

FOUNCY XTM75S-U

FOUNCY XTM75S-U Electric Single Phase Energy Meter Instruction Manual

Model: XTM75S-U

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the FOUNCY XTM75S-U Electric Single Phase Two Wire AC 230V Energy Meter. This device is designed for measuring active energy consumption in single-phase AC power systems. Please read this manual thoroughly before installation and use to ensure safe and correct operation.

2. SAFETY INFORMATION

Warning: Installation and maintenance of this device should only be performed by qualified electricians in accordance with local electrical codes and regulations. Failure to follow these instructions may result in electric shock, fire, or damage to the device.

- Ensure the power supply is disconnected before any installation, wiring, or maintenance procedures.
- Do not operate the meter if it appears damaged.
- Avoid exposing the meter to direct sunlight, high temperatures, humidity, or corrosive environments.
- Use appropriate personal protective equipment (PPE) during installation.

3. PRODUCT OVERVIEW

The FOUNCY XTM75S-U is a compact, DIN rail mountable energy meter. It features a mechanical counter display for energy consumption, along with LED indicators for power and pulse output.



Figure 3.1: Front view of the XTM75S-U energy meter, highlighting the mechanical counter display, power indicator, and pulse indicator. The display shows '1 PHASE 2 WIRE ENERGY METER' and 'kWh'.



Figure 3.2: Angled view of the XTM75S-U energy meter, displaying the front panel and a 'Certificate of Quality' sticker on the right side, indicating inspection details.



Figure 3.3: Side view of the XTM75S-U energy meter, illustrating the integrated black DIN rail mounting clip located at the bottom of the device.

4. SPECIFICATIONS

| Parameter | Value |
|----------------|------------------------------------|
| Model | XTM75S-U |
| Type | Single-phase Electric Energy Meter |
| Basic Current | 5 A |
| Accuracy Level | 1.0 |

| Parameter | Value |
|--------------------------|--|
| Reference Voltage | 220 V AC |
| Display Mode | Mechanical Counter |
| Frequency | 50 Hz |
| Maximum Current | 100 A |
| Available Current Ranges | 5-30A, 10-40A, 15-60A, 20-80A, 30-100A |
| Item Weight | 0.035 ounces |
| Manufacturer | FOUNCY |

5. INSTALLATION

The XTM75S-U energy meter is designed for DIN rail mounting. Follow these steps for proper installation:

1. **Power Disconnection:** Before starting any work, ensure that the main power supply to the circuit where the meter will be installed is completely disconnected and locked out. Verify with a voltage tester.
2. **Mounting:** Attach the meter to a standard 35mm DIN rail in an electrical enclosure. Ensure it is securely clipped into place.
3. **Wiring:** Refer to the wiring diagram printed on the side of the meter for correct connections. Connect the incoming phase (L) and neutral (N) wires to the designated input terminals, and the outgoing phase (L') and neutral (N') wires to the load terminals. Ensure all connections are tight and secure to prevent loose contacts and overheating.



Figure 5.1: Angled top view of the XTM75S-U energy meter, illustrating the wiring diagram printed on the left side of the casing and the open terminal covers for connection.



Figure 5.2: Bottom view of the XTM75S-U energy meter, providing a clear perspective of the black DIN rail mounting clip mechanism.

Important: Double-check all wiring before restoring power. Incorrect wiring can damage the meter or connected equipment.

6. OPERATING INSTRUCTIONS

Once installed and power is restored, the meter will begin to operate automatically.

- **Energy Display:** The mechanical counter on the front panel displays the total accumulated energy consumption in kilowatt-hours (kWh). Read the numbers from left to right.
- **Power Indicator (POWER LED):** This LED illuminates when the meter is powered on and functioning correctly.
- **Pulse Indicator (PULSE LED):** This LED flashes to indicate active energy measurement. Each flash represents a specific amount of energy consumed (e.g., 1600 imp/kWh, as indicated on the meter face). A faster flash rate indicates higher power consumption.

7. MAINTENANCE

The XTM75S-U energy meter requires minimal maintenance. Follow these guidelines to ensure its longevity and accurate operation:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the meter. Do not use abrasive cleaners, solvents, or liquids that could enter the device.
- **Inspection:** Periodically inspect the wiring connections to ensure they remain tight and free from corrosion. Check for any signs of physical damage or overheating.
- **Environment:** Ensure the operating environment remains within the specified conditions (temperature, humidity) to prevent premature failure.

No user-serviceable parts are inside the meter. Do not attempt to open or repair the device yourself.

8. TROUBLESHOOTING

If you encounter issues with your XTM75S-U energy meter, refer to the following common problems and solutions:

- **Meter Not Powering On (POWER LED Off):**
 - Check the main power supply to the circuit.
 - Verify all wiring connections are correct and secure.
 - Ensure the input voltage is within the specified range (220V AC).
- **No Energy Reading (Counter Not Advancing):**
 - Confirm that there is a load connected and drawing power.
 - Check the wiring for correct input and output connections.
 - Observe the PULSE LED; if it's not flashing, there might be an internal issue or no load.
- **PULSE LED Not Flashing:**
 - Ensure a load is connected and consuming power.
 - Verify the POWER LED is on.

If the problem persists after checking these points, contact a qualified electrician or the manufacturer for assistance. Do not attempt to repair the meter yourself.

9. WARRANTY AND SUPPORT

FOUNCY products are manufactured to high-quality standards. This product is covered by a standard manufacturer's warranty against defects in materials and workmanship. For specific warranty terms, please refer to the product packaging or contact your retailer.

For technical support or inquiries, please visit the FOUNCY store on Amazon or contact customer service through the retailer where the product was purchased. Please have your product model (XTM75S-U) and purchase details ready when seeking support.

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