

## Products

### – Energy Control & Management

PC311-W  
-TY/R/N

Power Meter with Relay

WiFi

tuya



## Description

PC311-W-TY/R/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. It allows you to turn On/Off of relay and check real-time or historical energy data via mobile App.

## Main Features

- Tuya compliant. Support automation with other Tuya device
- Single-Phase electricity system Suitable
- Remotely monitor a single-phase circuit/load, with 1 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
- Max.16A dry contact relay, overload protection and relay setting

## 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>   |
| Relay Type              | <ul style="list-style-type: none"> <li>• Max.16A dry contact relay</li> </ul>  |
| Reporting Cycle         | <ul style="list-style-type: none"> <li>• Energy data: every 15 seconds</li> <li>• Relay status: immediately</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

