

Smart Life App



Scan code to watch the installation video



Single Phase



PC472-W-TY/R/N

Power Meter

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 power meter.

- 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.

Technical Specifications

Connectivity

Wi-Fi	• 802.11 b/g/n @2.4GHz
BLE	• For Pairing
RF Characteristics	• Operating frequency: 2.4GHz • Internal antenna

Physical Specifications

Operating Voltage	• 90~277 Vac 50/60 Hz
Supported Systems	• Single-Phase
Power Consumption	• <2W
Voltmeters Accuracy	• $\pm 1\%$
Ammeters Accuracy	• 20A CT: $\pm 1\%$ (1-20A) , $\pm 2\%$ (0-1A) • 80A CT: $\pm 1\%$ (1-80A) , $\pm 2\%$ (0-1A) • 120A CT: $\pm 1\%$ (2-120A) , $\pm 2\%$ (0-2A) • 200A CT: $\pm 1\%$ (2-200A) , $\pm 2\%$ (0-2A) • 300A CT: $\pm 1\%$ (6-300A) , $\pm 2\%$ (2-6A) • $\pm 5\%$ (0-2A)

Clamp Inner Dimension	• 20A (optional): Ø5mm • 80A (default): Ø10mm • 120A(optional): Ø16mm • 200A(optional): Ø20mm • 300A(optional): Ø24mm
Relay Type	• Dry contact relay, resistive current rated 10A, max.16A
Reporting Cycle	• Energy data: every 15 seconds • Relay status: immediately
Operating Environment	• Temperature: -20 °C~+55 °C • Humidity: ≤ 90% non-condensing
Mount Type	• 35mm DIN rail mounting
Dimension	• 35 (W) x 65(D) x 90 (H) mm



1 Welcome



PC472-W-TY/R/N helps you monitor the amount of electricity Consumed and Produced in your single-phase power system by connecting the clamp on to the power cable. It allows you to turn On/Off of relay and check real-time or historical energy data via mobile App.

This guide will provide you an overview of the product and help you to get through the initial setup.

Features:

- Tuya compliant. Support automation with other Tuya device
- Single-Phase electricity system Suitable
- Remotely monitor a single-phase circuit/load, with 2 current transformers
- Wireless communication via Wi-Fi 2.4GHz
- Real-time Voltage, Current, PowerFactor, ActivePower, Frequency, measurement
- Bidirectional measurement: Energy Usage / Solar Production
- Historical data can be displayed and exported in the App
- Dry contact relay, resistive current rated 10A, max.16A, overload protection and relay setting

2 **Wiring**

Please make sure the main breaker is off before installing!

1. Check the direction of CT

For Split Core CT: Open the clamp to see the arrow (P1→P2) or (K→L) or you can find it on the sticker on the outside of the clamp. This is the direction of CT. The CT support bi-directional sensing.



For Donut CT: The direction is from the concave surface of the CT to the flat surface. The CT support bi-directional sensing.

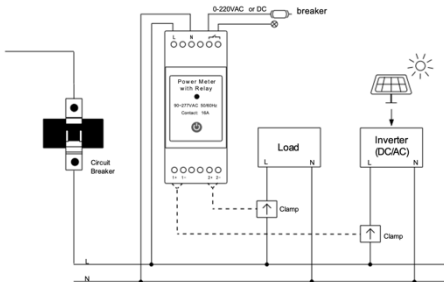


2. Connect AC Input cable to a socket near the Electrical Box to power on the PC472-W-TY/R/N according to the wiring diagram. And apply the CT on the electric cable and ensure the direction of CT is correct.

3. To measure energy consumption, the direction of the CT should be consistent with the direction of the electricity current flows. The power will be positive.

4. To measure energy production, the direction of the CT should be opposite to the direction of the electricity current flows. The power will be negative.

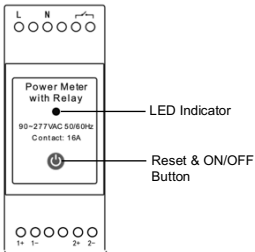
5. Please make sure the main power in your facility is off before installing. Follow the schematics below as an example to wire the Power Meter.



Single phase electricity wiring diagram

Note: When installing, please ensure that the circuit measured by CT is in the same phase as the circuit powered by PC472-W-TY/R/N.

3 Get to know your device



Reset Button

- **Reset.** Press and hold the reset button for 5 seconds until the LED indicator flashes Red 3 times quickly to clear the WiFi information (energy data will not be cleared). After that, the LED indicator will constantly blink and wait for pairing.

ON/OFF Button

- **On/Off.** Press once to switch the relay ON/OFF

LED Indicator

The LED status gives the following information of the Power Meter (without relay):

LED color	Status	Relay	Network
Green	Blinking	ON	Wait for pairing.
	Solid on		Device has connected with cloud.
Red	Blinking	OFF	Wait for pairing.
	Solid on		Device has connected with cloud.
Yellow / Green	Rapidly blinking alternately	ON	Device is connected to the router, but failed to connect to the cloud.
Yellow / Red		OFF	
Yellow / Green	Slowly blinking alternately	ON	Wi-Fi has been configured, but failed to connect to router.
Yellow / Red		OFF	

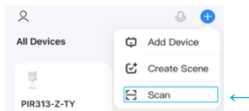
4 Configure Network

Download App

Please download the application: **Smart Life** from App Store or App Market. Also you can scan below QR code to download and install.



1. Open **Smart Life** app and click the 'Scan' button in the upper right corner of the App Home page.



2. Scan the corresponding QR code below to configure the network.

