

CHINT 1P2W

CHINT DDSU666 Single-Phase Smart Energy Meter User Manual

Model: 1P2W

1. INTRODUCTION

The CHINT DDSU666 is a single-phase smart electronic energy meter designed for accurate measurement of active power. This device is suitable for internal energy consumption monitoring and non-billing applications, offering reliable performance in various environments.

- Supports precise measurement of positive and negative active power to ensure accurate energy detection.
- Equipped with a large LCD screen for clear and intuitive data reading.
- Designed for standardized 35mm DIN rail mounting, featuring a compact construction for easy installation in confined spaces.
- Operating temperature range from -25 °C to +60 °C, suitable for long-term operation in harsh environments.

2. SAFETY INFORMATION

WARNING: Installation and maintenance of this device must be performed by qualified personnel only. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always disconnect power before installing or servicing the meter.
- Ensure all wiring complies with local and national electrical codes.
- Do not operate the meter if it is damaged or appears to be malfunctioning.
- Avoid exposing the meter to excessive moisture or extreme temperatures outside its specified operating range.

3. PRODUCT OVERVIEW

The CHINT DDSU666 meter is designed for ease of use and reliable performance. It features a clear LCD display and a compact form factor for DIN rail mounting.

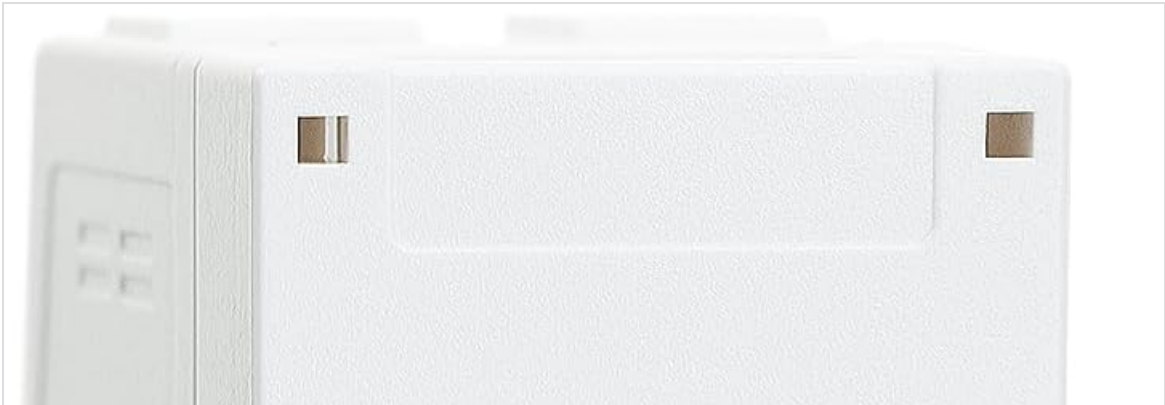




Figure 3.1: Front view of the CHINT DDSU666 Single-Phase Smart Meter, showing the LCD display and control button. For more product details, visit the [official CHINT product page](#).



Figure 3.2: Side view of the CHINT DDSU666 meter, displaying product specifications and wiring type.

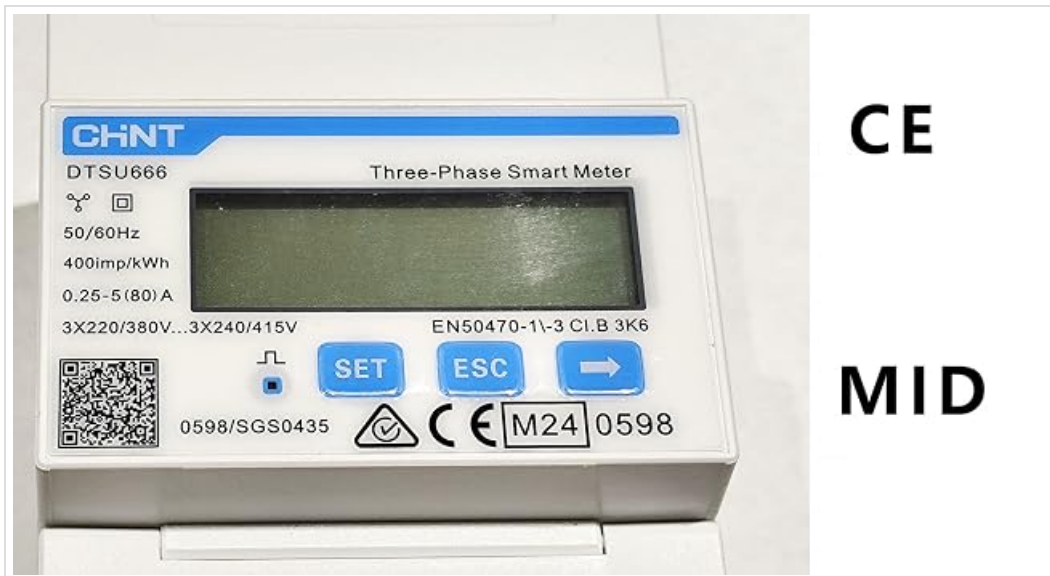


Figure 3.3: Diagram illustrating various measurable parameters on the DDSU666 display, including Power (kW), Voltage (V), Current (A), Power Factor (PF), Frequency (HZ), Imported Energy (kWh EIMP), Exported Energy (kWh EEXP), and Total Energy (kWh COMEP).



Figure 3.4: The CHINT DDSU666 Single-Phase Smart Meter mounted on a standard DIN rail, demonstrating its compact installation. For more product details, visit the [official CHINT product page](#).



Figure 3.5: A lineup of CHINT energy meters, including DDSU666 (No Modbus, CT Modbus, Modbus) and DTSU666 (Modbus, CT Modbus, No Modbus) variants, showcasing different models and their features.



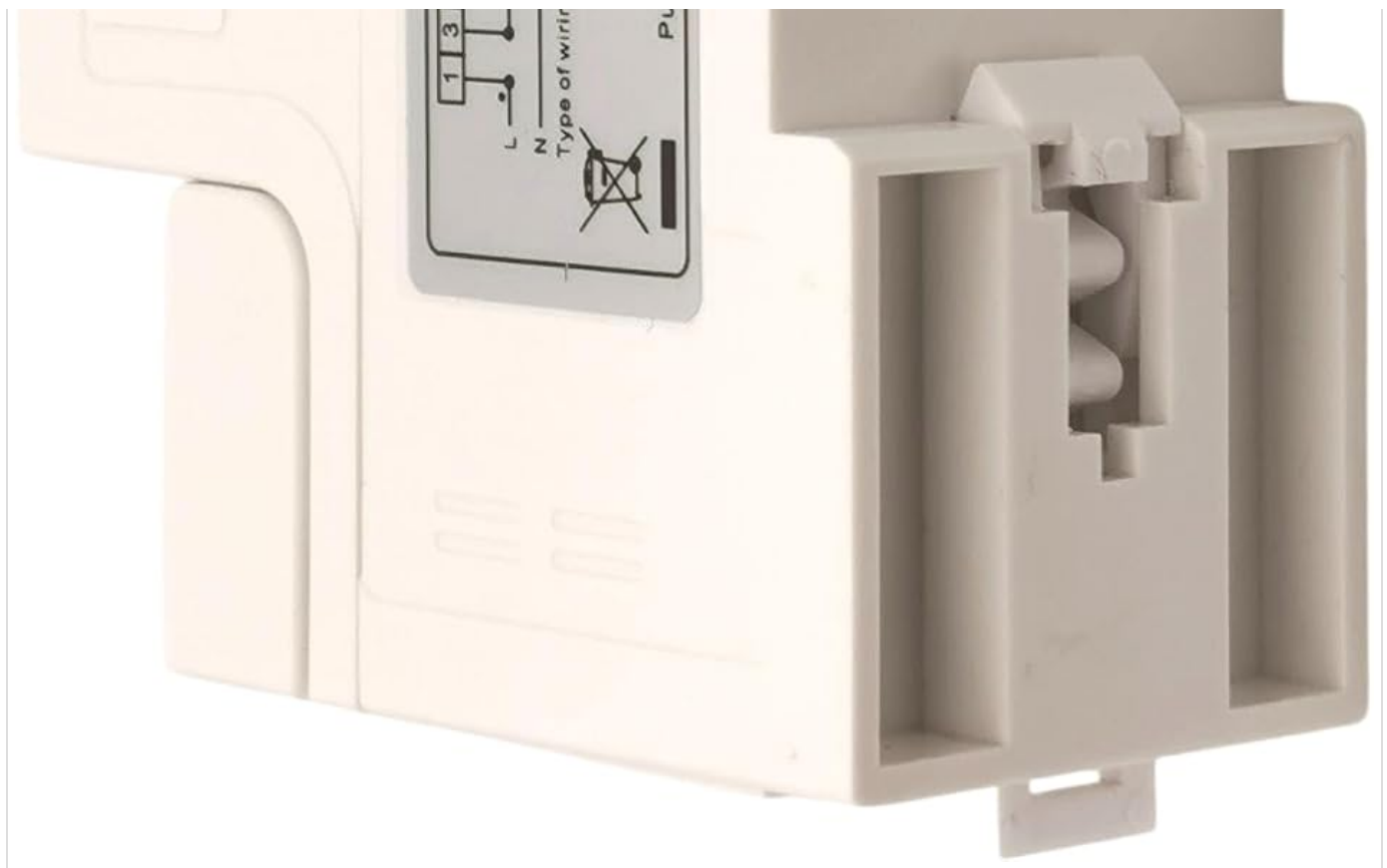


Figure 3.6: Rear view of the CHINT DDSU666 meter, showing the terminal connections and protective cover.

4. SETUP AND INSTALLATION

The DDSU666 meter is designed for easy installation on a standard 35mm DIN rail. Follow the steps below for proper setup.

4.1. Mounting

1. Ensure the power supply to the installation area is completely disconnected.
2. Locate a suitable 35mm DIN rail within your electrical panel.
3. Align the meter's mounting clips with the DIN rail and press firmly until it clicks into place.
4. Verify that the meter is securely fastened to the rail.

4.2. Wiring

Refer to the wiring diagram below for correct electrical connections. Ensure all connections are tight and secure to prevent loose contacts and potential hazards.



Figure 4.1: Detailed wiring diagram for the CHINT DDSU666 Single-Phase Smart Meter (1P2W), illustrating connections for Load, Grid, and Pulse Constant terminals.

- Connect the Live (L) and Neutral (N) wires from the power source to terminals 1 and 2 respectively.
- Connect the Live (L) and Neutral (N) wires to the load from terminals 3 and 4 respectively.
- For pulse output, connect S+ and S- to terminals 5 and 6 if required for external monitoring systems.
- Double-check all connections before restoring power.

5. OPERATING INSTRUCTIONS

Once installed and powered, the DDSU666 meter will automatically begin measuring energy consumption. The LCD display provides real-time data and various parameters.

5.1. Display Navigation

The meter features a single button (indicated by an arrow) on the front panel for navigating through different display screens. Press the button to cycle through the following parameters:



Figure 5.1: The meter's display cycles through various measurements including power, voltage, current, frequency, power factor, and energy readings.

- **kW:** Instantaneous active power.
- **V:** Voltage.
- **A:** Current.

- **PF:** Power Factor.
- **HZ:** Frequency.
- **kWH EIMP:** Imported active energy (total consumption).
- **kWH EEXP:** Exported active energy (if applicable, for generation).
- **kWH COMEP:** Total active energy.

5.2. Reading Data

The large LCD display provides clear numerical readings. The unit of measurement (e.g., kWh, V, A) is indicated next to the numerical value. The meter supports precise measurement of both positive and negative active power, ensuring comprehensive energy detection.

6. MAINTENANCE

The CHINT DDSU666 smart meter requires minimal maintenance to ensure long-term reliable operation.

- **Cleaning:** Use a soft, dry cloth to clean the meter's exterior. Do not use abrasive cleaners, solvents, or immerse the device in water.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent damage and ensure accurate readings.
- **Periodic Inspection:** Periodically check the wiring connections for tightness and inspect the meter for any signs of physical damage.

7. TROUBLESHOOTING

If you encounter issues with your DDSU666 meter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No display/Meter not powering on	No power supply; Incorrect wiring; Internal fault.	Check power source and circuit breaker. Verify wiring connections according to Section 4.2. If problem persists, contact support.
Incorrect readings	Incorrect wiring; Overload; Environmental interference.	Verify wiring connections. Ensure current and voltage are within specified limits. Relocate meter if strong electromagnetic interference is suspected.
Display frozen or unresponsive	Temporary software glitch; Power fluctuation.	Temporarily disconnect and reconnect power to reset the meter.

If the issue is not listed or persists after attempting the solutions, please contact customer support for further assistance.

8. SPECIFICATIONS

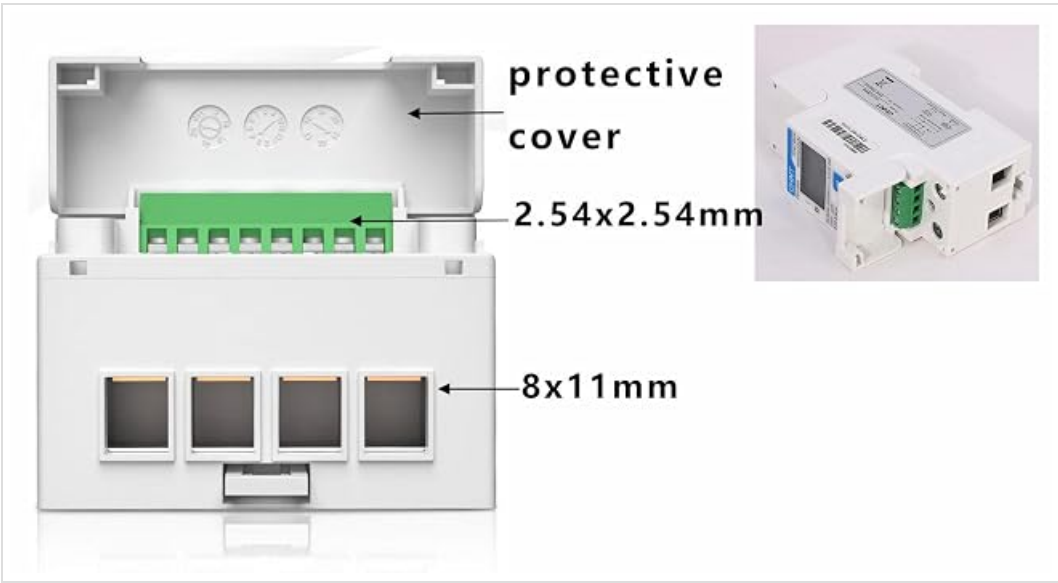


Figure 8.1: Detailed specifications including dimensions, display type, and environmental conditions for the DDSU666 meter.

Feature	Detail
Manufacturer	CHINT
Model Number	1P2W
Style	DDSU666 No Modbus
Color	White
Measurement Connection Type	1P2W
Accuracy	Class 1.0 for active
Nominal Voltage (Un)	220V, 230V, 240V
Operating Range	0.85Un ~ 1.15Un
Power Consumption	≤ 1W, 8VA
Current	5(80)A
Frequency	50Hz or 60Hz
LCD Display	6 characters of 7 segment display, Digital size 5.3mm × 2.8mm
LED Indication	Pulse Indication
Measured Values	Instantaneous kW, Vrms, Irms, frequency, power factor, Total kWh
Communications	RS485: No, Protocol: No
Working Temperature Range	-10 °C to +45 °C
Limited Temperature Range	-25 °C to +75 °C
Relative Humidity (Annually average)	≤ 75%
Dimensions (L x W x H)	98mm × 65mm × 36mm
Weight	210 Grams
Components Included	Current meter

Feature	Detail
Batteries Required	No
Spare Parts Availability	10 Years

9. WARRANTY AND SUPPORT

CHINT is committed to providing high-quality products. This product is designed for durability and comes with a commitment to spare parts availability for 10 years.

For technical support, warranty claims, or any inquiries regarding your CHINT DDSU666 meter, please contact your point of purchase or refer to the official CHINT website for customer service contact information.

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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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