

I Applicable Scenarios

Suitable for European household, small-scale C&I scenarios where requires bi-directional metering

- Remote 24 hours real-time monitoring of electricity consumption
- Realize local API equipment linkage control to enable efficient integration with HEMS
- Utilize LoRa technology (configurable) for long-distance data relay transmission to ensure data transmission stability

I Product Characteristics

- LoRa technology (configurable) realizes low power consumption and long-distance data uploading
- Open-type CT, easy to install and maintain
- Compact size, with a form of 2P
- Measurement accuracy: active power level 1, reactive power level 2
- Bi-directional metering of electricity consumption or generation data
- Support real-time uploading of data and fault information in milliseconds
- Equipped with Bluetooth as standard, supporting local network distribution
- Provides local API interface to enable efficient integration with HEMS
- Comply with EN 18031 IoT network security standard

I Parameters



Communication Parameters	
Communication Method	WiFi/LoRa(configurable)
WiFi Standard	IEEE 802.11 b/g/n
WiFi Frequency Range	2.412GHz-2.482GHz(CH1~CH13)
WiFi Output Power	11n mode HT40: 13 dBm ±1.5 dBm 11n mode HT20: 13 dBm ±1.5 dBm 11g mode: 14 dBm ±1.5 dBm 11b mode: 19.5 dBm ±1.5 dBm
WiFi Receiving Sensitivity	11b,1 Mbps:-97dBm 11b,11 Mbps:-88dBm 11g,6 Mbps:-93dBm 11g,54 Mbps:-75dBm 11n,HT20(MCS7):-72dBm 11n,HT40(MCS7):-69dBm
LoRa Operating Frequency	868MHz
LoRa Spreading Factor	SF5/SF6/SF7/SF8/SF9/SF10/SF11
BLE Wireless Standard	BLE 4.2
BLE Frequency Range	2402~2480MHz
BLE Transmit Power/Receiving Sensitivity	9dBm/-93dBm
Antenna Type	Embedded antenna



Electrical Characteristics	
Wiring Method	Single-phase Two-way
СТ	100A*1
Rated Voltage	230V ±20%
Imput Current	≤100A
Rated Frequency	50/60Hz
Operating Power	<4W
Measurement Accuracy	Active power level 1.0, Reactive power level 2.0
Electrical Parameter Refresh Rate	Active power: 50ms Other parameters: 100ms

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l -	Unit: mm

Hardware Parameters		
	Mounting	DIN rail 35mm
Operat	ing Temperature	-20 °C ∼+50 °C
Oper	ating Humidity	10% \sim 70% RH, no condensation
	Altitude	<2000 meters
Stora	ge Temperature	-20 °C ∼70 °C
Stor	age Humidity	≤40% RH, no condensation
	IP Grade	IP20
Flame	Retardant Rating	UL 94 V0
Ce	ertifications	CE, REACH, RoHS

Software Parameters	
Number of Connected LoRa Sub-Devices (configurable)	Default: 1 unit (1~10 units configurable)
Data Uploading Frequency	Default 5 minutes
User Configuration	Local and remote configuration
Firmware Upgrade	Remote upgrade

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