

LoRaWAN Smart Water Meter

This smart water meter is designed for precise water consumption measurement and remote data transmission. It is compliant with GB/T778-2007 standards and integrates into smart city infrastructures using LoRaWAN wireless communication.



ADDITIONAL IMAGES



Overview

Smart Water Metering Solution

This wireless smart water meter integrates advanced remote sensing with LoRaWAN communication modules to provide efficient, real-time data collection. Designed for easy installation with a cable-free architecture, it supports automated daily data uploads to network platforms via a gateway. The system ensures long-term reliability with low power consumption and robust protection against environmental conditions.

Environmental & Physical

Protection Grade

IP68

Operating Temperature

0.1°C – 30°C

Operating Water Pressure

0.03MPa – 1.0MPa

Performance Metrics

Key Performance Indicators

0.1 MPa

Max Pressure Loss

2 km

City Transmission Distance

15 floors

Floors Crossed

Electromechanical Conversion Error

$d \pm 0.5\%$

Communication & Connectivity

Supported Frequencies

433MHz, 470MHz, 868MHz, 915MHz, 923MHz

RF Power

20 dbm

Receiver Sensitivity

-143dBm

Technical Specifications

| | |
|-----------------|---------------------------------------|
| Power Supply | 3.6V lithium battery (>10 years life) |
| Sampling Method | Hall sensor, double pulse |

Flow Rate Data

Flow Rate Specifications

| DN (mm) | Q3/Q1 | Overload Flow Q4 (m ³ /h) | Common Flow Q3 (m ³ /h) |
|---------|-------|--------------------------------------|------------------------------------|
| 15 | 80 | 3.125 | 2.5 |
| 20 | 80 | 5 | 4 |
| 25 | 80 | 7.875 | 6.3 |