

Prepaid Residential Ultrasonic Smart Water Meter

ZLINK prepaid residential water meter is a static meter operating on ultrasonic measurement technology with keypad CIU, it is tailored to new developed vending with respect to International STS2 standard; guaranteeing Token Algorithm security, helping utility eliminate bad debt, and improving cash management.

ZLINK performs accurate metering of water consumption with long-term stability. ZLINK is integrated with a wide range of IoT technologies to fit various application scenarios, which paves the way towards intelligent water utilities and smart city.

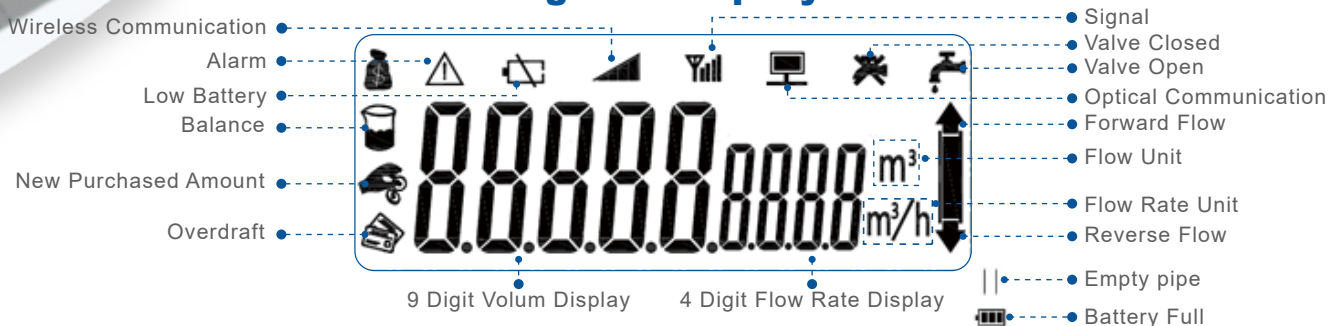


FEATURES

- Wide measurement range of Q3/Q1= R400
- Ultralow starting flow: down to 0.001m/h
- Bi-directional flow measurement to prevent water tamper
- Friendly big LCD displays cumulative volume, instantaneous flow and rich information of alarms
- No wearing parts, excellent long-term stability and reliability
- The reducer adopts a fully enclosed design of all-copper reduction gears, which automatically rotates regularly to prevent scaling.
- Vacuuming electron cavity to prevent glass fogging.
- Battery powered with lifetime of more than 8 years
- Supports a wide range of communication technologies like wireless M-bus, NB-IoT, etc.
- Protection level: Submersible IP68
- Actively defend against magnetic attacks by automatically closing the valve and displaying alarm
- Leakage detection and dry pipe detection



Digital Display

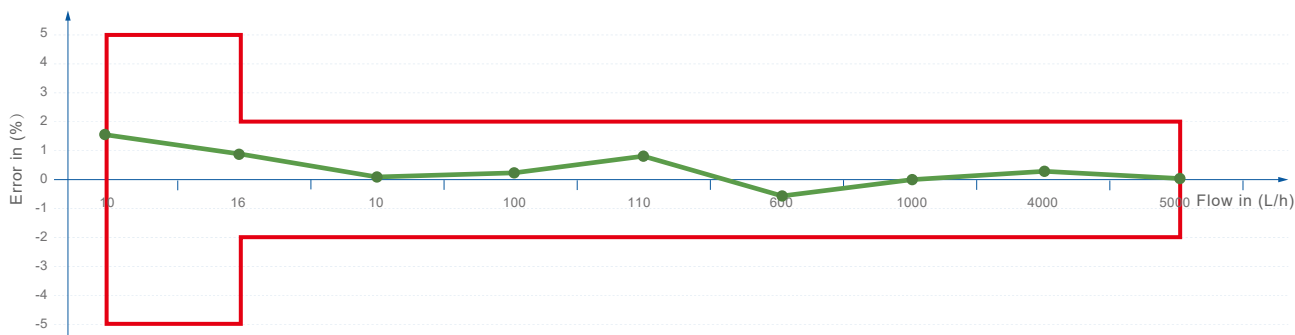


Communication Interface

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
M-bus	EN1434 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

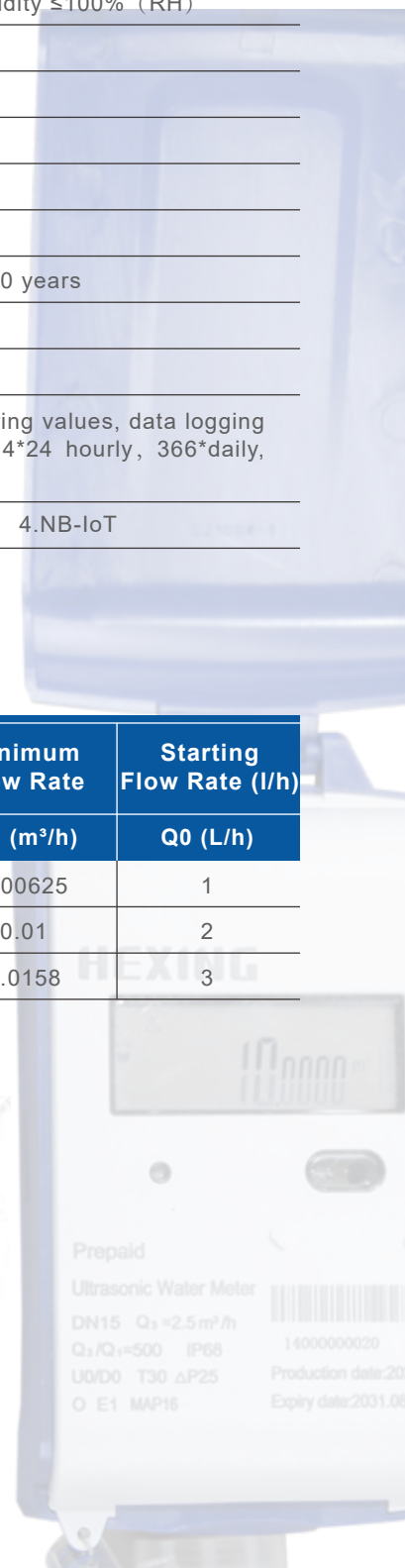
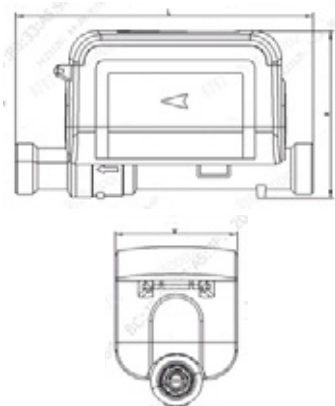
Available Size	DN15, DN20, DN25
Standard	ISO4064/EN14154
Q3/Q1=R	R250/R400
Precision Class	Class 2
Pressure Loss	63kPa
Maximum Working Pressure	1.6MPa
Working Environment	Temperature: -25~+55℃, Humidity ≤100% (RH)
Liquid Temperature Class	T30/T50
Resolution of Volume	0.0001~ 99999.9999 m³
Flow Profile Sensitivity Class	U10D5
Climate and Mechanical Environment Safety Level	O
Electromagnetic Environment Class	E1
Power Supply	3.6V Lithium batteries, Up to 10 years
Protection Class	IP68
Materials	Solid brass
Data Storage	For errors, alarms and measuring values, data logging capabilities to record up to 14*24 hourly, 366*daily, 72* monthly value
Communication Interfaces	1.M_BUS 2.RS485 3.Pulse 4.NB-IoT

Performance Parameter

Meter Size (mm)	Dynamic	Overload Flow Rate	Permanent Flow Rate	Transitional Flow Rate	Minimum Flow Rate	Starting Flow Rate (l/h)
DN (mm)	R	Q4 (m³/h)	Q3 (m³/h)	Q2 (m³/h)	Q1 (m³/h)	Q0 (L/h)
15	400	3.125	2.5	0.02	0.00625	1
20		5	4	0.032	0.01	2
25		7.785	6.3	0.0504	0.0158	3

Installation Dimension

Nominal Diameter (mm)	L (mm)	W (mm)	H (mm)	Weight (g)
DN15	165	80	107	920
DN20	195	80	112	1050
DN25	225	80	112	1300



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