

Products

– Energy Control & Management

PC4713-W
-485

Smart Energy Meter



Description

PC4713-W-485 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 or be read locally without going through a third-party public cloud.

Main Features

- Supports both Wi-Fi wireless communication and RS485 wired communication
- Three-Phase, Split-Phase and Single-Phase electricity system compatible
- Remotely monitor whole home Energy with three current transformers
- Real-time Voltage, Current, PowerFactor, Frequency, ActivePower, ReactivePower, ApparentPower measurement
- Bidirectional measurement: Energy Usage / Solar Production
- Wi-Fi communication supports HTTP, MQTT, Modbus TCP protocols
- RS485 communication supports Modbus RTU protocol
- No requirement of APP, you could directly connect to device' s hotspot and view real-time data through a browser

Main Specifications

Connectivity	
Wi-Fi	• 802.11 b/g/n @2.4GHz • HTTP/ MQTT/ Modbus TCP
RS485 Port	• Modbus RTU
Physical Specifications	
Operating Voltage (RMS for each phase)	• 90~277 Vac 50/60Hz
Supported Systems	• Single-Phase • Split-Phase • Three-Phase (3-Phase 3-Wire & Delta system are not supported)
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): $\varnothing 51\text{mm}$
Data Refresh	• 50ms
Response Time	• 50ms (RS485) • 200ms (Wi-Fi)
Operating Environment	• Temperature: $-20\text{ }^{\circ}\text{C} \sim +55\text{ }^{\circ}\text{C}$ • Humidity: $\leq 90\%$ non-condensing
Mount Type	• 35mm DIN rail mounting
Dimension	• 19(W) x 69(D) x 90(H)mm

