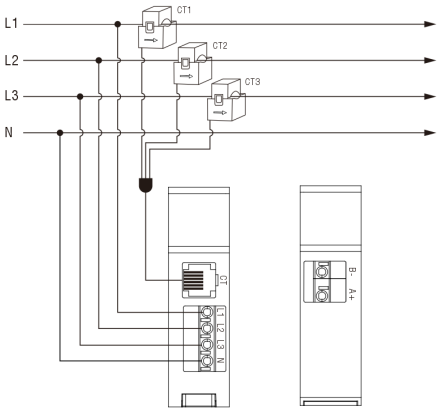
SEM3 Series Quick Installation Guide

The SEM3 three-phase electricity meter is designed for three-phase four-wire power grids and can accurately measure various critical electrical parameters: voltage, current, power, frequency, active energy, reactive energy, forward and reverse energy, etc. It is suitable for real-time power monitoring systems, featuring multifunctionality, versatility, high stability, and long service life.

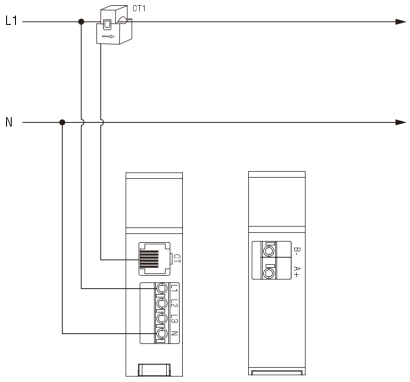
The SEM3 is a three-phase electricity meter designed for power monitoring needs in power systems, public utilities, industrial applications, and residential settings. It can be used in scenarios such as power transmission and distribution, AC charging piles, and solar photovoltaic systems. Its comprehensive communication capabilities make it highly suitable for various real-time power monitoring systems.

Wiring Diagram

Power Grid → Household Load



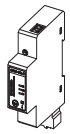
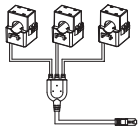
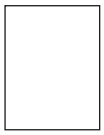
Power Grid → Household Load



1. Prepare wires of the corresponding colors and connect them from the circuit breaker to the L1, L2, L3, and N terminals of the three-phase electric meter:
The user shall provide a screwdriver by themselves. Press and hold the red button at the terminal of the three-phase electric meter with the screwdriver before inserting the wires of the corresponding colors.
2. Insert the CT (Current Transformer) connection wires into the dedicated CT interface of the three-phase electric meter.
3. Install the CT on the live wires (L1, L2, L3) in accordance with the current direction marked on the CT.

Notes:
1. If the product is used in a single-phase anti-backflow scenario, the phase wire connected to the micro-inverter must be consistent with the phase wire loop-connected to the CT (Current Transformer). For example, if the CT is clamped on L1, the power output of the micro-inverter should also be connected to L1 correspondingly.
2. If the product is applied in a three-phase anti-backflow scenario, the L1, L2, L3, and N wires of the electric meter's power supply line must all be properly connected without omission.
3. The CT (Current Transformer) shall be installed on the live wire, with the arrow pointing to the household load.

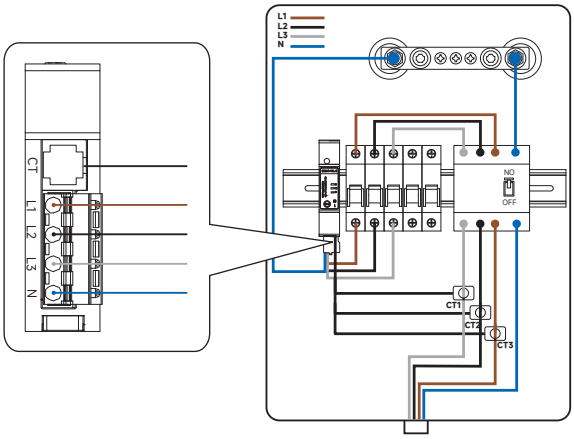
Packing List

Component Name	Illustration	Quantity
Multi-function 3-phase energy meter		1
Antenna		1
CT (120A/40mA(standard) 300A/40mA(optional))		1
Quick Installation Guide		1

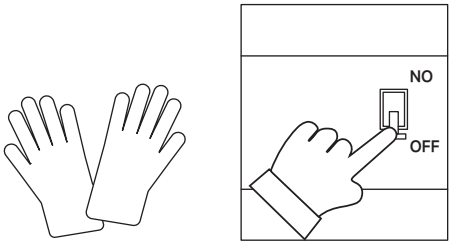
Installation Steps

Take out the three-phase electric meter and its matching current transformers (CTs) from the packaging.

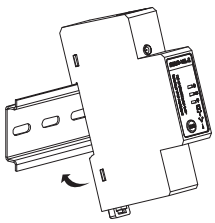
Step 1: First, distinguish the incoming wires. Typically, the brown wire is live wire L1, the black wire is live wire L2, the gray wire is live wire L3, and the blue wire is neutral wire (N).
The actual colors of the wires shall be subject to the wiring conditions in the household. (For the final installation effect, please refer to the wiring method in the figure below.)

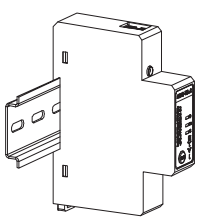


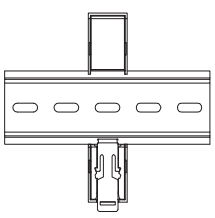
Step 2: Put on insulating gloves (to be prepared by the user) and turn off the main power supply to eliminate the risk of electric shock.



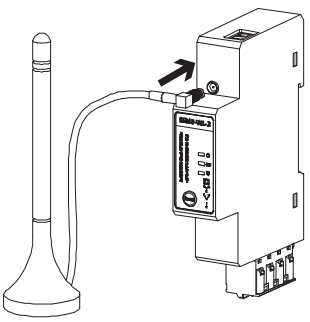
Step 3: Mount the three-phase electric meter on the guide rail of the distribution box, ensuring it is firmly installed without any looseness.
(1) Select a guide rail with a width of 35mm, and pull down the buckle at the lower end of the three-phase electric meter;
(2) First, clamp the upper end of the guide rail slot of the three-phase electric meter onto the guide rail, as shown in Figure 1;
(3) Then clamp the lower end of the guide rail slot of the three-phase electric meter onto the guide rail, as shown in Figure 2;
(4) Push up the buckle at the lower end of the three-phase electric meter, so that the three-phase electric meter is firmly clamped on the guide rail, as shown in Figure 3.


Figure 1


Figure 2


Figure 3

Step 4: Insert the antenna.
Note: If the three-phase electric meter is installed in a closed distribution box, place the antenna outside the box and ensure unobstructed wireless network signals around the antenna.

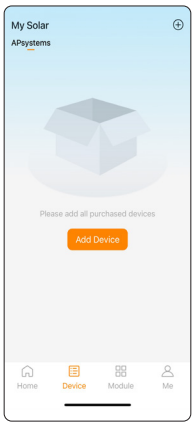


SEM3 Series Quick Installation Guide

Using the App

Method 1: Remote Connection

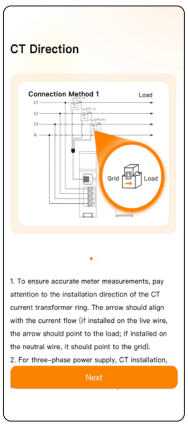
1. Log in to your account, go to the "Devices" page and click "Add Device", then import device via the list or by clicking "Add New Device".

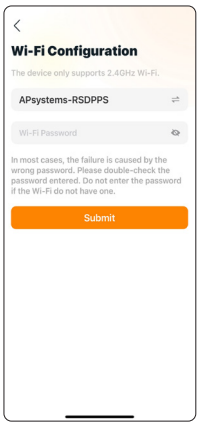




2. Confirm whether the CT is installed correctly. Note: you can also adjust CT direction later through "CT Reversal" function of the App.

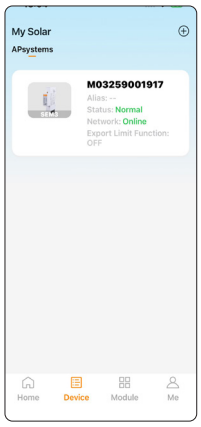
3. Select the Wi-Fi network from the list and enter the password.

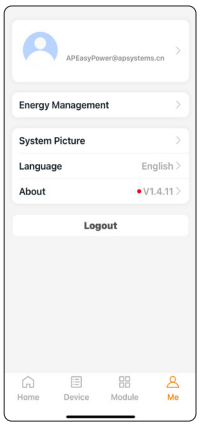


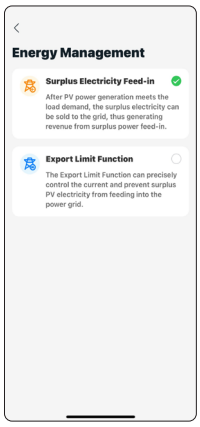


4. Ensure that the smart meter is successfully configured.

5. Select "Me" page and click "Energy Management " .

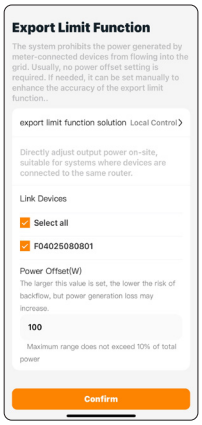


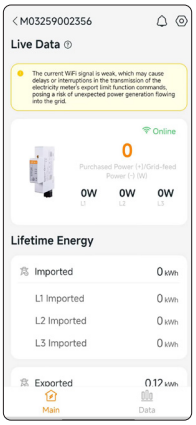




6. Click " Export Limit Function ", Select the devices that need to be associated.
Note: If you want to disable " Export Limit Function ", please select "Surplus Electricity Feed-in" again on the "Energy Management" page

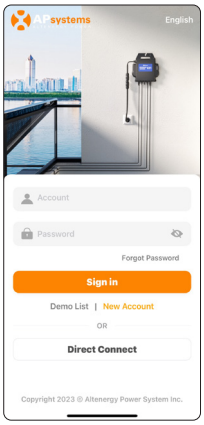
Note:
If the WiFi signal is weak, it may cause the transmission of the anti-reverse flow command of the electricity meter to be delayed or interrupted, and there is a risk that the generated electricity will accidentally flow into the power grid.

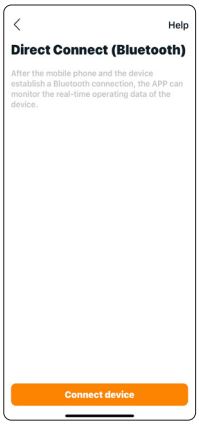




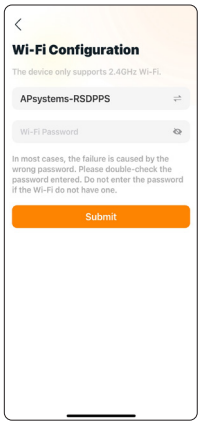
Method 2:Bluetooth direct connection Settings

1. On the home page, click "Directly Connect" to jump to Directly Connect (Bluetooth). Then click "Connect Device", and select "Bluetooth" or "Scan".

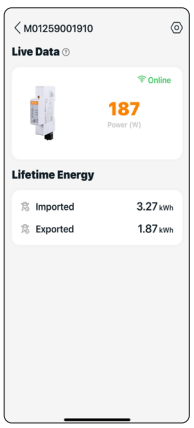


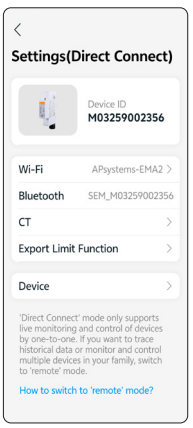


2. Select the Wi-Fi network from the list and enter the password.

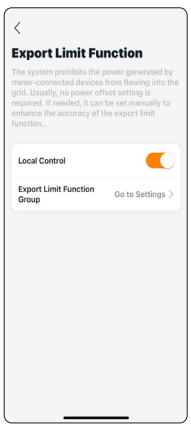


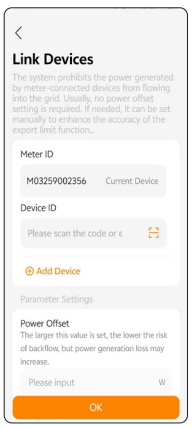
3. Click on "Settings" at the top right corner, and then click on "Export Limit Function".



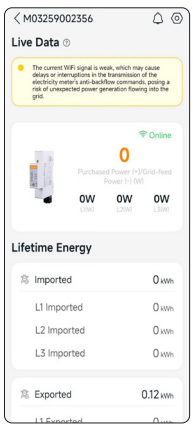


4. Open "Local Control", click on "Export Limit Function Group", manually fill in or scan the code to add the electricity meter ID, device ID and power Offset, and then click "OK".





Note:
If the WiFi signal is weak, it may cause the transmission of the anti-reverse flow command of the electricity meter to be delayed or interrupted, and there is a risk that the generated electricity will accidentally flow into the power grid.



IF you have any question, please feel free to contact our sales team.

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