

# Leading

Ultrasonic Water Metering

# SCL-61H-100

## Residential Ultrasonic Water Meter

### Scope of Application

Designed for residential area with household metering and billing system, reached the demand of precise measurement and settlement on End-User for water utilities.



- ✓ Low starting flowrate
- ✓ IP68
- ✓ No abrasion
- ✓ Anti-interference
- ✓ Low pressure loss
- ✓ Micro-power consumption
- ✓ Water temperature alarm



## Features

- ✓ Large dynamic range to 400:1.
- ✓ Integrated mechanical design with protection class of IP68, able to work in long-term water immersion.
- ✓ Ultrasonic measuring technology with no mechanical moving parts and pressure loss, improves device serving time.
- ✓ Micro-power consumption technology, battery-powered with lifetime over 10 years.
- ✓ Low starting flowrate(as low as 0.0015m<sup>3</sup>/h)
- ✓ Multiple transmission methods, photoelectric interface, NB-IoT, RS-485, M-Bus and RF, which achieves lower consumption, stronger inter-linkage, wider coverage and more realible usage.
- ✓ Utilize data analysis platform built with self-developed system comprehensively integrated with smart platform, seamless connected, apply Big Data and Cloud computing technology to further discover water supply information and resources.

## Technical Parameters:

Item	Parameter	
	NB-IoT	RS-485/M-Bus/RF
Accuracy	Class 2	
Nominal Diameter	DN15~DN40	
Dynamic Range	R250, R400	
Maximum Working Pressure	1.6MPa	
Working Environment	-25°C~+55°C, ≤100%RH (If exceed this range, please specify when ordering)	
Water Temperature Class	T30, T50, T70, default T30	
Class of Upstream Flow Field Sensitivity	U0	
Class of Downstream Flow Field Sensitivity	D0	
Category of Climate & Mechanical Environment Conditions	Class O	
Class of Electromagnetic Compatibility	E2	
Operation	Photosensitive key	
Display Indication	LCD, 10-digital+prompting character	
Values Displayed	Accumulated flow rate (m <sup>3</sup> ) , Instantaneous flow rate (m <sup>3</sup> /h) , Water temperature (°C) , Accumulated effective running time (h) , Date (YY/MM/DD) , Time (hh/mm/ss) , Software version / Meter ID, Screen test	
Display Resolution	Accumulated flow rate 0.01m <sup>3</sup> , Instantaneous flow rate 0.01m <sup>3</sup> /h, Water temperature 0.01°C. (The decimal digits of accumulated flow rate and instantaneous flow rate can be customized up to 5 digits.	Accumulated flow rate 0.001m <sup>3</sup> Instantaneous flow rate 0.0001m <sup>3</sup> /h Water temperature 0.01°C
Display Range	Accumulated flow rate: 0m <sup>3</sup> ~1999999.999 m <sup>3</sup>	
Data Communication	Photoelectric Interface	Baud rate: 2400bps, even parity, Protocol: EN13757
	RS-485/M-Bus	Baud rate: 2400bps, 4800bps, 9600bps, default: 2400bps, transmission distance≤1200m; Support CJ/T 188 protocol, Modbus-RTU protocol, EN13757 protocol, default: EN13757 protocol
	RF	470MHz/868MHz
	NB-IoT	Data report period once per day (If the range is exceeded, please specify on ordering)
Power Supply	Battery DC3.6V (Continuous working years: more than 7 years/8 years/ 10 years optional)	Battery DC3.6V (One battery can continuously work for over 10 years)
Protection Class	IP68	
Storage Temperature	-25°C~+55°C	
Installation Position	Water supply pipe	

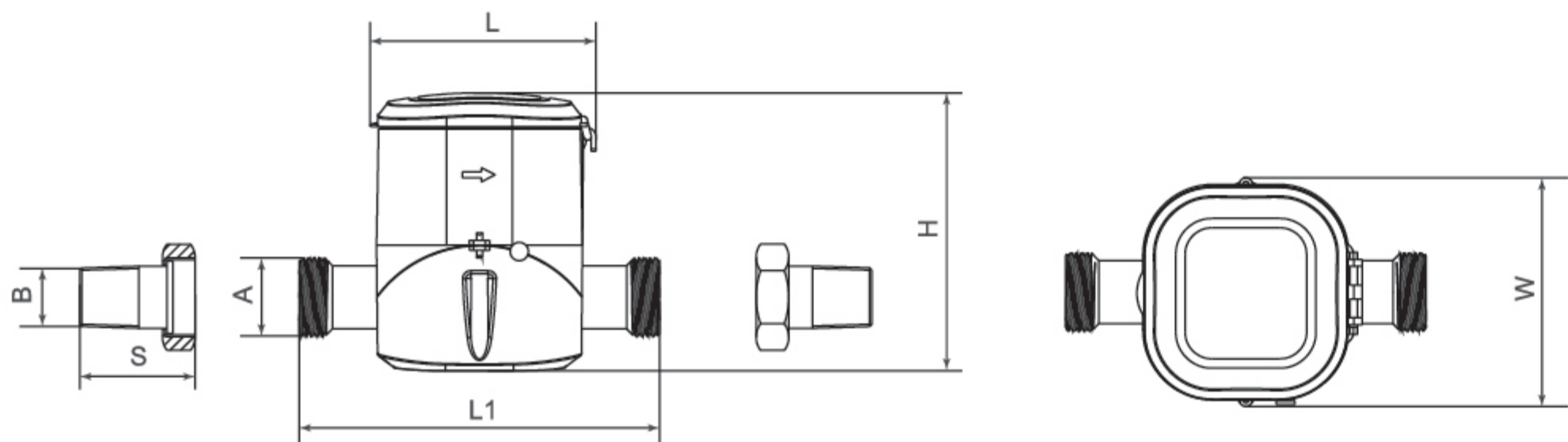
## Flow Parameters ( R250 )

Nominal Diameter(mm)	DN15		DN20		DN25		DN32	DN40	
Minimum Q <sub>1</sub>	0.006	0.010	0.010	0.016	0.016	0.025	0.040	0.040	0.064
Transitional Q <sub>2</sub>	0.010	0.016	0.016	0.026	0.026	0.040	0.064	0.064	0.100
Permanent Q <sub>3</sub>	1.6	2.5	2.5	4.0	4.0	6.3	10.0	10.0	16.0
Overload Q <sub>4</sub>	2.0	3.125	3.125	5.0	5.0	7.875	12.5	12.5	20.0
Pressure Loss	Δp25	Δp63	Δp25	Δp63	Δp25	Δp63	Δp40	Δp25	Δp40

## Flow Parameters ( R400 )

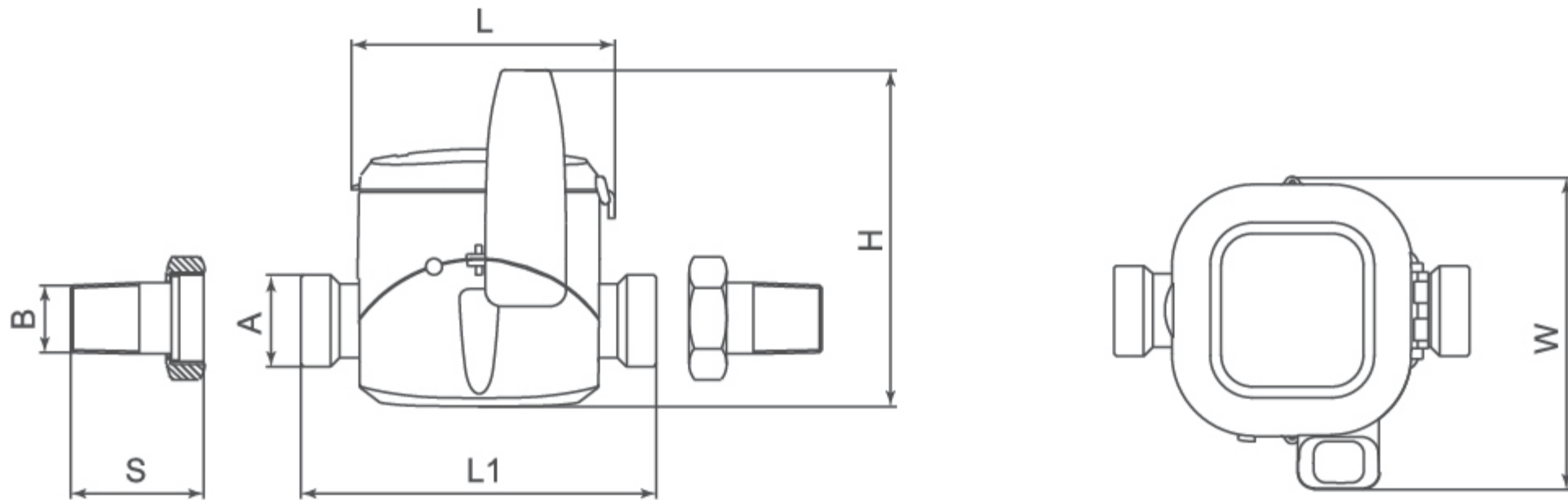
Nominal Diameter(mm)	DN15	DN20	DN25	DN32	DN40
Minimum Q <sub>1</sub>	0.006	0.010	0.016	0.025	0.040
Transitional Q <sub>2</sub>	0.010	0.016	0.025	0.040	0.064
Permanent Q <sub>3</sub>	2.5	4	6.3	10	16
Overload Q <sub>4</sub>	3.125	5	7.875	12.5	20
Pressure Loss	Δp63	Δp63	Δp63	Δp63	Δp63

## Dimension



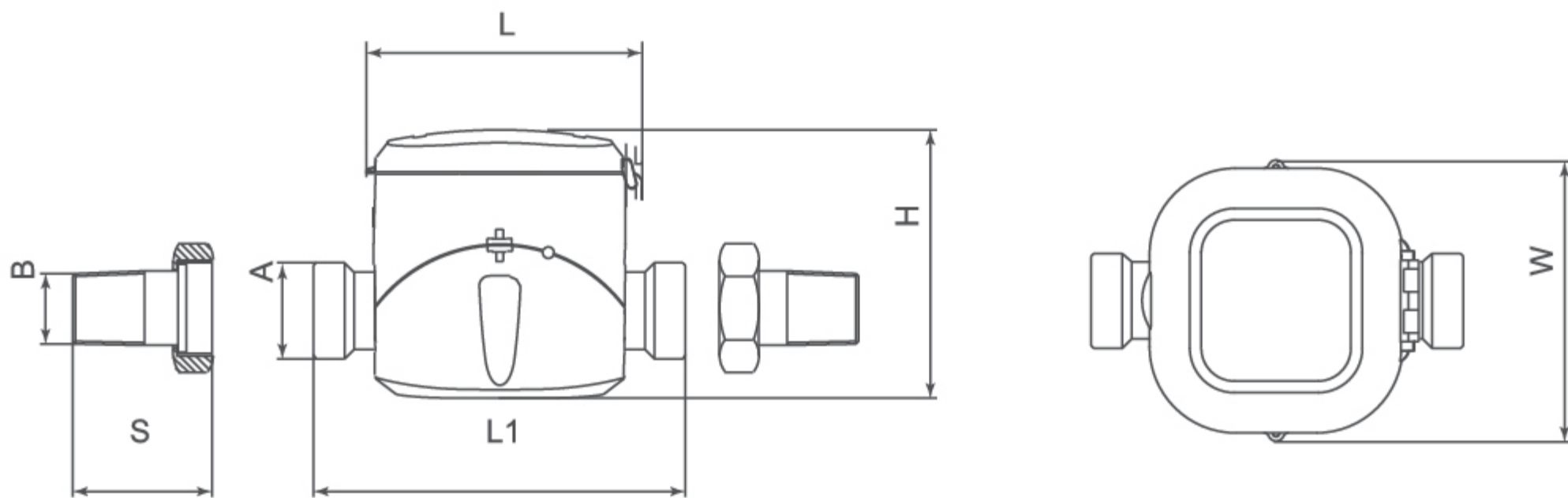
SCL-61H Residential Ultrasonic Water Meter ( NB-IoT )

Nominal Diameter(mm)	DN15	DN20	DN25	DN32	DN40
A without Connections	G <sup>3</sup> / <sub>4</sub> B	G1B	G1 <sup>1</sup> / <sub>2</sub> B	G1 <sup>1</sup> / <sub>2</sub> B	G2B
B with Connections	R <sup>1</sup> / <sub>2</sub>	R <sup>3</sup> / <sub>4</sub>	R1	R1 <sup>1</sup> / <sub>4</sub>	R1 <sup>1</sup> / <sub>2</sub>
L(mm)	97	97	97	97	97
L1(mm)	110/165	190/195	160	180	200/245
H(mm)	119	119	119	145	153
W(mm)	98	98	98	98	98
S Connection Length(mm)	45	51	59	74	78



SCL-61H Residential Ultrasonic Water Meter ( RF )

Nominal Diameter(mm)	DN15	DN20	DN25	DN32	DN40
A without Connections	G $\frac{3}{4}$ B	G1B	G1 $\frac{1}{4}$ B	G1 $\frac{1}{2}$ B	G2B
B with Connections	R $\frac{1}{2}$	R $\frac{3}{4}$	R1	R1 $\frac{1}{4}$	R1 $\frac{1}{2}$
L(mm)	97	97	97	97	97
L1(mm)	110/165	190/195	160	180	200/245
H(mm)	123	123	123	146	153
W(mm)	115	115	115	115	115
S Connection Length(mm)	45	51	59	74	78



SCL-61H Residential Ultrasonic Water Meter ( M-Bus / RS-485 )

Nominal Diameter(mm)	DN15	DN20	DN25	DN32	DN40
A without Connections	G $\frac{3}{4}$ B	G1B	G1 $\frac{1}{4}$ B	G1 $\frac{1}{2}$ B	G2B
B with Connections	R $\frac{1}{2}$	R $\frac{3}{4}$	R1	R1 $\frac{1}{4}$	R1 $\frac{1}{2}$
L(mm)	97	97	97	97	97
L1(mm)	110/165	190/195	160	180	200
H(mm)	94	94	94	117	124
W(mm)	98	98	98	98	98
S Connection Length(mm)	45	51	59	74	78

# SCL-61HF-100

## Valve-Control Ultrasonic Water Meter

### Scope of application

It is applied in prepayment and payment collection for water supply measurement, improving the collection rate of water charge.





## Features

- ✓ Low starting flowrate, as low as 0.0015m<sup>3</sup>/h.
- ✓ Ratio range is as large as R250 and R400 (measurement class is better than D).
- ✓ Integrated mechanical design with protection class of IP68, able to work in long-term water immersion.
- ✓ Automatic re-reporting to ensure the integrity of reported data.
- ✓ Micro-power consumption technology, battery powered.
- ✓ Real-time alarm can effectively monitor the running status of pipe sections and water meters.
- ✓ Innovative valve technology, break through traditional thinking in ball-valve.
- ✓ The valve spool and sealing element of the valve control water meter adopt the innovative processing and surface treatment technology to ensure that the valve parts work stably and normally for a long time under the occasions of corrosion, easy scaling and impurities.
- ✓ The water meter has remote and near end valve-control function, which can improve the management and control of water companies, effectively shorten the time of water bill payment, and can also achieve advanced-charge.
- ✓ With ultrasonic measuring technology, the meter can be installed in different angles without affecting its measuring accuracy. Moreover, the pressure loss of pipe flow can be reduced to a minimum.
- ✓ Ultrasonic flow measuring principle with no mechanical moving parts.
- ✓ The water meter is small in size, high in stability and strong in anti-interference.
- ✓ The water meter is universal with integrated design and built-in valve.



## Technical Parameters

Item	Parameter	
Accuracy class	Class 2	
Nominal diameter (mm)	DN15~DN25	
Maximum working pressure	1.6MPa	
Temperature range ambient	0℃~+55℃, ≤100%RH (If exceed this range, please specify when ordering)	
Dynamic range	R250, R400	
Water temperature class	T30, T50, T70, T90	
Class of upstream flow field sensitivity	U0	
Class of downstream flow field sensitivity	D0	
Category of climate & mechanical environment conditions	Class O	
Class of electromagnetic compatibility	E2	
Valve forms	Butterfly valve	
Material of valve and valve spool	304 stainless steel	
Valve life	More than 10000 times	
Type of connection	Ultrasonic water meter integrated structure	
Operation	Photosensitive key	
Display indication	LCD, 10 digits + prompting characters	
Values displayed	Accumulated flow rate (L), Accumulated flow rate (m <sup>3</sup> ), Instantaneous flow rate (m <sup>3</sup> /h), Water temperature (℃), Cumulative effective running time (h), Date (y/m/d), Time (h/m/s), Software version/ Meter ID, Display test	
Display resolution	Accumulated flow rate: 0.001m <sup>3</sup> (1L), Instantaneous flow rate 0.001 m <sup>3</sup> /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 <sup>3</sup> ~1999999.999m <sup>3</sup>	
Data communication	Photoelectric interface	Baud rate 2400bps; Even parity; Protocol EN13757
	NB-IoT network	NB-IoT network, data report period once per day
	RF	470MHz/868MHz
Data Storage	NB-IoT	<ol style="list-style-type: none"> <li>1. Current 24 months of monthly accumulated flow rate, cumulative running time and maximum flow rate.</li> <li>2. Current 730 records of daily frozen cumulative quantity, cumulative running time and diagnostic code.</li> <li>3. Reported historical data for at least latest 1 month.</li> <li>4. Latest 60 reported log records.</li> <li>5. Latest 100 alarm records.</li> </ol> <p>The data can be kept in 100 years after power off.</p>
	RF	<ol style="list-style-type: none"> <li>1. Current 24 months of monthly accumulated flowrate, cumulative running time.</li> <li>2. Current 24 months of daily frozen cumulative quantity, cumulative running time and diagnostic code.</li> </ol>
Power supply	Battery supply 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	

## Flowrate Parameters(R250)

(m<sup>3</sup>/h)

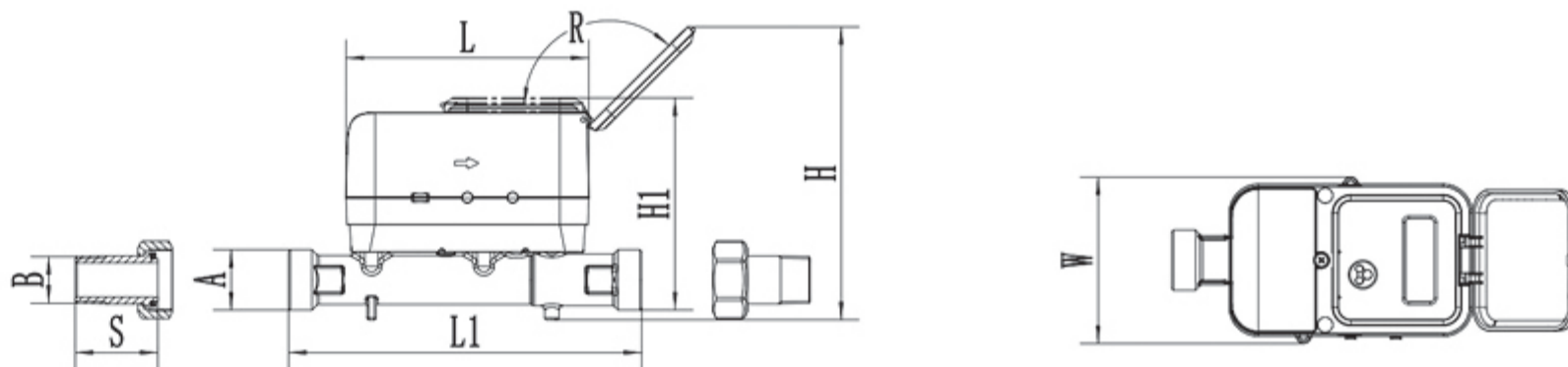
Nominal diameter (mm)	DN15		DN20		DN25	
Minimum Flowrate Q1	0.0064	0.010	0.010	0.016	0.016	0.025
Transitional Flowrate Q2	0.010	0.016	0.016	0.025	0.025	0.040
Permanent Flowrate Q3	1.6	2.5	2.5	4.0	4.0	6.3
Overload Flowrate Q4	2.0	3.125	3.125	5.0	5.0	7.875
Q3/Q1	250	250	250	250	250	250
Pressure Loss	$\Delta p_{40}$	$\Delta p_{63}$	$\Delta p_{40}$	$\Delta p_{63}$	$\Delta p_{40}$	$\Delta p_{63}$

## Flowrate Parameters(R400)

(m<sup>3</sup>/h)

Nominal diameter (mm)	DN15	DN20	DN25
Minimum Flowrate Q1	0.00625	0.010	0.01575
Transitional Flowrate Q2	0.010	0.016	0.0252
Permanent Flowrate Q3	2.5	4.0	6.3
Overload Flowrate Q4	3.125	5.0	7.875
Q3/Q1	400	400	400
Pressure Loss	$\Delta p_{63}$	$\Delta p_{63}$	$\Delta p_{63}$

## Dimensions



Nominal Diameter (mm)	DN15	DN20	DN25
A without Connections	G 3/4B	G 1B	G1 1/4B
B with Connections	R 1/2B	R 3/4B	R1 B
L (mm)	134	134	134
L1 (mm)	165	195	225
H (mm)	158	162	168
H1 (mm)	119	123	128
W (mm)	92	92	92
R (°)	135	135	135
S Connection Length (mm)	45	50	59

# SCL-61H-100

## 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.





## 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.

## 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 <sup>3</sup> ), Instantaneous flow rate (m <sup>3</sup> /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 <sup>3</sup> (1L), Instantaneous flow rate 0.001 m <sup>3</sup> /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 <sup>3</sup> ~1999999.999m <sup>3</sup>	
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	<ol style="list-style-type: none"> <li>1. Current 24 months of monthly accumulated flow rate, cumulative running time and maximum flow rate.</li> <li>2. Current 730 records of daily frozen cumulative quantity, cumulative running time and diagnostic code.</li> <li>3. Reported historical data for at least latest 1 month.</li> <li>4. Latest 60 reported log records.</li> <li>5. Latest 100 alarm records.</li> </ol> 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:

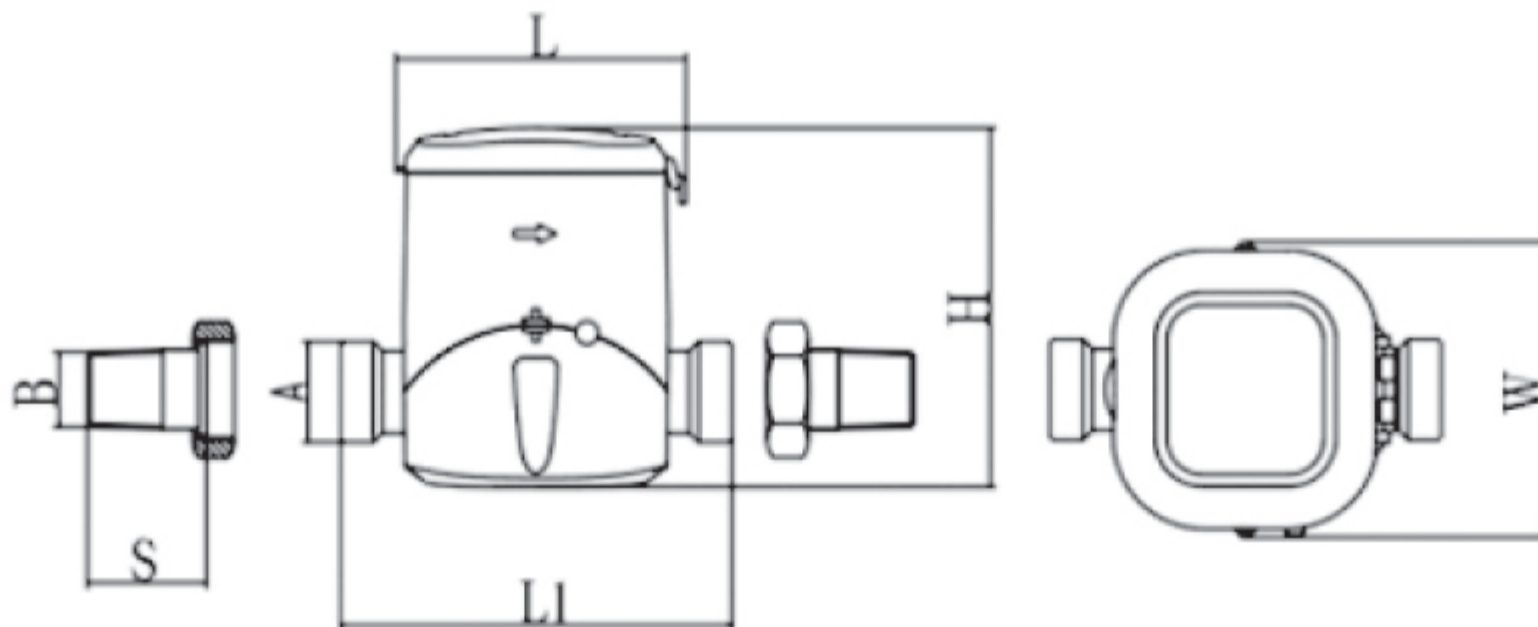
1. Weak signal, data retransmission and high alarm frequency can shorten the battery lifetime.
2. Test for battery lifetime at ambient 25±5℃; Beyond the range, the battery lifetime can be shortened.
3. It cannot be used for reverse measurement.

## Flowrate Parameters

 (m<sup>3</sup>/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	$\Delta p_{40}$	$\Delta p_{40}$

## Dimensions



Nominal Diameter (mm)	DN15
A without Connections	G <sub>4</sub> <sup>3</sup> B
B with Connections	R <sub>2</sub> <sup>1</sup>
L (mm)	97
L1 (mm)	110
H (mm)	119
W (mm)	98
Connection Length S (mm)	45

# SCL-61H-100

## Anti-freezing Ultrasonic Water Meter

### Scope of application

The anti-freezing ultrasonic water meter can work stability under continues low-temperate condition, and it is used for residential areas and buildings.





## Features

- ✓ Low starting flowrate, up to 0.0015 m<sup>3</sup>/h.
- ✓ Integrated mechanical design with protection class of IP68, able to work in long-term water immersion.
- ✓ Micro-power consumption technology, lithium battery powered.
- ✓ No mechanical moving parts and abrasion for long lifetime.
- ✓ Use of ultrasonic flow measurement technology, be installed in different angles without affecting measurement accuracy, low pressure loss.
- ✓ Multiple transmission methods, optical interface, NB-IoT, RS-485, M-Bus and RF radio frequency.
- ✓ Unique anti-freezing design and anti-low temperature electronic devices make the water meter has strong environment adaptability.
- ✓ The meter has the temperature sensor built in it, and is able to alarm in the smart water supply platform when the water temperature is close to 0°C.



## Technical Parameters

Item	Parameter	
Accuracy class	Class 2	
Nominal diameter (mm)	DN15~DN25	
Dynamic range	R160	
Maximum working pressure	1.6MPa	
Working environment	-25℃~+55℃, ≤100%RH(If exceed this range, please specify when ordering)	
Water temperature class	T30, T50, T70 (default: 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	
Operation	Photosensitive key	
Display indication	LCD, 10 digits + prompting characters	
Values displayed	Accumulated flow rate (m <sup>3</sup> ), Instantaneous flow rate (m <sup>3</sup> /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 <sup>3</sup> , Instantaneous flow rate: 0.01m <sup>3</sup> /h, Water temperature: 0.01℃	
Display range	Accumulated flow rate: 0m <sup>3</sup> ~+1999999.999m <sup>3</sup>	
Data communication	Photoelectric interface	Baud rate 2400bps; Protocol EN13757
	NB-IoT	NB-IoT network, data report period once per day (If exceed this range, please specify when ordering)
	RS-485/M-Bus	Baud rate: 2400bps, 4800bps, 9600bps, default: 2400bps; Transmission distance≤1200m; Support CJ/T 188 protocol, Huizhong protocol, Modbus protocol, EN13757 protocol, default: EN13757 protocol
	RF	470MHz/868MHz
Data storage	RS-485/M-Bus/ RF	Storage by EEPROM of cumulative flowrate and effective running time. Data can be saved for a period of 100 years after power failure.
	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	RS-485/M-Bus/ RF	Battery powered DC3.6V, one battery can continuously work for over 10 years
	NB-IoT	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: Test for battery lifetime at ambient 25±5℃; Beyond the range, the battery lifetime can be shortened.

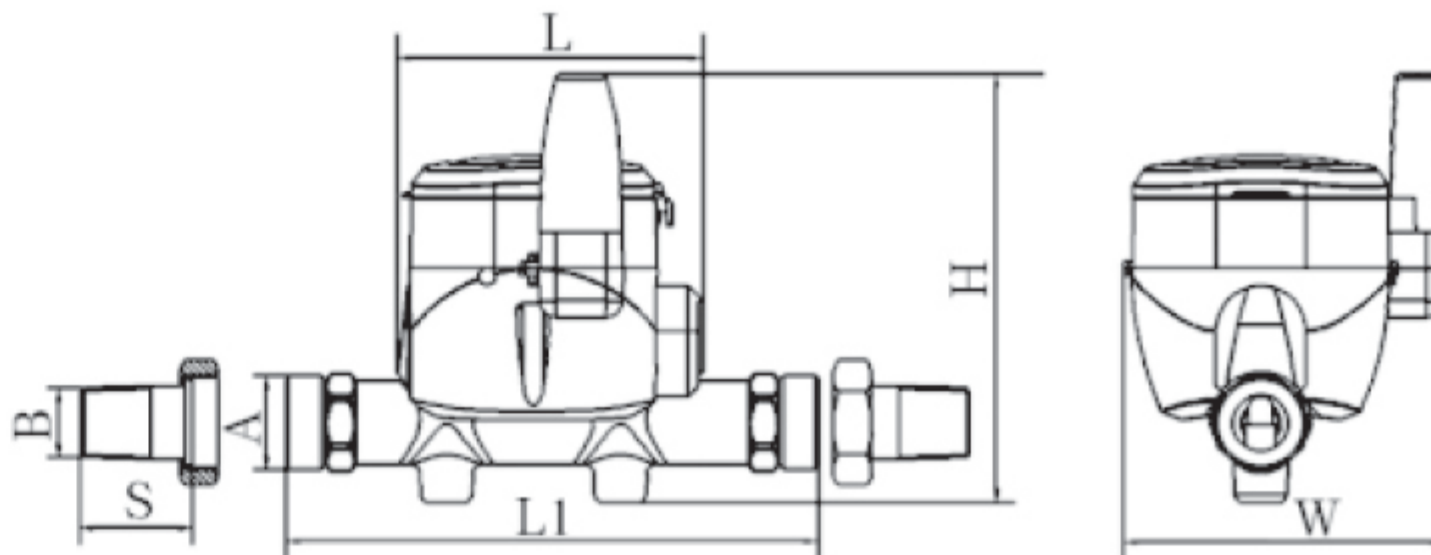
## Dimensions

### Flowrate Parameters

(m<sup>3</sup>/h)

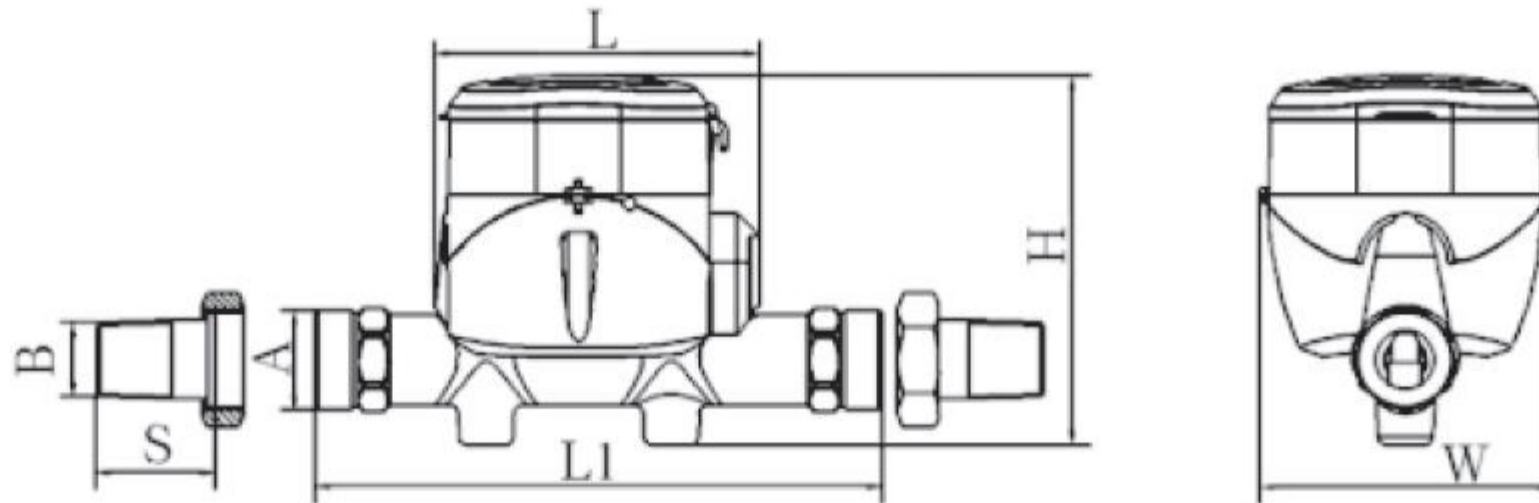
Nominal diameter (mm)	DN15	DN20	DN25
Minimum Flowrate Q1	0.016	0.025	0.039
Transitional Flowrate Q2	0.025	0.040	0.063
Permanent Flowrate Q3	2.5	4.0	6.3
Overload Flowrate Q4	3.125	5.0	7.875
Pressure Loss	$\Delta p_{25}$	$\Delta p_{25}$	$\Delta p_{25}$

#### ■ RF output interface



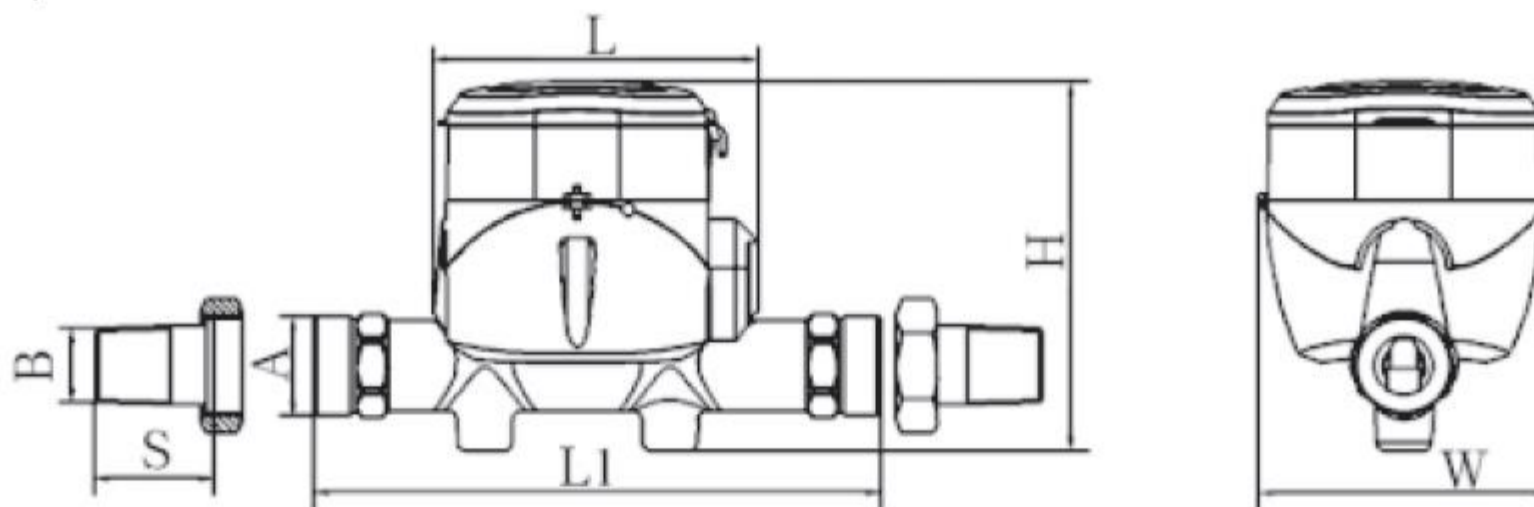
Nominal Diameter (mm)	DN15	DN20	DN25
A without Connections	G $\frac{3}{4}$ B	G1B	G1 $\frac{1}{4}$ B
B with Connections	R $\frac{1}{2}$	R $\frac{3}{4}$	R1
L (mm)	109	109	109
L1 (mm)	165	190	160
H (mm)	149	153	156
W (mm)	115	115	115
Connection Length S (mm)	45	51	59

■ M-Bus/RS-485 output interface



Nominal Diameter (mm)	DN15	DN20	DN25
A without Connections	G $\frac{3}{4}$ B	G1B	G1 $\frac{1}{4}$ B
B with Connections	R $\frac{1}{2}$	R $\frac{3}{4}$	R1
L (mm)	109	109	109
L1 (mm)	165	190/195	160
H (mm)	120	124	127
W (mm)	98	98	98
Connection Length S (mm)	45	51	59

■ NB-IoT output interface



Nominal Diameter (mm)	DN15	DN20	DN25
A without Connections	G $\frac{3}{4}$ B	G1B	G1 $\frac{1}{4}$ B
B with Connections	R $\frac{1}{2}$	R $\frac{3}{4}$	R1
L (mm)	109	109	109
L1 (mm)	165	190/195	160
H (mm)	145	149	152
W (mm)	98	98	98
Connection Length S (mm)	45	51	59

# SCL-61H-100

## LoRaWAN

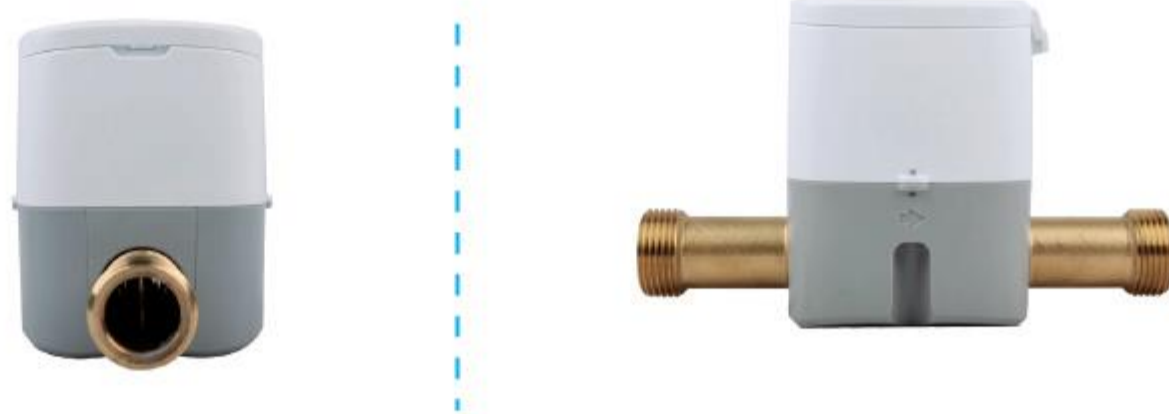
### Ultrasonic Water Meter

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#### Scope of application

Designed for residential area with household metering and billing system, reached the demand of precise measurement and settlement on End-User for water utilities.





## Features

- ✓ Large dynamic range to 400:1.
- ✓ Integrated mechanical design with protection class of IP68, able to work in long-term water immersion.
- ✓ Ultrasonic measuring technology with no mechanical moving parts and pressure loss, improves device serving time.
- ✓ Micro-power consumption technology, battery-powered with lifetime over 10 years.
- ✓ Low starting flowrate, as low as 0.0015m<sup>3</sup>/h.
- ✓ Utilize LoRaWAN to communicate between device side and platform side, which achieves long transmission distance, ultra-low power consumption, low latency, anti-interference, reliable performance, high security with data multiple encryption, and easy to install.
- ✓ Apply Big Data and Cloud computing technology to further discover water supply information and resources.

## Technical Parameters

Item	Parameter
Accuracy Class	Class 2
Nominal Diameter	DN15~DN25
Dynamic range	R250   R400
Max. Permissible Working Pressure	1.6MPa
Working Environment	-25℃~+55℃, ≤100%RH(If exceed this range, please specify when ordering)
Temperature Class	T30
Class of Upstream Flow Field Sensitivity	U10
Class of Downstream Flow Field Sensitivity	D5
Category of Climate & Mechanical Environment Conditions	Class O
Class of Electromagnetic Compatibility	E2
Operation	Photosensitive key
Display	LCD, 10 digits + prompting characters
Contents of Display	Cumulative flowrate(m <sup>3</sup> ), Instantaneous flowrate(m <sup>3</sup> /h), Water temperature (℃), Cumulative effective running time(h), Date(Y/M/D), Time(H/M/S), Meter ID, Software version, LoRaWAN reporting parameter(s)
Display Resolution	Cumulative flowrate 0.001m <sup>3</sup> , Instantaneous flowrate 0.001m <sup>3</sup> /h, Water temperature 0.01℃
Range of Display	Cumulative flowrate: 0m <sup>3</sup> ~1999999.999m <sup>3</sup>
Data Communication	LoRaWAN
Data Storage	1. Current 24 months of monthly accumulated flowrate, cumulative running time. 2. Current 183 days of daily cumulative quantity, cumulative running time and diagnostic code.
Power Supply	Battery powered DC3.6V (battery can continuously work for over 10 years)
Protection Class	IP68
Storage Temperature	-25℃~+55℃
Meter Mounting Position	Water supply pipe

## Flow Parameters: R250

(m<sup>3</sup>/h)

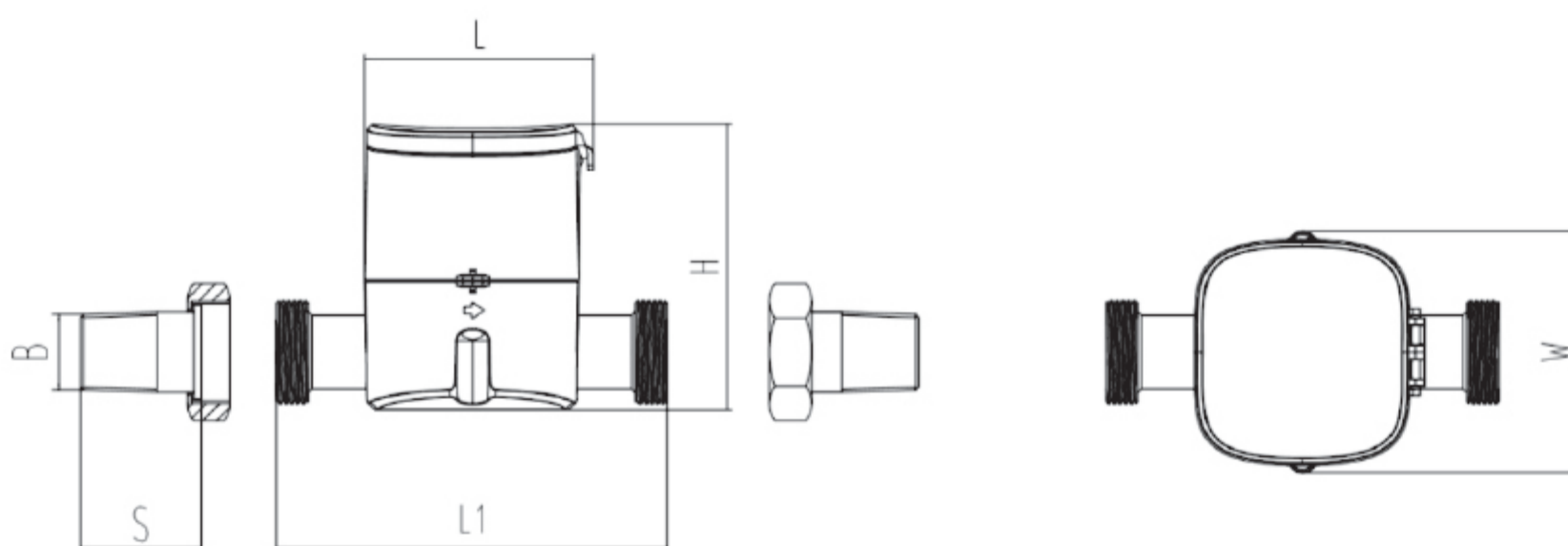
Nominal diameter (mm)	DN15	DN20	DN25
Minimum Flowrate Q1	0.010	0.016	0.025
Transitional Flowrate Q2	0.016	0.025	0.040
Permanent Flowrate Q3	2.5	4.0	6.3
Overload Flowrate Q4	3.125	5.0	7.875
Q3/Q1	250	250	250
Pressure Loss	Δp63	Δp63	Δp63

## Flow Parameters: R400

 (m<sup>3</sup>/h)

Nominal diameter (mm)	DN15	DN20	DN25
Minimum Flowrate Q1	0.006	0.010	0.016
Transitional Flowrate Q2	0.010	0.016	0.025
Permanent Flowrate Q3	2.5	4.0	6.3
Overload Flowrate Q4	3.125	5.0	7.875
Q3/Q1	400	400	400
Pressure Loss	$\Delta p_{63}$	$\Delta p_{63}$	$\Delta p_{63}$

## Dimensions



Nominal Diameter (mm)	DN15	DN20	DN25
A without Connections	G $\frac{3}{4}$ B	G1B	G1 $\frac{1}{4}$ B
B with Connections	R $\frac{1}{2}$	R $\frac{3}{4}$	R1
L (mm)	97	97	97
L1 (mm)	165	190/195	160
H (mm)	119	119	119
W (mm)	98	98	98
Connection Length S (mm)	45	51	59

## **Huizhong Instrumentation Co., Ltd.**

Address: No.126 West Gaoxin Road, High Tech Industrial  
Development Zone, Tangshan, Hebei, China

Post Code: 063020

Service Hotline: 400-612-5080

E-mail: [info@hzyb.com](mailto:info@hzyb.com)

Website: <http://www.huizhong.co>