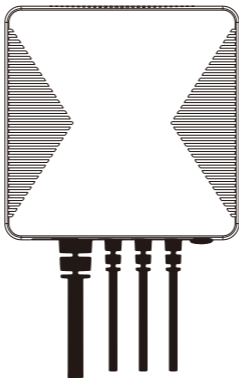


Smart Life App



**PC321-Z-TY**

**Single/3-phase Power Clamp**

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Quick Start Guide

# Safety Handling

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

- 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 on your own.
- 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>ZigBee</b>	<ul style="list-style-type: none"><li>• 2.4GHz IEEE 802.15.4</li></ul>
<b>ZigBee Profile</b>	<ul style="list-style-type: none"><li>• ZigBee 3.0</li></ul>
<b>RF Characteristics</b>	<ul style="list-style-type: none"><li>• Operating frequency: 2.4GHz</li><li>• External antenna</li><li>• Output Power: Up to +20dBm</li></ul>

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## Physical Specifications

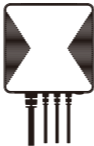
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<b>Operating Voltage</b>	<ul style="list-style-type: none"><li>• 100~240 Vac 50/60 Hz</li></ul>
<b>Calibrated Metering Accuracy</b>	<ul style="list-style-type: none"><li>• <math>\leq 100W</math> ( Within <math>\pm 2W</math> )</li><li>• <math>&gt;100W</math> ( Within <math>\pm 2\%</math> )</li></ul>
<b>Operating environment</b>	<ul style="list-style-type: none"><li>• Temperature: <math>-20\text{ }^{\circ}\text{C} \sim +55\text{ }^{\circ}\text{C}</math></li><li>• Humidity: <math>\leq 90\%</math> non-condensing</li></ul>
<b>Dimension</b>	<ul style="list-style-type: none"><li>• 86(L) x 86(W) x 37(H) mm</li></ul>

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# 1

## Welcome



PC321-Z-TY Power Clamp helps you monitor the amount of electricity usage in your facility by connecting the clamp on to the power cable. It can also measure Voltage, Current, ActivePower.

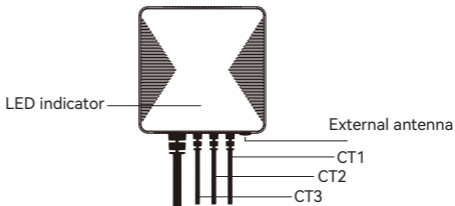
This guide will provide you with an overview of the product and help you get through the initial setup to installation.

### Features:

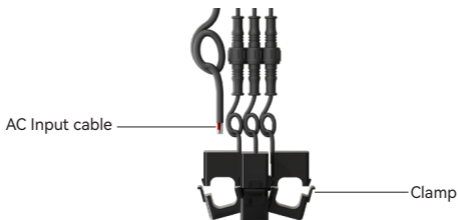
- Tuya compliant
- Support Tap-to-Run and automation with other Tuya device
- Single/3 - phase electricity compatible
- Three current transformers for Single phase application
- Measures real-time Voltage, Current, ActivePower and total energy consumption
- Suitable for both residential and commercial application
- Lightweight and easy to install
- External antenna prevents signal from being shielded

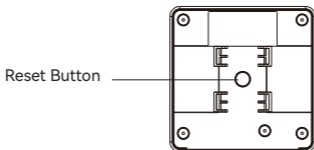
## 2

# Get to know your device



CT: Current Transformer Cable





## Reset Button

- **Reset.** Press and hold the reset button for 5 seconds until the Red LED indicator flashes to restore the power clamp to default factory settings (energy data will not be cleared).
- **Clear Energy Data.** Reset the Power Clamps twice consecutively. The interval between two resets must be less than 10S. After successful operation, the indicator light will flash alternately red and green 3 times.

## LED indicator

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

LED Status	What it means
Red LED flashing	Device has not joined a ZigBee network.
No light	Device has joined a ZigBee network.
Green LED flashes 3 times	

# 3

## Installation

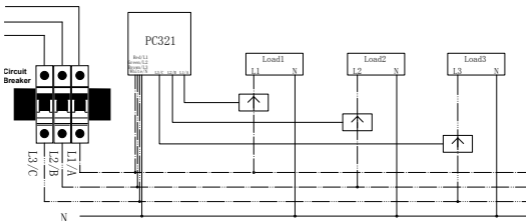
### Important safety information!

- The power clamp must be installed and serviced only by a qualified electrical personnel.
- Do not touch the terminals of the device during testing.
- Turn off all the power supply for this equipment before installing.
- Make sure that the power supply is off before connecting or disconnecting it to an auxiliary device.
- Always use a properly rated voltage sensing device to confirm power is off.
- Replace all devices, doors and covers before applying power to the equipment.

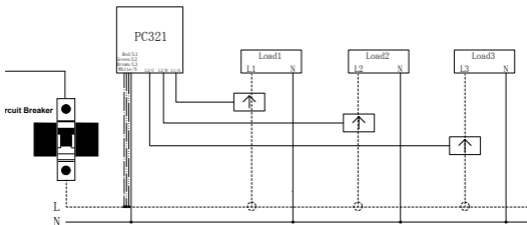
**Failure to follow these instructions will result in death or serious injury.**

Get started:

Please make sure the main power in your facility is off before installing. Follow the schematics below as an example to wire the Power Clamp for different phase.



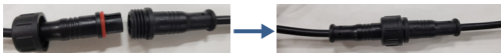
**3 Phase electricity wiring diagram**



**Single Phase electricity wiring diagram**

Follow the steps below:

1. Connect AC Input cable to a socket near the Electrical Box to power on the Power Clamp according to the corresponding phase wiring diagram.
2. Attach both ends of the Current Transformer Cables first like the picture shown below. Then spinning the waterproof latch clockwise until both ends have been tightened and secured.



3. Open the clamp as shown below. Apply it on the electric meter cable. The arrow on the clamp should face to the correct direction of the electricity current flows (P1→P2). If the arrow faces the reverse direction, the reading meter will display 0.



Tips about the clamp:

- Cable diameter does not affect usage as long as the cable can pass through the clamp hole.
- The meter has three clamps which can be applied to cable devices for separate measurement. If applied to the same cable, all clamps will produce the same reading.

## 4

# Configure Network

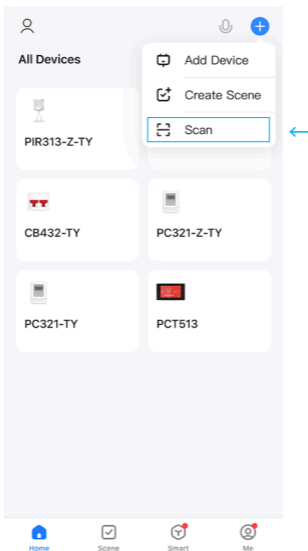
### Download App

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



## Method 1:

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

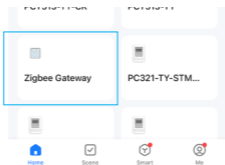


2. Scan the following QR code to configure the network.

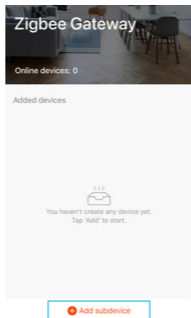


## Method 2:

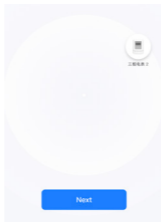
1. Make sure your Tuya ZigBee gateway has successfully connected to your **Smart Life** App, and ensure the power clamp is within the signal range of your Tuya ZigBee Gateway.



2. Power on the power clamp and make sure the LED indicator is flashing Red. If not, please reset it.
3. Enter your ZigBee gateway and set your gateway to permit joining to add subdevice in **Smart Life App**.



4. After few seconds the power clamp will join the gateway automatically. After adding successfully, you can see the new power clamp in **Smart Life App**. Please Tap 'Next' to complete the process.



# 5

## Mounting

The Power Clamp has a mounting bracket for mounting purposes.

1. Use the mounting bracket as template to mark the two holes on the wall for installing screws.
2. Screw the mounting bracket onto the wall according to marked location. Install wall plugs if necessary.
3. Locate the hooks of the mounting bracket and line up the hooks with the mounting holes on the Power Clamp. Fit the hooks into the mounting holes as the picture below. Installation is now completed.

