HEXING

Prepaid Residential Ultrasonic Smart Water Meter

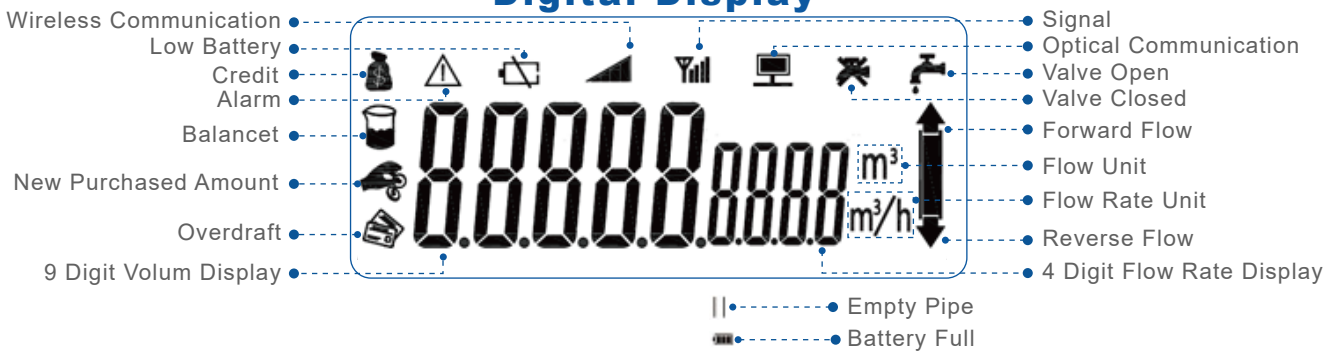
ZLINK prepaid residential water meter is a static meter operating on ultrasonic measurement technology with keypad CIU, it is tailored to new developed vending with respect to International STS1 and STS2 standard; guaranteeing Token Algorithm security, helping utility eliminate bad debt, and improving 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

- Very wide Measurement range of R500
- Ultra-low 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 reliability
- With stainless steel ball valve, automatically rotates regularly to prevent scaling
- Empty pipe structure, indifferent to sand and particles in the flow
- Prepaid and postpaid flexibly convertion
- 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

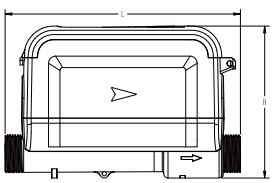
Available Size	DN15, DN20, DN25
Standard	ISO4064/EN14154
Q3/Q1=R	R500/R400
Precision Class	Class 2
Pressure Loss	25kPa
Maximum Working Pressure	1.6MPa
Working Environment	Temperature: -25~+55℃, Humidity ≤100%（RH）
Liquid Temperature Class	T30/T50
Resolution of Volume	0.0001~ 99999.9999 m³
Flow Profile Sensitivity Class	U0D0
Climate and Mechanical Environment Safety Level	O
Electromagnetic Environment Class	E2
Power Supply	3.6V Lithium Batteries, Up to 8 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

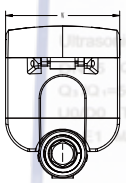
Flow Rate Performance Parameter

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 (m³/h)	Q3 (m³/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





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