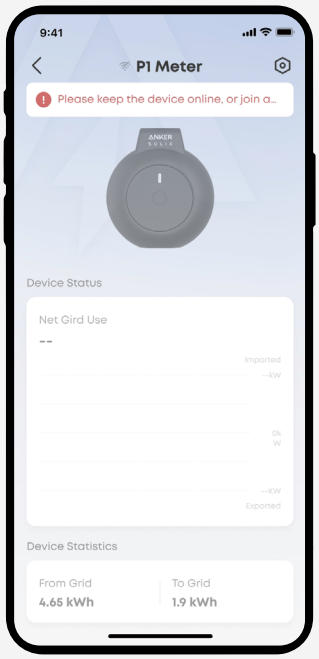
Precautions

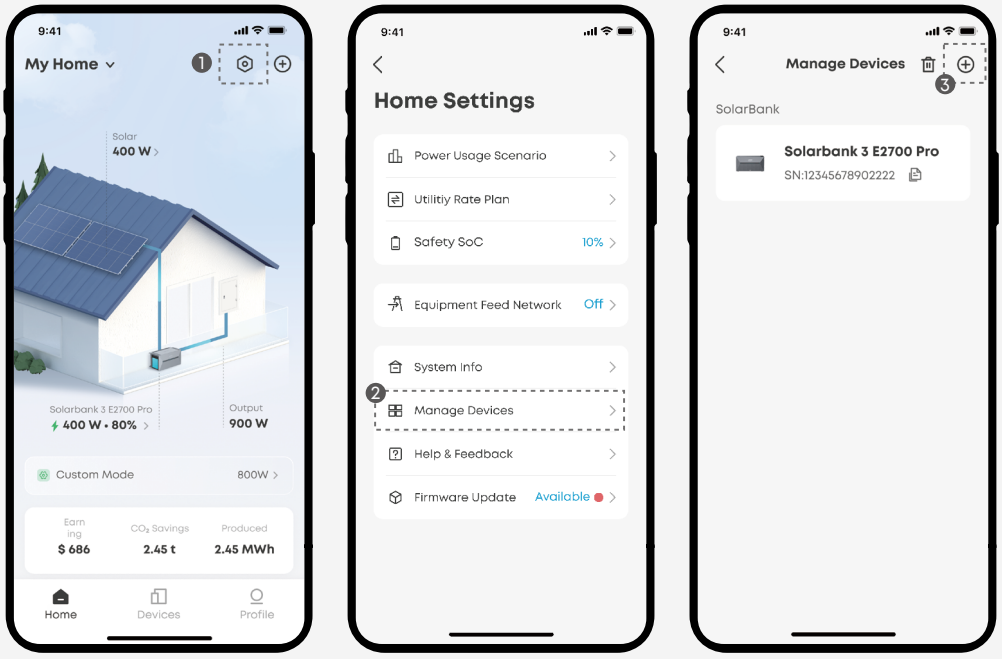
Important Notes

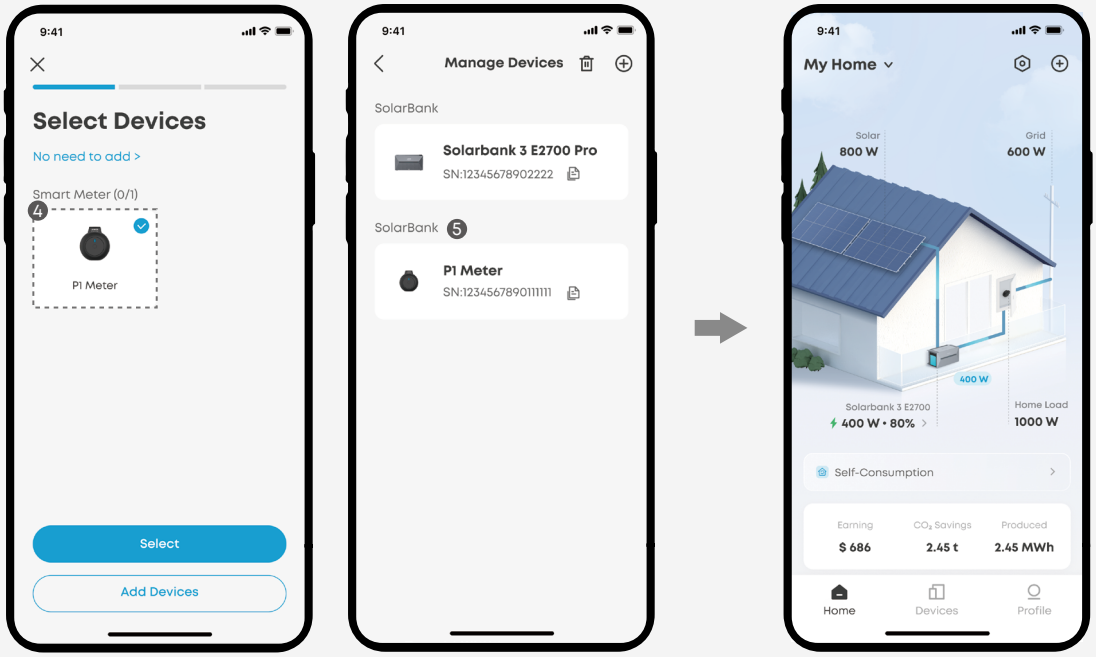
If you have added the P1 meter separately, the indicator light on the meter will turn off after pairing and the app will display a greyed-out image. This is normal.



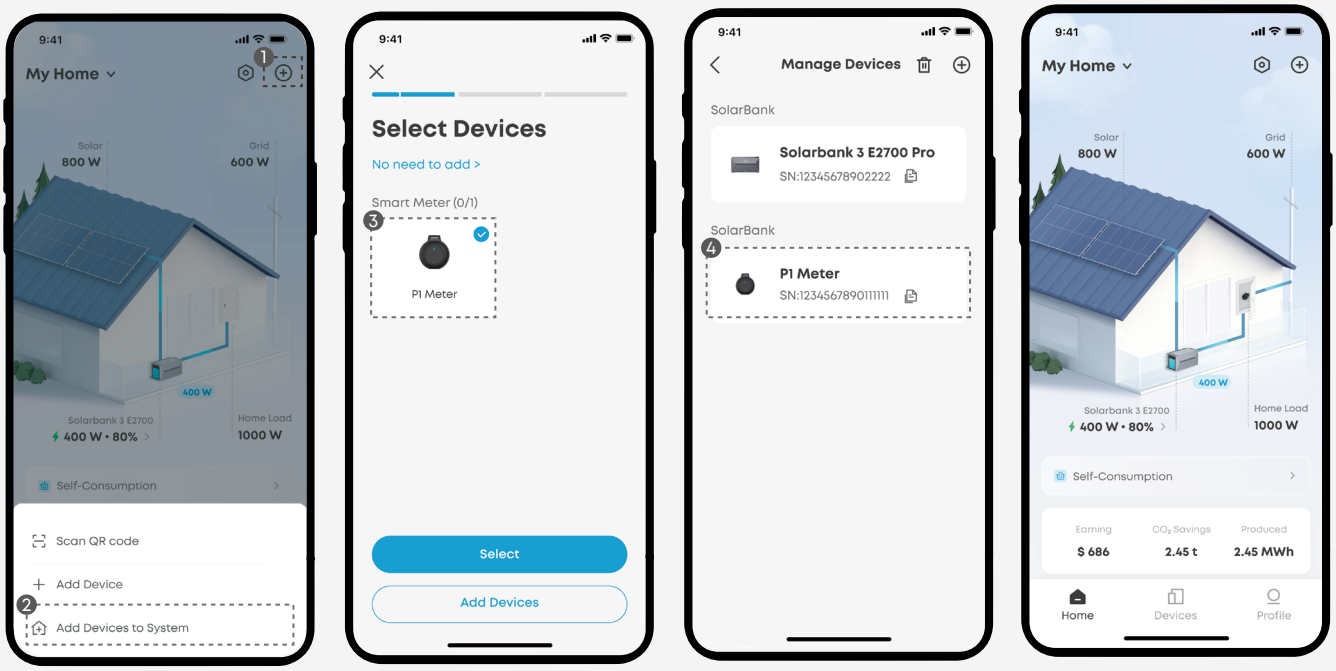
To proceed, follow the appropriate steps below based on your current setup.

- **If Solarbank is Already Added to the App:**

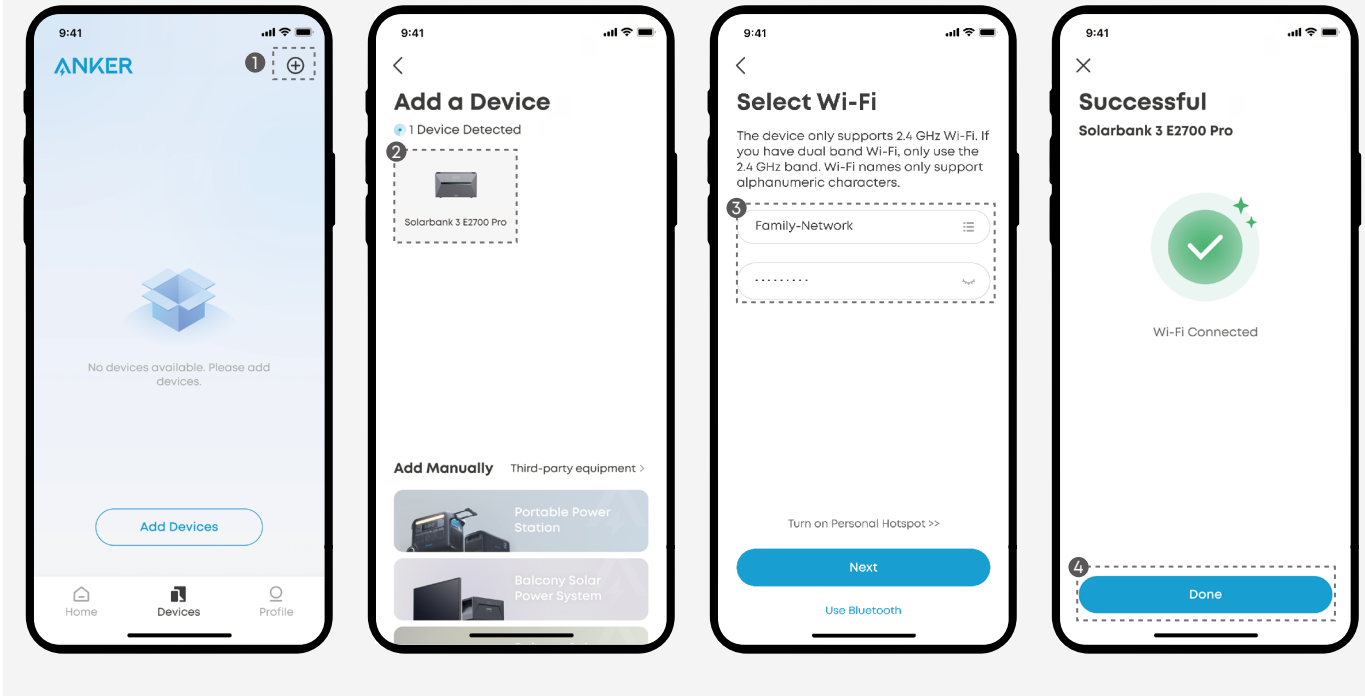


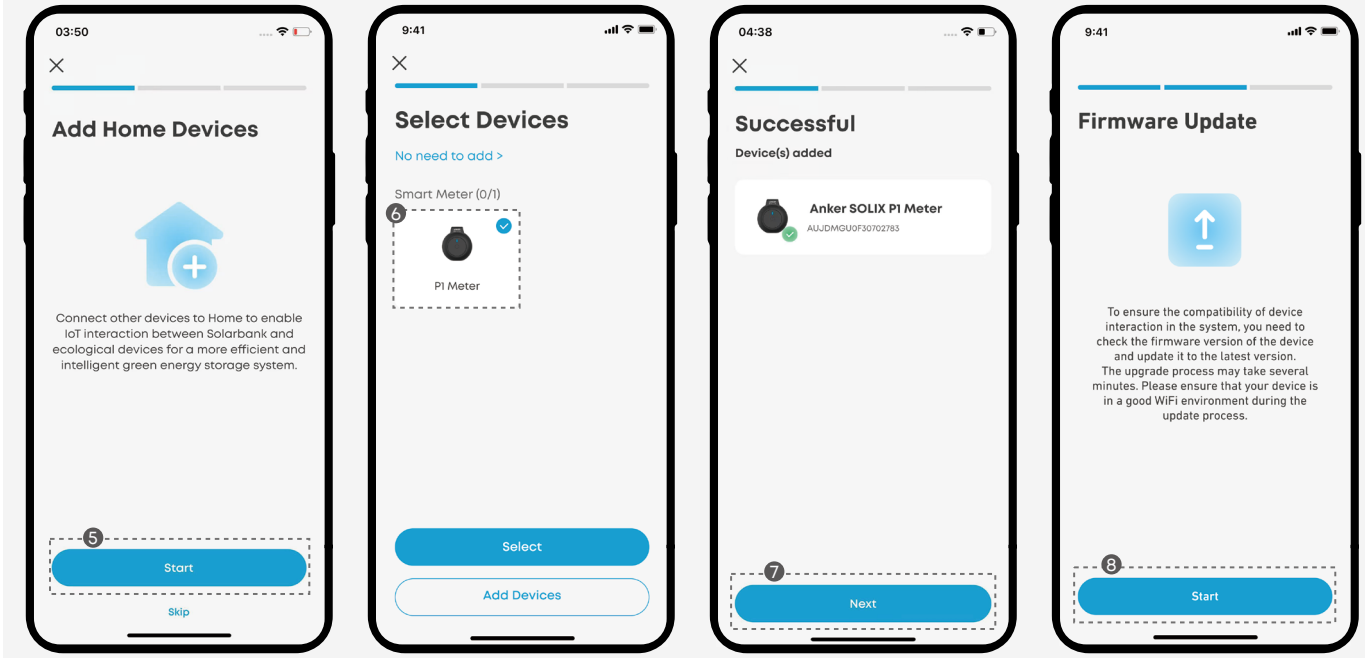


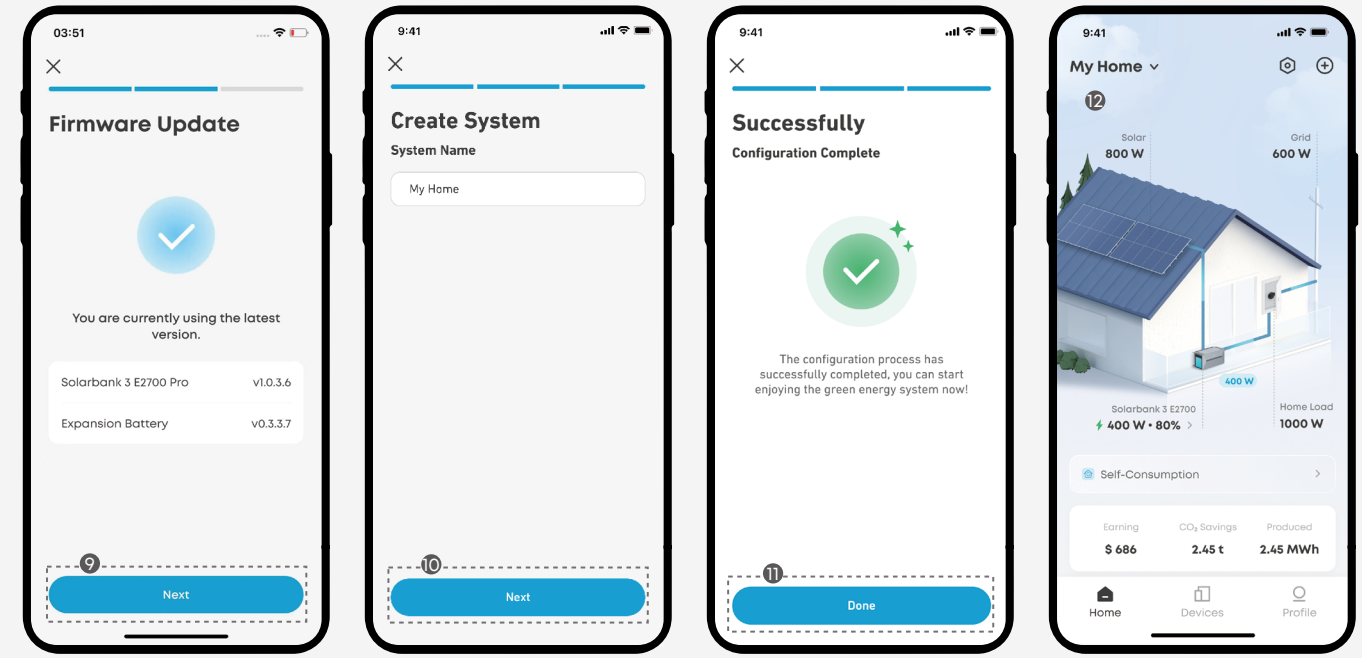
For App version **1.3.4 or later**, follow the steps below to add your P1 meter to the system:



- If Solarbank is Not Yet Added to the App:







If the above methods do not resolve the issue and your P1 meter still does not function properly, please contact Anker Customer Service for further assistance.

Setup Sequence in Anker App

Step 1: Add and Set Up Solarbank

We strongly recommend starting by adding Solarbank to the Anker App and completing its setup.

For instructions, please refer to the Solarbank User Guide.

Step 2: Add the P1 Meter

After successfully setting up Solarbank, proceed to add the P1 meter.

For instructions, please see the section "If Solarbank is Already Connected to App" in this guide..

Status Indication

When the P1 meter is properly connected and communicating with Solarbank, the indicator light on the meter will flash green. This indicates successful data transmission.

Device Compatibility

Supported Meter Protocols

The P1 meter is compatible with most smart meters that use the DSMR 5.0 or 4.0 protocols. These protocol versions are usually displayed on your smart meter.

We are continuously working to expand the list of compatible devices. Our primary focus is supporting DSMR 5.0 models to ensure optimal performance.

Optimal Performance with DSMR 5.0

The P1 meter has been tested with selected DSMR 5.0 meters from leading Dutch brands. For best results and real-time energy management, we recommend using a DSMR 5.0 meter. The P1 meter is powered directly by a DSMR 5.0 smart meter when they are connected.

Limitations with DSMR 4.0

Although DSMR 4.0 smart meters are generally compatible with the P1 meter for basic data reading, the data update frequency is limited to once every 10 seconds due to the DSMR 4.0 protocol. This limitation can affect the real-time responsiveness and effectiveness of the Energy Management System (EMS).

When connecting the P1 meter to a DSMR 4.0 smart meter, external power is required. The P1 meter must be powered through an adapter plugged into a nearby wall outlet. Ensure that a wall outlet is available near the electrical panel.

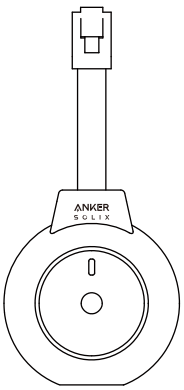
Recommended Actions for DSMR 4.0 Users

If you have a DSMR 4.0 meter:

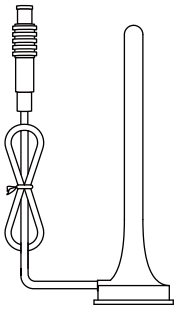
1. Consider using Anker SOLIX Smart Meter (Model: A17X7) for high-frequency data acquisition.

   This option requires wiring by a professional electrician. For instructions, refer to the Smart Meter User Guide.
2. Alternatively, you can contact your grid operator to request a DSMR 5.0 meter upgrade. Availability and costs may vary depending on your operator and local regulations.

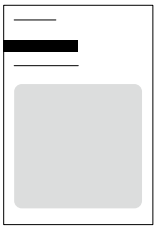
Unboxing



Anker SOLIX P1 Meter



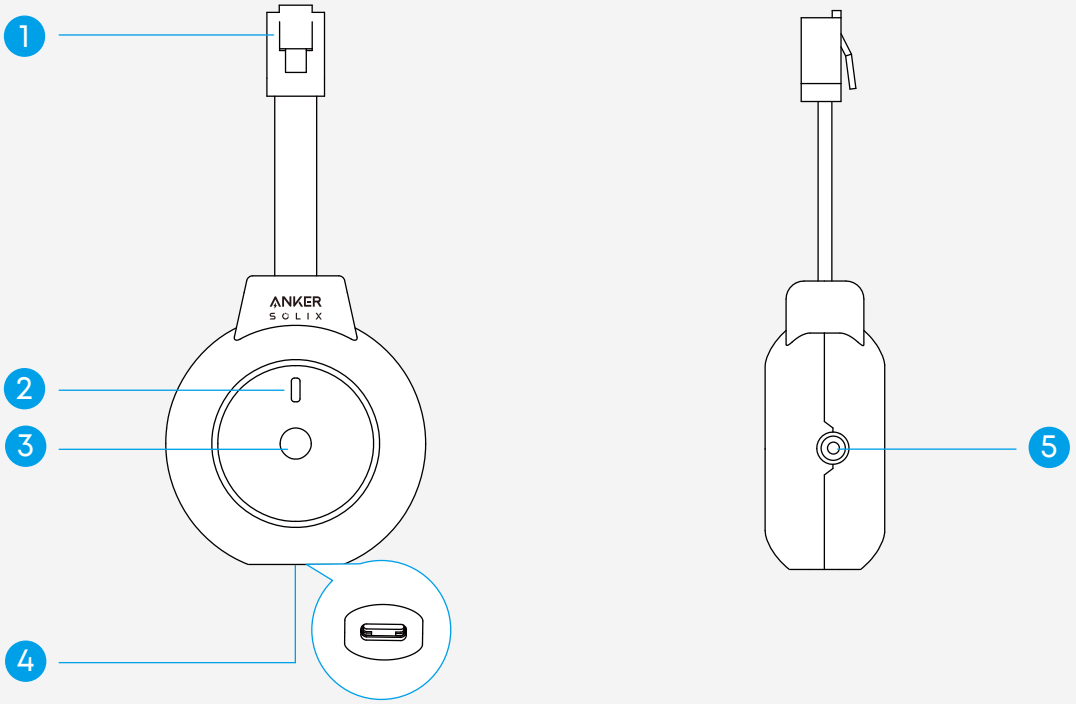
Magnetic Antenna (1m Cable)



Warranty and Safety Information

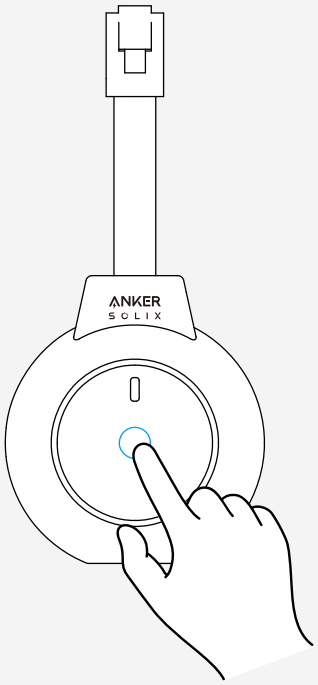
Product Overview

At a Glance



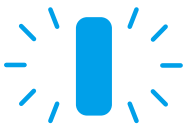
1. RJ12 Connector
2. Indicator Light
3. Button
4. USB-C Port
5. Antenna Port

Button Controls



Action	Function
Press once.	Confirm Bluetooth connection.
Press five times within 3 seconds.	Update firmware.
Press for 10 seconds.	Reset the P1 meter.

LED Guide

Indicator Light	Description	Status
	Flashing blue (every second)	Powered on Bluetooth connection confirmed Firmware updating
	Solid blue (3 s, then off)	Connected to Bluetooth
	Flashing blue (every 500 ms)	Connecting to Wi-Fi

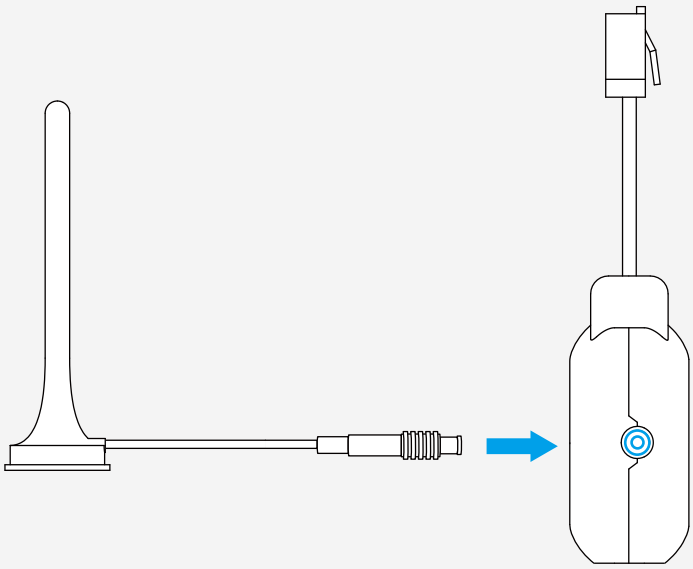
	Flashing blue (every 200 ms)	Unable to communicate with the smart meter
	Solid blue (5 s, then off)	Firmware update failed
	Solid green (5 s, then off)	Firmware updated
	Flashing green (once)	Data transmitted

Installation

- Use the P1 meter in indoor environments only.
- Ensure that the antenna does not touch any electrical parts.
- Install the antenna as instructed to guarantee reliable communication.

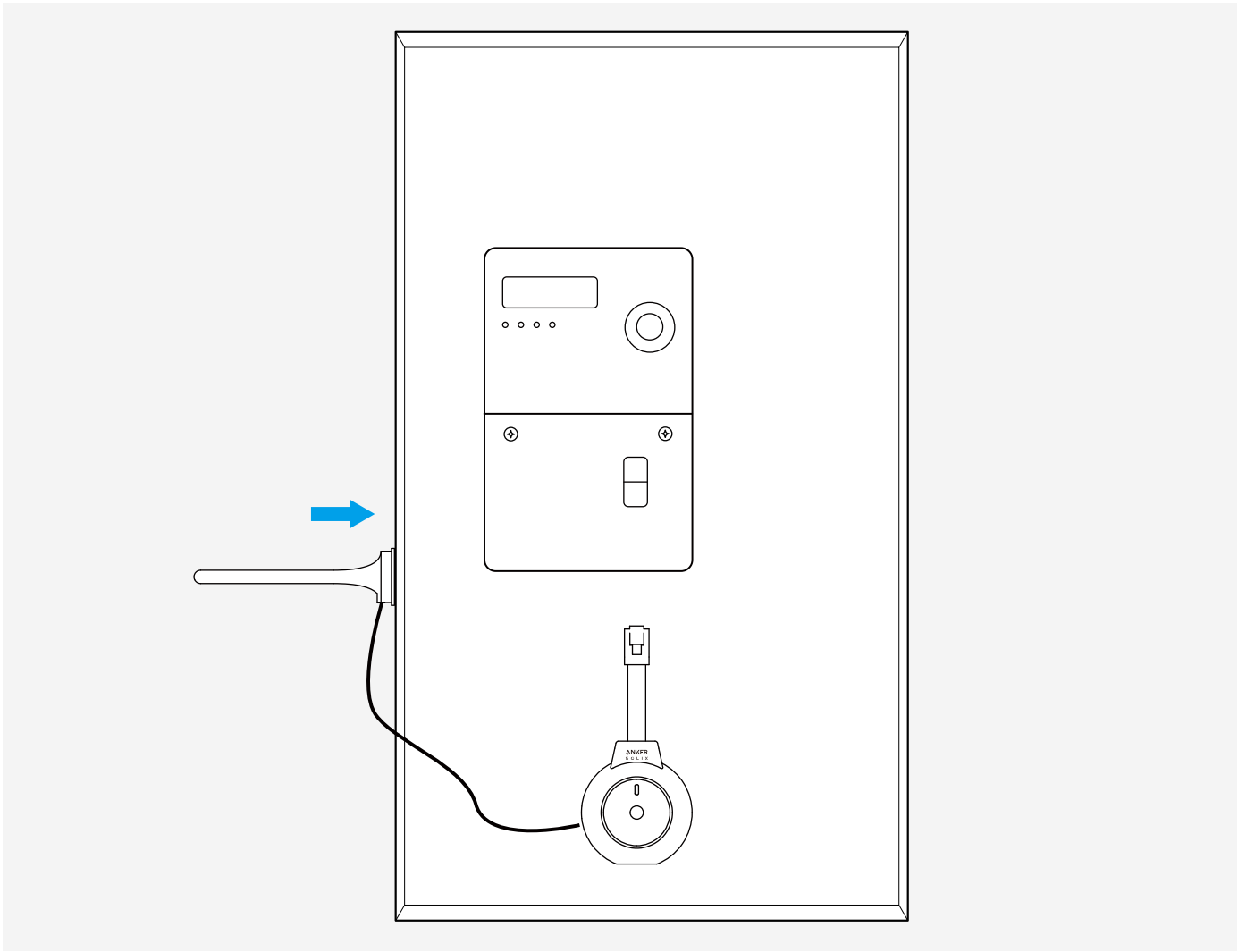
Step 1. Attach Antenna to P1 Meter

Firmly insert the antenna cable into the antenna port on the P1 meter.



Step 2. Place Antenna on Electrical Panel

- Position the antenna in a safe and unobstructed location on your electrical panel.
- Make sure the antenna can extend safely out of the panel.

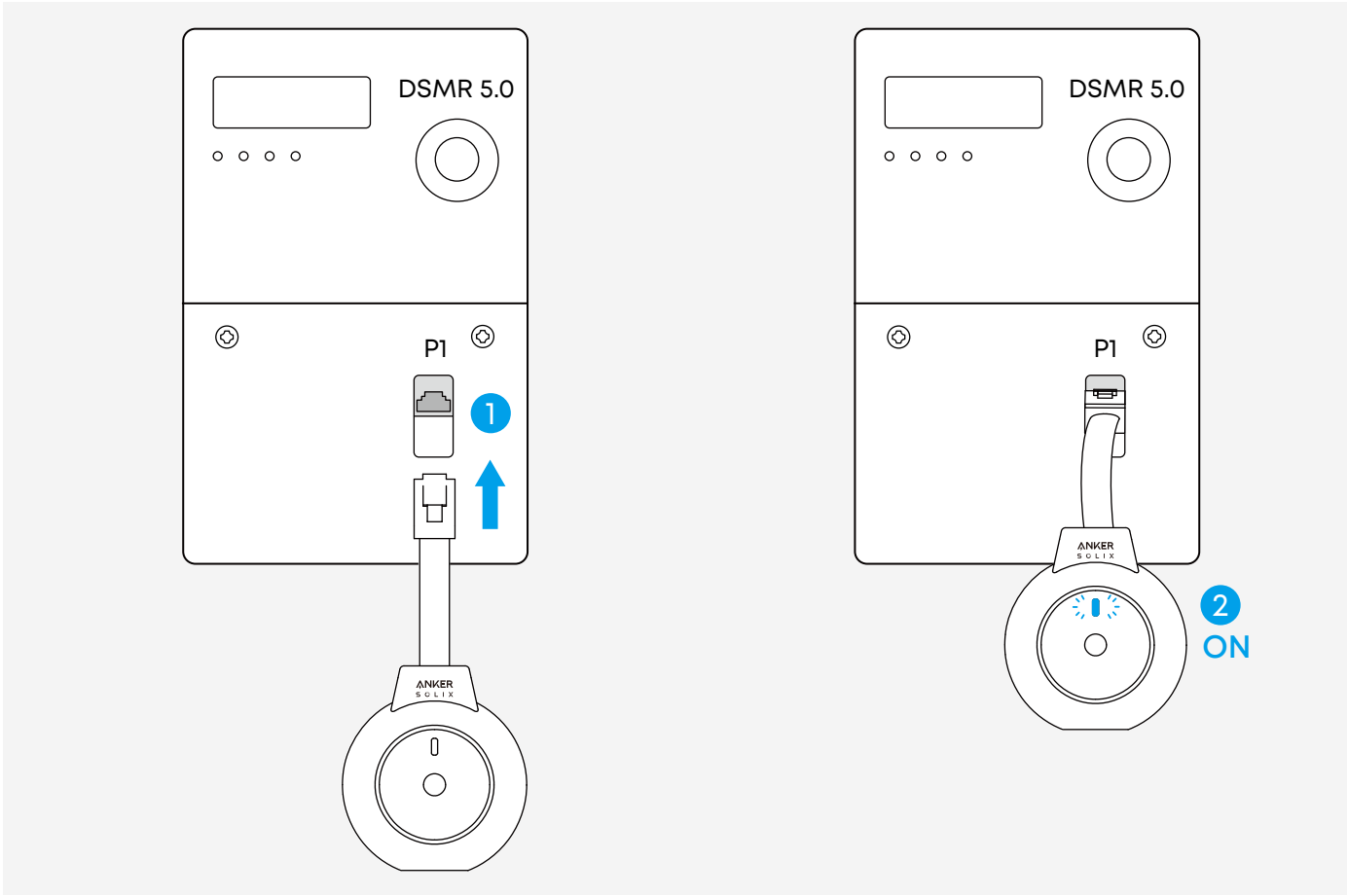


Step 3. Connect P1 Meter to Smart Meter

Use DSMR 5.0 Smart Meter

1. Plug the P1 meter into the P1 port on your smart meter.
2. The P1 meter will be powered directly by the smart meter. Confirm successful power-up by checking that the indicator light flashes blue.

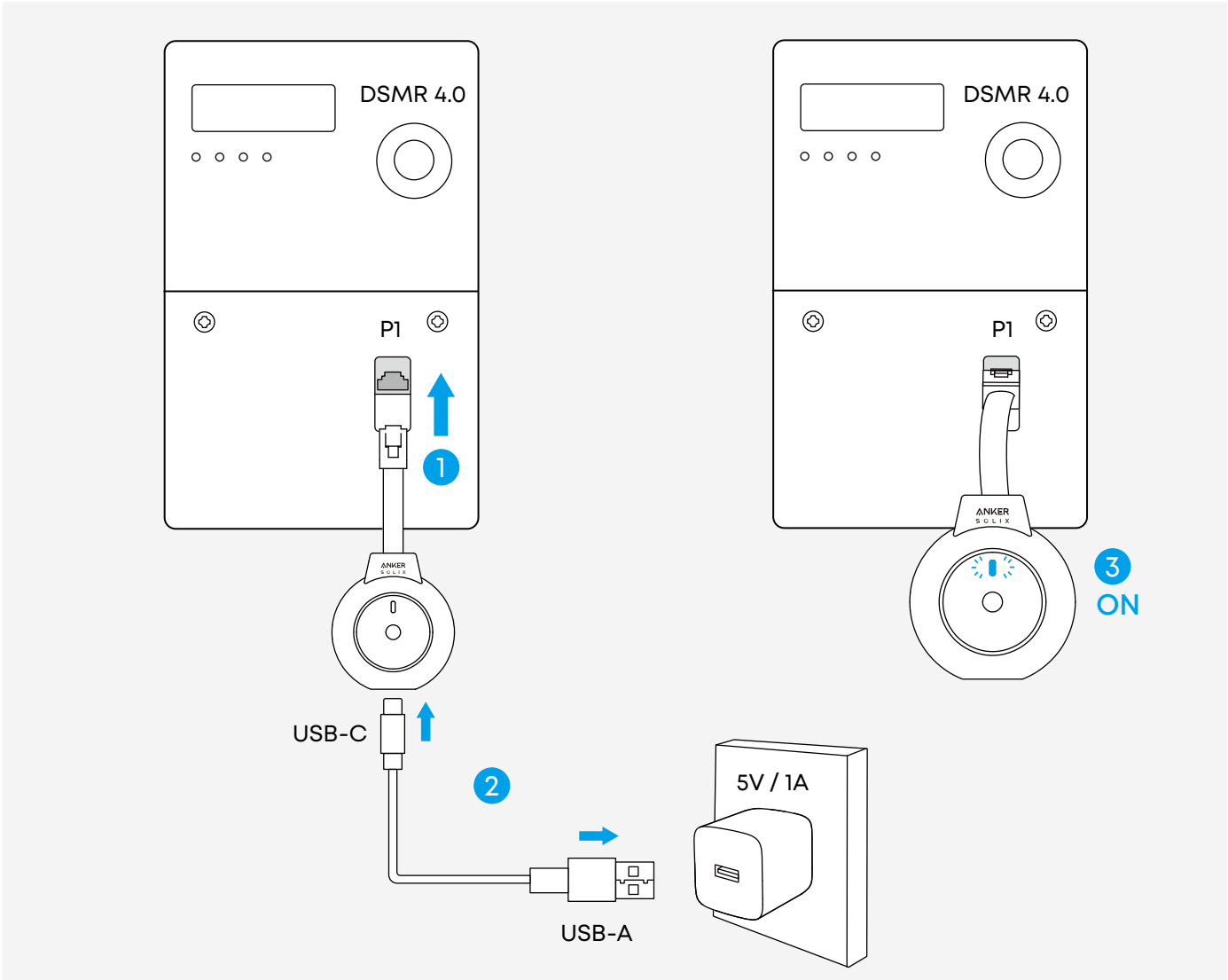
The location of the P1 port varies by smart meters, but it is typically labeled as "P1."



Use DSMR 4.0 Smart Meter

1. Plug the P1 meter into the P1 port on your smart meter.
2. Connect the P1 meter to the wall outlet using a USB-A to USB-C cable and a USB-A power adapter (5V / 1A).
3. Confirm successful power-up by checking that the indicator light flashes blue.

The location of the P1 port varies by smart meters, but it is typically labeled as "P1."



App Setup

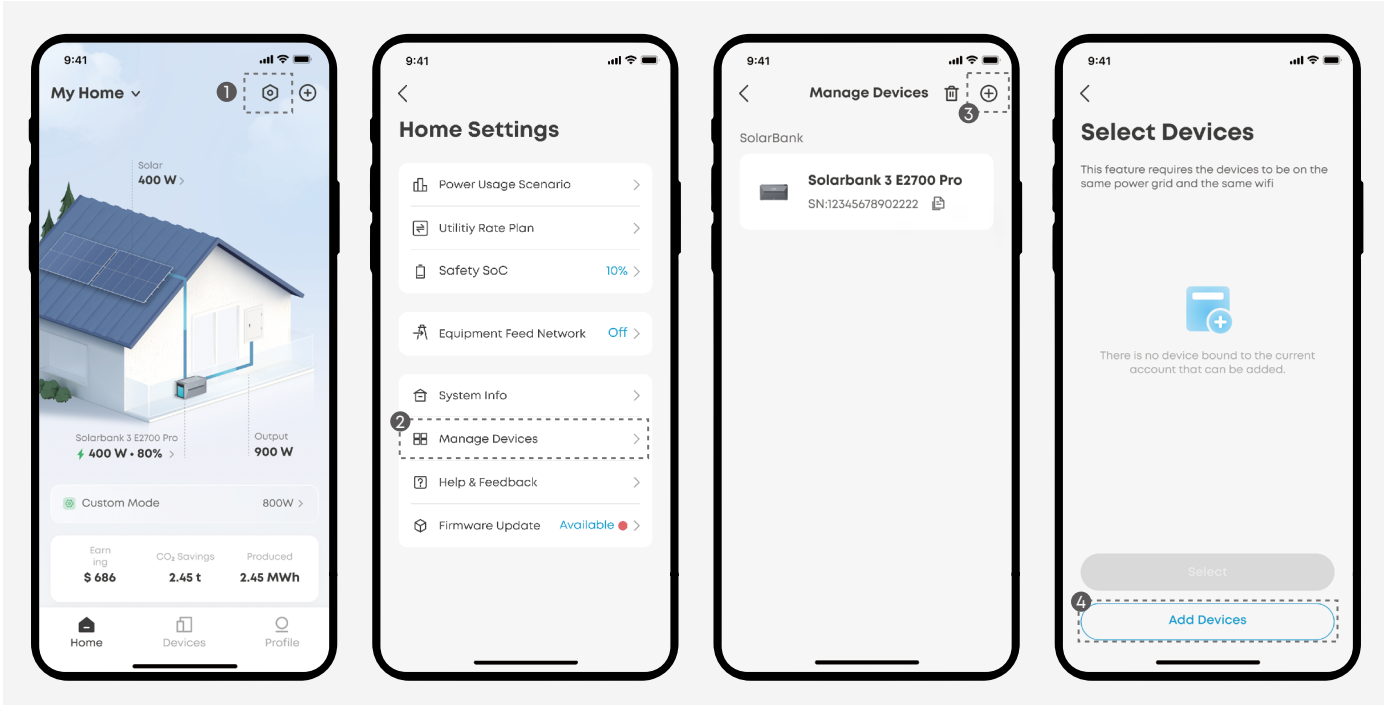
Currently, the P1 meter is compatible with **Anker SOLIX Solarbank 2 E1600 AC (A17C2)** and **Anker SOLIX Solarbank 3 E2700 Pro (A17C5)**. This list may be updated in the future.

To track energy flow, add the P1 meter to your Solarbank system in the Anker app.

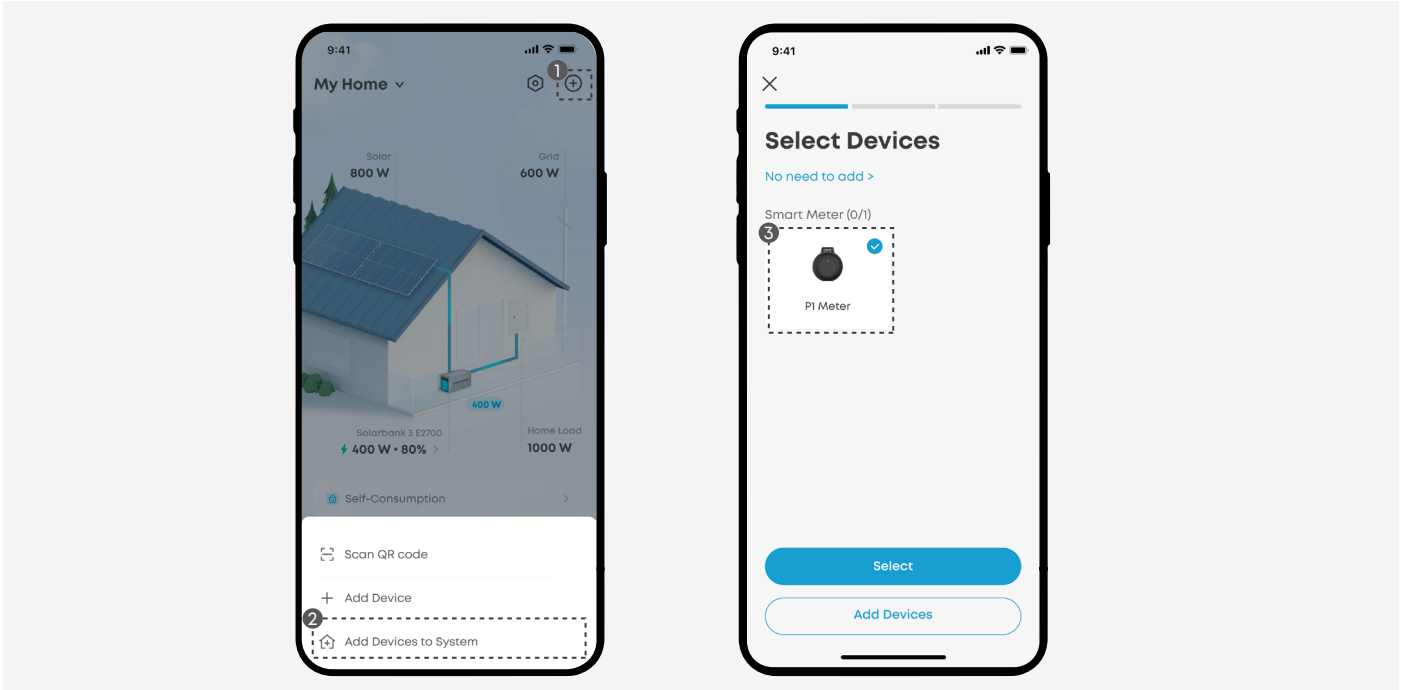
If Solarbank is Already Connected to App

Follow these steps to add the P1 meter when your Solarbank is already connected to the app.

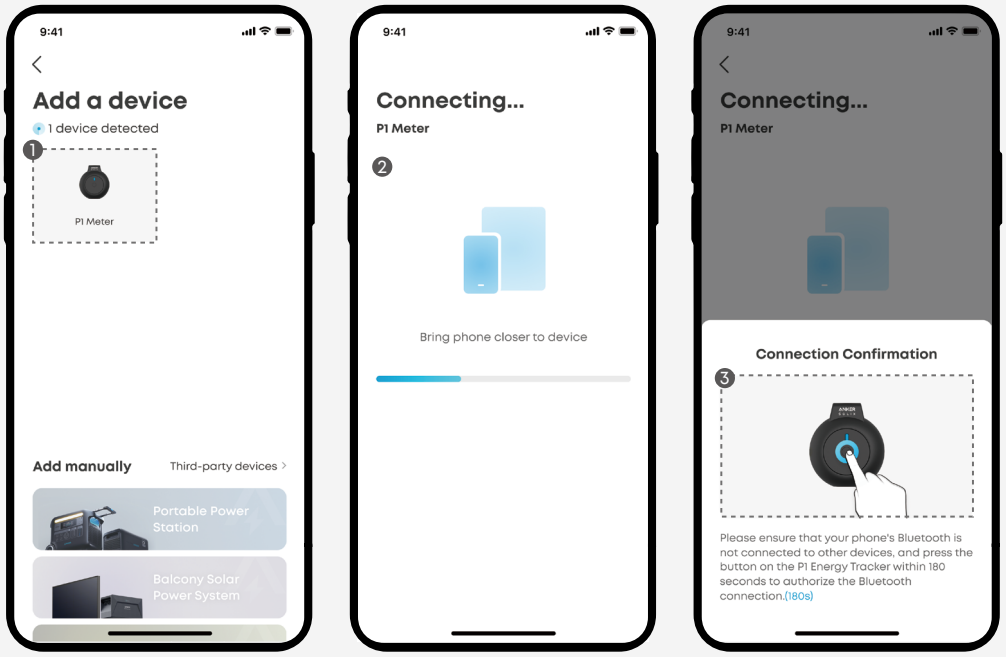
1. Open the Anker app. Navigate to **Settings** > **Manage Devices** > ⊕ > **Add Devices**.



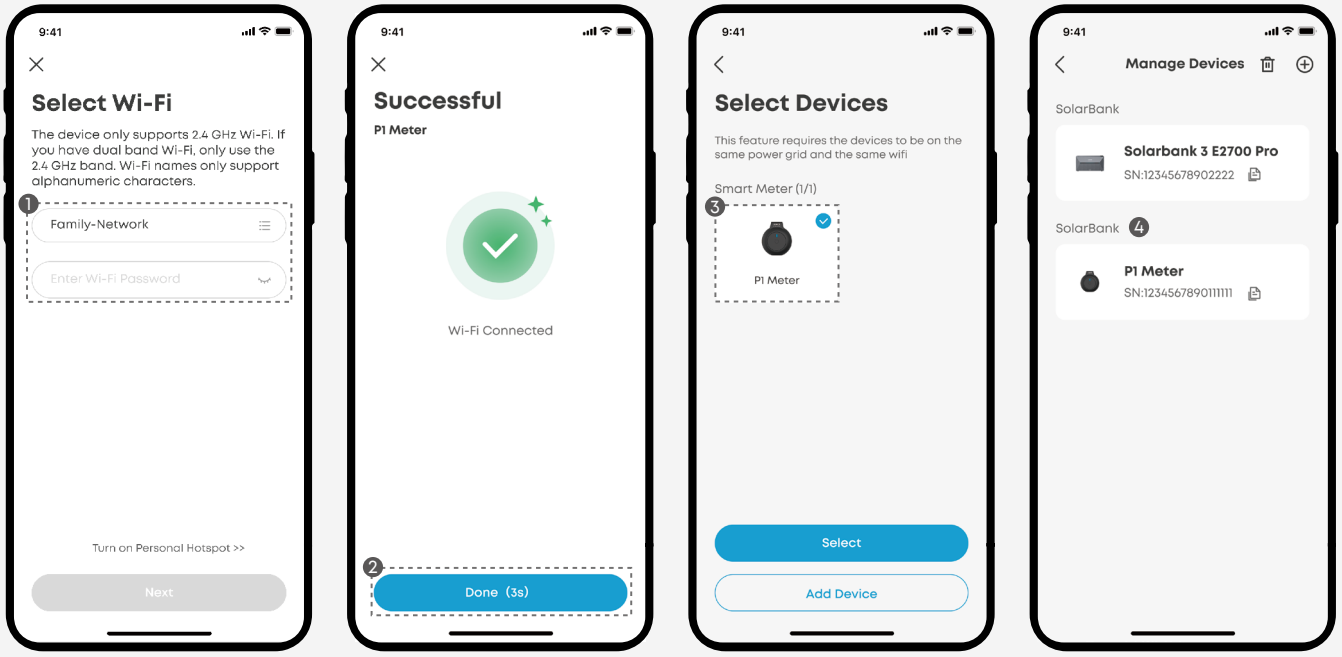
For App version 1.3.4 or later, simply tap ⊕ > **Add Devices to System** as shown below:



2. Complete Bluetooth pairing. Press the P1 meter's button to confirm Bluetooth connection.



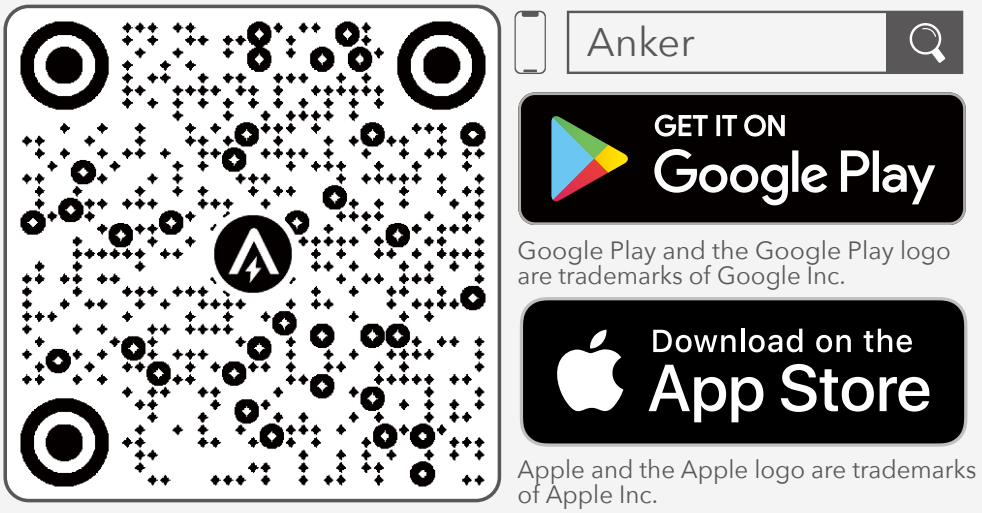
3. Complete Wi-Fi setup. The P1 Meter will be listed among your devices if added successfully.



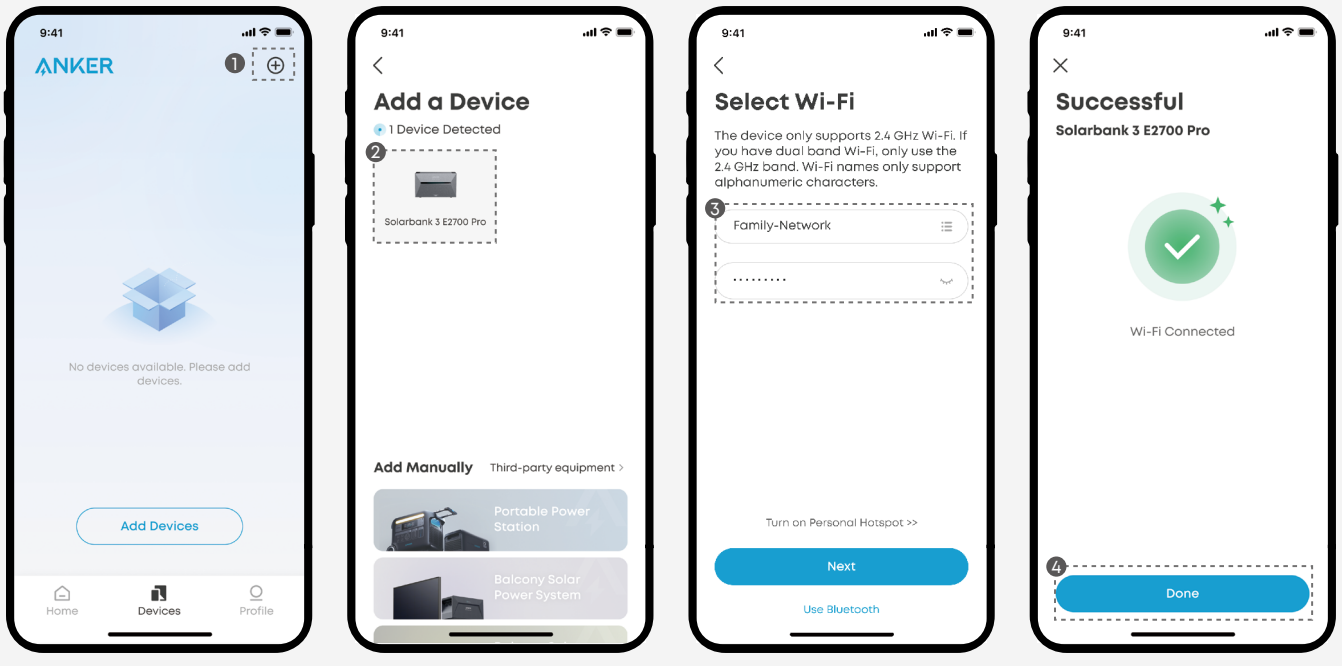
If Solarbank is Not Yet Connected to App

To connect both your Solarbank and P1 meter to the Anker app, follow the steps below.

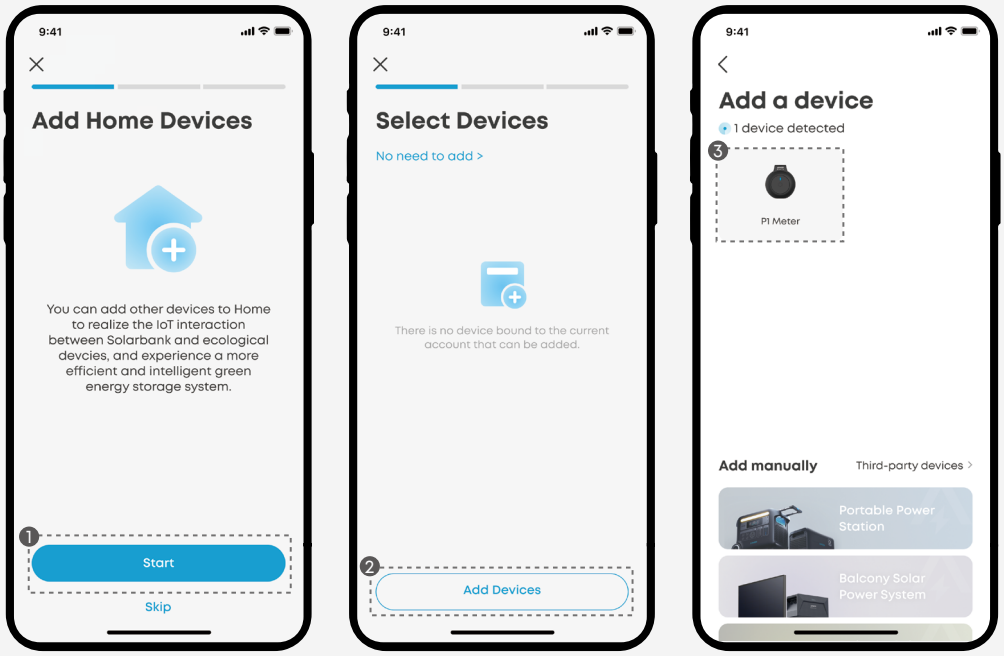
1. Download the Anker app from the App Store (iOS devices) or Google Play (Android devices), or by scanning the QR code. Sign in or create an account.

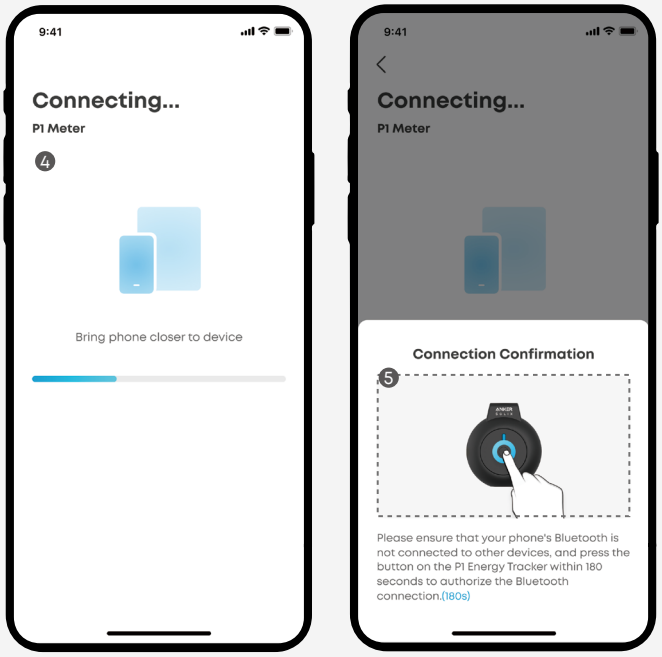


2. Add your Solarbank and connect it to Wi-Fi.

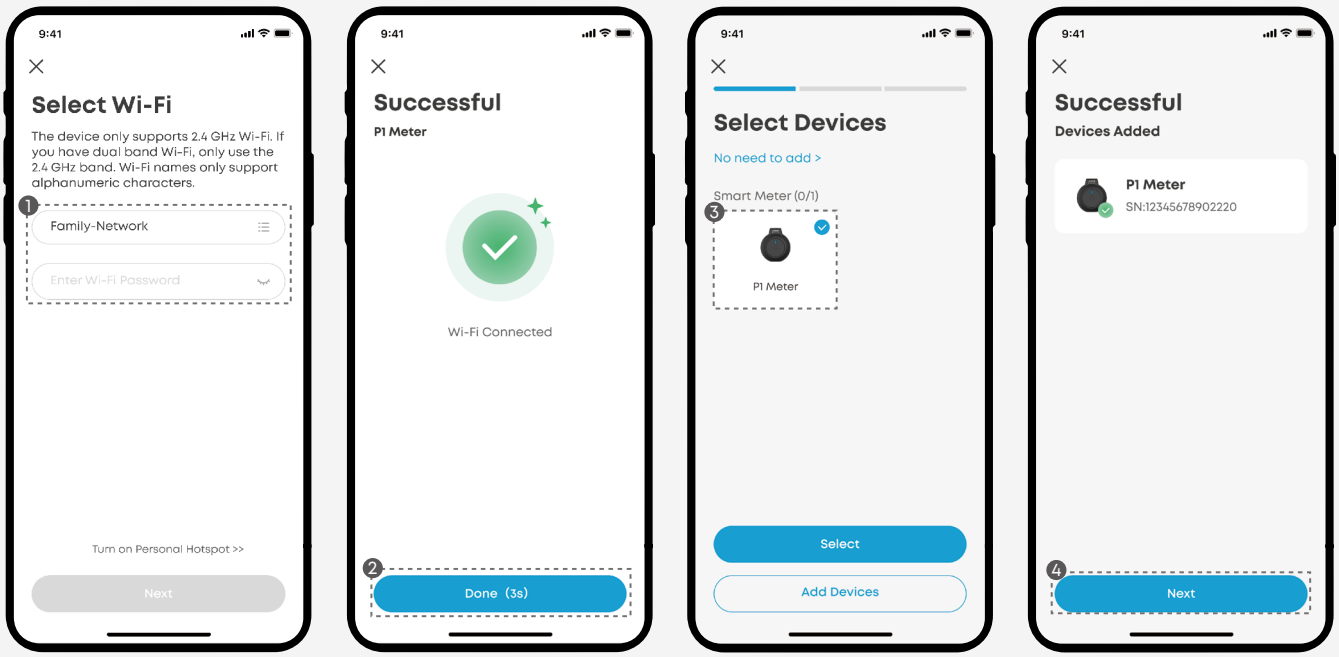


3. Pair the P1 meter via Bluetooth. Press the P1 meter's button to confirm Bluetooth connection.

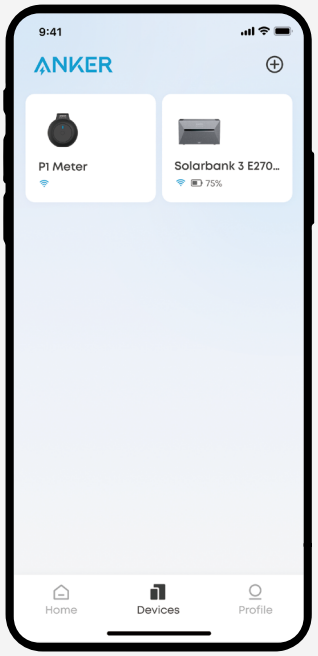




4. Connect the P1 meter to Wi-Fi.



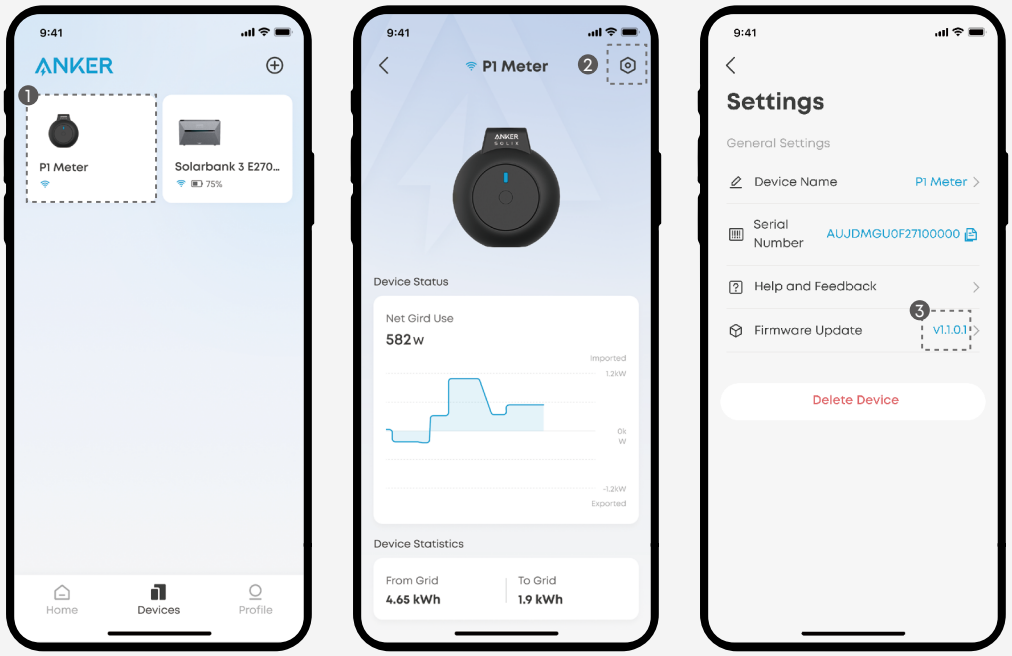
5. Follow on-screen instructions to set up your Solarbank. Once complete, both Solarbank and P1 meter will show in your device list.



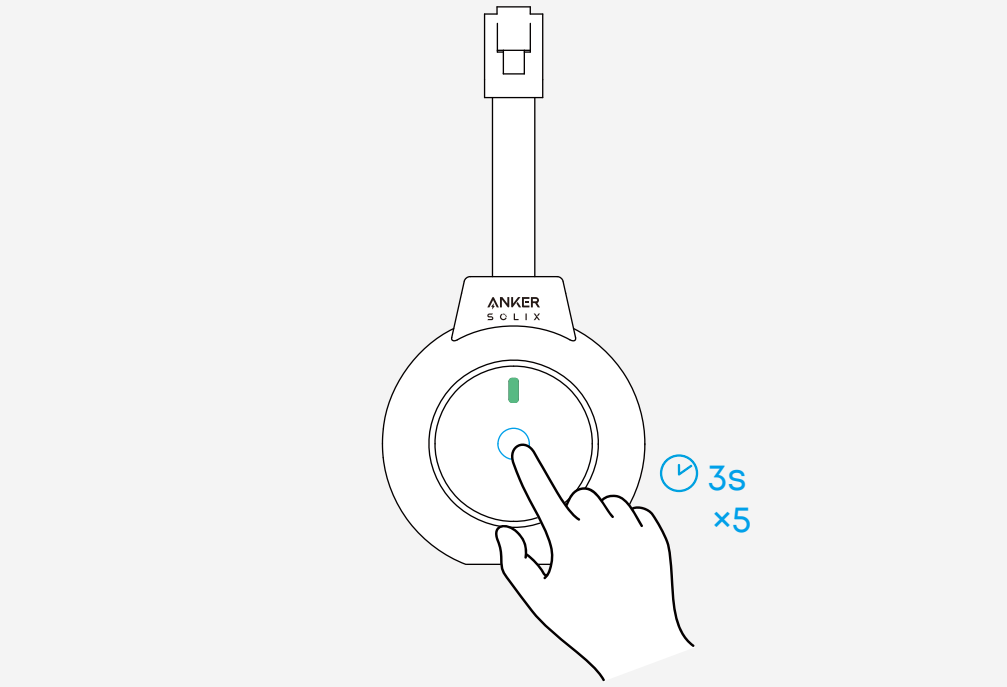
Update Firmware

To check the current firmware version, follow the steps below.

1. In the Anker app, go to **Devices** and select the P1 meter.
2. Tap the settings icon.
3. Check the current firmware version.



To update the firmware, quickly press the button five times within 3 seconds.
When the update is complete, the indicator light turns solid green for 5 seconds.



Specifications

Specifications are subject to change without notice.

Model	AE1R0
Power Consumption	1.5W Max 5V / 260 mA (Typical Value)
Data Frequency	Every Second (DSMR 5.0 Smart Meter) Every 10 Seconds (DSMR 4.0 Smart Meter)
Radio Frequency Band	2.4 to 2.5 GHz
Radio Frequency Power	< 20 dBm
Communication	Wi-Fi, Bluetooth 5.0
Wi-Fi Standard	802.11 b/g/n
Wi-Fi Range	Up to 30m Indoors Up to 50m Outdoors (Actual range may vary depending on environmental conditions.)
Ingress Protection	IP20 (Indoor Use Only)
Operating Temperature	-20°C to 55°C
Warranty	2 Years
Dimensions	43.4 × 20 × 92 mm
Net Weight	22g

Network Configuration Instructions

Bluetooth Low Energy (BLE) Status: When the equipment is not yet connected to a network, it will automatically enable BLE broadcasting and activate BLE services to provide Bluetooth network configuration capabilities.

Note: During the BLE configuration process, ensure your network environment is stable and follow the instructions to complete the setup.

Port 5353

The primary function of port 5353 (TCP/UDP 5353) in a network is to implement the mDNS protocol for mutual discovery between devices on the local area network (LAN).

Application Scenarios: Multi-device linkage, self-consumption scenarios, and energy scheduling strategies in the LAN.

Access the device via hostname.local on the same local area network without traditional DNS configuration.

mDNS Protocol Characteristics: Using UDP protocol, port 5353 is its standard port, compatible with the standard DNS query format.