

Products

– Energy Control & Management

PC321-W
/3W

Single/3-Phase Power Clamp



Description

PC321-W/3W helps you monitor the amount of electricity Consumed and Produced in your three-phase power system by connecting the clamps on to the power cables. It is also compatible with split-phase and single-phase. The real-time data can be reported directly to your cloud server without going through a third-party public cloud.

Main Features

- Supports Wi-Fi 2.4GHz wireless communication, MQTT API provided.
- External magnetic antenna can avoid shielding of wireless signals by metal distribution boxes
- Three-Phase(included 3P3W), Split-Phase and Single-Phase electricity system compatible
- Remotely monitor whole home Energy with three current transformers
- Real-time Voltage, Current, PowerFactor, Frequency, ActivePower, measurement
- Bidirectional measurement: Energy Usage / Solar Production

Main Specifications

Connectivity	
Wi-Fi	• 802.11 b/g/n @2.4GHz
BLE	• For Pairing
RF Characteristics	• Operating frequency: 2.4GHz • External magnetic antenna
Physical Specifications	
Operating Voltage (RMS for each phase)	• L-N : 90~277 Vac 50/60Hz • L-L : 156~480 Vac 50/60Hz
Supported Systems	• Single-Phase • Split-Phase • Three-Phase (included 3-Phase, 3-Wire)
Power Consumption	• <2W
Voltmeters Accuracy	• $\pm 1\%$
Ammeters Accuracy	• 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) • 500A CT: $\pm 1\%$ (6-500A) , $\pm 2\%$ (2-6A) , $\pm 5\%$ (0-2A) • 750A CT: $\pm 1\%$ (6-750A) , $\pm 2\%$ (2-6A) , $\pm 5\%$ (0-2A)
Clamp Inner Dimension	• 80A (default): $\varnothing 10\text{mm}$ • 120A(optional): $\varnothing 16\text{mm}$ • 200A(optional): $\varnothing 20\text{mm}$ • 300A(optional): $\varnothing 24\text{mm}$ • 500A(optional): $\varnothing 36\text{mm}$ • 750A(optional): $\varnothing 51\text{mm}$
Reporting Cycle	• 10s (default, can be set in integration)
Operating Environment	• Temperature: $-20\text{ }^{\circ}\text{C} \sim +55\text{ }^{\circ}\text{C}$ • Humidity: $\leq 90\%$ non-condensing
Mount Type	• Wall mounting (default) • DIN rail mounting (optional)
Dimension	• 86(W) x 37(D) x 86(H)mm
Certification	• CE