HUI ZHONG

SCL-61H

Drinking Water

Ultrasonic Water Meter

Scope of application

It is applied in the metering of high-quality drinking water to meet the needs of water supply enterprises for accurate metering and settlement of drinking water.

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Features

- Low starting flowrate, up to 0.83L/h, achieving drip-metering.
- Large dynamic range.
- Integrated mechanical design with protection class of IP68, able to work in long-term water immersion.
- Micro-power consumption technology, lithium battery powered.
- Maximum permissible working pressure is 1.6 MPa, low pressure loss.
- Ultrasonic measurement and no mechanical abrasion for high accuracy and fine stability.
- The pipeline section adopts edible-grade stainless steel to ensure water safety and no pollution.
- High-precision measurement, the system can realize real-time alarm for effectively monitoring the operation of pipeline and meter.

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Technical Parameters

Item		Parameter
Accuracy class		Class 2
Nominal diameter (mm)		DN15
Dynamic range		R160/R250
Maximum working pressure		1.6MPa
Working environment		-25℃~+55℃, ≤100%RH(If exceed this range, please specify when ordering)
Water temperature class		T30
Class of upstream flow field sensitivity		U10
Class of downstream flow field sensitivity		D5
Category of climatic & mechanical environmental conditions		Class O
Electromagnetic environmental class		E2
Pipe material		304 stainless steel
Operation		Photosensitive key
Display indication		LCD, 10 digits + prompting characters
Values displayed		Accumulated flow rate (L), Accumulated flow rate (m^3), Instantaneous flow rate (m^3/h), Water temperature (℃), Accumulated effective running time (h), Date (y/m/d), Time (h/m/s), Software version/ Meter ID, Display test
Display resolution		Accumulated flow rate: 0.001 m^3 (1L), Instantaneous flow rate 0.001 m^3/h, Water temperature: 0.01℃ (The decimal digits of accumulated flow rate and instantaneous flow rate can be customized up to 5 digits.)
Display range		Accumulated flow rate: 0m^3～1999999.999m^3
Data communication	Photoelectric interface	Baud rate 2400bps; Even parity; Protocol EN13757
	NB-IoT	NB-IoT network, data report period once per day (If exceed this range, please specify when ordering)
	RF	470MHz/868MHz
Data storage	NB-IoT	1. Current 24 months of monthly accumulated flow rate, cumulative running time and maximum flow rate. 2. Current 730 records of daily frozen cumulative quantity, cumulative running time and diagnostic code. 3. Reported historical data for at least latest 1 month. 4. Latest 60 reported log records. 5. Latest 100 alarm records. The data can be kept in 100 years after power off.
Power supply		Battery powered DC3.6V (Continuous working years: more than 7 years/8 years/ 10 years optional)
Protection class		IP68
Storage temperature		-25℃~+55℃
Installation position		Water supply pipe

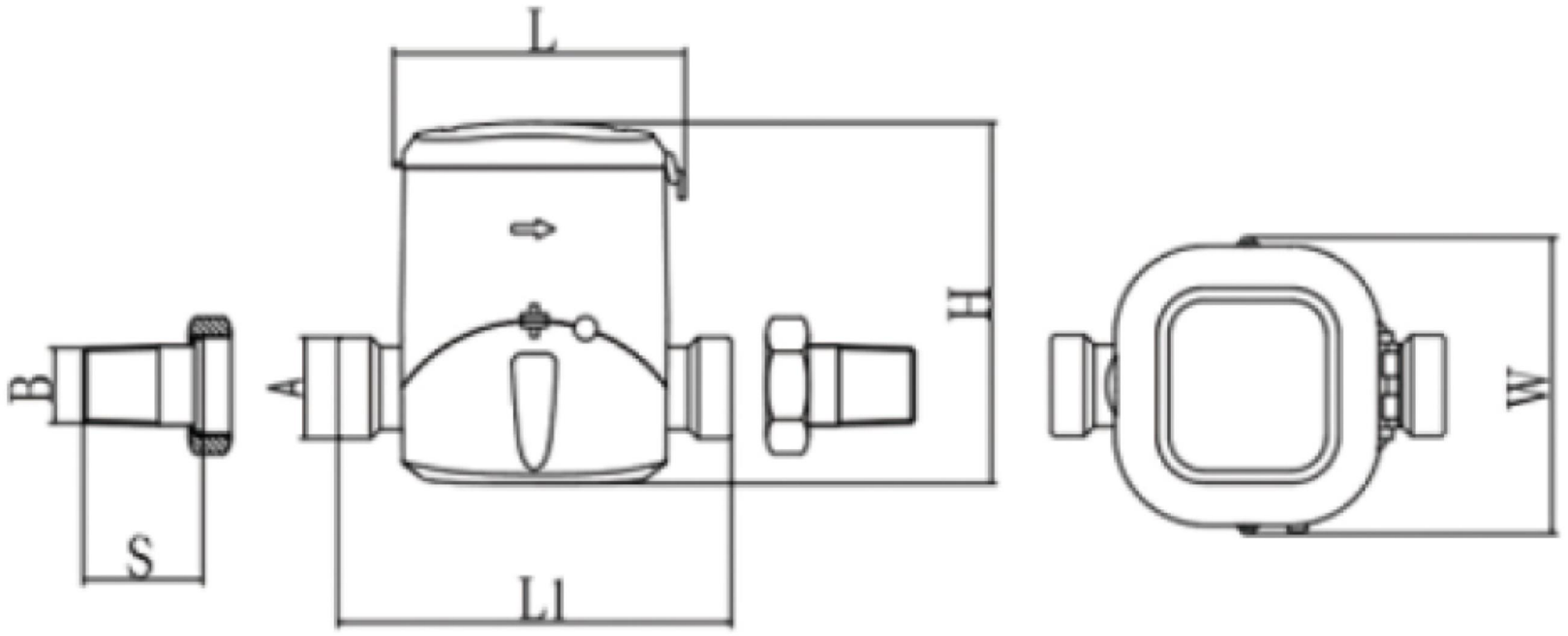
Note:
1. Weak signal, data retransmission and high alarm frequency can shorten the battery lifetime.
2. Test for battery lifetime at ambient 25±5℃; Beyond the range, the battery lifetime can be shortened.
3. It cannot be used for reverse measurement.

Flowrate Parameters

(m³/h)

Nominal diameter (mm)	DN15	
Minimum Flowrate Q1	0.004	0.00625
Transitional Flowrate Q2	0.0064	0.01
Permanent Flowrate Q3	1.0	1.0
Overload Flowrate Q4	1.25	1.25
Q3/Q1	250	160
Pressure Loss	Δp40	Δp40

Dimensions



Nominal Diameter (mm)	DN15
A without Connections	$G\frac{3}{4}B$
B with Connections	$R\frac{1}{2}$
L（mm）	97
L1（mm）	110
H（mm）	119
W (mm)	98
Connection Length S (mm)	45