

JOYELEC SS766NMR

JOYELEC SS766NMR Single Phase Electronic Energy Meter Instruction Manual

1. INTRODUCTION

Thank you for choosing the JOYELEC SS766NMR Single Phase Electronic Energy Meter. This device is designed for accurate monitoring and recording of electricity consumption in single-phase AC circuits. It features a multifunction LCD display, memory function, and easy DIN rail installation, making it an ideal tool for managing energy usage and costs.

2. SAFETY INFORMATION

WARNING: Electrical installation should only be performed by qualified personnel. Always disconnect power before installation or maintenance to prevent electric shock.

- Ensure the power supply is completely disconnected before attempting any wiring or installation.
- Verify that the voltage and current ratings of the meter match your electrical system specifications.
- Do not exceed the maximum load capacity of 13000W for the monitored circuit.
- Avoid exposing the device to moisture, extreme temperatures, or direct sunlight.
- Do not attempt to open or repair the meter yourself. Refer to qualified service personnel.

3. PRODUCT OVERVIEW

The JOYELEC SS766NMR is a compact and reliable electronic energy meter. It provides real-time data on electricity consumption and features a clear LCD for easy reading.

3.1 Key Features

- **Multifunction LCD Display:** Shows total power, real-time power, real-time voltage, and real-time current.
- **Memory Function:** Retains total energy consumption data during power interruptions and resumes recording upon power restoration.
- **Accurate Measurement:** Utilizes large-scale integrated circuits and SMT technology for precise and reliable readings.

- **Low Power Consumption:** The meter itself consumes less than 2 W / 5 VA.
- **DIN Rail Installation:** Designed for easy mounting on a standard DIN35mm rail.
- **Reset Button:** Allows for resetting accumulated energy data.

3.2 Meter Components

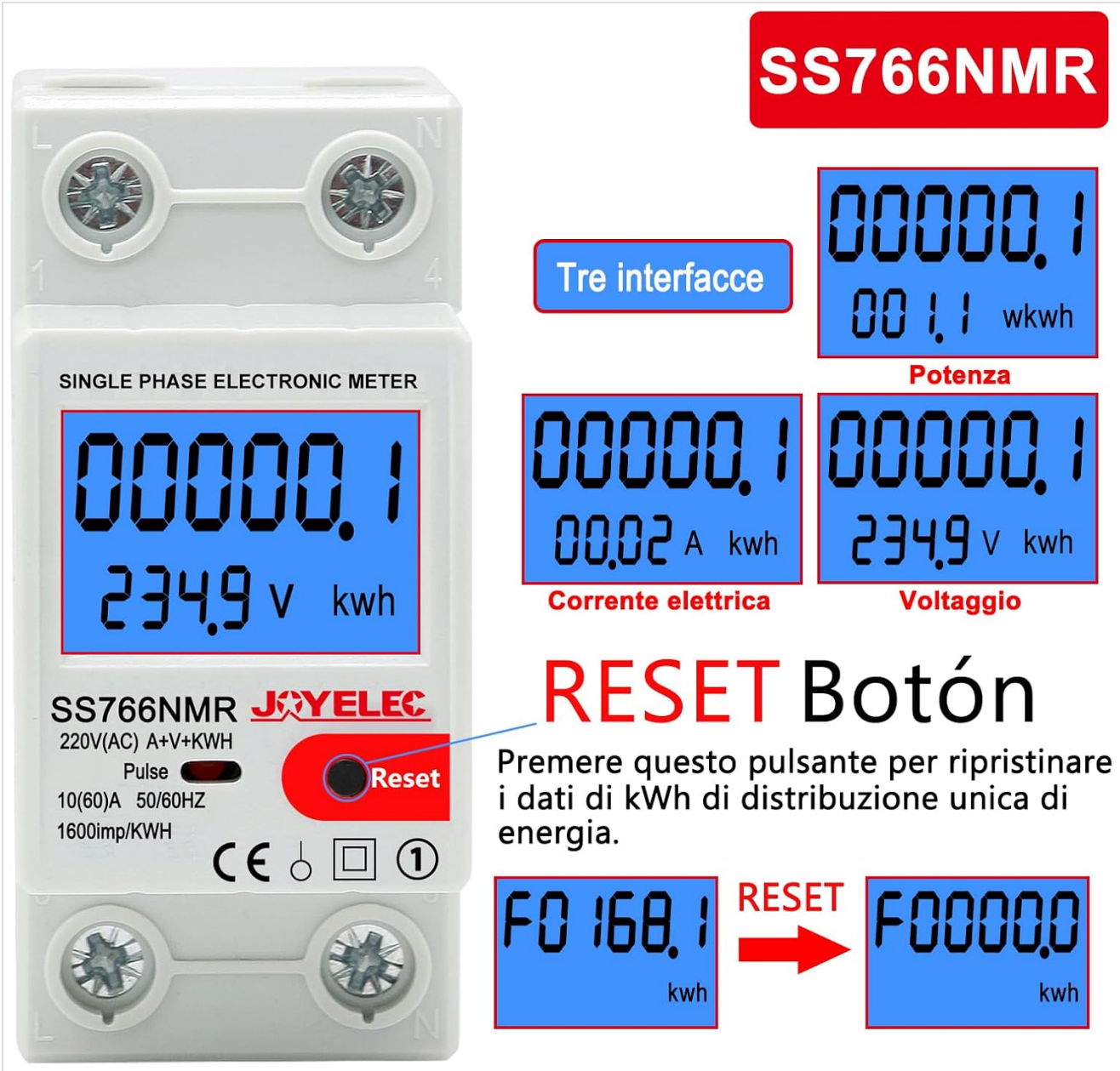


Image 1: Front view of the JOYELEC SS766NMR energy meter. The LCD displays total energy (00000.1 kWh) and real-time voltage (234.9 V). The red button labeled 'Reset' is visible on the right side. Connection terminals are at the top (L, N) and bottom (1, 4).

4. SPECIFICATIONS

Model Number	SS766NMR (QY VAP2-63A(N))
Rated Voltage	230V AC
Rated Current	10 (60) A
Frequency	50/60 Hz
Pulse Constant	1600 imp/KWH

Power Consumption	< 2 W / 5 VA
Installation	DIN35mm Rail
Dimensions (approx.)	9.1 x 7.5 x 4.4 cm
Weight	120 g



Image 2: Dimensional drawing of the energy meter. The front face measures approximately 36.2mm wide and 78.4mm high. The side view shows a depth of 44.8mm and a total height of 65.6mm, with the DIN rail clip extending 43mm from the top surface.

5. SETUP AND INSTALLATION

The SS766NMR energy meter is designed for easy installation on a standard DIN35mm rail within a distribution box.

5.1 Mounting

1. Ensure the power supply to the distribution box is completely off.
2. Locate an available space on the DIN35mm rail.
3. Align the meter's DIN rail clip with the rail and press firmly until it clicks into place. The clip ensures secure attachment.



Image 3: Side view of the energy meter, highlighting the integrated DIN rail mounting clip at the bottom. This clip allows for quick and secure installation onto a standard 35mm DIN rail.

5.2 Wiring Diagram

Follow the wiring diagram carefully. Incorrect wiring can damage the device or pose a safety hazard.

1. Identify the Live (L) and Neutral (N) wires from your main power supply.
2. Connect the incoming Live (L) wire to terminal 'L' at the top left of the meter.
3. Connect the incoming Neutral (N) wire to terminal 'N' at the top right of the meter.
4. Connect the outgoing Live (L) wire of the circuit to be monitored to terminal '1' at the bottom left of the meter.
5. Connect the outgoing Neutral (N) wire of the circuit to be monitored to terminal '4' at the bottom right of the meter.
6. Ensure all connections are tight and secure.



Image 4: Wiring diagram illustrating the connection of the JOYELEC SS766NMR energy meter. The incoming Live (L) and Neutral (N) wires connect to the top terminals. The outgoing Live (L) and Neutral (N) wires connect to the bottom terminals, leading to the electrical equipment. A power switch is shown upstream of the meter for reference, though not included with the meter.

6. OPERATING INSTRUCTIONS

Once installed and powered on, the meter will automatically begin monitoring and displaying electrical parameters.

6.1 Display Modes

The LCD display cycles through various parameters, providing comprehensive information about your electricity

usage:

- **Total Energy (kWh):** Displays the accumulated total energy consumption.
- **Real-time Voltage (V):** Shows the current voltage of the circuit.
- **Real-time Current (A):** Indicates the instantaneous current flowing through the circuit.
- **Real-time Power (W):** Displays the instantaneous power consumption.

6.2 Memory Function

The meter is equipped with a memory function. In the event of a power outage, the accumulated total energy consumption data is saved. When power is restored, the meter will continue to record from the last saved value, ensuring continuous tracking of your energy usage.

6.3 Resetting Data

To reset the accumulated energy consumption data (kWh) to zero:

1. Locate the red 'Reset' button on the front panel of the meter.
2. Press and hold the 'Reset' button for approximately 3-5 seconds until the kWh display resets to '00000.0'.

This function is useful for monitoring consumption over specific periods or after making changes to your electrical setup.

7. MAINTENANCE

The JOYELEC SS766NMR energy meter requires minimal maintenance.

- Keep the device clean by wiping it with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Ensure the ventilation openings (if any) are not obstructed to prevent overheating.
- Regularly check the wiring connections for tightness, especially after initial installation or any significant electrical work.
- Periodically verify the accuracy of readings against other known measurement devices if precision is critical for your application.

8. TROUBLESHOOTING

If you encounter issues with your energy meter, refer to the following common troubleshooting steps:

8.1 No Display or Meter Not Powering On

- **Check Power Supply:** Ensure the main power supply to the circuit is active.
- **Verify Wiring:** Double-check all Live (L) and Neutral (N) connections according to the wiring diagram (Section 5.2). Loose or incorrect wiring can prevent the meter from functioning.
- **Circuit Breaker:** Confirm that any associated circuit breakers are in the 'ON' position.

8.2 Incorrect Readings

- **Wiring Check:** Re-verify the wiring connections. Incorrect polarity or loose connections can lead to inaccurate readings.
- **Load Capacity:** Ensure the monitored load does not exceed the meter's maximum capacity of 13000W. Overloading can affect accuracy or damage the meter.
- **Compare with Other Devices:** If possible, compare readings with another calibrated energy meter to confirm

discrepancies.

8.3 Reset Button Not Responding

- **Press Duration:** Ensure you are pressing and holding the reset button for the required 3-5 seconds. A short press may not activate the reset function.

If problems persist after following these steps, please contact customer support.

9. WARRANTY AND SUPPORT

JOYELEC products are manufactured to high-quality standards. For warranty information, please refer to the terms and conditions provided at the point of purchase or contact your retailer.

9.1 Customer Support

If you have any questions, require technical assistance, or need to report an issue with your JOYELEC SS766NMR energy meter, please contact your local distributor or the retailer from whom you purchased the product. Please have your product model number (SS766NMR) and purchase details ready when contacting support.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question