

# 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

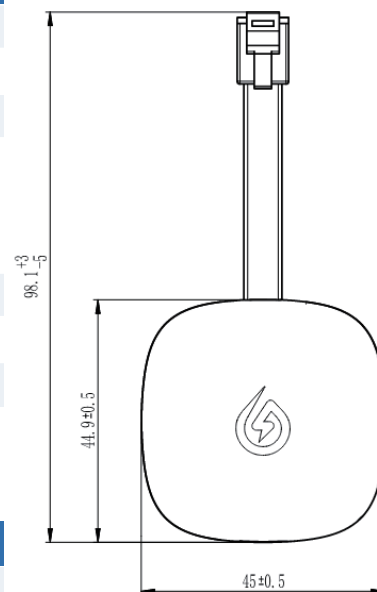
|                              |                                   |
|------------------------------|-----------------------------------|
| Remote Communication         | 2.4GHz WiFi                       |
| WiFi Standard                | 802.11b/g/n                       |
| WiFi Frequency               | 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<br>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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