

Smart AI Water Meter Reader

SMR100-WA



Product Introduction

The water meter reader, designed with a split architecture, captures water meter data accurately through an efficient camera module. It relies on an embedded AI chip for high-precision metering and automatic fault detection. Supporting network transmission protocols such as 4G, NB-IoT, and WiFi, it seamlessly connects to cloud-based management platforms, providing remote water usage monitoring and data analysis functions.



Powerful Functions

- ▶ Empowered by embedded chips, it efficiently extracts meter characteristics with an accuracy rate of 99%.
- ▶ Supports multiple wireless communication methods, suitable for diverse application scenarios such as industrial IoT and smart cities.
- ▶ Offers multiple data output formats to meet different network and compatibility requirements.



Stable and Reliable

- ▶ When network jitter causes transmission failure, a resume transmission mechanism is triggered.
- ▶ Overcomes brand and model limitations, compatible with most meters on the market.
- ▶ Battery-powered, extremely simple installation, with no need for shutdown or production stoppage.



Product Specifications

| Parameter Type | Parameter Specifications |
|-------------------------------|--|
| Product Dimensions | 135mm * 95mm * 55mm |
| Total Weight | 200g |
| Protection Level | IP67 |
| Power Supply Mode | 8500mAh lithium battery |
| Communication Network | Supports 4G Cat.1, NB-IoT, WiFi (select one) |
| Operating Current | Less than 160mA |
| Standby Current | Less than 5μA |
| Operating Temperature | -10°C to 55°C |
| Storage Temperature | -25°C to 70°C |
| Recognition Accuracy | Greater than 99.9% |
| Flammability Rating | UL94 - v0 grade |
| Electromagnetic Compatibility | E1 level |

| Communication Parameters | | |
|--------------------------|---------------------|---|
| 4G Cat.1 * | Standards and Bands | LTE-FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28 LTE-TDD:B38/39/40/41 WCDMA:B1/2/4/5/6/8/19 GSM:B2/B3/5/8 |

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| | | |
|----------|-----------------------|---|
| | Transmission Power | <23dBm |
| | Reception Sensitivity | <-97dBm |
| NB-IoT * | Standards and Bands | B1/ 2/ 3/ 4/ 5/ 8/ 12/ 13/ 17/ 18/ 19/ 20/ 25/ 28/ 66/ 70/ 85 |
| | Transmission Power | <23dBm |
| | Reception Sensitivity | <-118.5dBm |
| WiFi | Standards and Bands | 802.11b/g/n 2.4GHz |
| | Transmission Power | ≤18.5dBm |
| | Reception Sensitivity | <-98dBm |

For parameters marked with an asterisk (*), please contact the relevant sales representative if you have additional requirements.

Product Dimensions (mm)

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Accessories

| Name | Description |
|-----------|----------------|
| Adhesive | 1 unit,default |
| Desiccant | 1 unit,default |

Order Information

| Model Name | Description |
|------------------|--|
| SMR100-WABA01-NB | Battery powered, supports communication modes NB, internal antenna |
| SMR100-WABA01-4G | Battery powered, supports communication modes 4G, internal antenna |
| SMR100-WABA01-WI | Battery powered, supports communication modes WiFi, internal antenna |