troubleshooting steps do not resolve the problem, please contact customer support.

8. SPECIFICATIONS

Parameter	Value
Model	ADL3000-E-B
Manufacturer	yancinne
Type	Rail Multifunctional Forward and Reverse Meter
Nominal Voltage	3*220/380V
Nominal Current	3*1(6)A
Frequency	50Hz
Protection Class	IP51
Mounting	DIN Rail
Date First Available	November 11, 2024
ASIN	B0DMNQSRGF

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This yancinne ADL3000-E-B/KC Rail Multifunctional Forward and Reverse Meter comes with a **120-day warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, misuse, accidents, unauthorized

repairs, or acts of nature.

9.2 Customer Support

For technical assistance, warranty claims, or any questions regarding the operation of your meter, please contact your retailer or the manufacturer's customer service. Please have your product model number (ADL3000-E-B) and purchase information ready when contacting support.