

P1-2W

P1 Meter Reader



By collecting operating status and consumption data of meter, WiFi P1 meter reader can run a long-term and efficient monitoring of meter system. It can connect to a single P1 meter via RJ12 interface to receive consumption data from the meter. Furthermore, it sends the data to the monitoring platform via WiFi. The real-time status and historical data can be displayed with graphs, enabling intuitive and clear understanding of the system.

I Applicable Scenarios

Specially designed for P1 meter in Netherlands&Belgium.

- Improve the efficiency and quality of meter data collection, and reduce the cost of manual data retrieval
- Real-time reading of P1 meter data, ensuring the monitoring of energy consumption at any time
- Through data visualization and analysis to achieve a more intuitive view of energy consumption

I Features

Easy to use

- Standard bluetooth network configuration
- Compact-size design, no extra space required
- Direct power from P1 meter, plug-and-play

Stable&Reliable

- Remote software for visual data management
- Data encryption ensures secure and reliable remote transmission

Compliant with EN303645

- Compliant with ETSI EN 303 645 standard

Excellent Performance

- Accurate reading of electric energy data
- Support WiFi, bluetooth communication, data uploading in second
- Support remote communication
- Support local API interface, efficient access to HEMS
- Support local linkage with micro storage device

High Compatibility

- Universal COM protocol, high compatibility
- Type-C interface addresses the power supply issue for P1 meter below DSMR 5.0



I Parameters

Communication Parameters

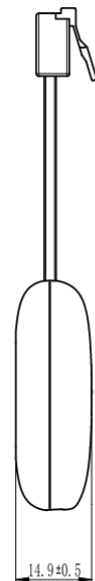
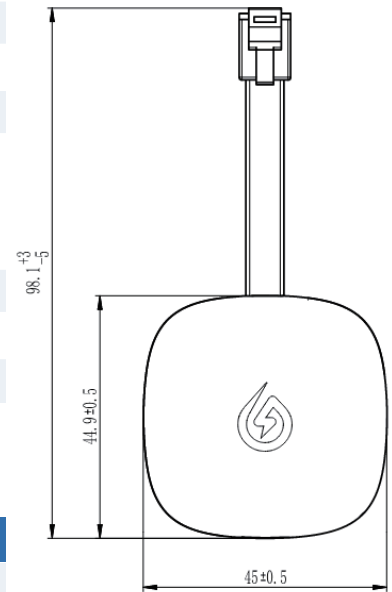
Remote Communication	2.4GHz WiFi
WiFi Standard	802.11b/g/n
WiFi Frequency	2.412GHz-2.472GHz (CH1~CH13)
WiFi Transmission Power	802.11b:+17dBm±1.5dBm(@11Mbps)
	802.11g:+15dBm±1.5dBm(@54Mbps)
	802.11n:+14dBm±1.5dBm(@HT20,MCS7)
Bluetooth Standard	BLE5.0
Bluetooth Frequency	2.402GHz-2.480GHz
Bluetooth Transmission Power	Max 15dBm

Hardware Parameters

Data Interface	P1-RJ12
External Interface	USB Type-C & RJ12
Working Voltage	DC 5.0V±1%
Working Power	1.1-1.2W
Indicator Light	P1 green light shows connection status with meter WiFi blue light shows connection status with server
Data Storage	8MB FLASH
Working Temperature	-20°C~+50°C
Working Humidity	10%-90% RH, No Condensation
Storage Temperature	-30°C~+60°C
Storage Humidity	≤40%RH, No Condensation

Software Parameters

No. of Connections	One P1 meter
Serial Communication Rate	Default: 115200bps (Configurable)
Data Transmission Interval	Default: 5 mins (60-600s Configurable)
Firmware Upgrade	Remote upgrade/Local upgrade
User Configuration	APP/Web page
Software Watchdog	√
Others	Real-time Control



Unit: mm, dimensional: Accuracy±2%

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