

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, supporting automation scenarios and HA platform integration
- Single-Phase electricity system suitable
- Remotely monitor a single-phase circuit, with 1 current transformers
- Wi-Fi communication, fast configuration, suitable for environments with inconvenient wiring
- Real-time Voltage, Current, PowerFactor, ActivePower, Frequency, measurement
- Bidirectional measurement: Energy Usage / Solar Production
- Historical data can be displayed and exported in the App
- Dry contact relay, resistive current rated 10A, max.16A, overload protection and relay setting

Main Specifications

Connectivity	
Wi-Fi	• 802.11 b/g/n @2.4GHz
BLE	• For Pairing
RF Characteristics	• Operating frequency: 2.4GHz • Internal antenna
Physical Specifications	
Un	• 230V AC, 50/60Hz
Voltage Range	• 90-277 V
Supported Systems	• Single-Phase
Power Consumption	• <2W
Voltmeters Accuracy	• $\pm 1\%$
Ammeters Accuracy	• 20A CT: $\pm 1\%$ (1-20A) , $\pm 2\%$ (0-1A) • 80A CT: $\pm 1\%$ (1-80A) , $\pm 2\%$ (0-1A) • 120A CT: $\pm 1\%$ (2-120A) , $\pm 2\%$ (0-2A) • 200A CT: $\pm 1\%$ (2-200A) , $\pm 2\%$ (0-2A) • 300A CT: $\pm 1\%$ (6-300A) , $\pm 2\%$ (2-6A) , $\pm 5\%$ (0-2A)
Clamp Inner Dimension	• 20A (optional): $\varnothing 5\text{mm}$ • 80A (default): $\varnothing 10\text{mm}$ • 120A(optional): $\varnothing 16\text{mm}$ • 200A(optional): $\varnothing 20\text{mm}$ • 300A(optional): $\varnothing 24\text{mm}$
Relay Type	• Dry contact relay, resistive current rated 10A, max.16A
Reporting Cycle	• Energy data: every 15 seconds • Relay status: immediately
Operating Environment	• Temperature: $-20\text{ }^{\circ}\text{C} \sim +55\text{ }^{\circ}\text{C}$ • Humidity: $\leq 90\%$ non-condensing
Mount Type	• Sticker • DIN rail Bracket
Dimension	• 52(W) x 23(D) x 46(H)mm
Certification	• CE • FCC

Dimension

