

Wattive DAC1100 V2

Wattive DAC1100 V2 Electricity Meter

Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Wattive DAC1100 V2 Single Phase 100A DIN Rail Electricity Meter. Please read these instructions carefully before installation and use, and retain them for future reference.

1.1 Safety Information

- Installation and maintenance should only be performed by qualified personnel.
- Ensure power is disconnected before any installation or wiring work.
- Do not operate the device if it appears damaged.
- Observe all local electrical codes and regulations.

2. PRODUCT FEATURES

The Wattive DAC1100 V2 is a versatile single-phase electricity meter designed for accurate energy consumption monitoring and management.

- **Modbus Communication:** Features an RS485 Modbus RTU interface for remote data reading and integration into smart systems.
- **Multifunctional Measurement:** Measures voltage, current, active power, reactive power, apparent power, power factor, and frequency.
- **LCD Display:** Clear LCD for displaying energy consumption data with touch buttons for parameter preview.
- **Easy Installation:** Compact design, standard single module width, suitable for 35mm DIN rail mounting.
- **Flame-Retardant Construction:** Housing manufactured from advanced polycarbonate material for enhanced safety.
- **Versatile Applications:** Ideal for power systems, schools, apartments, markets, laboratories, and intelligent buildings.

MULTIFUNCTIONAL ELECTRICITY METER

Widely employed for measurement
in power systems, educational
establishments, residential properties,
commercial premises, laboratories and
similar locations

Modbus communication

Multifunctional measurement

Wide range of applications

LCD display

Figure 2.1: Wative DAC1100 V2 highlighting Modbus communication, multifunctional measurement, wide range of applications, and LCD display.

DETAIL DISPLAY



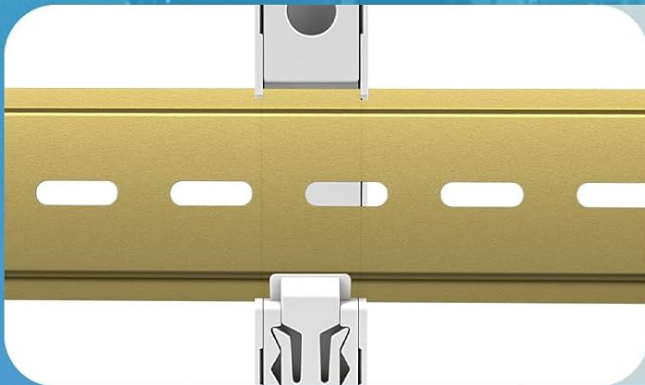
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230VAC 0.25-5(100)A 50/60Hz
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LCD DISPLAY

Features an LCD panel for clear visualisation of energy consumption data

FLAME-RETARDANT CONSTRUCTION

Housing manufactured from advanced polycarbonate material



SIMPLE INSTALLATION

Compatible with 35mm DIN rail mounting

Figure 2.2: Close-up view of the DAC1100 V2 detailing its LCD panel, flame-retardant housing, and compatibility with 35mm DIN rail mounting.

3. SPECIFICATIONS

Parameter	Value
Model Number	DAC1100 V2
Material	ABS
Poles	1P (Single Phase)
Rated Voltage	230V AC

Parameter	Value
Rated Current	5A (Base Current)
Maximum Current	100A
Rated Frequency	50/60 Hz
Impulse Constant	1000 imp/kWh
Communication Method	RS485 Modbus RTU
Product Dimensions	12 x 7.5 x 2.5 cm
Item Weight	120 g

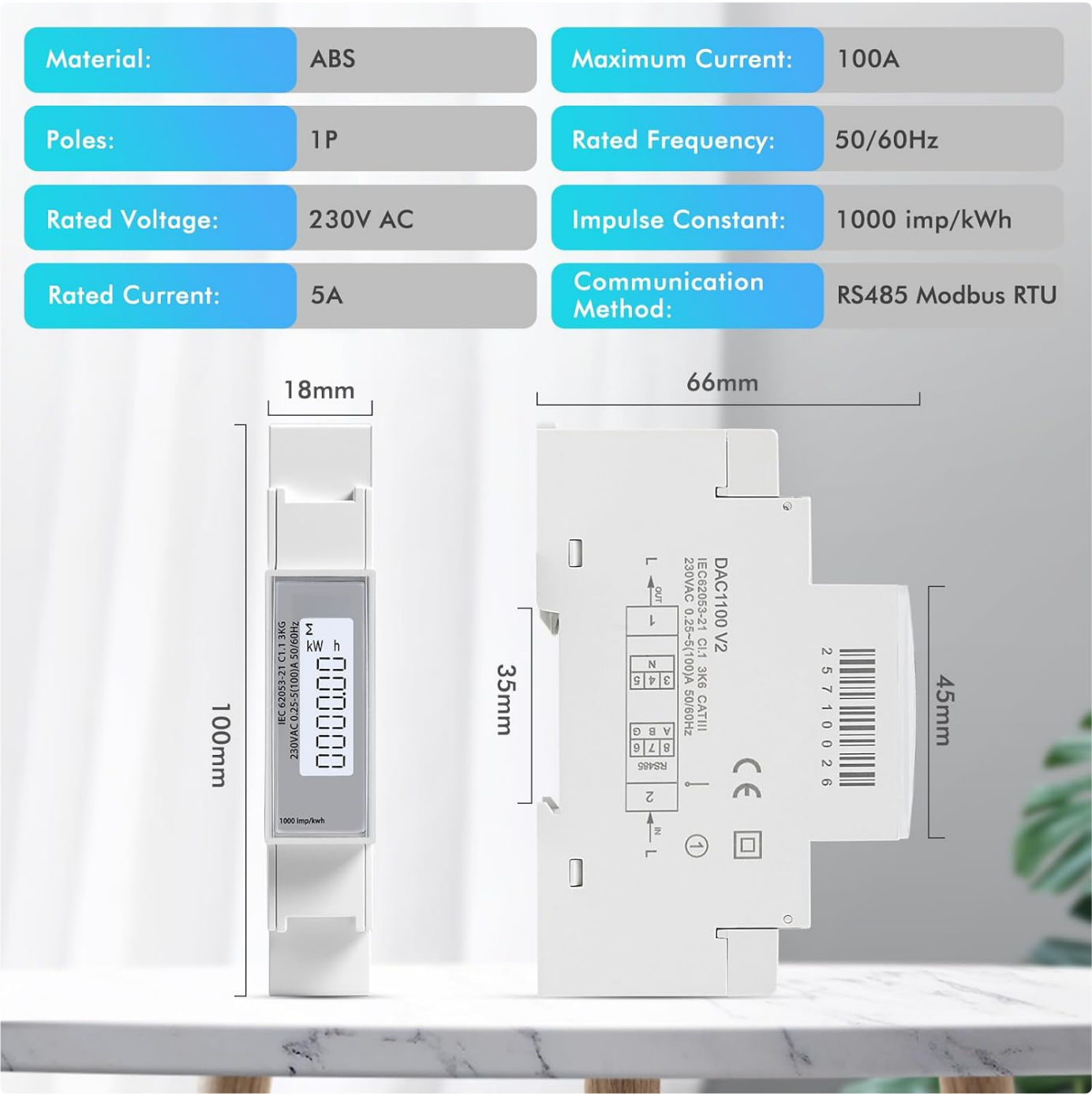


Figure 3.1: Detailed specifications and dimensional drawing of the Wative DAC1100 V2 meter. The model number 25710026 is visible on

the device.

4. SETUP AND INSTALLATION

4.1 DIN Rail Mounting

The DAC1100 V2 is designed for easy installation on a standard 35mm DIN rail. Simply clip the meter onto the rail in your distribution box.

4.2 Wiring Diagram

Follow the wiring diagram carefully to ensure correct and safe operation. Incorrect wiring can lead to damage to the device or electrical hazards.

WIRING DIAGRAM

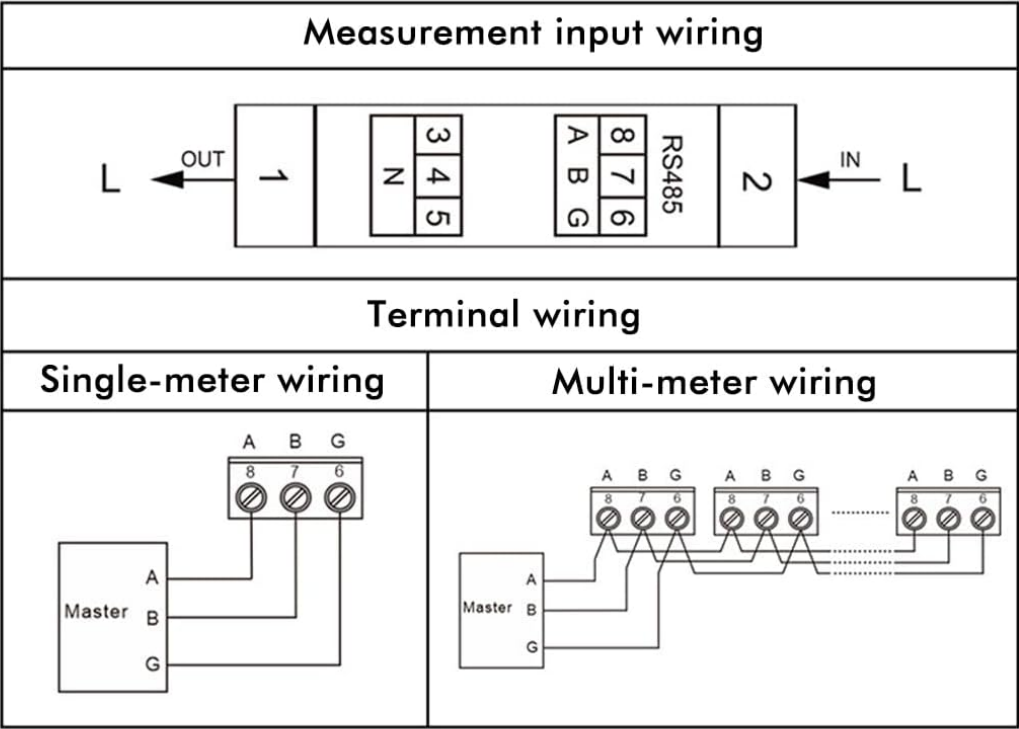


Figure 4.1: Wiring diagram showing measurement input wiring and terminal wiring for single-meter and multi-meter configurations. The model number 25710026 is visible on the device.

- **Measurement Input Wiring:** Connect the 'L' (Live) and 'N' (Neutral) wires as indicated for the input and output.
- **Terminal Wiring (RS485):** Connect terminals 6, 7, 8 for RS485 communication (A, B, G) as shown for single or multi-meter setups.

5. OPERATING INSTRUCTIONS

5.1 LCD Display

The LCD displays various measurement parameters in real-time. The display typically rotates automatically through different values such as kWh, kW, VAR, Amperes, kVARh, VA, Watts, and Volts.

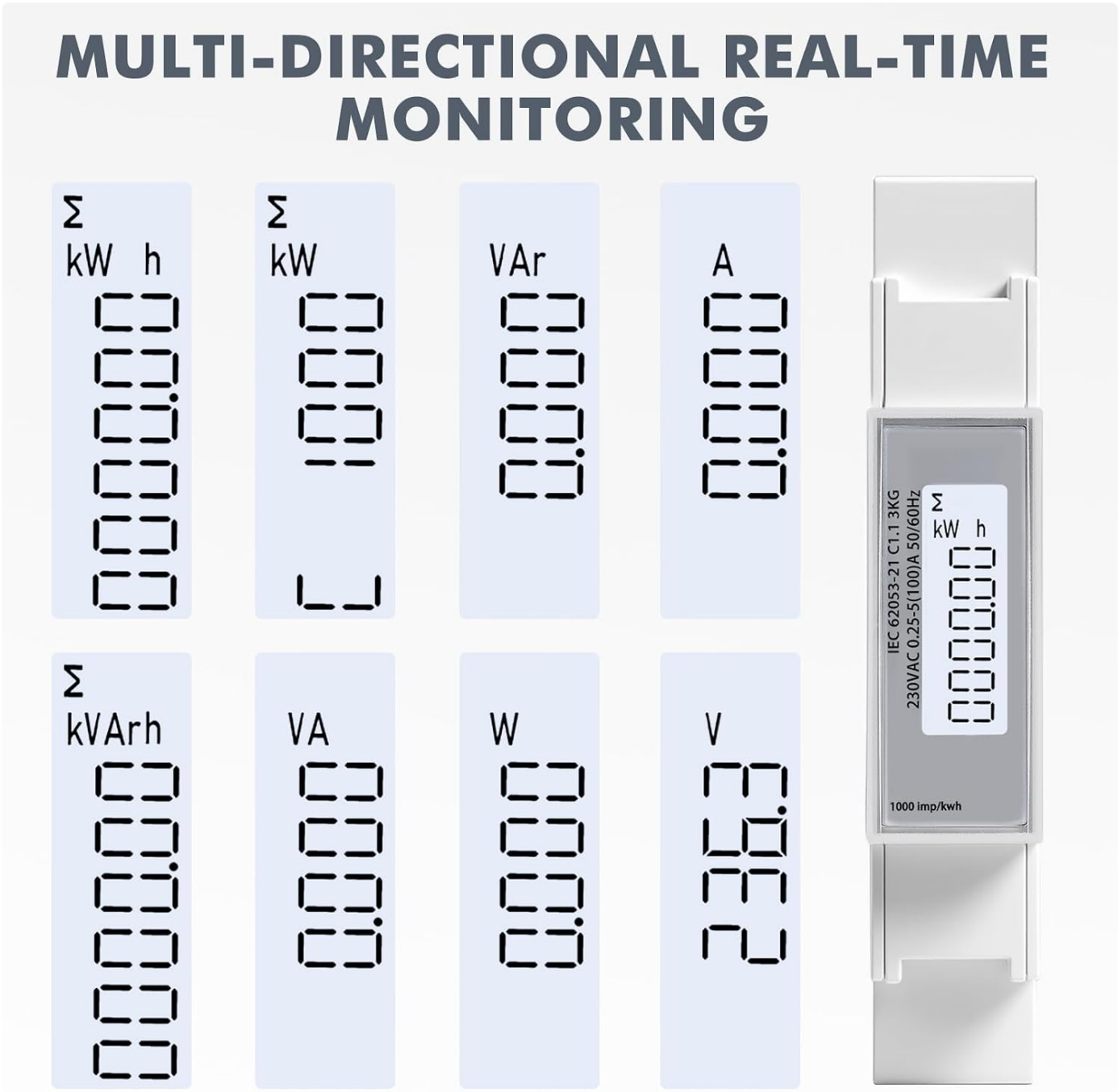


Figure 5.1: The LCD display showing various real-time electrical parameters such as kWh, kW, VAR, A, kVARh, VA, W, and V.

5.2 Accessing Parameter Settings

To access the 'Parameter Settings Menu' screen:

1. On the main display screen, press and hold Button 1 for 5 seconds to enter the user password input mode.
2. After entering the correct password, press and hold Button 1 for 5 seconds to confirm. The power meter will then enter the 'Parameter Settings Menu' interface.

5.3 Password Input

To input the password:

1. Press Button 1 once to increment or decrement the flashing digit.
2. Press and hold Button 1 for 2 seconds to move the flashing digit position to the right.
3. After entering the correct password, press and hold Button 1 for 5 seconds to confirm.

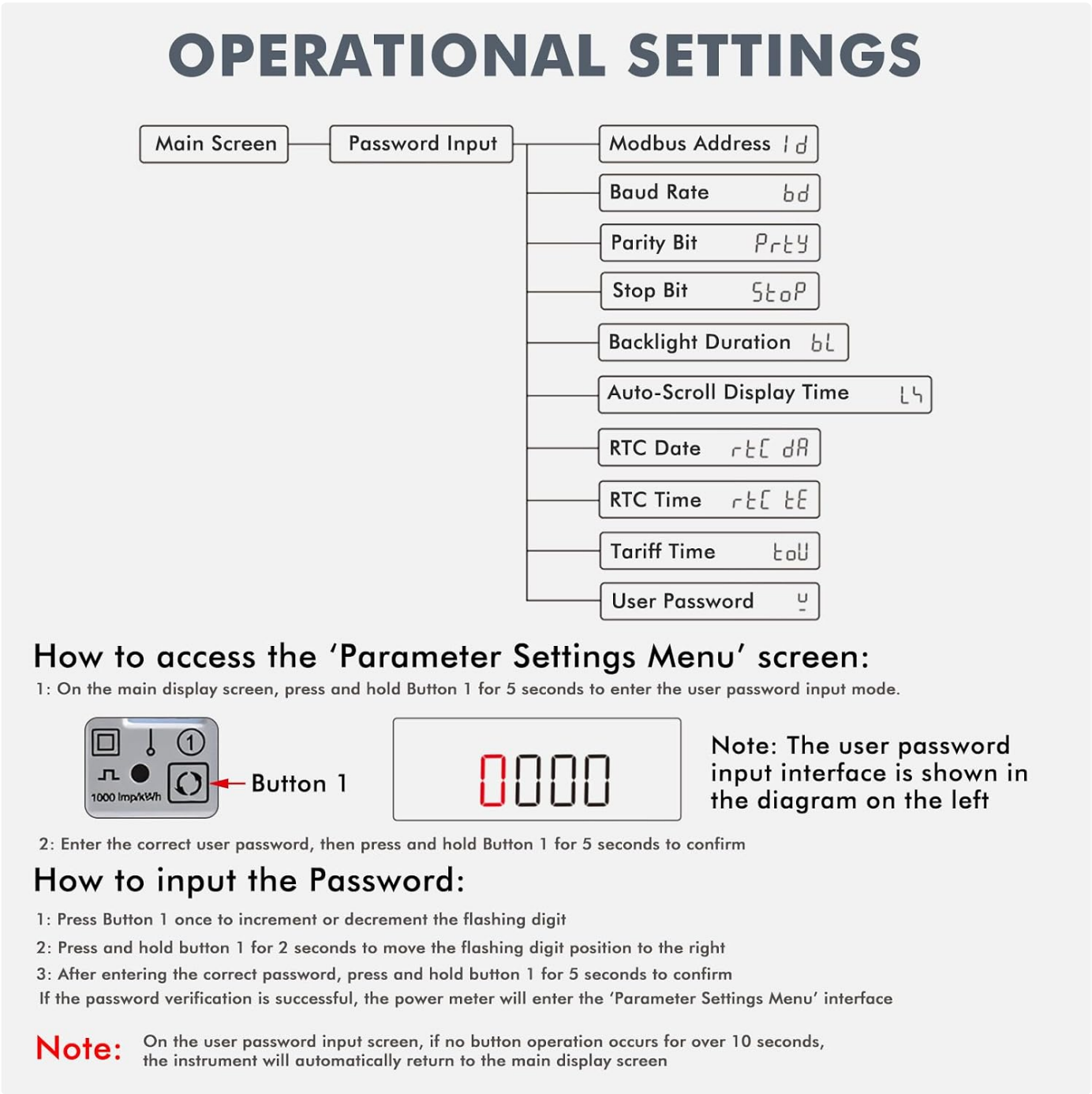


Figure 5.2: Flowchart illustrating how to access the parameter settings menu and detailed steps for password input using Button 1.

6. MODBUS COMMUNICATION

The DAC1100 V2 features an RS485 Modbus RTU communication interface, allowing it to be integrated into larger monitoring and control systems. This enables remote reading of data and efficient power management.

Note: Specific Modbus register addresses and protocol details are not provided in this general instruction manual. For detailed Modbus communication specifications, please refer to the dedicated Modbus protocol documentation or contact Wattive customer support.

7. MAINTENANCE

The Wattive DAC1100 V2 meter requires minimal maintenance. Keep the device clean and free from dust. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.

8. TROUBLESHOOTING

If you encounter issues with your DAC1100 V2 meter, consider the following general troubleshooting steps:

- **No Display:** Check power connections to ensure the meter is receiving power.
- **Incorrect Readings:** Verify all wiring connections are secure and correctly installed according to the wiring diagram.
- **Modbus Communication Issues:** Ensure RS485 wiring is correct (A to A, B to B), baud rate, parity, and stop bits are correctly configured in both the meter and the master device. If Modbus addresses are required, please refer to the specific Modbus protocol documentation for the DAC1100 V2, which is not included in this manual.

For persistent issues or advanced troubleshooting, please contact Wattive customer support.

9. APPLICATIONS

The Wattive DAC1100 V2 is suitable for a wide range of energy monitoring applications:

- Statistical analysis of power consumption from new energy sources.
- Performance monitoring of power supply systems.
- Intelligent building management.
- Use in schools, apartments, markets, laboratories, and offices.

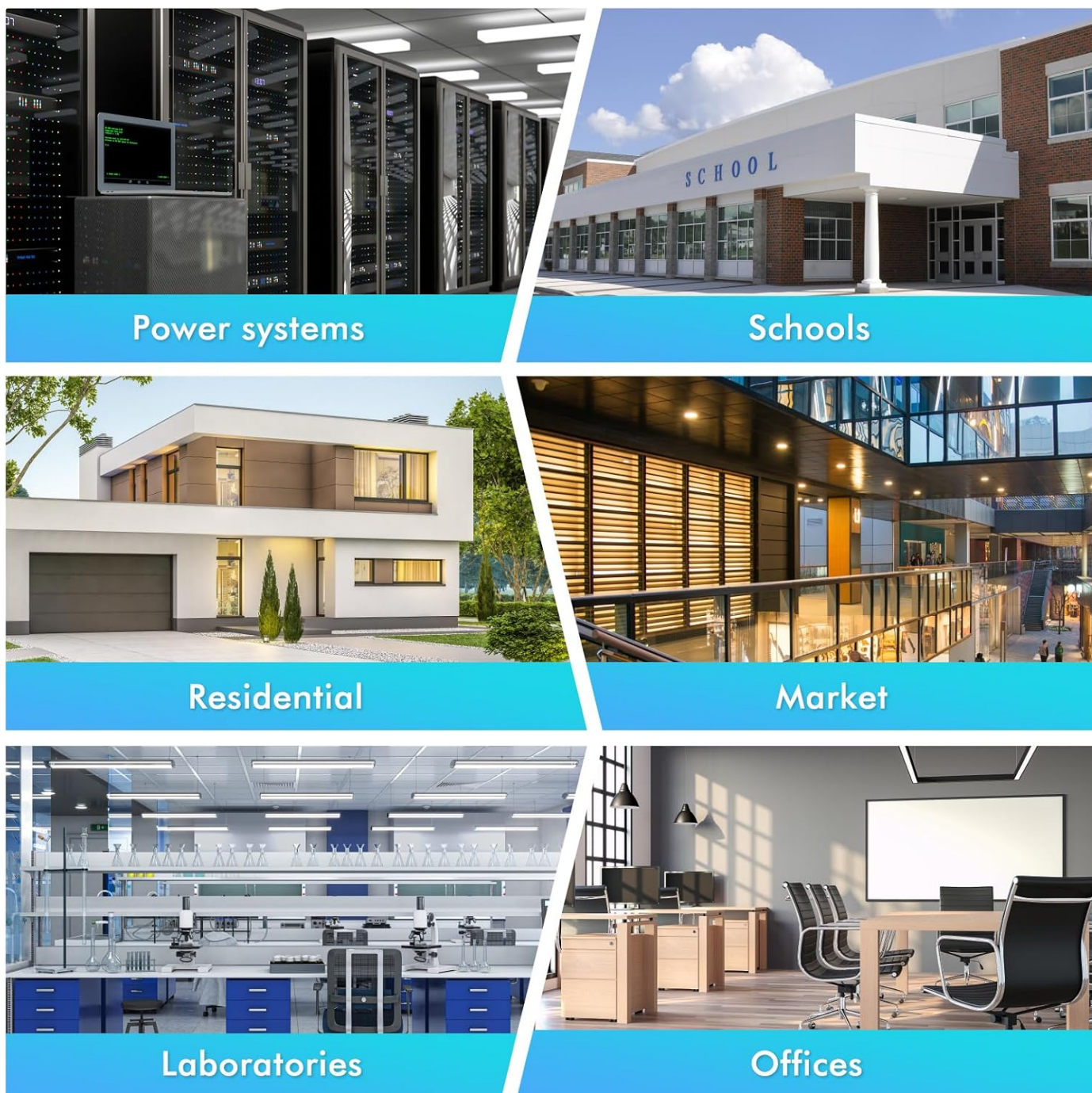


Figure 9.1: Examples of versatile applications for the DAC1100 V2 meter, including power systems, schools, residential buildings, markets, laboratories, and offices.

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official Wative website. Keep your proof of purchase for warranty claims.

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