

## Products

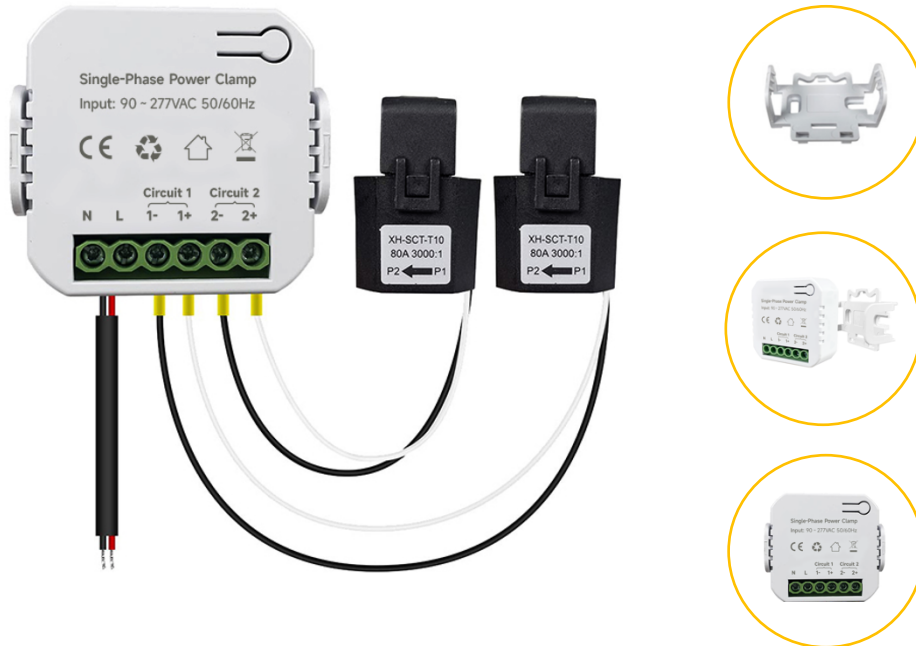
### – Energy Control & Management

PC311-W  
-TY/N

Single-Phase Power Clamp

WiFi

tuya



## Description

PC311-W-TY/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.

## Main 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

## Main Specifications

Connectivity	
Wi-Fi	<ul style="list-style-type: none"> <li>• 802.11 b/g/n @2.4GHz</li> </ul>
BLE	<ul style="list-style-type: none"> <li>• For Pairing</li> </ul>
RF Characteristics	<ul style="list-style-type: none"> <li>• Operating frequency: 2.4GHz</li> <li>• Internal antenna</li> </ul>
Physical Specifications	
Operating Voltage	<ul style="list-style-type: none"> <li>• 90~277 Vac 50/60Hz</li> </ul>
Supported Systems	<ul style="list-style-type: none"> <li>• Single-Phase</li> </ul>
Power Consumption	<ul style="list-style-type: none"> <li>• &lt;2W</li> </ul>
Voltmeters Accuracy	<ul style="list-style-type: none"> <li>• <math>\pm 1\%</math></li> </ul>
Ammeters Accuracy	<ul style="list-style-type: none"> <li>• 20A CT: <math>\pm 1\%</math> ( 1-20A ) , <math>\pm 2\%</math> ( 0-1A )</li> <li>• 80A CT: <math>\pm 1\%</math> ( 1-80A ) , <math>\pm 2\%</math> ( 0-1A )</li> <li>• 120A CT: <math>\pm 1\%</math> ( 2-120A ) , <math>\pm 2\%</math> ( 0-2A )</li> <li>• 200A CT: <math>\pm 1\%</math> ( 2-200A ) , <math>\pm 2\%</math> ( 0-2A )</li> <li>• 300A CT: <math>\pm 1\%</math> ( 6-300A ) , <math>\pm 2\%</math> ( 2-6A ) , <math>\pm 5\%</math> ( 0-2A )</li> </ul>
Clamp Inner Dimension	<ul style="list-style-type: none"> <li>• 20A (optional): <math>\varnothing 5\text{mm}</math></li> <li>• 80A (default): <math>\varnothing 10\text{mm}</math></li> <li>• 120A(optional): <math>\varnothing 16\text{mm}</math></li> <li>• 200A(optional): <math>\varnothing 20\text{mm}</math></li> <li>• 300A(optional): <math>\varnothing 24\text{mm}</math></li> </ul>
Reporting Cycle	<ul style="list-style-type: none"> <li>• Every 15 seconds</li> </ul>
Operating Environment	<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>
Mount Type	<ul style="list-style-type: none"> <li>• Sticker</li> <li>• DIN rail Bracket</li> </ul>
Dimension	<ul style="list-style-type: none"> <li>• 52(W) x 23(D) x 46(H)mm</li> </ul>
Certification	<ul style="list-style-type: none"> <li>• CE</li> <li>• FCC</li> </ul>

## Dimension

