

PC321-W Single/3-phase Power Clamp

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

Wireless Connectivity		
Wi-Fi	• 802.11 B/G/N20/N40	
BLE	Bluetooth 4.2 Low Energy	
RF Characteristics	Operating frequency: 2.4GHz	
	 External antenna 	
	Output Power: Up to +20dBm	
Physical Specifications		
Operating Voltage	• 90~277 Vac 50/60 Hz	
Calibrated Metering Accuracy	• ≤ 100W (Within ±2W)	
	 >100W (Within ±2%) 	
CT Provided	CT 80A (default)	
	• CT 120A/200A/300A/500A/750A	
	(optional)	
Operating environment	 Temperature: -20 °C~ +55 °C 	
	 Humidity: ≤ 90% non-condensing 	
Dimension	• 86(L) x 86(W) x 37(H) mm	

1 Welcome



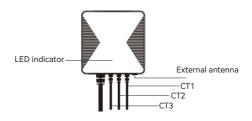
PC-321-W Power Clamp helps you monitor the amount of electricity usage in your facility by connecting the clamp on to the power cable. It can also measure Voltage, Current, PowerFactor, ActivePower.

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

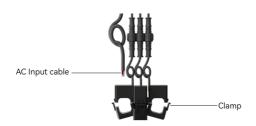
Features:

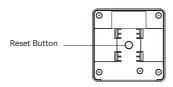
- · Single/3 phase electricity compatible
- Three current transformers for Single phase application
- Measures real-time Voltage, Current, PowerFactor, ActivePower and total energy consumption
- · Measure the current temperature of the device
- · Suitable for both residential and commercial application
- · Lightweight and easy to install

2 Get to know your device



CT: Current Transformer Cable





Reset Button

• Reset. Press and hold the reset button for 5 seconds until the LED indicator flashes red 3 times quickly to reset network setting. And it will turn to network config mode.

LED indicator

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

	•	
LE	D Status	What it means
Green	Flash Quickly	Device is under network config mode
	Alaway-on	Device has connected to cloud server
Red	Flash Rapidly	Device's network setting has been cleared
	for three time	
	Flash Quickly	Device is trying to connect to the Wi-Fi
		router
	Alaway-on	Device is trying to conncet to cloud server

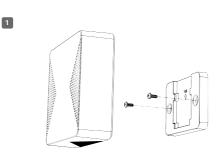
Note:

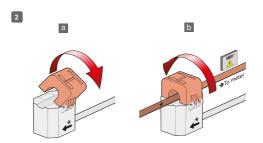
Flash Quickly: The indicator flashes at 500ms intervals Flash Rapidly: The indicator flashes at 100ms intervals

3 Installaion

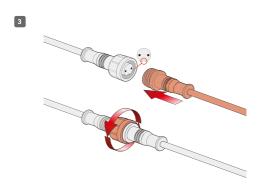
Important safety information!

- 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.
- Please make sure the main power in your facility is off before installing!
 Failure to follow these instructions will result in death or serious injury.





* Mind the correct mounting direction

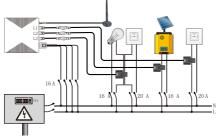


4 Wiring

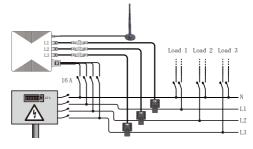


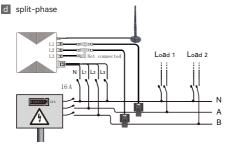
a single-phase, three circuits











Note: The circuit measured by each CT is the same phase as the power supply of that CT. For example, the circuit measured by the CT of L1 is in the same phase as the power supply of L1. Just like the wiring diagram. You cannot clamp the the CT of L1 on the L2 phase, and the power supply of L1 is still connected to the L1 phase.