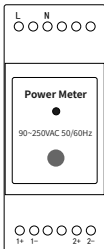


## Smart Life App



## PC472-W-TY Power Meter Series

**PDF** Quick Start Guide (PC472-W-TY & PC472-R-W-TY)



# 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

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## Wireless Connectivity

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|                           |                                  |
|---------------------------|----------------------------------|
| <b>Wi-Fi</b>              | • 802.11 B/G/N20/N40             |
| <b>BLE</b>                | • Bluetooth 5.2 Low Energy       |
| <b>RF Characteristics</b> | • Operating frequency:<br>2.4GHz |

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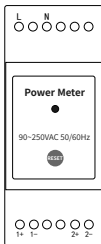
## Physical Specifications

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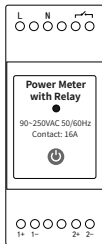
|                                     |                                                                                                                    |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Operating Voltage</b>            | • 90~250 Vac 50/60 Hz                                                                                              |
| <b>Calibrated Metering Accuracy</b> | • $\leq 100\text{W}$ ( Within $\pm 2\%$ )<br>• $>100\text{W}$ ( Within $\pm 2\%$ )                                 |
| <b>Max. Load Current</b>            | • 16A Dry contact (optional)                                                                                       |
| <b>Operating environment</b>        | • Temperature: $-20\text{ }^{\circ}\text{C} \sim +55^{\circ}\text{C}$<br>• Humidity:<br>$\leq 90\%$ non-condensing |
| <b>Dimensions</b>                   | • 90 (L) x 35(W) x 65 (H) mm                                                                                       |

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# 1 Welcome



(without relay)



(with relay)

PC472-W-TY helps you monitor the power consumption in your facility by connecting the clamp to the power cable. It can also measure Voltage, Current, PowerFactor, ActivePower. It allows you to control On/Off status (only for the model with relay) and check real-time energy data and historical usage 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 linkage with other Tuya devices
- Single phase system compatible
- Measures real-time Voltage, Current, PowerFactor, Active

### Power and frequency

- Support Energy Usage/Production measurement
- Usage/Production trends by hour, day, month
- Lightweight and easy to install
- Support Alexa, Google voice control
- 16A Dry contact output (optional)
- Configurable on/off schedule
- Overcurrent protection
- Power-on status 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.

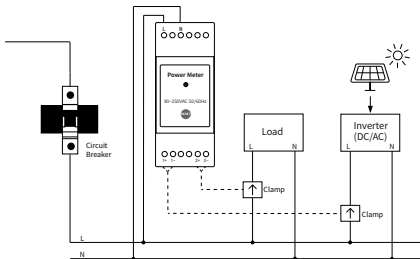


2. Connect AC Input cable to a socket near the Electrical Box to power on the PC472 according to the wiring diagram. And apply the CT on the electric cable and ensure the direction of CT is correct.

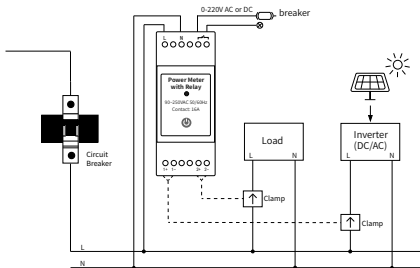
3. To measure energy consumption, the direction of the CT should be consistent with the direction of the electricity current flows. The power will be positive.

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.



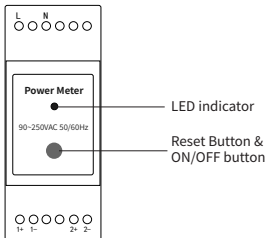
Single phase electricity wiring diagram (without relay)



Single phase electricity wiring diagram (with relay)

**Note:** Please select the corresponding wiring reference diagram based on the actual product purchased.

### 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 Power Meter ON/OFF (only work for devices with relay) .

## LED indicator

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

| LED color | Status                 | Network                                                                |
|-----------|------------------------|------------------------------------------------------------------------|
| Green     | Blinking               | Wait for pairing.                                                      |
|           | Solid on               | Device has connected with cloud.                                       |
| Red       | Blinking               | Wi-Fi has been configured, but failed to connect to router.            |
|           | Solid on               | Device is connected to the router, but failed to connect to the cloud. |
|           | Flash 3 times in a row | Clear network information                                              |

The LED status gives the following information of the Power Meter (with 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   |                                                                        |

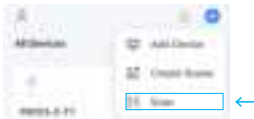
## 4 Configure Network

### 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.



(without relay)



(with relay)

## **5** FAQ

### **Overcurrent protection (with relay)**

Conditions:

1. When the continuous current exceeds 15% of the preset value (can be set on the App), the device will cut off the power supply to the load within 5 seconds.
2. When the continuous value detected by the device exceeds 50% of the rated current (Can be set on the App) within 1s, the device will cut off the power supply to the load.