MObyat DDS5188

MOBYAT DDS5188 Single Phase KWH Energy Meter User Manual

Model: DDS5188

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the MOBYAT DDS5188 Single Phase KWH Energy Meter. This device is designed for measuring active energy consumption in single-phase AC circuits. Please read this manual thoroughly before installation and use to ensure safe and correct operation.

2. Safety Information

Warning: Installation and maintenance should only be performed by qualified electricians. 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 or wiring.
- Do not operate the meter if it is damaged or shows signs of malfunction.
- Observe all local and national electrical codes and regulations.
- Avoid exposing the meter to direct sunlight, high temperatures, or excessive humidity.

3. Package Contents

Verify that all items are present and undamaged upon unpacking:

- 1 x MOBYAT DDS5188 Single Phase KWH Energy Meter
- 1 x User Manual (this document)

4. Product Overview

The MOBYAT DDS5188 is a compact Din Rail mountable energy meter featuring an LCD display for clear readings.

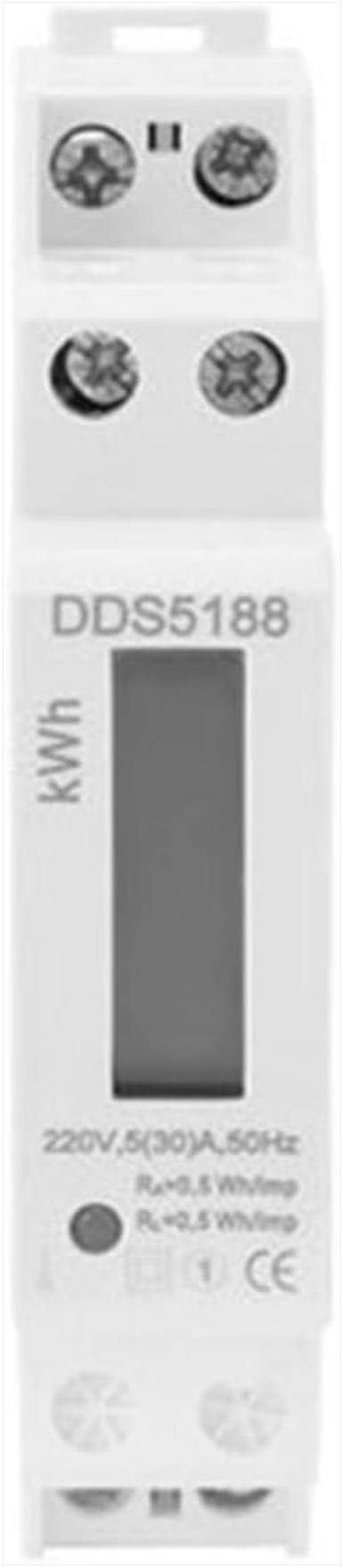


Figure 4.1: Front view of the MOBYAT DDS5188 KWH Energy Meter. This image shows the main body of the meter, including the LCD display which indicates KWH consumption, and the model number DDS5188 printed on the front. The meter is white with black text and features screw terminals for wiring.



Figure 4.2: Angled front view of the MOBYAT DDS5188 KWH Energy Meter. This perspective highlights the compact design suitable for Din rail mounting, showing the LCD display and the side profile with terminal connections.

5. Specifications

Parameter	Value
Model	DDS5188
Rated Voltage	AC220V
Operating Voltage Range	176~276V AC
Base Current (Ib)	5A
Maximum Current (Imax)	20A / 32A (depending on variant)
Frequency	50/60Hz (±10%)
Accuracy Class	Class 1 IEC62053-21
Data Display Mode	5+1 digits LCD display
Installation Method	Din Rail
Humidity	20-80%
Weight	Approximately 120g

6. Installation

The DDS5188 energy meter is designed for Din rail mounting. Follow these steps for proper installation:

1. **Preparation:** Ensure the main power supply to the circuit where the meter will be installed is completely disconnected. Use appropriate safety equipment.
2. **Mounting:** Clip the meter onto a standard 35mm Din rail in a suitable electrical enclosure. Ensure it is securely fastened.
3. **Wiring:** Refer to the wiring diagram below for correct connections.

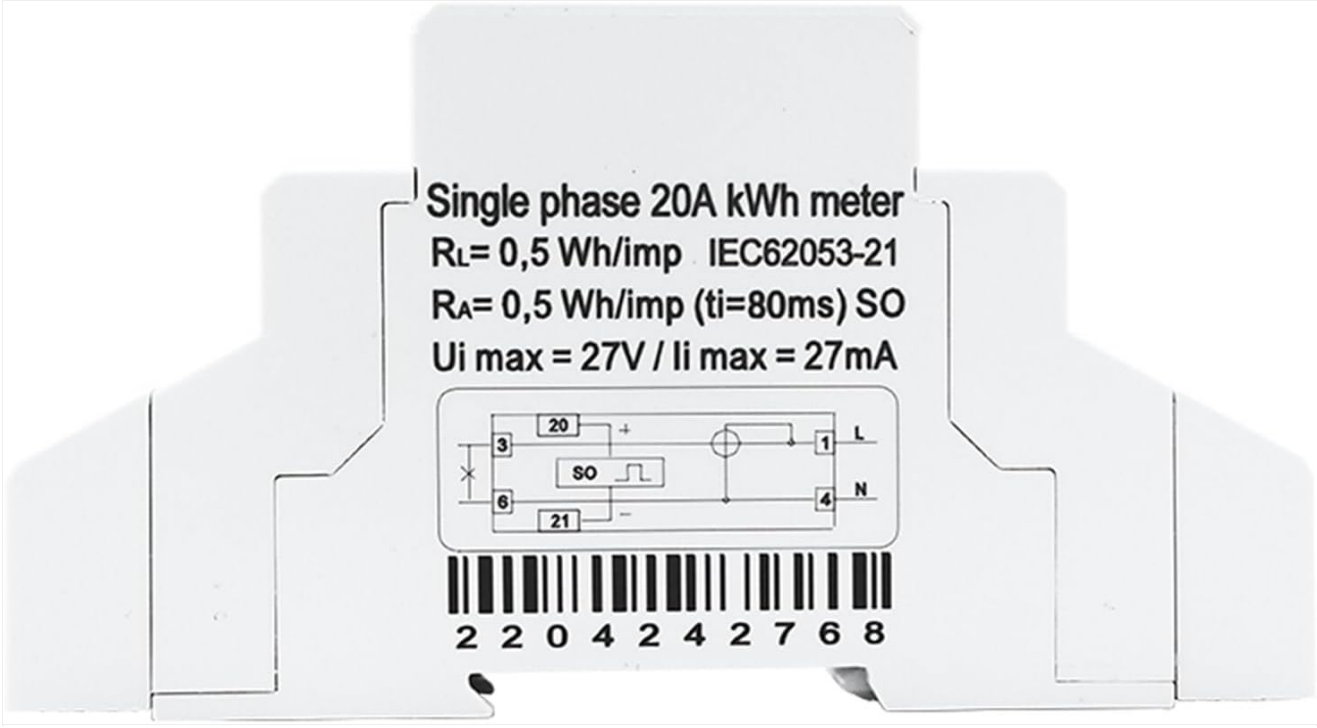


Figure 6.1: Back view of the MOBYAT DDS5188 KWH Energy Meter showing the wiring diagram. This diagram illustrates the connection points for the single-phase AC input (L and N) and the load, along with pulse output terminals (SO). The diagram also includes product identifiers like "2204242768".

- Connect the incoming live wire (L) to terminal 1.
- Connect the outgoing live wire (L) to the load from terminal 3.
- Connect the incoming neutral wire (N) to terminal 4.
- Connect the outgoing neutral wire (N) to the load from terminal 6.
- Optional: Connect pulse output (SO) terminals 20 and 21 for remote monitoring, if applicable.

4. **Verification:** Double-check all connections for tightness and correctness. Ensure no bare wires are exposed.
5. **Power On:** Restore power to the circuit. The LCD display should illuminate and begin showing energy consumption.

7. Operating Instructions

The DDS5188 meter operates automatically once correctly installed and powered. It continuously measures and displays the total active energy consumption.

- **LCD Display:** The 5+1 digit LCD display shows the total accumulated energy consumption in kilowatt-hours (KWH). The last digit (after the decimal point) represents tenths of a KWH.
- **Pulse Indicator:** A red LED indicator (often labeled "IMP" or similar) will flash proportionally to the energy consumption, indicating active measurement.
- **No User Interaction:** This meter is designed for direct measurement and does not typically feature user-configurable settings or buttons for resetting readings. The total KWH reading is cumulative.

8. Maintenance

The MOBYAT DDS5188 energy meter requires minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the meter. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the wiring connections to ensure they remain tight and free from corrosion.
- **Environmental Conditions:** Ensure the operating environment remains within the specified humidity (20-80%) and

temperature ranges to prolong the meter's lifespan.

- **No User Serviceable Parts:** Do not attempt to open or repair the meter. Refer any issues to qualified personnel.

9. Troubleshooting

If you encounter issues with your DDS5188 energy meter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Display is blank	No power supply; Incorrect wiring; Faulty meter	◦ Check if the main power supply is on. ◦ Verify wiring connections according to the diagram. ◦ If power is present and wiring is correct, the meter may be faulty.
Meter not counting KWH	No load connected; Incorrect wiring; Faulty meter	◦ Ensure a load is connected and drawing power. ◦ Re-check wiring, especially the load connections. ◦ Observe the pulse indicator LED; if it's not flashing with a load, the meter may be faulty.
Inaccurate readings	Incorrect wiring; Overload; External interference	◦ Verify wiring against the diagram. ◦ Ensure the current does not exceed the meter's maximum rating (20A/32A). ◦ Install the meter away from strong electromagnetic fields.

If problems persist after attempting these solutions, contact qualified technical support.

10. Warranty and Support

MOBYAT products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the documentation provided at the time of purchase or contact your retailer. For technical support, please reach out to your product supplier or the manufacturer's customer service channels.
Product Identifier: 2204242768

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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