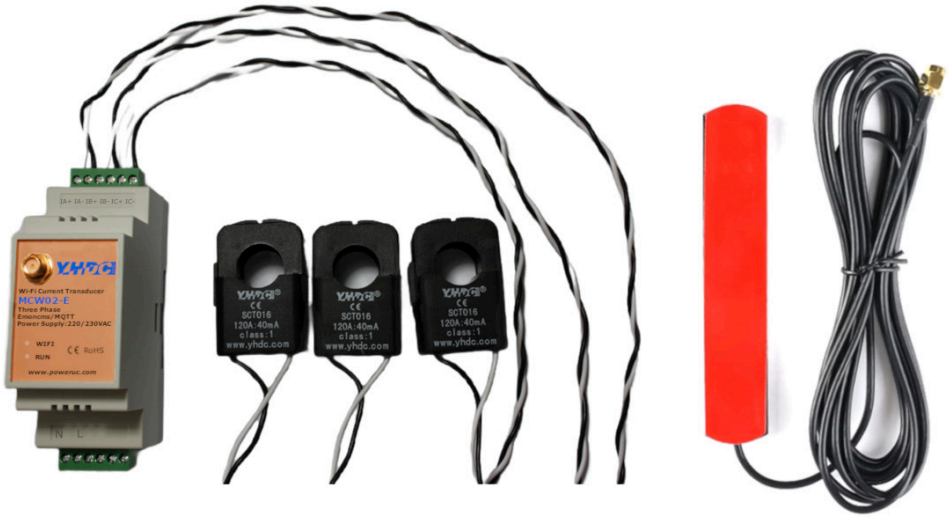
MCW02-E Series Wi-Fi Current Transducer



Features

Real-time energy monitoring via your Wi-Fi network
Simply one-key Wi-Fi setup to connect to your Wi-Fi network
Suitable for domestic, commerical, industrial use and solar system
Support Emoncms and MQTT protocols
2-pole DIN-rail mounting fits neatly in the meter box

General Specification

Specification	Description
Standard package	1. Wi-Fi Current Transducer (MCW02) * 1 2. Split-core Current Transformer * 3 3. 2.4G Wi-Fi Antenna 3m * 1
Phase	Three phase
Power Supply	Built-in universal power supply
Communication	Built-in Wi-Fi
Antenna	External 2.4G antenna with SMA male
Reporting interval	1-5 minutes interval, typically 1 minute
Report contents	Current
Configuration	Wi-Fi access point and webpage for setting SSID and password
Monitoring Scenarios	1. Monitor on Emoncms 2. MQTT IoT platform

Electrical characteristics

Specification	Description
CT Rating	50A~240A (as required))
Measurement Accuracy	Current: ±1.0%
Typical power consumption	≤2W (220VAC input)

Mechanical characteristics

Specification	Description
Weight	
Dimension	90*36*60mm(2 DIN pole)
CT Diameter	
Protection	IP51(MCW02-E)
Connection	1. AC input:UL-Live wire,UN-Neutral wire 2. CT: IA+ is Positive Phase A, IA- is Negative Phase A; IB+ is Positive Phase B, IB- is Negative Phase B; IC+ is Positive Phase A, IC- is Negative Phase C 3. SMA port: External Antenna Port

Environmental conditions

Specification	Description
Operating Temperature	-20 ~ +60℃
Operating Humidity	5 ~ 95% Non-condensing humidity
Altitude	⩽ 2000m

Wi-Fi Network

Specification	Description
WLAN	Channel:Auto Security:WPA2-PSK
SSID	emonESP_xxxxxxxx (8 digits serial no), no password
Configuration Page	URL:http://192.168.4.1

Wi-Fi Parameters

Specification	Description
Wi-Fi Mode	Support WiFi 802.11b/g/n, Wi-Fi frequency 1-13
Transmit power	18.5dBm@11b，15.5dBm@11g，14.5dBm@11n;
Wi-Fi Frequency	2.400 ~ 2.472GHZ
Transmit Speed	3686400bps at highest
Maximum Connections	8
Wi-Fi Antenna	External, 5dBi gain