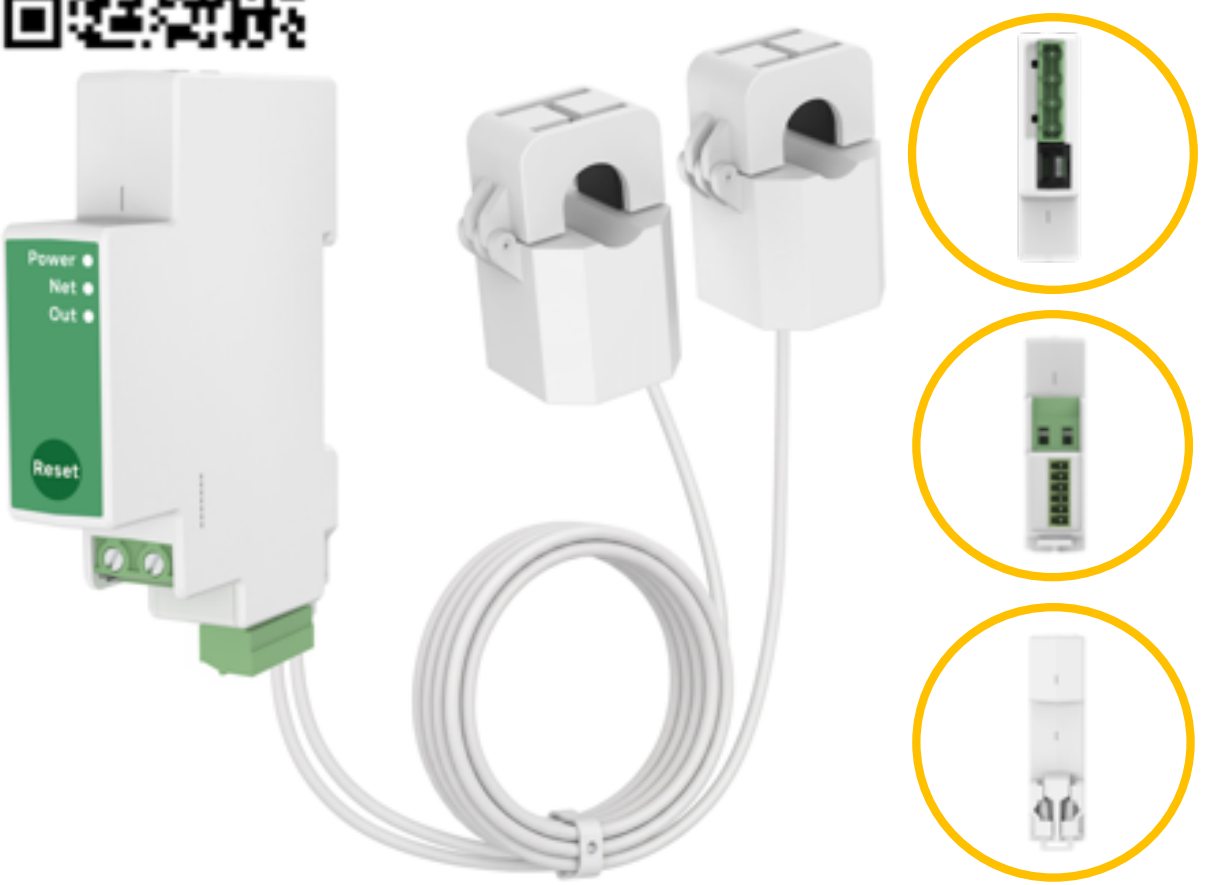
Smart Life App



Smart Energy Meter

UniClip Pro

PC4711-W-E-TY/R

Quick Start Guide

Safety Handling

WARNING: Failure to follow these safety notices could result in fire, electric shock, other injuries, or damage to the relay and other property. Read all the safety notices below before using the relay.

- Avoid high humidity or extreme temperatures.
- Avoid long exposure to direct sunlight or strong ultraviolet light.
- Do not drop or expose the unit to intense vibration.
- Do not disassemble or try to repair the unit yourself.
- Do not expose the unit or its accessories to flammable liquids, gases or other explosives.

1 Welcome



Smart energy meter UniClip Pro (PC4711-W-E-TY/R) helps you monitor the amount of electricity Consumed and Produced in your single-phase power system by connecting the clamps on to the power cables. It allows you to turn On/Off of relay and check real-time or historical energy data via mobile App.

Main Features:

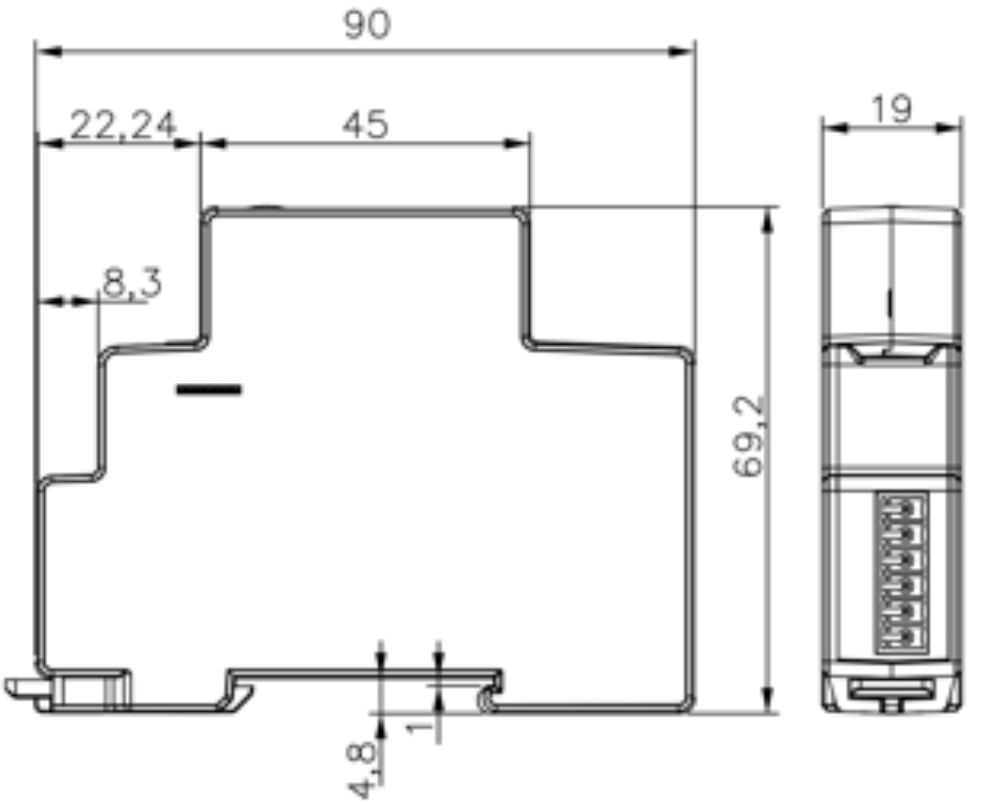
- TUYA compliant, supporting automation scenarios and HA platform integration
- Single-Phase electricity system suitable
- Remotely monitor a single-phase circuit/load, with 2 current transformers
- Wi-Fi communication, fast configuration, suitable for environments with inconvenient wiring.
- Ethernet communication, adapt to environments with poor wireless signals, and improve network stability
- Real-time Voltage, Current, PowerFactor, Frequency, ActivePower, ReactivePower, ApparentPower measurement
- Bidirectional measurement: Energy Usage / Solar Production
- Historical data could be displayed and exported in App
- Dry contact relay, resistive current rated 3A, max.5A, overload protection and relay setting
- Offline energy data storage function, automatically reporting data after network reconnection
- Functions such as Data Erasure, remote Reboot, CT Setting, etc

Technical Specifications

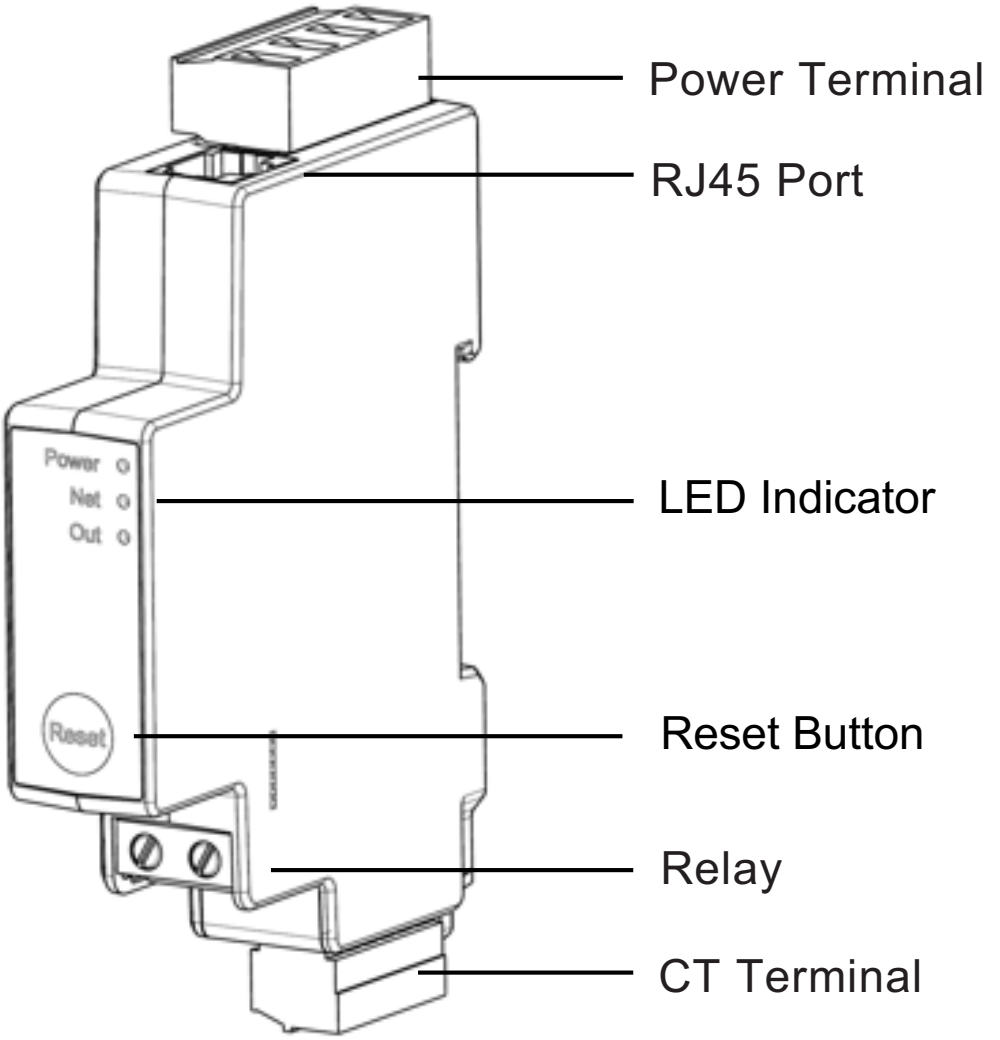
Connectivity	
Wi-Fi	• 802.11 b/g/n @2.4GHz
BLE	• For Pairing
Ethernet	• 10/100 Mbps

Physical Specifications	
Un	• 230V AC, 50/60Hz
Voltage Range	• 90-277 V
Supported Systems	• Single-Phase
Power Consumption	• < 2W
Voltmeters Accuracy	• ±1%
Ammeters Accuracy	• 80A CT: ±1% (1-80A) , ±2% (0-1A) • 120A CT: ±1% (2-120A) , ±2% (0-2A) • 200A CT: ±1% (2-200A) , ±2% (0-2A) • 300A CT: ±1% (6-300A) , ±2% (2-6A) , ±5% (0-2A)

Clamp Inner Dimension	• 80A (optional): Ø10mm • 120A(default): Ø16mm • 200A(optional): Ø20mm • 300A(optional): Ø24mm
Relay Type	• Dry contact relay, resistive current rated 3A, max. 5A
Reporting Cycle	• Energy data: every 15 seconds • Relay status: immediately
Operating Environment	• Temperature: -20℃ ~ +55℃ • Humidity: ≤ 90% non-condensing
Mount Type	• 35mm DIN rail mounting
Dimension	• 19 (W) x 69(D) x 90 (H) mm



2 Get to know your device



Reset Button

- Press 1 time to switch the relay On/Off (can be set in APP)
- Press 3 times quickly to reboot the device
- Press and hold for 5 sec to reset the network
- Press and hold for 10 sec to factory reset

LED Indication

LED	Behavior	Status
Power	On	Power Supply is connected
	Fast Blink 1 times	Ready to reboot
	Fast Blink 2 times	Ready to reset network
	Fast Blink 3 times	Ready to factory reset
Net	On	Connected TUYA Cloud
	Slow Blink	AP mode, wait for configuring
	Medium Blink	STA mode, but failed to connect router
	Fast Blink	STA mode, connected router, but failed to connect TUYA Cloud
Out	On	Relay in on
	Off	Relay is off

Note: Fast Blink: 200ms ON / 200ms OFF
Medium Blink: 500ms ON / 500ms OFF
Slow Blink: 1500ms ON / 1500ms OFF

3 Wiring

1) Before installation, please turn off the circuit breakers of the distribution box and make sure there is no voltage on their terminals.

2) Mount the main unit of energy meter onto the DIN rail.

3) According to the below wiring diagrams to install. Taking a single-phase Circuit+Load wiring as an example.

3.1 Use two power cords to connect the Power Terminal L/N in parallel to the L/N lines at the output of the circuit breaker respectively.

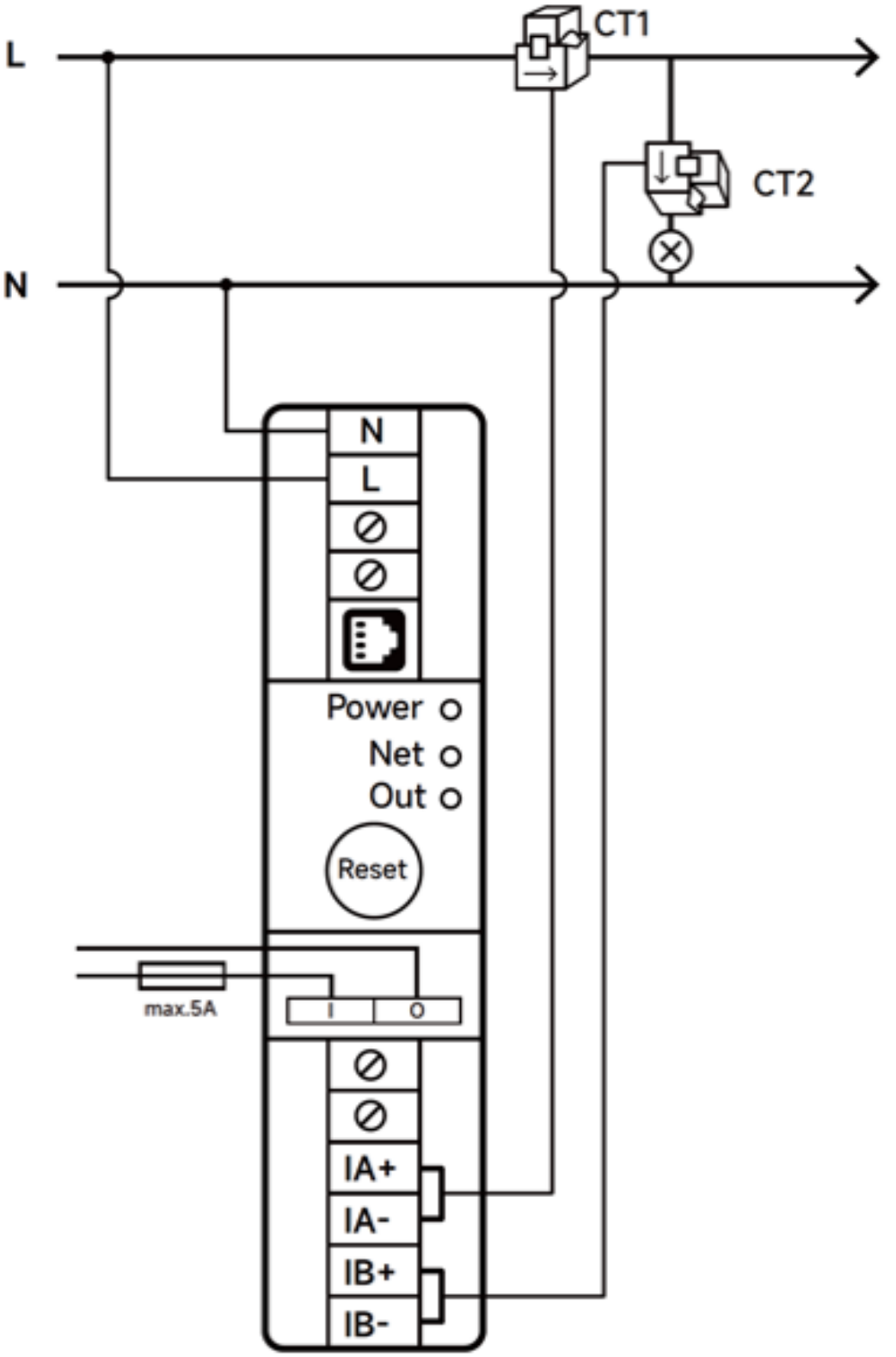
3.2 Plug the power cord of CT1 into the IA port of CT Terminal, connect the "+" wire to “IA+”, and connect the "-" wire to “IA-”. Similarly, connect CT2 to the IB port.

3.3 Place CT1 on the live wire of the main circuit breaker and CT2 on the live wire of a certain load, with the arrow pointing towards the load.

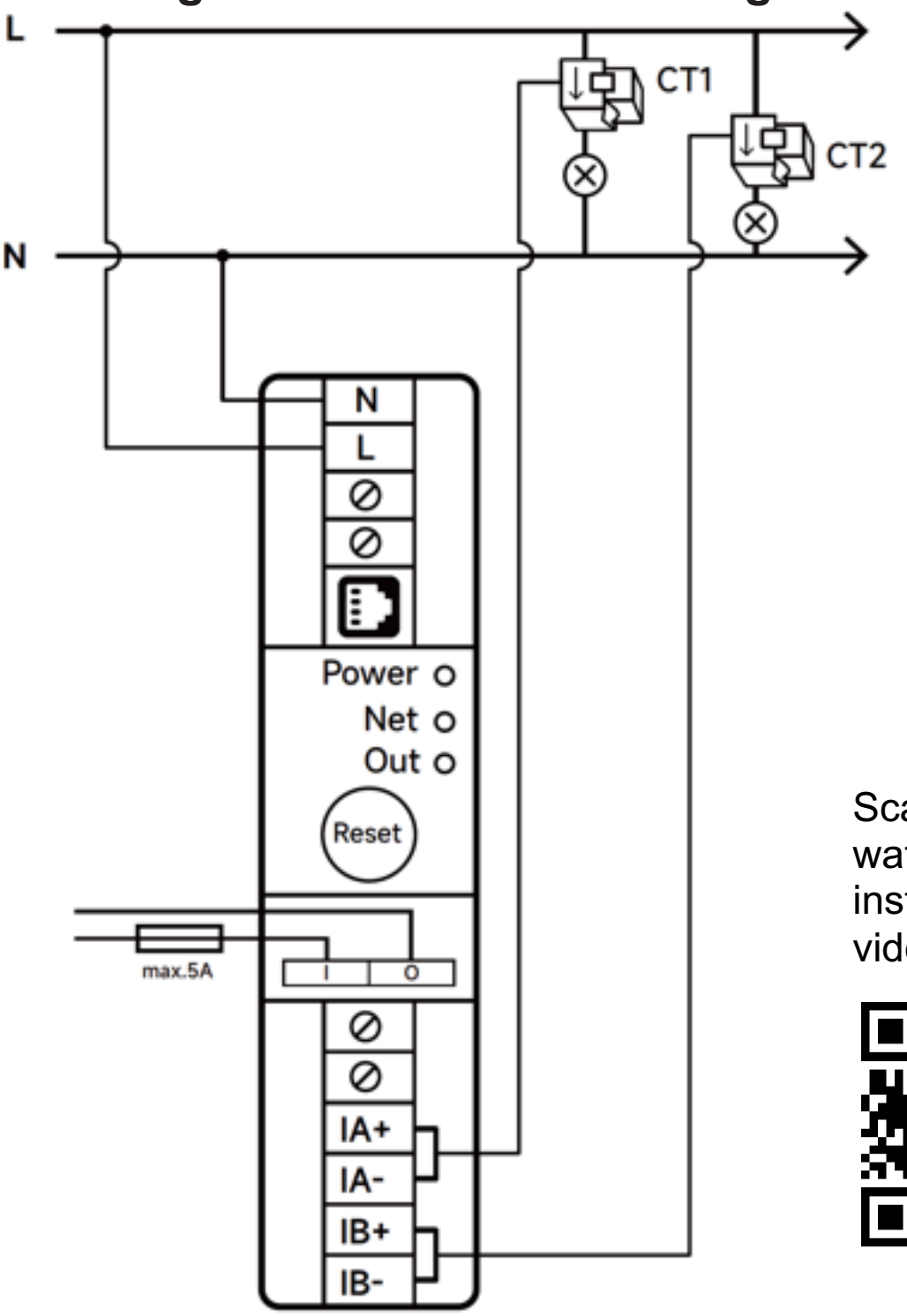
3.4 Insert the Power Terminal and CT Terminal into the corresponding positions on the main unit.

4) After confirming that all connections are correct, turn on the circuit breakers

Single-Phase Circuit+Load Wiring



Single-Phase 2 Loads Wiring



Scan code to watch the installation video

Note: Please ensure that the power supply wiring of the device and the corresponding CT measurement circuit are on the same phase

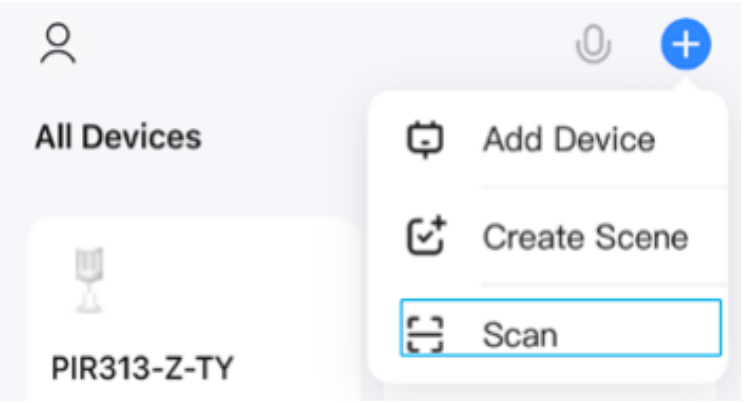
4 Configure Network

Download APP

Download the "Smart Life" app from the App Store. You can also scan the QR code below to download and install it.

Method 1:

1.Open Smart Life APP and click the “Scan” button in the upper right corner of the APP Home page.

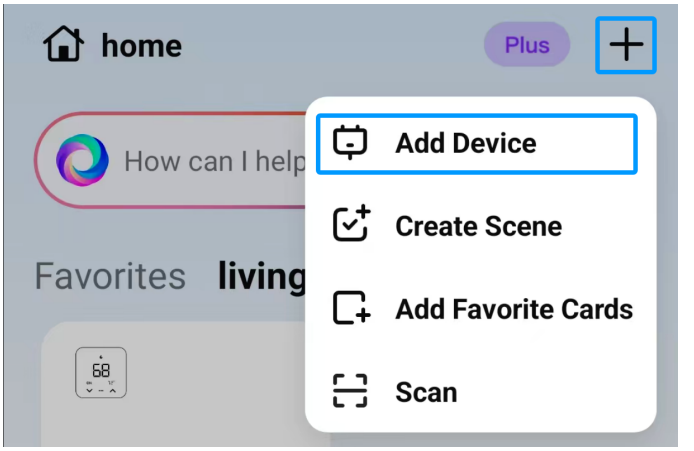


2.Scan the following QR code to configure the network

PC4711-W-E-TY/R

Method 2:

1. Turn on your phone's Bluetooth and open the "Smart Life" app. Then tap "Add Device" to enter the configuration page. The app will automatically scan for nearby devices.



3. Select the found device and tap to pair it with the network. If you are adding the device via Wi-Fi, you will need to enter the Wi-Fi name and password. If you are adding the device via Ethernet, you will need to plug in an Ethernet cable that can connect to the internet.

Note: Please make sure the Wi-Fi you are connecting is **2.4GH**z. If no device is detected, try to press and hold the **Reset** button for 5 seconds, ensuring the **Net** Led blinks slowly, then try again.