

# SCL-61HFY-100

## Ultrasonic Water Meter

with Valve and Pressure

**NEW**

### Scope of Application

SCL-61HFY-100 ultrasonic water meter is used for measuring cold water and heat water flow of housing building and regional water supply station.







## Features

- ✓ High precision, long life and accurate measurement.
- ✓ Innovative valve technology, with remote and near-end valve-control function.
- ✓ Integrated pressure measurement, able to reach the demand of monitoring.
- ✓ Micro-power consumption to measure accurately to minimum flow of 0.006 m<sup>3</sup>/h.
- ✓ Small size, good stability, and strong anti-interference ability.
- ✓ Ultrasonic measuring technology to multi-angle installation which not affected instrument measurement and can minimize the pipeline pressure loss.
- ✓ No moving parts on the surface, good wear resistance, and less affected by the impurities in water.
- ✓ Makes waterproof treatment on the display, integration, flow measurement, and temperature measurement components, resulting in an overall instrument protection level of IP68.
- ✓ The meter can communicate with IoT platform through the NB-IoT network to upload and download data.



## Technical Parameters

Item	Parameter	
Accuracy Class	Class 2	
Nominal diameter(mm)	DN15~DN20	
Range ratio R	R400	
Maximum allowable working pressure	1.6MPa	
Water temperature class	T30、 T50	
Class of upstream flow field sensitivity	U0	
Class of downstream flow field sensitivity	D0	
Category of climate& mechanical environment conditions	Class O	
Electromagnetic class	E2	
Material of valve and valve spool	304 stainless steel	
Valve life	More than 10000 times	
Type of connection	Integrated structure of ultrasonic water meter	
Key	Light sensitive key	
Display indication	LCD, 10 digits+prompting characters	
Display content	Accumulated flow(m <sup>3</sup> )、 instantaneous flow(m <sup>3</sup> /h)、 water temperature(℃ )、 cumulative effective running time(h)、 pressure(kPa)、 Valve status、 date(d-m-y)、 time(h.m.s)、 instrument ID、 display test、 CRC calibration / software version	
Display resolution	Accumulated flow 0.00001m <sup>3</sup> , instantaneous flow 0.00001m <sup>3</sup> /h, Water temperature 0.01℃	
Display range	Accumulated flow: 0m <sup>3</sup> ~19999.99999m <sup>3</sup>	
Data communication	Photoelectric interface	Baud rate 2400bps, Even parity, Protocol EN13757
	NB-IoT network	Data report period once per day(If exceed this range, please specify when ordering)
Data storage	NB-IoT network	<ol style="list-style-type: none"> <li>1. Current 24 months of monthly cumulative flow, cumulative running time, and maximum flow rate.</li> <li>2. Current 730 records of daily freeze accumulative quantity, accumulative run times, and diagnostic codes.</li> <li>3. Historical data reported at least one month ago.</li> <li>4. The latest 60 logs are reported.</li> <li>5. The latest 100 alarms are generated.</li> </ol>
Power supply		Battery supply DC3.6V(Continuous working years: more than 10 years)
Protection class		IP68
Storage temperature		-25℃ ~ 55℃
Installation position		Water supply pipe

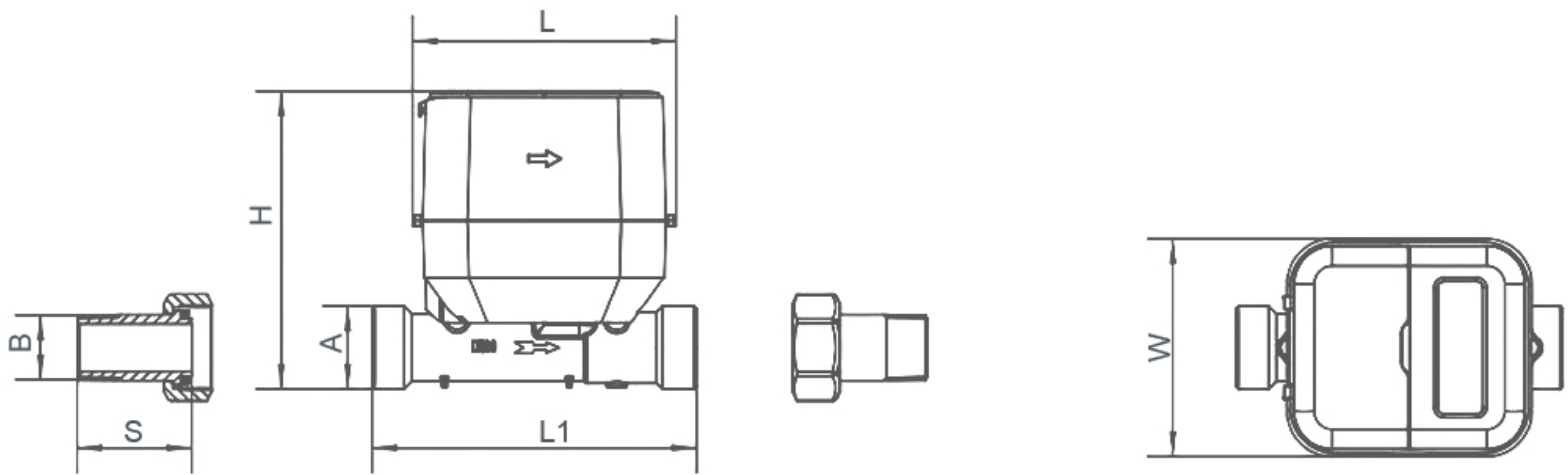
Note:

1. Weak signal, re-sending data and high alarm frequency will shorten battery life;
2. Test for battery lifetime at ambient 25±5℃. Beyond the range, the battery lifetime will be affected;
3. It cannot be used for reverse measurement.

## Flowrate Parameters

Nominal diameter (mm)	Minimum Flowrate Q1	Transitional Flowrate Q2	Permanent Flowmeter Q3	Overload Flowrate Q4	Q3/Q1	Pressure loss
DN15	0.006	0.010	2.5	3.125	400	$\Delta p40$
DN20	0.010	0.016	4.0	5	400	$\Delta p40$

## Product Dimensions



Nominal Diameter(mm)	DN15	DN20
A without Connections	$G\frac{3}{4}B$	G1B
B with Connection	$R\frac{1}{2}B$	$R\frac{3}{4}B$
L(mm)	106	106
L1(mm)	110	130
H(mm)	118	120
W(mm)	87	87
Connection Length S(mm)	45	50