



MZANZI
GLOBAL TRADING

ULTRASONIC STS PREPAYMENT / WMD METER

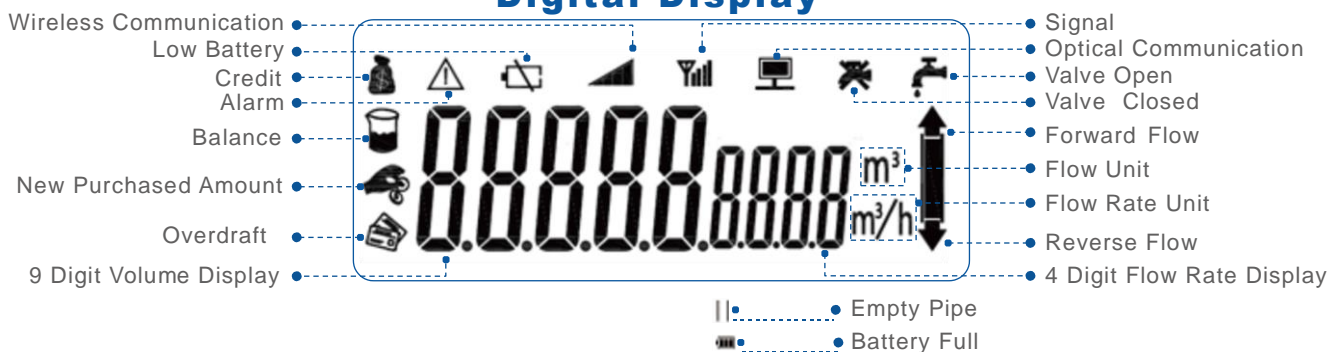


FEATURES

- Very wide Measurement range of R500
- Ultralow starting flow: down to 1L/h
- Bi-directional flow measurement to prevent water tamper
- Friendly big LCD displays various flow and alarms
- No wearing parts, excellent long-term stability and reliably
- With stainless steel ball valve, automatically rotates regularly to prevent scaling
- Empty pipe structure, indifferent to sand and particles in flow
- Prepaid and postpaid flexibly convert
- Battery powered with lifetime of more than 8 years
- Protection level: Submersible IP68
- Installation in any position, no air measuring
- Actively defend against magnetic attacks by automatically closing the valve and displaying alarm
- Leakage detection and dry pipe detection



Digital Display

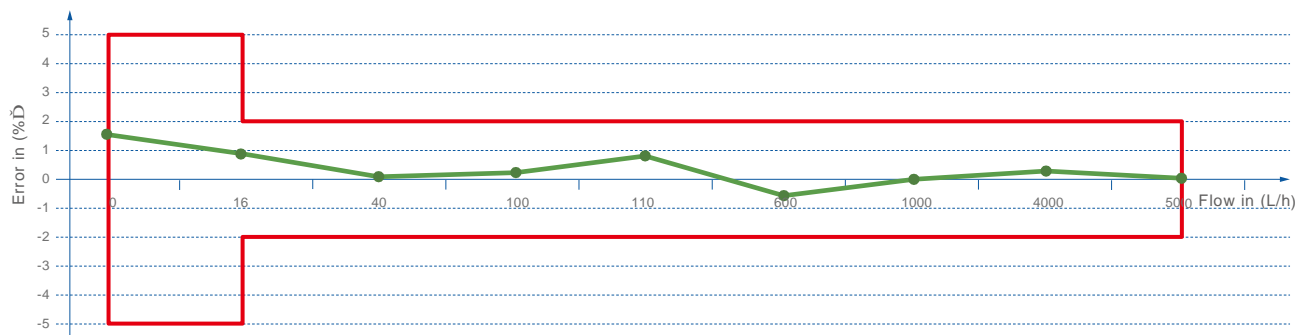


Communication Interface

| | |
|---------------|--|
| Pulse | Optocoupler high speed pulse, suitable for pulse verification Hall pulse, suitable for the field detection of cumulative volume |
| 4-20mA | 4-20mA current loop output corresponding instantaneous flow. The upper limit of flow corresponding to 20mA can be limited |
| RS485 | Low power RS485 communication mode, adopts standard Modbus protocol |
| RF | Lower power consumption RF communication mode |
| M-bus | EN13757 protocol, bus communication |
| NB-IoT | With narrow band of 180kHz, It can be directly deployed in GSM, UMTS or LTE network to enable smooth upgrade in future |

Typical Error Graph

DN20 Performance Curve



Technical Specification

| | |
|---|---|
| Available Size | DN15, DN20, DN25 |
| Standard | ISO4064/EN14154 |
| Q3/Q1=R | R500/R400 |
| Precision Class | Class 2 |
| Pressure Loss | 25kPa |
| Maximum Working Pressure | 1.6MPa |
| Working Environment | Temperature: -25~+55°C, Humidity ≤100% (RH) |
| Liquid Temperature Class | T30/T50 |
| Resolution of Volume | 0.0001~ 99999.9999 m ³ |
| Flow Profile Sensitivity Class | U0D0 |
| Climate and Mechanical Environment Safety Level | O |
| Electromagnetic Environment Class | E2 |
| Power Supply | 3.6V Lithium Batteries, Up to 10 Years |
| Protection Class | IP68 |
| Materials | PPO |
| Data Storage | For errors, alarms and measuring values, data logging capabilities to record up to 14*24 hourly, 366*daily, 72* monthly value |

Flow Rate Performance Parameter

| Meter Size | | Dynamic | Overload Flow Rate | Permanent Flow Rate | Transitional Flow Rate | Minimum Flow Rate | Starting Flow Rate (l/h) |
|------------|------|---------|------------------------|------------------------|------------------------|-------------------|--------------------------|
| DN (mm) | inch | R | Q4 (m ³ /h) | Q3 (m ³ /h) | Q2 ((L/h) | Q1 ((L/h) | Q0 (L/h) |
| 15 | 1/2 | 400 | 3.125 | 2.5 | 10 | 6.25 | 1 |
| | | 500 | | | 8 | 5 | |
| 20 | 3/4 | 400 | 5 | 4 | 16 | 10 | 2 |
| | | 500 | | | 12.8 | 8 | |
| 25 | 1 | 400 | 7.785 | 6.3 | 25.2 | 15.75 | 3 |
| | | 500 | | | 20.16 | 12.6 | |

Installation Dimension

| Nominal Diameter (mm) | L (mm) | W (mm) | H (mm) | Weight (g) |
|-----------------------|--------|--------|--------|------------|
| DN15 | 165 | 80 | 106.5 | 900 |
| DN20 | 195 | 80 | 109 | 1000 |
| DN25 | 260 | 80 | 112 | 1100 |

