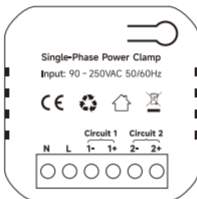


Smart Life App



PC311-W-TY

Power Clamp

Quick Start Guide

Technical Specifications

Wireless Connectivity

Wi-Fi	• 802.11 B/G/N20@2.4GHz
RF Characteristics	• Operating frequency: 2.4GHz • Internal antenna

Physical Specifications

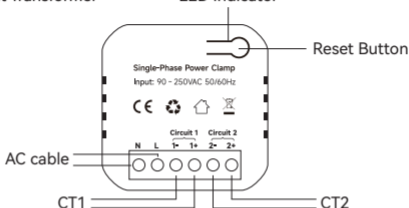
Operating Voltage	• 90~250 Vac 50/60 Hz
Calibrated Metering Accuracy	• $\leq 100W$ (Within $\pm 2W$) • $>100W$ (Within $\pm 2\%$)
Reporting Cycle	• Every 15 seconds
Operating environment	• Temperature: $-20\text{ }^{\circ}\text{C} \sim +55\text{ }^{\circ}\text{C}$ • Humidity: $\leq 90\%$ non-condensing
Dimension	• 51.6(L) x 23.3(W) x 46(H) mm

1

Get to know your device

CT: Current Transformer

LED indicator



The terminal corresponds to the color of the connected wire

N: Connect to Black wire of AC cable

L: Connect to Red wire of AC cable



1-: Connect to Black wire of CT1

1+: Connect to White wire of CT1

2-: Connect to Black wire of CT2

2+: Connect to White wire of CT2



Mounting bracket



Reset Button

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

Note: If you want to clear the energy data, please delete the device and wipe data on the app then add it again.

LED indicator

The LED status gives the following information of the power clamp:

LED Status	What it means
Green LED blinking	Wait for pairing
Green LED solid on	Device has connected with cloud.
Red LED solid on	Device is connected to the router, but failed to connect to the cloud.
Red LED blinking	Wi-Fi has been configured, but failed to connect to router.

Get started:

Please make sure the main main breaker is off before installing!

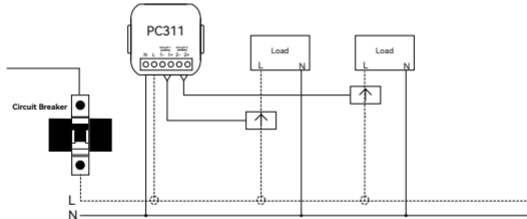
1. Open the clamp to see the arrow (P1→P2) or (K→L) or you can find it on the sticker on the outside of the clamp. This is the direction of CT. The CT support bi-directional sensing. If the direction of the CT is opposite to the direction of the current, the power will be negative.



2. Connect AC Input cable to a socket near the Electrical Box to power on the Power Clamp according to the wiring diagram. And apply the CT on the electric cable and ensure the direction of CT is correct when installing in different scenarios:

- **To measure energy consumption**

The arrow on the clamp should face to the correct direction of the electricity current flows like CT1 in the wiring diagram. In this case, the power will be positive, and the energy consumption will be accumulated.

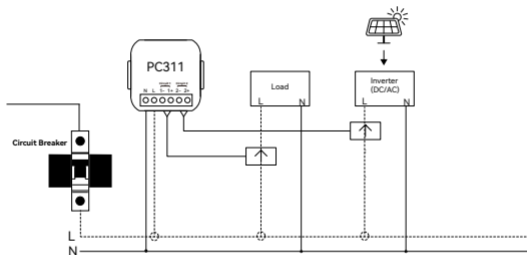


Wiring diagram

Note: When installing, please ensure that the circuit measured by CT is in the same phase as the circuit powered by PC311.

- **To measure energy generation**

The arrow on the clamp should face to inverter like CT2 in the wiring diagram. In this case, the direction of the current is opposite to that of the CT. The power will be negative, and the energy generation will be accumulated.

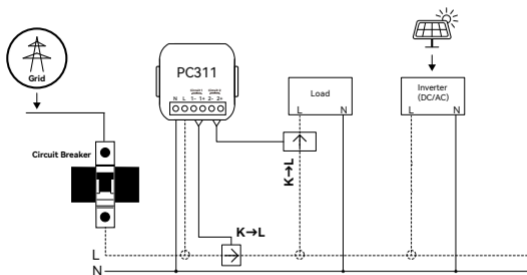


Wiring diagram

Note: When installing, please ensure that the circuit measured by CT is in the same phase as the circuit powered by PC311.

• To measure 'From Grid' or 'To Grid'

To monitor how much energy is pulling from and sending back from the grid, install the CT on the leads coming from your mains like the CT1 below. **Note:** When installing, please ensure that the circuit measured by CT is in the same phase as the circuit powered by PC311.



Wiring diagram

For CT1:

If the measured current direction is $K \rightarrow L$, the energy consumption is accumulated as 'From Grid' energy.

If the measured current direction is $L \rightarrow K$, the energy generation is accumulated as 'To Grid' energy.

2 Mounting

The Power Clamp has a mounting bracket for mounting purposes. You can choose the following two mounting methods:

- Use the mounting bracket as template to mark the two holes on the wall for installing screws. Screw the mounting bracket onto the wall according to marked location. Install wall plugs if necessary.
- Sliding the mounting bracket through one end of the Din-Rail if you want to fix on the Din-Rail.

After the bracket is installed, snap the Power Clamp onto the bracket.



3

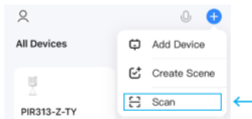
Configure Network

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 following QR code to configure the network.



FCC Warning Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause

harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.