



WEIZIDOM



WEIZIDOM GROUP



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Water Meter

WEIZIDOM GROUP

WEIZIDOM GROUP

Enterprise Social Responsibility

WEIZIDOM are not only concerned about products, services and solutions.

WEIZIDOM promise to implement sustainable development and benefit society with energy-saving and environmental protection.

Our Purpose: People-Oriented, Hard Work, Never forget the original intention, Innovation and forge ahead

Our Mission: To be a high-quality supplier of fluid control systems and plan maker; To contribute our wisdom and strength to the development of the cutting-edge technology of fluid control systems.

Our Vision: Explore the internal innovation spirit and creativity, pursuit, innovation and continuous improvement. Use wisdom, foresight and hard work to make "WEIZIDOM" a world-renowned brand; Make the group company grow into a respectable "Four Satisfaction" enterprise:

Customer Satisfaction: Use high-quality products and refined services to add value to customers;

Employee Satisfaction: People-oriented, build a platform for all employees to realize their dreams, everyone is the CEO;

Partner Satisfaction: Mutual promotion, improve, mutual benefit and win-win;

Shareholder Satisfaction: Enable the company to develop and grow, and return profits.

Our Values: Create differentiated value-added services for customers, let everyone in the company has a sense of accomplishment.



Company Introduction



WEIZIDOM Group specializes in pipeline fluid systems: R&D, production and sales of valves, pipe fittings, water meters, flow meters, etc.

The products cover cast iron, cast steel, stainless steel, copper, plastics and other materials, which are widely used which are widely used in water supply, water treatment, oil & gas, HVAC, mining, paper mill, sugar mill, chemical plant, power plant and other fields.

In recent years, WEIZIDOM Group has actively embraced the era of Internet of Everything, committed to IoT terminal control and artificial intelligence design, big data mining and development, and promoted smart hardware to move towards big data center and wisdom with excellent market foresight and technological innovation. The smart cities, smart heating, smart water and other fields are in progress.

In the early stage, the Internet of Things smart valves and smart water meters were developed to promote and apply smart control systems such as municipal heating and municipal water supply.

In terms of quality control, we have strict control procedures. From the raw materials entering the factory to the final product leaving the factory, after 24 quality inspection passes, each pass must ensure that the product quality is 100% qualified before it can flow into the next process, thus ensuring that the qualified rate of the finished products. WEIZIDOM products can well meet the Chinese standard like GB, JB, HB; American standard like API, ASME, AWWA; British and EU standards like BS, EN, ISO; German standard DIN; Japanese standard JIS; Russian standard GOST and other standards.





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Multi-jet Vane Wheel Dry-Dial Cold Water Meter

LXSG-15N/20N

Water Meter



Application

Measuring the total volume of cold water passing through the pipeline.

Application

- Multi-jet, dry-dial; Magnetic drive ;
- Vacuum sealed register ensures the dial keep free from fog and frost, keep the reading clear in a long term service;
- Anti-magnetic function ;
- Plastic body, Out-adjust, small volume and light weight ;
- Remote transmission device can be added upon request: such as Reed Switch or Hall, Pulse Output:10 L/P.

Standards Compliance

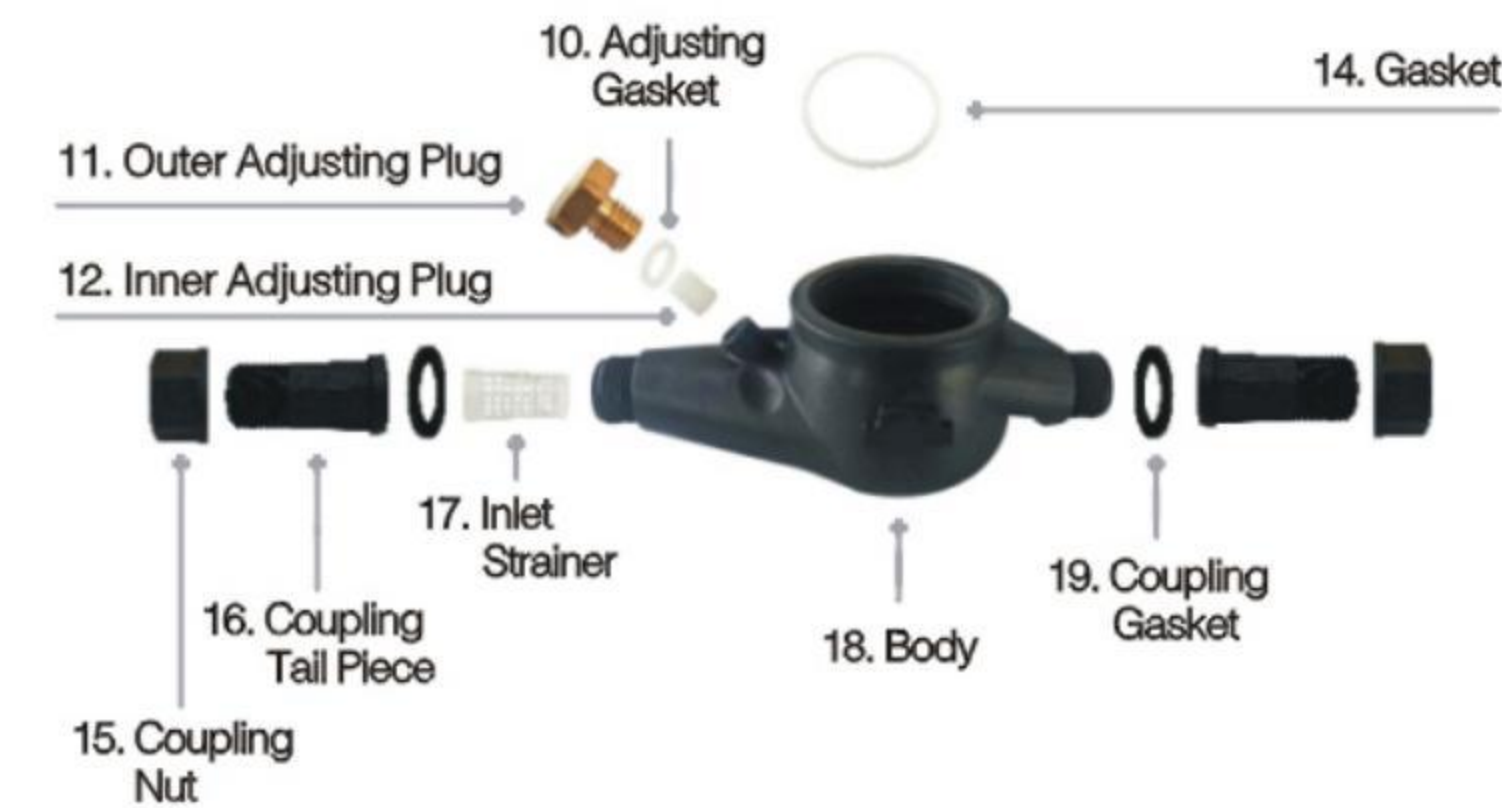
ISO 4064, GB/T 778

Working Conditions

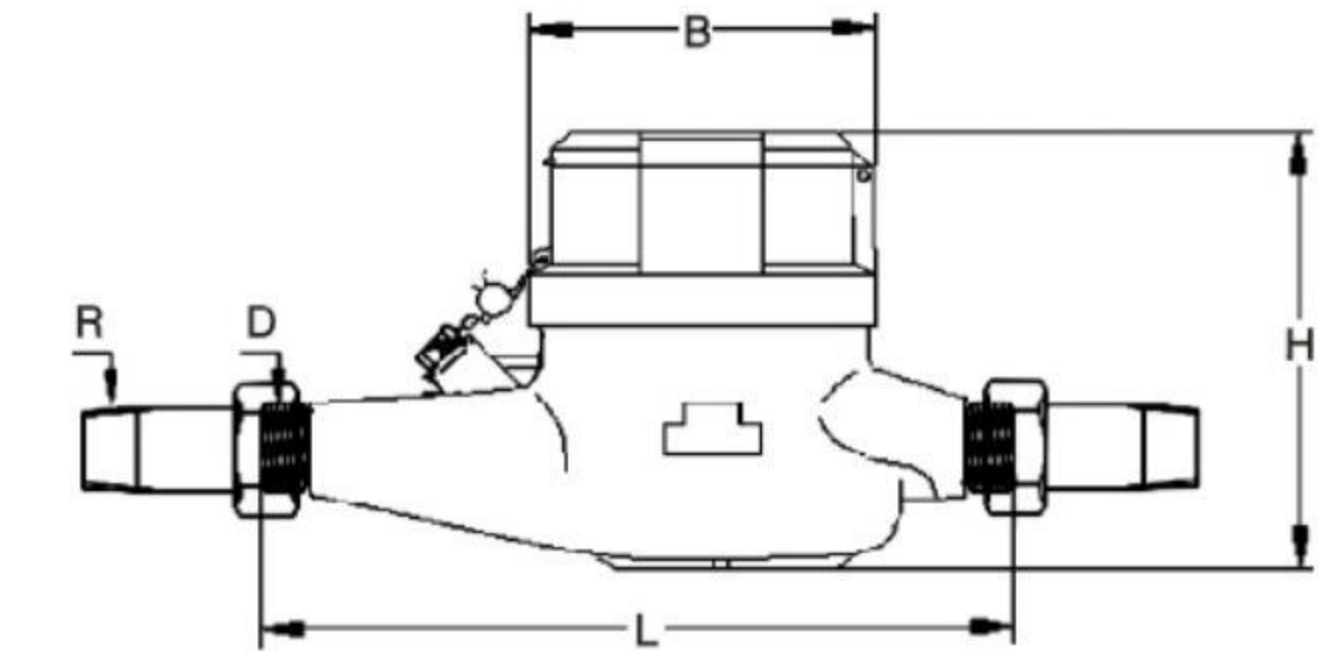
- Water Temperature: T30 T50
- Water Pressure Class: MAP16
- Pressure Loss Class: Δ P63

Maximum Permissible Error

- The MPE for the upper flow rate zone ($Q_2 \leq Q \leq Q_4$) is $\pm 2\%$, for temperatures from 0.1°C to 30°C, and +3% for temperatures greater than 30°C
- The MPE for the lower flow rate zone ($Q_1 \leq Q < Q_2$) is $\pm 5\%$ regardless of the temperatura range.



Dimensions



Type	Size	L Length	B Width	H Height	Connecting Threads	
					D	R
LXSG-15N	1/2"	165	88	114	G3/4	R1/2
LXSG-15N	1/2"	190	88	114	G3/4	R1/2
LXSG-20N	3/4"	190	88	114	G1	R3/4

Main Technical Specifications

Type	Size	Class	Overload Flow	Permanent Flow	Transitional Flow	Min.Flow	Minimum Rezding	Maximum Rezding
			m ³ /h				m ³	
LXSG-15N	1/2"	R160	3.125	2.5	0.025	0.01563	0.00005	99,999
		R100	3.125	2.5	0.04	0.025		
LXSG-20N	3/4"	R160	5	4	0.04	0.025	0.00005	99,999
		R100	5	4	0.064	0.04		

Multi-jet Type Water Meter

Dry-dial Brass body water meters

It is a multi-jet dry type water meter for residential application in sizes 15mm–50mm for cold/hot water.

Features

- Magnetic Drive, Lower transmission resistance.
- Magnetic shield, for external magnetic field protection.
- Sealed dry register ensures long time clear reading.
- External regulating device.

Accessories: 2pcs coupling, 2pcs coupling nuts and 2pcs washers.

Standards Compliance

Technical data conform to international standard ISO 4064.

Optional Features

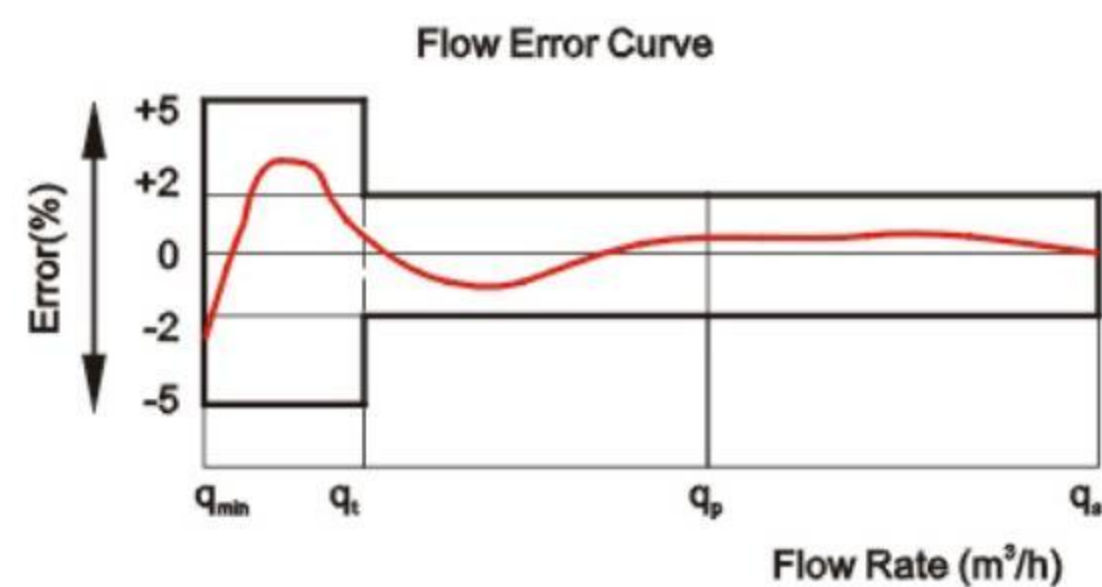
- Register sealed type: Dry type; Semi-dry type; Super-dry type.
- Accuracy: R=80; 100; 125; 160.
- Size: 15~50mm.
- Cold/hot Water.
- Non return valve.
- Reed switch option.
- Several lengths and connections available on request.
- Thread end type: BSP/NPT.

Working Conditions

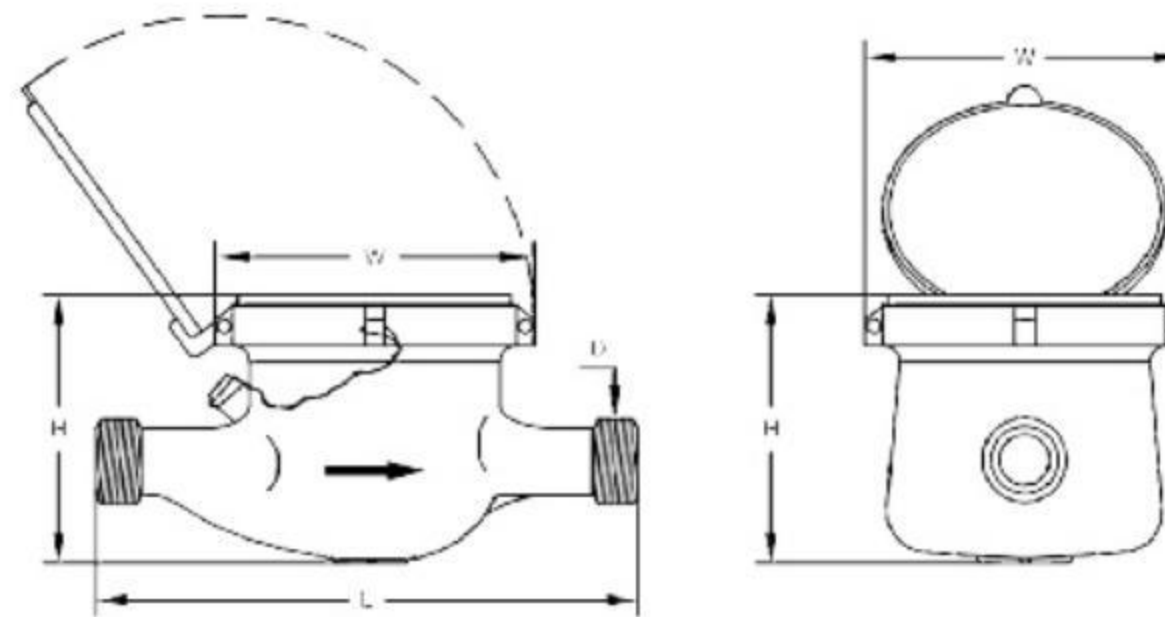
- Water temperature: 0.1°C ~ 40°C for cold water meter.
- 0.1°C ~ 90°C for hot Water meter.
- Water pressure: ≤1.6MPa (16 bar).

Maximum Permissible Error

- In the lower zone from q_{min} inclusive up to but excluding q_t is $\pm 5\%$.
- In the upper zone from q_t inclusive up to and including q_s is $\pm 2\%$; $\pm 3\%$ for hot water meter.



Overall Dimension And Weight



DN (mm)	15	20	25	32	40	50	50
Size (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2"
Length (L)	165/190	190	260	260	300	300	280
Width (W)	99/104	98	103.5	103.5	125	125	160
Height (H)	116/121	117	124	124	162	162	187.5
Connecting Thread D	G3/4B	G1B	G1 1/4B	G1 1/2B	G2B	G2 1/2B	Flange end
Weight (kgs)	1.65	1.79	1.85	2.68	5.25	7.25	



Exploded View



Warranty

All meters will be guaranteed against defects in workmanship and materials for a period of one(1) year from the date of acceptance. Defective meters or parts discovered within this period shall be replaced without charge upon return to the WEIZIDOM Meters.

Water Meter

Technical Data

DN(mm)	15	20	25	32	40	50
Size(inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Q4(l/h)	3125	5000	7875	12500	20000	31250
Q3(l/h)	2500	4000	6300	10000	16000	25000
R=80	Q2(l/h)	50	80	126	200	320
	Q1(l/h)	31.25	50	78.75	125	200
R=100	Q2(l/h)	40	64	100.8	160	256
	Q1(l/h)	25	40	63	100	160
R=125	Q2(l/h)	32	51.2	80.64	128	204.8
	Q1(l/h)	20	32	50.5	80	128
R=160	Q2(l/h)	22.5	40	63	100	160
	Q1(l/h)	15.62	25	39.37	62.5	100
Max. Reading(m³)	99,999	99,999	99,999	99,999	99,999	99,999
Min. Reading(Liter)	0.05	0.05	0.05	0.05	0.05	0.05
Max. Pressure(Bar)	16	16	16	16	16	16
Pressure Loss(ΔP)	63					
Max. Temperature	T=50/90					
Pulse Output Option	Vmax=24V					
	Imax=100mA					
	Pmax=2W					

Pulse Output Option



Magnet Position	Liter/Pulse
*0.0001	1
*0.001	10
*0.01	100
*0.1	1000

Multi-jet Type Water Meter

Dry-dial Plastic body water meters

It is a multi-jet dry type water meter for residential application in sizes 15mm-50mm for cold water.

Features

- All the plastic raw material is 100% new material, not any second-hand material.
- High working pressure can afford PN16.
- Magnetic Drive, Lower transmission resistance.
- Magnetic shield, for external magnetic field protection.
- Sealed dry register ensures long time clear reading.
- External regulating device.

Accessories: 2pcs coupling, 2pcs coupling nuts and 2pcs washers.

Standards Compliance

Technical data conform to international standard ISO 4064.

Optional Features

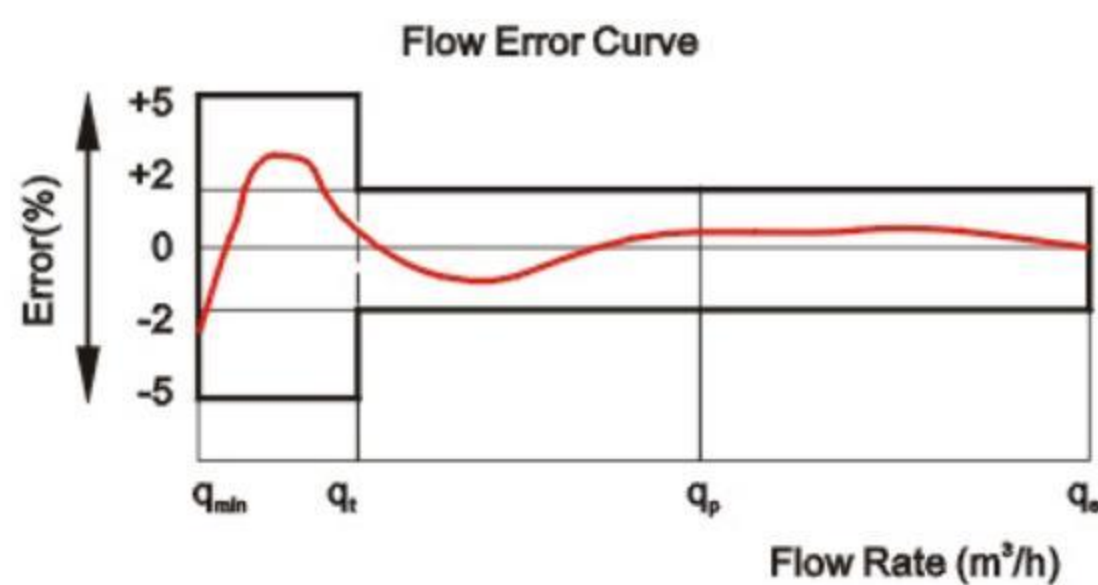
- Register Sealed type: Dry type.
- Accuracy: R80, R100, R160.
- Size: 15 ~ 50mm.
- Non return valve.
- Reed switch option.
- Thread end type: BSP/NPT.

Working Conditions

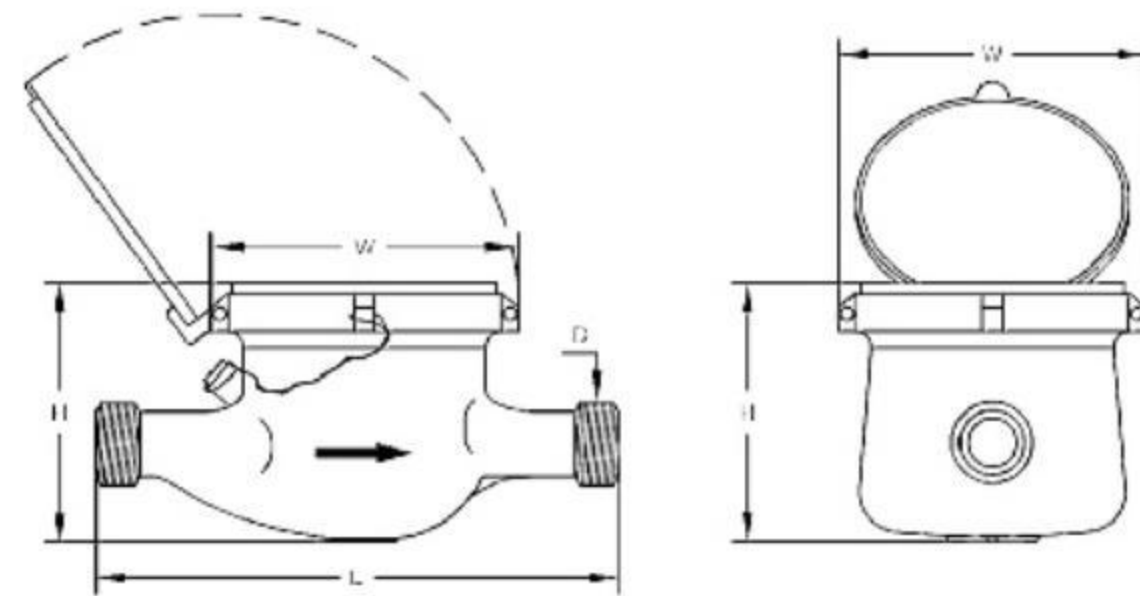
- Water temperature: 0.1°C ~ 40°C for cold water meter.
- Water pressure: ≤1.6MPa (16 bar).

Maximum Permissible Error

- In the lower zone from q_{min} inclusive up to but excluding q_t is $\pm 5\%$.
- In the upper zone from q_t inclusive up to and including q_s is $\pm 2\%$.



Overall Dimension And Weight



DN (mm)	15	20	25	32	40	50	50
Size (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
Length (L)	165/190	190	260	260	300	300	280
Width (W)	99/104	98	103.5	103.5	125	125	160
Height (H)	116/121	117	124	124	162	162	187.5
Connecting Thread D	G3/4B	G1B	G1 1/4B	G1 1/2B	G2B	G2 1/2B	Flange end
Weight (kgs)	1.65	1.79	1.85	2.68	5.25	7.25	



Water Meter

Technical Data

DN(mm)	15	20	25	32	40	50	
Size(inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
Q4(l/h)	3125	5000	7875	12500	20000	31250	
Q3(l/h)	2500	4000	6300	10000	16000	25000	
R=80	Q2(l/h)	50	80	126	200	320	400
	Q1(l/h)	31.25	50	78.75	125	200	250
R=100	Q2(l/h)	40	64	100.8	160	256	400
	Q1(l/h)	25	40	63	100	160	250
R=125	Q2(l/h)	32	51.2	80.64	128	204.8	200
	Q1(l/h)	20	32	50.5	80	128	
R=160	Q2(l/h)	22.5	40	63	100	160	400
	Q1(l/h)	15.62	25	39.37	62.5	100	250
Max. Reading(m³)	99,999	99,999	99,999	99,999	99,999	99,999	
Min. Reading(Liter)	0.05	0.05	0.05	0.05	0.05	0.05	
Max. Pressure(Bar)	16	16	16	16	16	16	
Pressure Loss(ΔP)	63						
Max. Temperature	T=50/90						
Pulse Output Option	Vmax=24V						
	Imax=100mA						
	Pmax=2W						

Pulse Output Option



Magnet Position	Liter/Pulse
*0.0001	1
*0.001	10
*0.01	100
*0.1	1000

Exploded View



Warranty

All meters will be guaranteed against defects in workmanship and materials for a period of one (1) year from the date of acceptance. Defective meters or parts discovered within this period shall be replaced without charge upon return to the WEIZIDOM Meters.

LXSG-C water meters

WEIZIDOM LXSG-C PLUS is IMPELLER (turbine) water meter with dry type register for residential application with sizes from DN15 to Dn50 designed by WEIZIDOM and meets to the International Standard ISO 4064 Class C

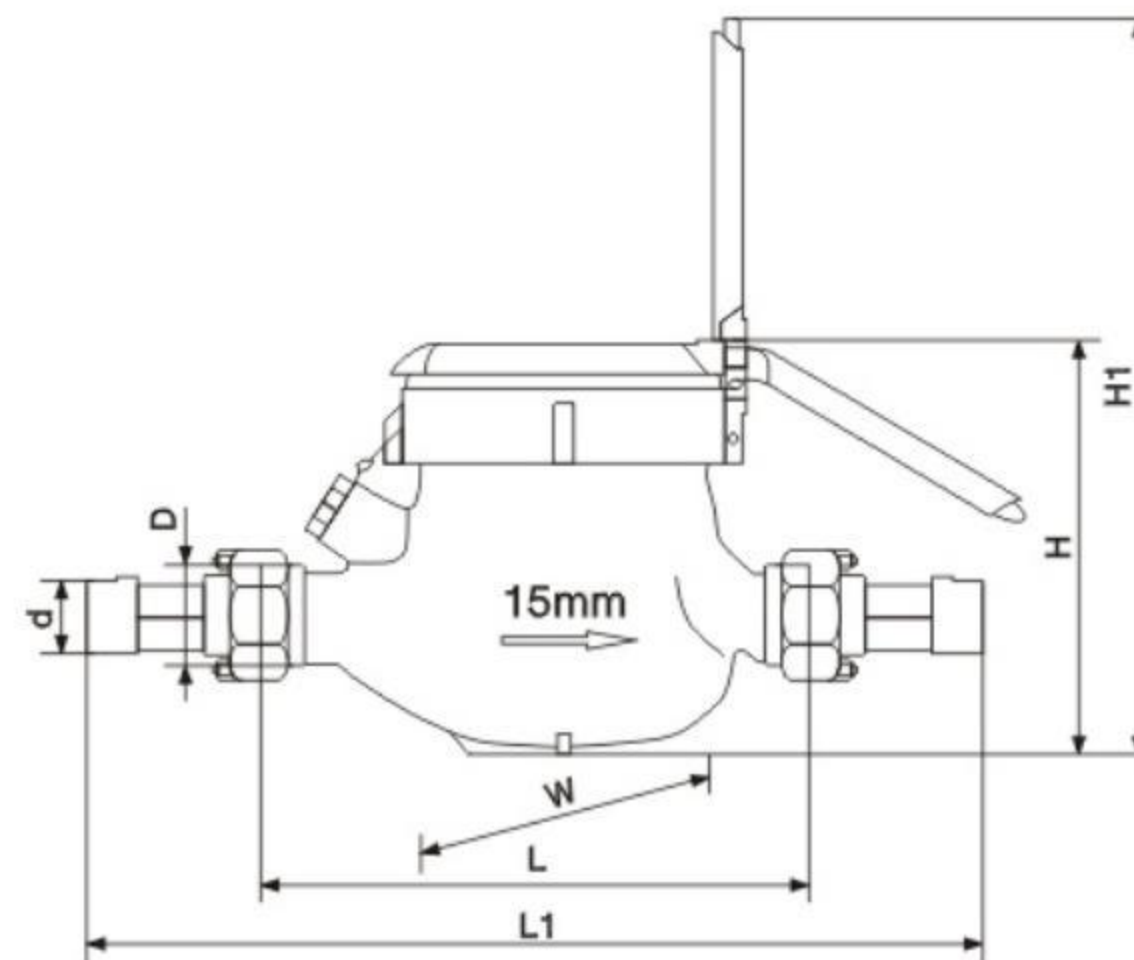
Characteristics

- All the Materials in contact with water, consciously selected by the known resistance to corrosion;
- Cold water meter under current standard for lower than 30°C (T30), but NWM LXSG-C PLUS can be used safely in water temperature up to 50°C(T50);
- The indicator register is of 5 Rollers and 4 Pointers;
- The Impeller is the only moving parts in contact with water permitting the most reliable;
- The inlet filter at the inlet of the meter body permits cleaning it without breaking the metrological seal;
- The conception of the Magnetic Protection to against the external influences;
- The highest sensitivity dry type water meter;
- Non Return Valve to avoid the reserve flow Rate AS OPTION;
- The indicator register is of 8 Rollers with 1 Pointer AS OPTION.

Max. Permission Error:

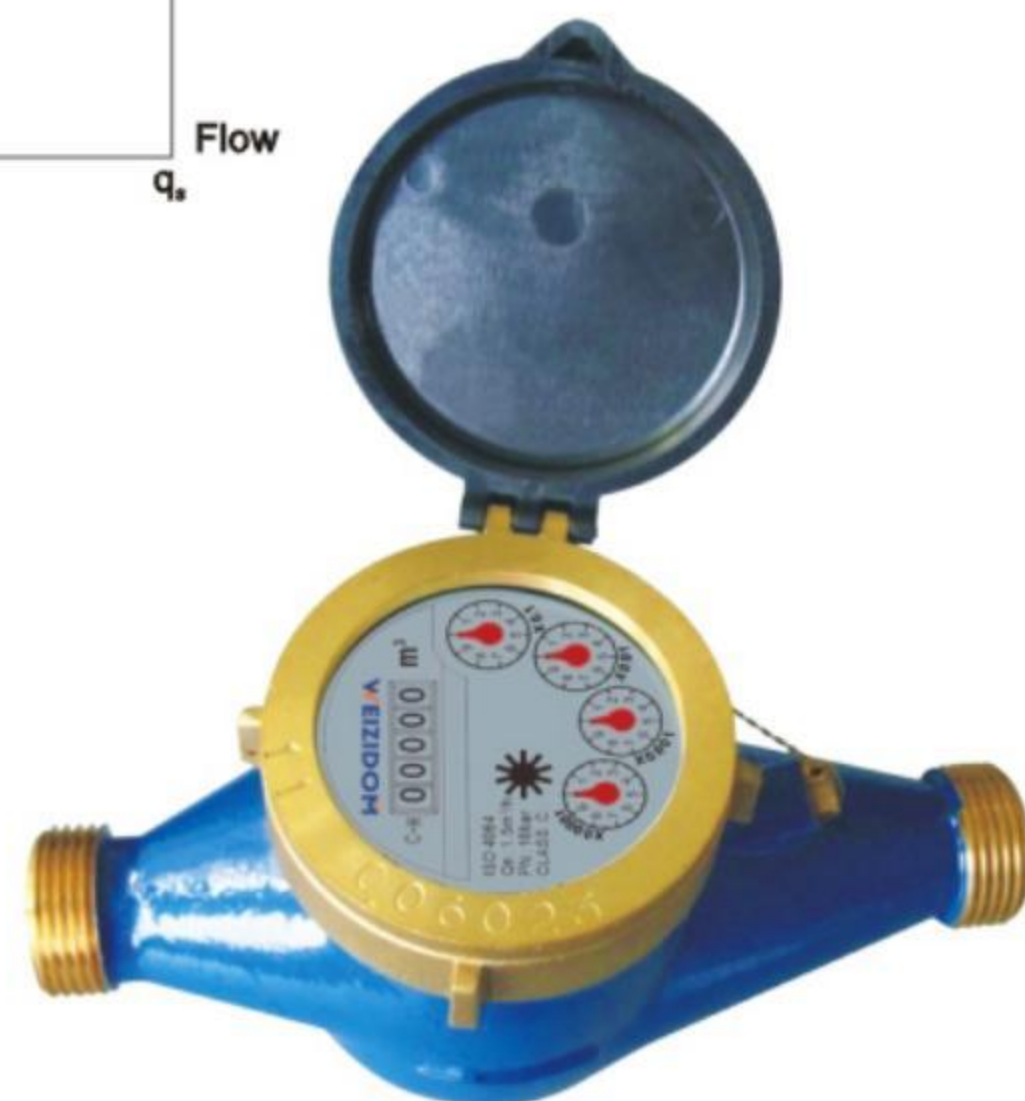
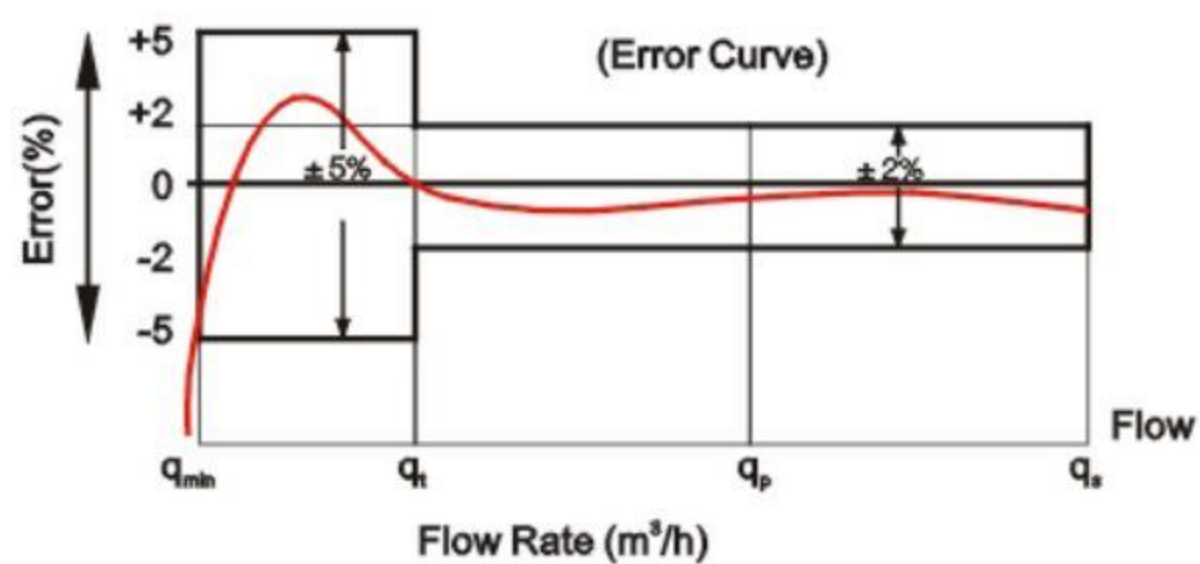
- From Qmin inclusive up to but excluding Qt is ± 5%;
- From Qt inclusive up to and including Qmax is ± 2%.

Dimension



Size	15	20	25	32	40	50
L	165	190	260	260	300	300
L1	259	294	380	384	431	448
D	G3/4B	G1B	G1 1/4B	G1 1/2B	G2B	G2 1/2B
d	R1/2	R3/4	R1	R1 1/4	R1 1/2	R2
H	107.5	107.5	117.5	117.5	141.5	177
H1	191	191	206.5	206.5	256.5	292
W	94	94	98	98	122	145

L1: The total length with connection and the gasket without compression.

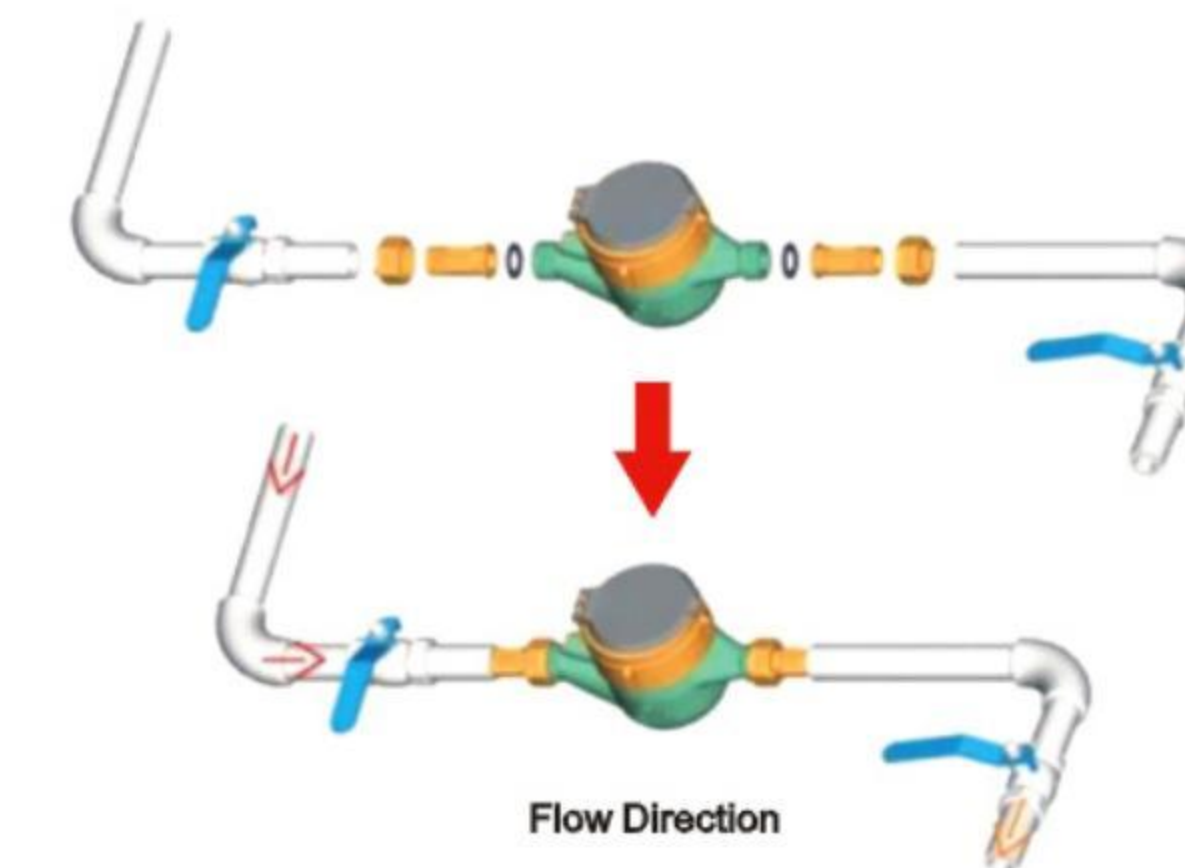


Main Technical Data

Size	mm	15	20	25	32	40	50
Class		C					
Qmax	m³/h	3	5	7	12	20	30
Qn	m³/h	1.5	2.5	3.5	6	10	15
Qt	l/h	22.5	37.5	52.5	90	150	225
Qmin	l/h	15	25	35	60	100	150
Max. Reading	m³	99999.9999			999999.9999		
Min. Reading	Liter	0.05					
Pressure Loss	ΔP	ΔP<1bar at Qmax					
Max. Pressure	Bar	16					
Max. Temperature	°C	T30 or T50					

Installation

- The meters should be installed in HORIZONTAL position with the direction of the flow as indicated by the arrow cast on the meter body with register face upwards;
- Pipeline must be flushed before installation;
- The meter should be constantly full of water during operation.
- WEIZIDOM Suggest to Installation the water meter as:



Warranty

All meters will be guaranteed against defects in workmanship and materials for a period of one(1) year from the date of acceptance. Defective meters or parts discovered within this period shall be replaced without charge upon return to the WEIZIDOM Meters.

Multi-jet Type Water Meter

Dry-dial Vertical Type Water Meters

It is a multi-jet dry type water meter for residential application in sizes 15mm-50mm for cold/hot water.

Features

- Magnetic Drive, Lower transmission resistance.
- Magnetic shield, for external magnetic field protection.
- Sealed dry register ensures long time clear reading.
- External regulating device.

Accessories: 2pcs coupling, 2pcs coupling nuts and 2pcs washers.

Standards Compliance

Technical data conform to international standard ISO 4064.

Optional Features

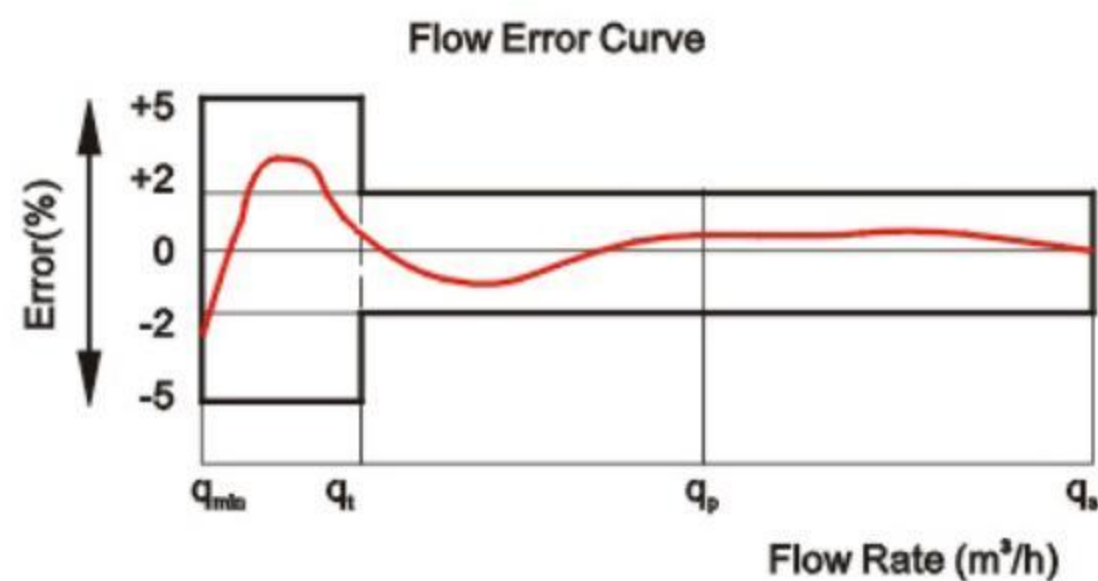
- Register Sealed type: Dry type; Super-dry type.
- Accuracy: R=80.
- Size: 15 ~ 50mm.
- Cold/hot water.
- Non return valve.
- Reed switch option.
- Several lengths and connections available on request.
- Thread end type: BSP/NPT.

Working Conditions

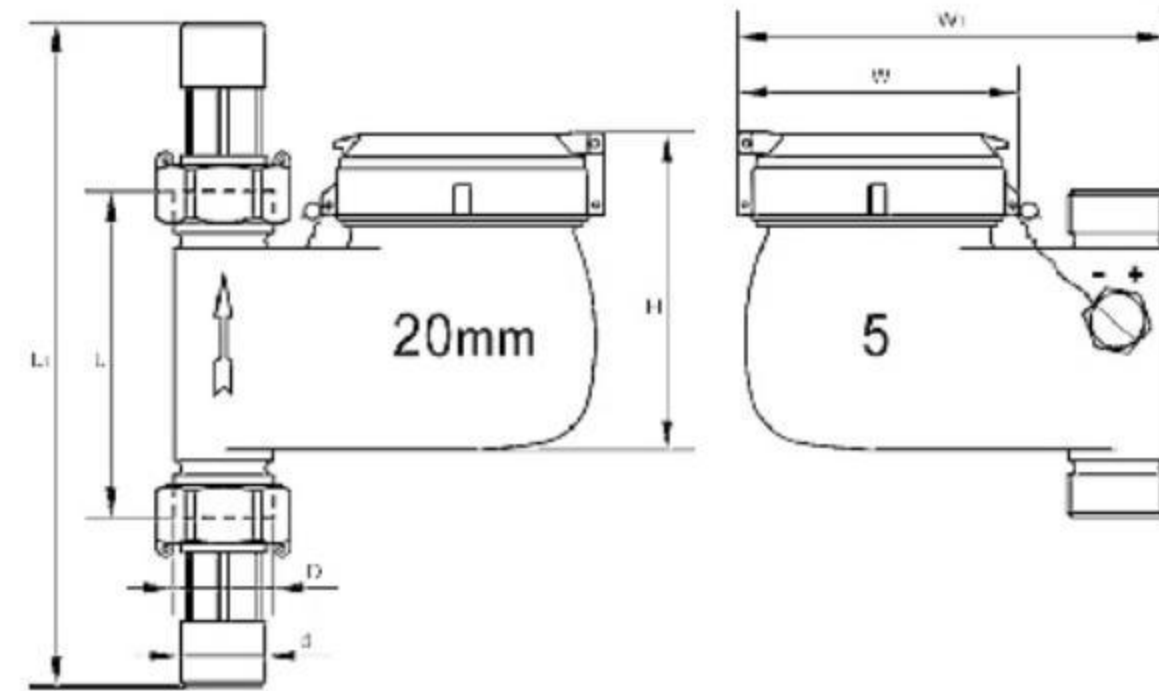
- Water temperature: 0.1°C ~ 40°C for cold water meter.
- 0.1°C ~ 90°C for hot Water meter.
- Water pressure: ≤1.6MPa (16 bar).
- The meter should be installed in vertical position with the direction of the flow as indicated by the arrow cast in the meter body with the register face upwards.
- Pipelining must be flushed before installation.
- The meter should be constantly full of water during operation.

Maximum Permissible Error

- In the lower zone from q_{min} inclusive up to but excluding q_t is $\pm 5\%$.
- In the upper zone from q_t inclusive up to and including q_s is $\pm 2\%$; $\pm 3\%$ for hot water meter.



Overall Dimension And Weight



DN (mm)	15	20	25	32	40
Size (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"
L1	195	204	228	274	278
L	100	100	108	150	150
H	99.5	99.5	122.6	133.6	133.6
W1	133	137	166	220	228
Connecting Thread D	G3/4B	G1B	G1 1/4B	G1 1/2B	G2B
d	R1/2	R3/4	R1	R1 1/4	R1 1/2



Water Meter

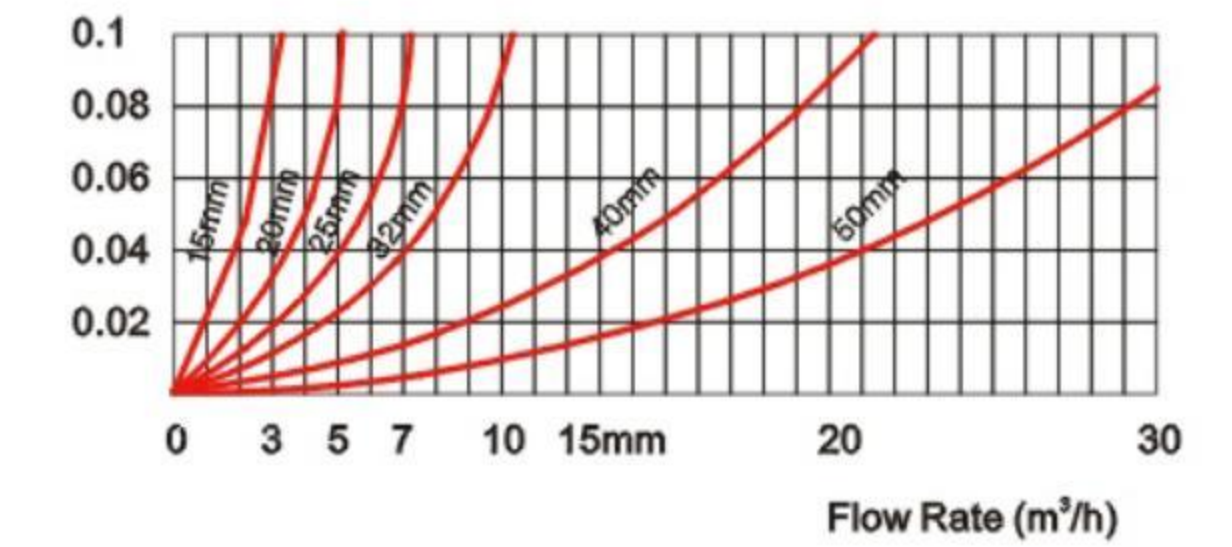
Exploded View



Technical Data

DN(mm)	15	20	25	32	40	50
Size(inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Q4(l/h)	3125	5000	7875	12500	20000	31250
Q3(l/h)	2500	4000	6300	10000	16000	25000
R=80	Q2(l/h)	50	80	126	200	320
	Q1(l/h)	31.25	50	78.75	125	200
Max. Reading(m³)	99,999	99,999	99,999	99,999	99,999	99,999
Min. Reading(Liter)	0.05	0.05	0.05	0.05	0.05	0.05
Max. Pressure(Bar)	16	16	16	16	16	16
Pressure Loss(ΔP)	63					
Max. Temperature	T=50/90					
Pulse Output Option	Vmax=24V					
	Imax=100mA					
	Pmax=2W					

Pressure Loss Curve



Warranty

All meters will be guaranteed against defects in workmanship and materials for a period of one (1) year from the date of acceptance. Defective meters or parts discovered within this period shall be replaced without charge upon return to the WEIZIDOM Meters.

Single Jet Dry Type-5 Wheels

Single-jet, vane wheel, dry-dial water meter

This type of water meter can be used for a remote reading transmission system as equipped with a built-in sensor.

Application

Measuring the volume of cold potable water passing through the pipeline.

Features

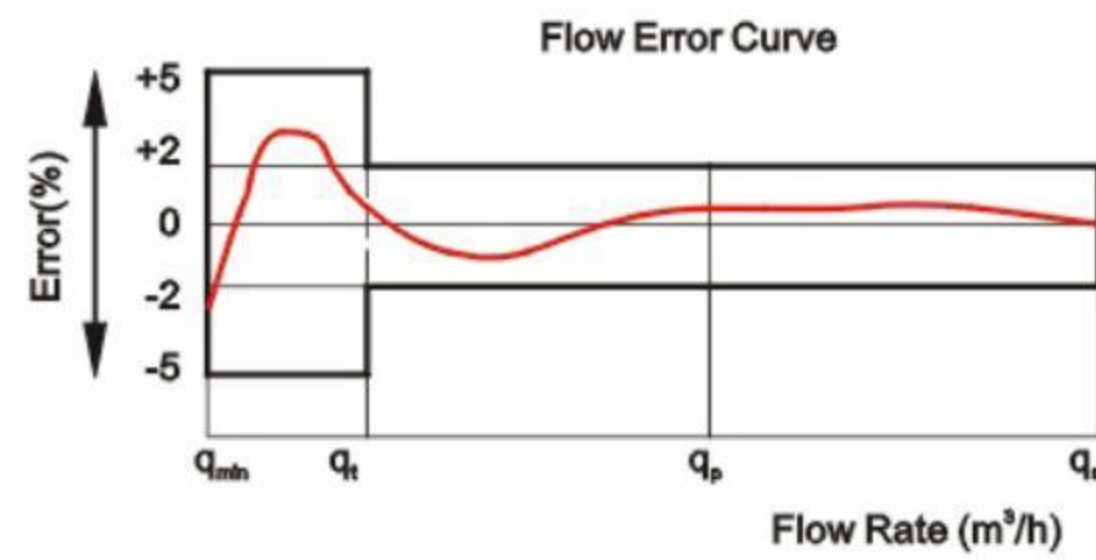
- Single-jet, dry-dial, free rotating register, small in size and light in weight.
- Magnetic drive, Resistance to exterior magnet interference.
- Keep the reading clear in a long term service.

Working Conditions

- Water temperature: 0.1°C ~ 40°C (0.1°C ~ 90°C for hot water meter).
- Water pressure: ≤ 1.0MPa.

Maximum Permissible Error

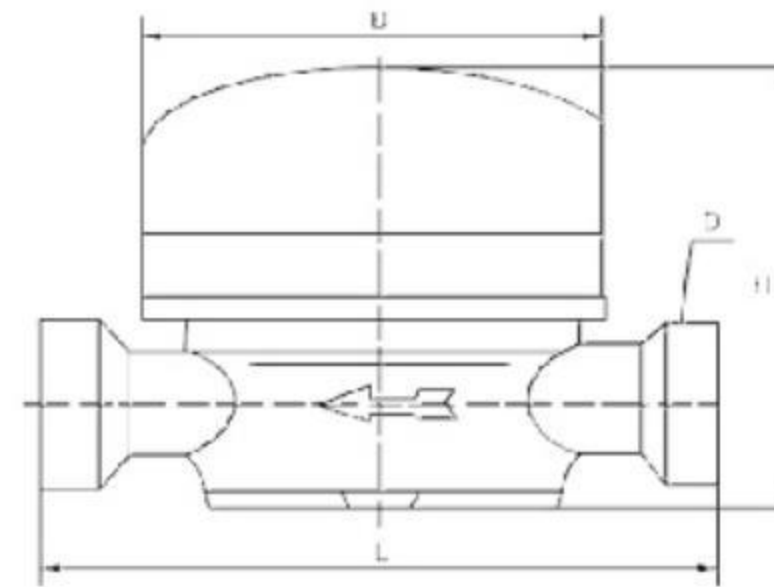
- In the lower zone from q_{min} inclusive up to but excluding q_t is $\pm 5\%$.
- In the upper zone from q_t inclusive up to and including q_s is $\pm 2\%$.
- Hot water meter $\pm 3\%$.



Optional Features

- Measuring accuracy conform to ISO 4064 class B standard.
- Available with different length on request.
- Body material: Brass/Plastic body.
- Register sealed: Dry-dial only.
- Size: 15 ~ 25mm.
- Cold/hot water.
- Non-return valve.
- Reed switch option.
- Thread end type: BSP/NPT.

Dimensions



Type	Size	L Length	B Width	H Height	D Connecting Thread
		mm			
LXDG-15	15	110	82	89	G3/4B
LXDG-20	20	130	82	89	G1B
LXDG-25	25	130	82	89	G1 1/4B



Water Meter

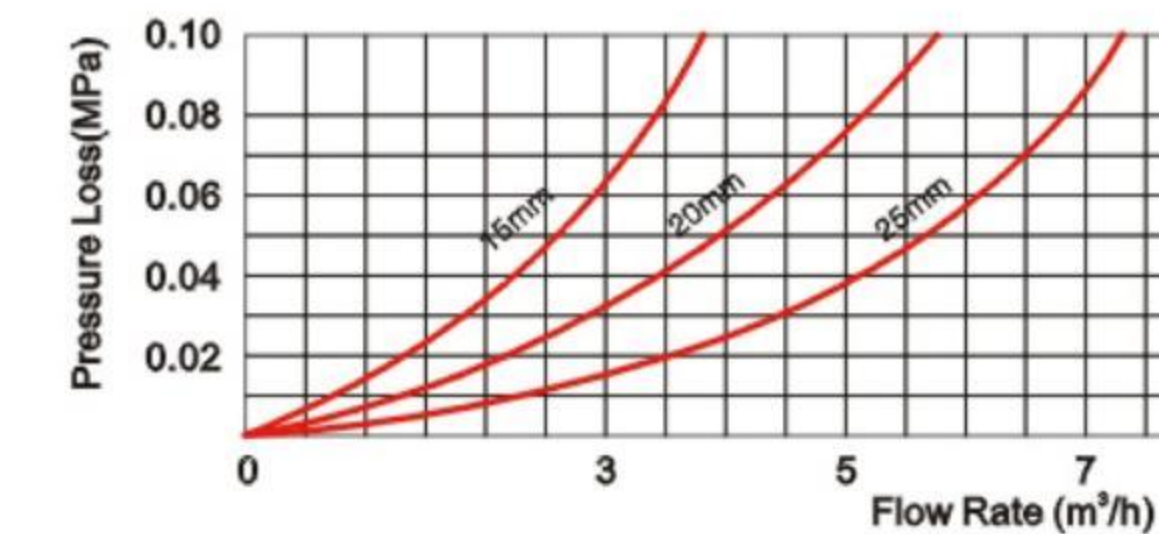
Technical Data

DN(mm)	15	20	25	
Size(inch)	1/2"	3/4"	1"	
Q4(l/h)	3125	5000	7875	
Q3(l/h)	2500	4000	6300	
R=80	Q2(l/h)	50	80	126
	Q1(l/h)	31.25	50	78.75
R=100	Q2(l/h)	40	64	100.8
	Q1(l/h)	25	40	63
R=125	Q2(l/h)	32	51.2	80.64
	Q1(l/h)	20	32	50.5
R=160	Q2(l/h)	22.5	40	63
	Q1(l/h)	15.62	25	39.37
Max. Reading(m³)	99,999	99,999	99,999	
Min. Reading(Liter)	0.05	0.05	0.05	
Max. Pressure(Bar)	16	16	16	
Pressure Loss(ΔP)	63			
Max. Temperature	T=50/90			
Pulse Output Option	Vmax=24V			
	Imax=100mA			
	Pmax=2W			

Exploded View



Pressure Loss Curve



Warranty

All meters will be guaranteed against defects in workmanship and materials for a period of one (1) year from the date of acceptance. Defective meters or parts discovered within this period shall be replaced without charge upon return to the WEIZIDOM Meters.

Pulse Output Option



Magnet Position	Liter/Pulse
*0.0001	1
*0.001	10
*0.01	100
*0.1	1000

Single Jet Dry Type-8 Wheels

Single-jet, vane wheel, dry-dial water meter
(mini type with eight number wheels)

Application

Measuring the volume of cold potable water passing through the pipeline.

Features

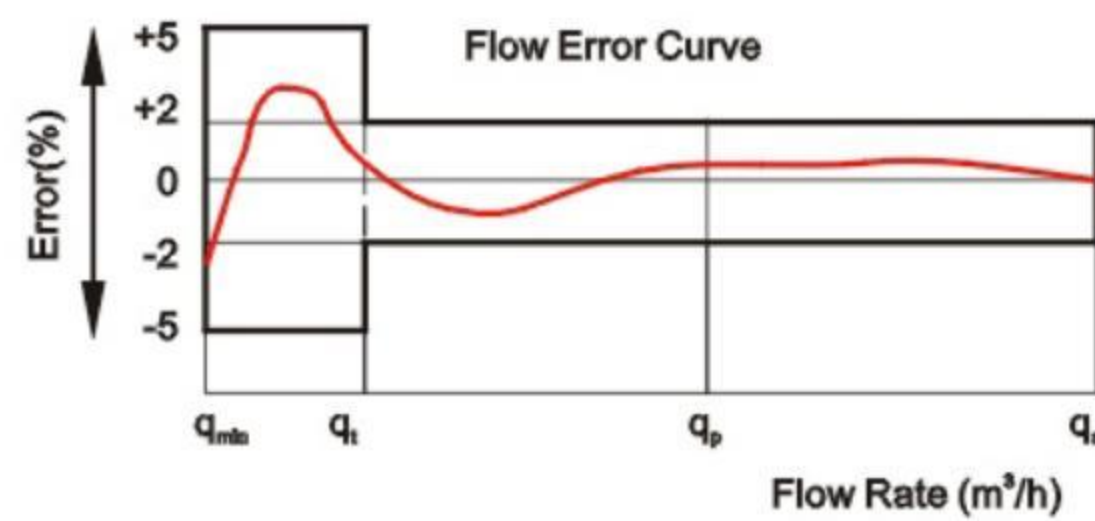
- Single-jet, dry-dial, free rotating register, small in size and light in weight.
- Magnetic drive, Resistance to exterior magnetic interference.
- Keep the reading clear in a long term service.

Working Conditions

- Water temperature: 0.1°C ~ 30°C.
- Water pressure: ≤ 1.0MPa.

Maximum Permissible Error

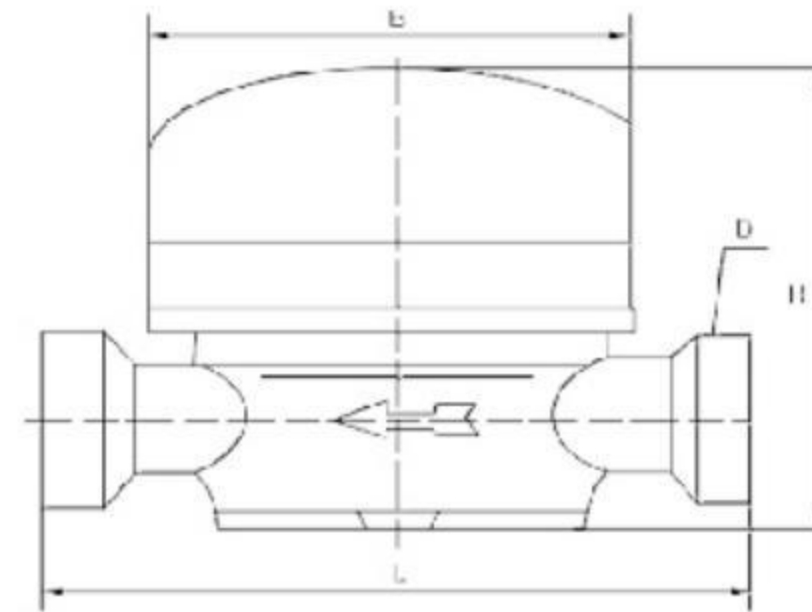
- In the lower zone from Q_{min} inclusive up to but excluding Q_t is $\pm 5\%$.
- In the upper zone from Q_t inclusive up to and including Q_s is $\pm 2\%$.



Optional Features

- Measuring accuracy conform to ISO 4064 class B standard.
- Available with different length on request.
- Body material: Brass/Plastic body.
- Register sealed: Dry-dial only.
- Size: 15 ~ 25mm for Brass body, 15~20 for plastic body.
- Cold/hot water.
- Non-return valve.
- Reed switch option.
- Thread end type: BSP/NPT.

Dimensions



Type	Size	L Length	B Width	H Height	D Connecting Thread
LXDG-15	15	110	67.5	72	G3/4B
LXDG-20	20	130	67.5	73.5	G1B



Water Meter

Exploded View



Technical Data

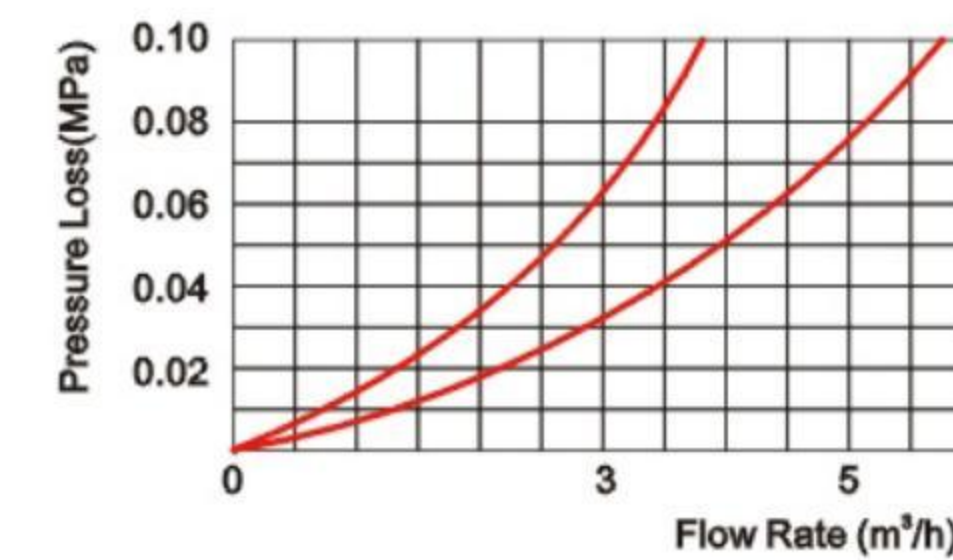
DN(mm)	15	20	
Size(inch)	1/2"	3/4"	
Q4(l/h)	3125	5000	
Q3(l/h)	2500	4000	
R=80	Q2(l/h)	50	80
	Q1(1/h)	31.25	50
R=100	Q2(l/h)	40	64
	Q1(1/h)	25	40
Max. Reading(m³)	99,999	99,999	
Min. Reading(Liter)	0.05	0.05	
Max. Pressure(Bar)	16	16	
Pressure Loss(ΔP)	63		
Max. Temperature	T=50/90		
Pulse Output Option	Vmax=24V		
	Imax=100mA		
	Pmax=2W		

Pulse Output Option



Magnet Position	Liter/Pulse
*0.0001	1

Pressure Loss Curve



Warranty

All meters will be guaranteed against defects in workmanship and materials for a period of one(1) year from the date of acceptance. Defective meters or parts discovered within this period shall be replaced without charge upon return to the WEIZIDOM Meters.

Movement Copper Sealed Water Meter

Multi-jet, vane wheel, dry-dial cold(hot) water meter

This type of water meter can be used for a remote reading transmission system is equipped with a built-in sensor.

Application

Measuring the total volume of cold (hot) water passing through the pipeline.

Features

- Multi-jet, dry-dial; Magnetic drive;
- Vacuum sealed register ensures the dial keep free from fog and frost, Keep the reading clear in a long term service;
- Removable measuring unit, easy installation and main-tenance, Anti-magnetic function;
- Counter 360 rotates for easy reading;
- Brass body, Out-adjust, Small volume and light weight;
- Technical data conform to international standard ISO4064 (Class B or R80).

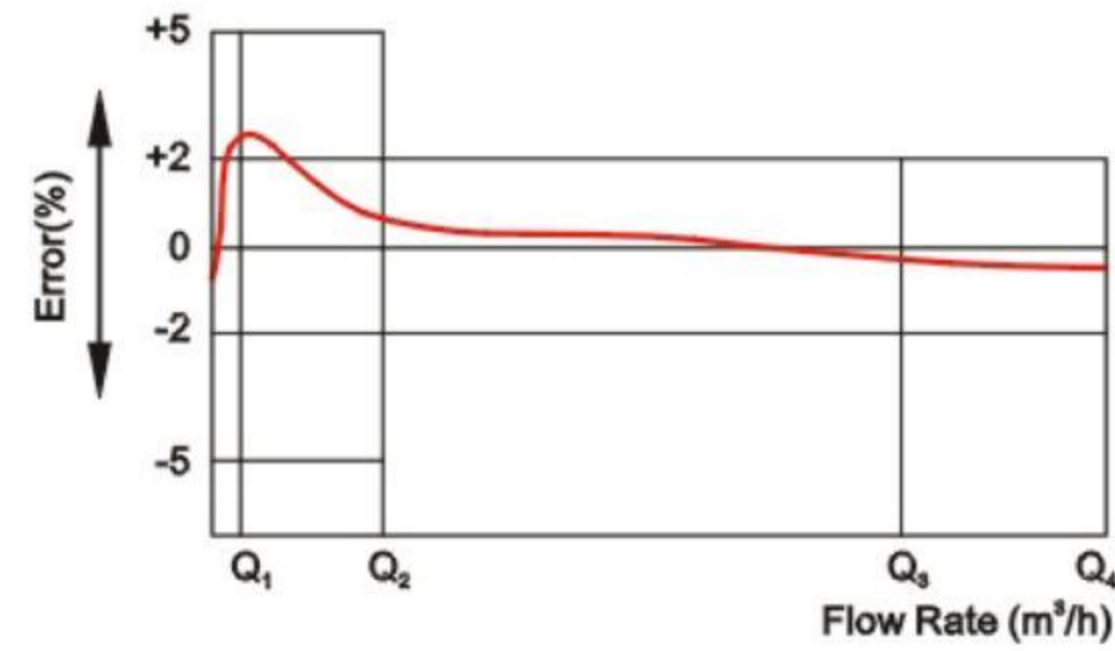
Working Condition

- Water temperature: T30 T50 T90
- Water pressure class: MAP16 MAP10
- Pressure-loss class: Δp63

Maximum Permissible Error

- From minimum flow-rate (Q1) inclusive to transitional flow-rate(Q2) exclusive ± 5%.
- From transitional flow-rate (Q2) to overload flowrate (Q4) ± 2% (Hot water meter ± 3%).

Flow Error Curve

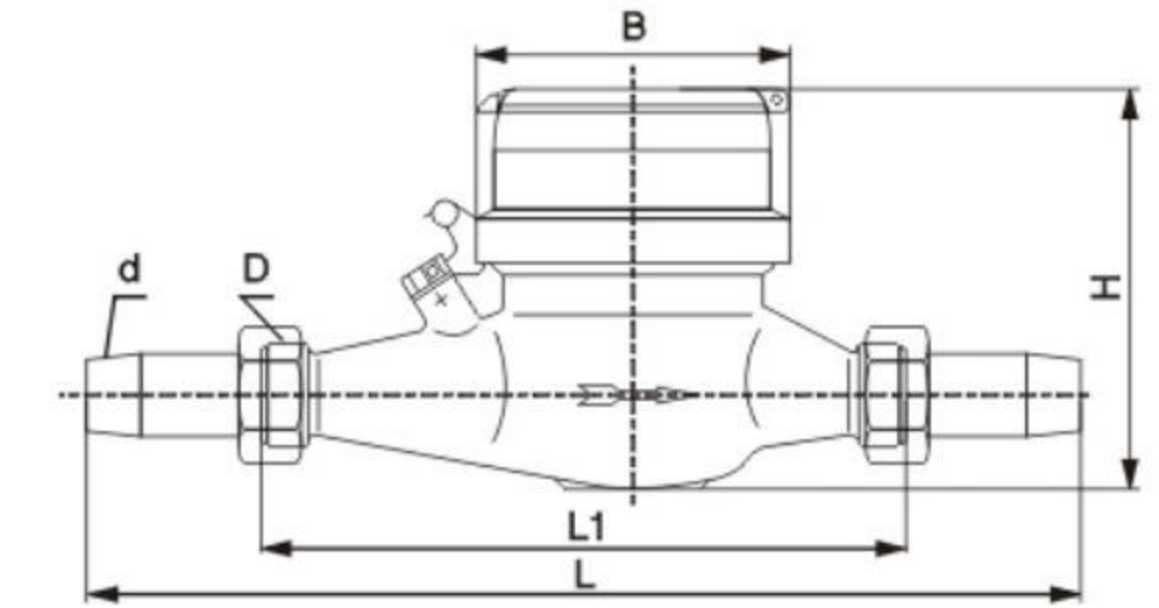


Water Meter

Exploded View



Dimensions



Type	Size	L1 Length	L Length	B Width	H Height	D Connecting Thread
LXSG-15N	1/2"	165	259	81	105	G3/4
LXSG-20N	3/4"	190	299	81	105	G1
LXSG-25N	1"	225	345	87	105	G1 1/4
LXSG-32N	1 1/4"	230	354	87	105	G1 1/4

Technical Data

DN(mm)	15	20	25	32	
Size(inch)	1/2"	3/4"	1"	1 1/4"	
R=80 R=100	Q4(l/h)	3.125	5	7.875	12.5
	Q3(l/h)	2.5	4	6.3	10
	Q2(l/h)	0.05	0.08	0.126	0.2
	Q1(l/h)	0.03125	0.05	0.07875	0.125
Max. Reading(m³)	9,999	9,999	9,999	9,999	
Min. Reading(Liter)	0.00005	0.00005	0.00005	0.00005	
Max. Pressure(Bar)	16	16	16	16	
Pressure Loss(ΔP)	63				
Max. Temperature	T=50/90				
Pulse Output Option	Vmax=24V				
	Imax=100mA				
	Pmax=2W				

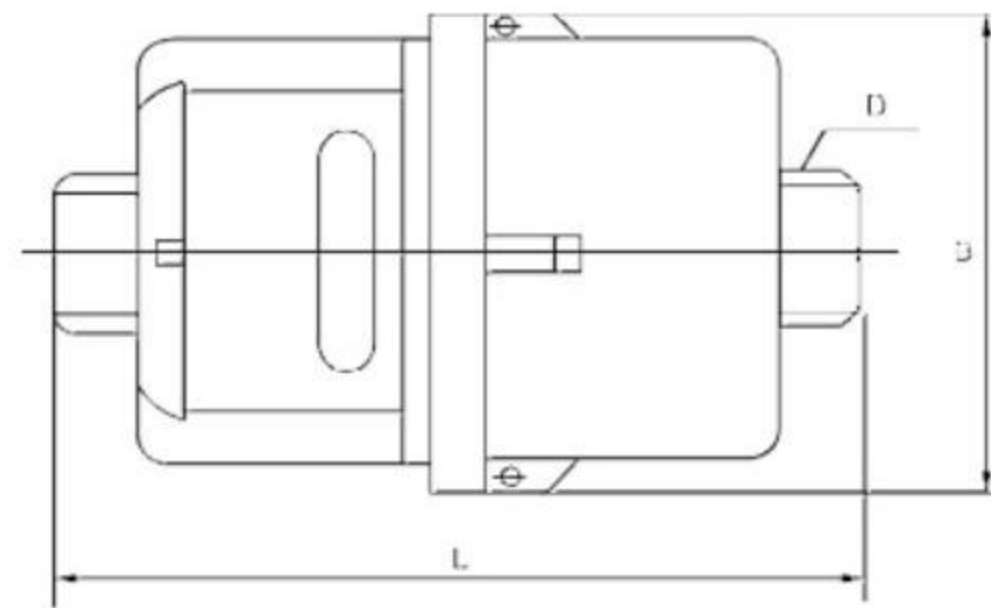
Warranty

All meters will be guaranteed against defects in workmanship and materials for a period of one(1) year from the date of acceptance. Defective meters or parts discovered within this period shall be replaced without charge upon return to the WEIZIDOM Meters.

Exploded View

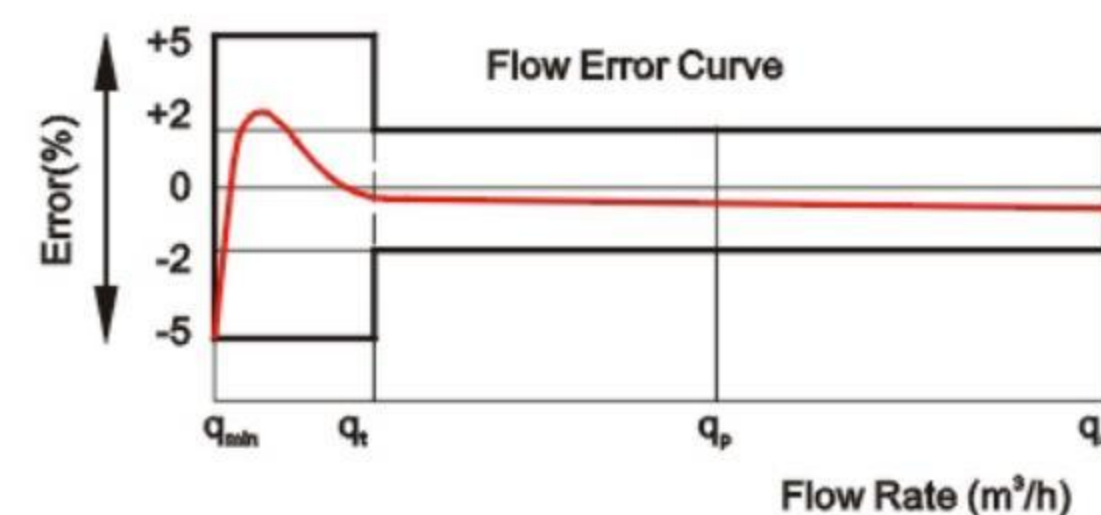


Exploded View



Description	Unit	Hydraulic Data and Dimensions					
		DN15 (1/2)	DN20 (3/4)	DN25 (1)	DN32 (1 1/4)	DN40 (1 1/2)	
Nominal Size	mm (Inch)	DN15 (1/2)	DN20 (3/4)	DN25 (1)	DN32 (1 1/4)	DN40 (1 1/2)	
Q4 Error Limit ±2%	m³/h	3.125	5	7.875	12.5	20	
Q3 Error Limit ±2%	M³/h	2.5	4.0	6.3	10	16	
Q2 Error Limit ±2%	l/h	25	40	63	100	160	
Q1 Error Limit ±5%	l/h	15.6	25	39.4	62.5	100	
Min. Reading	l	0.05	0.05	0.05	0.5	0.5	
Max. Reading	m³	9999.9999	9999.9999	9999.9999	9999.9999	9999.9999	
MAP	MPa	1.6	1.6	1.6	1.6	1.6	
Press Loss ΔP AT Q3	MPa	≤0.063	≤0.063	≤0.063	≤0.063	≤0.063	
	mm	195	267	319	384	428	
	mm	115	165	199	260	300	
	mm	43	43	53	60	77	
Weight	Without Connections	kg	1.14	1.56	2.48	3.47	5.65
	Without Connections	kg	0.97	1.3	2.05	2.75	4.7

Maximum Permissible Error



Warranty

All meters will be guaranteed against defects in workmanship and materials for a period of one(1) year from the date of acceptance. Defective meters or parts discovered within this period shall be replaced without charge upon return to the WEIZIDOM Meters.

Volumetric Water Meter

Rotary Piston Liquid Sealed water meter

This type of water meter can be used for a remote reading transmission system is equipped with a built-in sensor.

Application

Measuring the volume of cold potable water passing through the pipeline. Also suitable for pure water.

Operating Condition

- The Max. Admissible water pressure 1.6MPa.
- Resisting water temperature: 50°C.

Features

- Low start-up flow rate.
- Volumetric rotary piston principle of measurement.
- LXHY-15 ~ 20 is no location limitation for installation. Accuracy is not to be affected wherever installed at a horizontal, vertical or inclined pipeline.
- Register is sealed with a special liquid to keep a clear reading in long term service.
- Mechanism use of high-quality material to ensure a stable characteristic.
- Accurate measurement with conformity to ISO 4064 Class C.
- On request, the series can be equipped with a kind of remote transmission device.

Pulse Position

Magnet Position	Liter/Pulse
*0.0001	1
*0.001	10

Note

- Body material: Brass body/Plastic body.
- Size: Plastic body: DN15~20; Brass body: DN15~40.
- Different register can be choose:

Dial Picture	Measure Unit
	Measure Unit: CBM 8 Wheels Four red, four white wheel. The minimum reading: 1L
	Measure Unit: CBM 8 Wheels Three red, five white wheel. The minimum reading: 10L
	Measure Unit: UK Gallon 8 Wheels One red, seven white wheel The minimum reading: 1 UK/Gallon
	Measure Unit: UK Gallon 8 Wheels All white wheel The minimum reading: 10 UK Gallon
	Measure Unit: US Gallon 8 Wheels One red, three black, four white wheel The minimum reading: 1 US Gallon

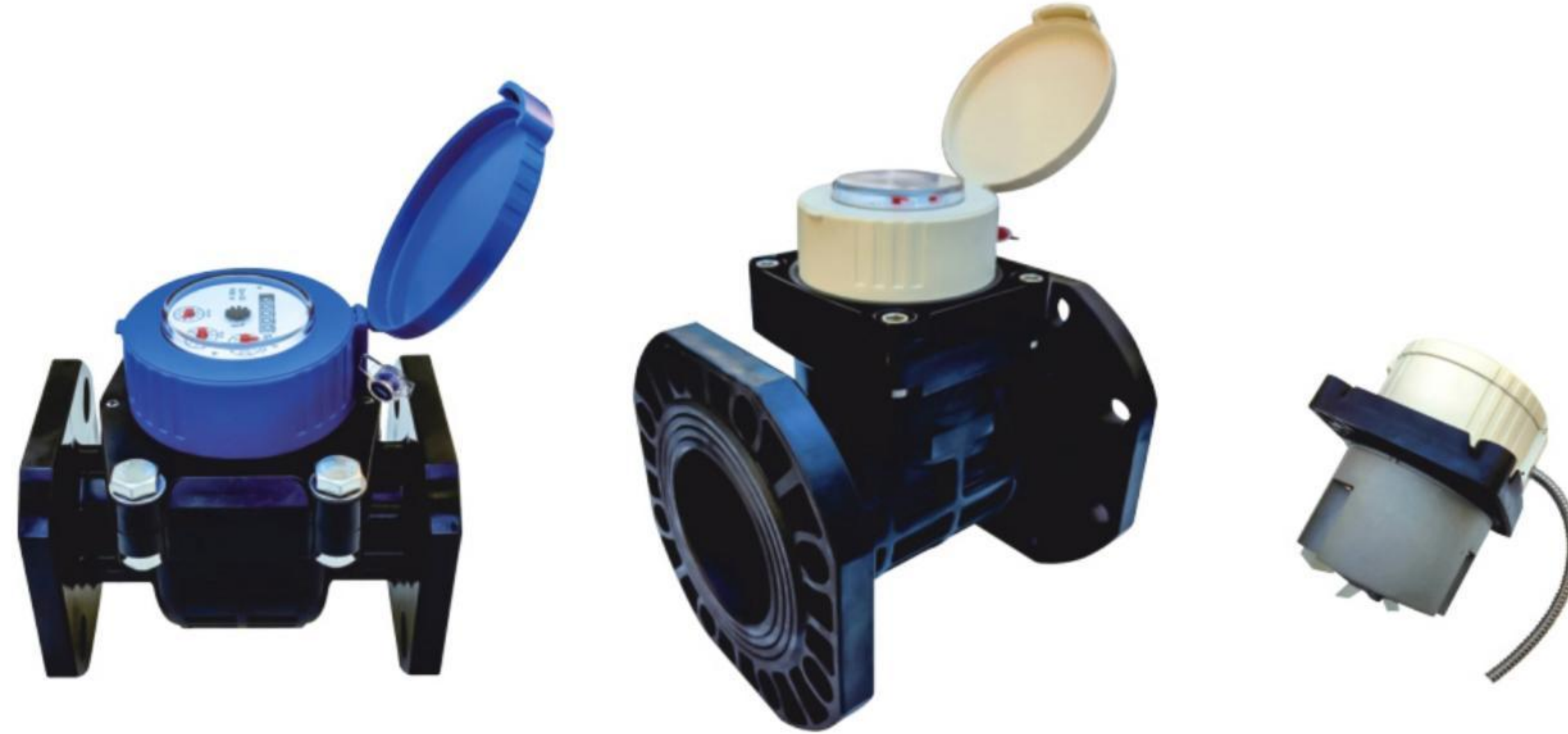


Removable Element Woltman/ Irrigation Water Meter

LXLC-50(mm) LXXG-50-100(mm)

Removable Element Woltman /Agricultural Irrigation (sewage), Dry-dialCold Water Meter – High Strength Nylon Body

Water Meter



Application

Measuring the total volume of cold water passing through the pipeline

Note

This type of water meter can be used for a remote reading transmission system as equipped with pulse.

Features

- Small transmission resistance, large flow capacity, anti block and strong anti-pollution ability;
- Dry-dial, Magnetic drive;
- Vacuum sealed register ensures the dial keep free from condensation and keep the reading clear in a long term service;
- Commonly used British standard flanges and American standard flanges, more suitable for plastic pipes strong universality, lighter weight, easy installation and maintenance;
- Remote transmission device can be added upon request, such as Reed; Switch or Hall, Pulse Output: DN50–100mm 1000L/P, 100L/P, 10L/P;
- Technical data conform to ISO 4064 standard.

Working Conditions

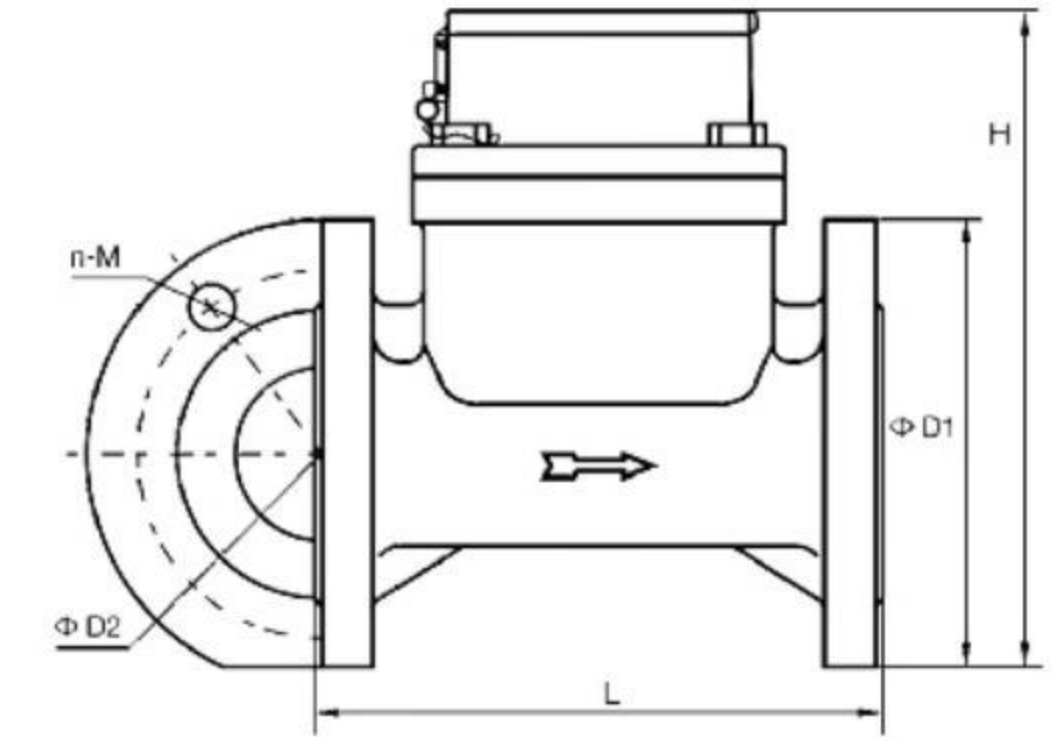
- Water Temperature: T30 T50
- Water Pressure Class: MAP10
- Pressure-loss Class: ΔP63

Maximum Permissible Error

- From minimum flow-rate(Q_1) inclusive to transitional flow -rate(Q_2) exclusive $\pm 5\%$.
- From transitional flow-rate(Q_2) to overload flow rate(Q_4) $\pm 2\%$.



Dimensions



Type	Size	L1 Length mm	H Height	Connecting Flange		
				ΦD1 Outside Diameter	ΦD2 Bolt Circle Diameter	Connecting Bolts(n-M)
LXLC-50	2"	200	210	160	125	4-M16
LXXG-50	2"	200	214	160	125	4-M16
LXXG-80	3"	225	284	195	155	4-M16
LXXG-100	4"	250	295	225	180	8-M16

Main Technique Specification

Type	Size	Class	Q ₄ Overload Flow	Q ₃ Permanent Flow	Q ₂ Transitional Flow	Q ₁ Min.Flow	Min. Reading	Max. Reading
			m ³ /h				m ³	
LXLC-50	2"	R50	31.25	25	0.8	0.5	0.0005	999,999
LXXG-50	2"		31.25	25	0.8	0.5	0.0005	999,999
LXXG-80	3"	R20	78.75	63	2	1.26	0.002	999,999
LXXG-100	4"		125	100	3.2	2	0.002	999,999



Woltman Water Meter

Removable element woltman cold (hot) water meter

This type of water meter can be used for a remote reading transmission system is equipped with a built-in sensor.

Application

Measuring the volume of cold (hot) water passing through the pipeline.

Features

- Removable element structure, easy installation and maintenance, register for universal use within this range detachable without Removing the meter from the pipeline.
- Dry-dial, Magnetic drive sensitive action, small pressure loss.
- Vacuum sealed register ensures the dial keep free from fog and Keep the reading clear in a long term service.
- Selected high quality materials for steady & reliable charac teristic.
- Technical data conform to international standard ISO 4064.

Optional Features

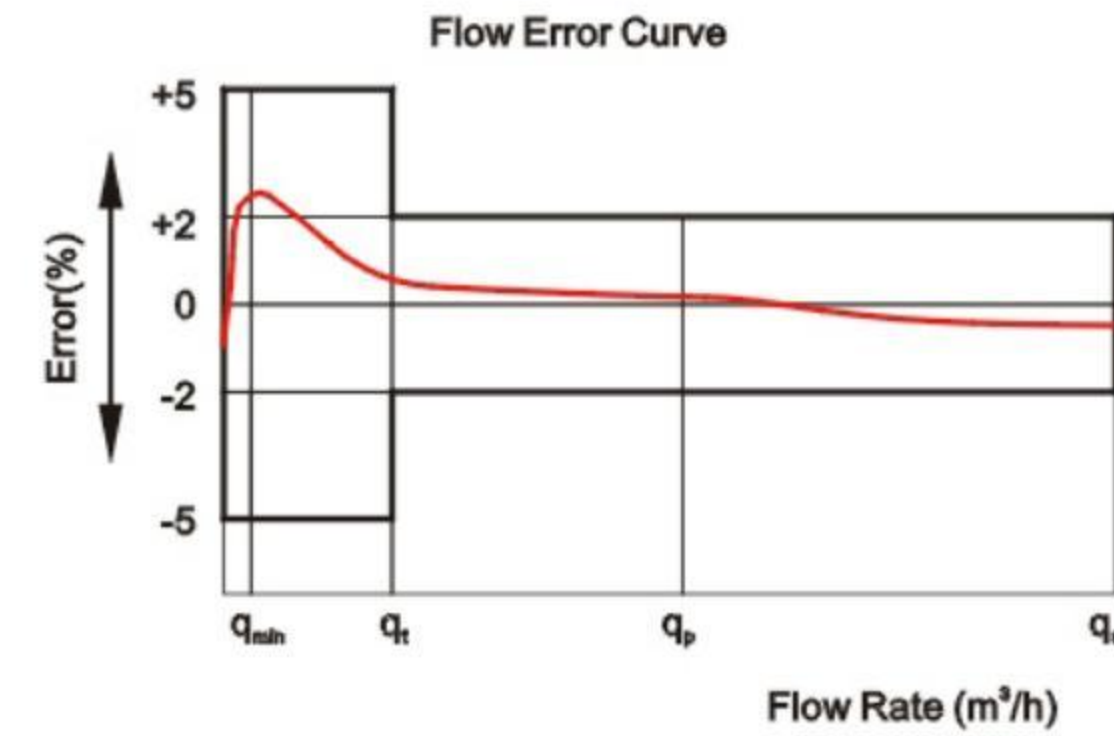
- Plastic register, copper register and full glass register.
- Accuracy: R=50/80.
- Size: DN50-500mm.
- Cold/Hot water.
- Reed switch option.
- Flange standard can be choose.
- 360 degree rotate can be choose.
- Cast iron, Ductile iron, SS304, Ss316 body can be choose.
- Working pressure: PN16/25.
- Color can be change on body and cover.

Working Conditions

- Water temperature: 0.1°C~40°C(0.1°C~90°C for hot water meter).
- Water pressure: PN10/16/25.

Maximum Permissible Error

- In the lower zone from q_{min} inclusive up to but excluding q_t is $\pm 5\%$.
- In the upper zone from q_t inclusive up to and including q_s is $\pm 2\%$ ($\pm 3\%$ for hot water meter).

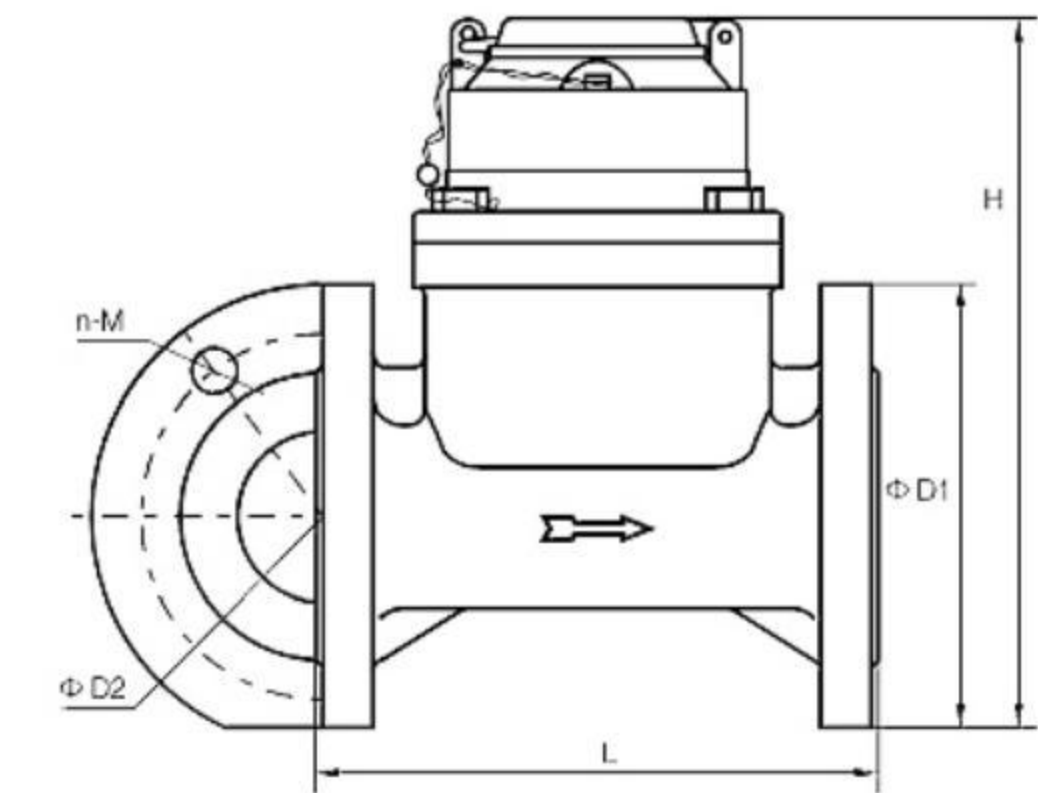


Exploded View



Water Meter

Dimensions



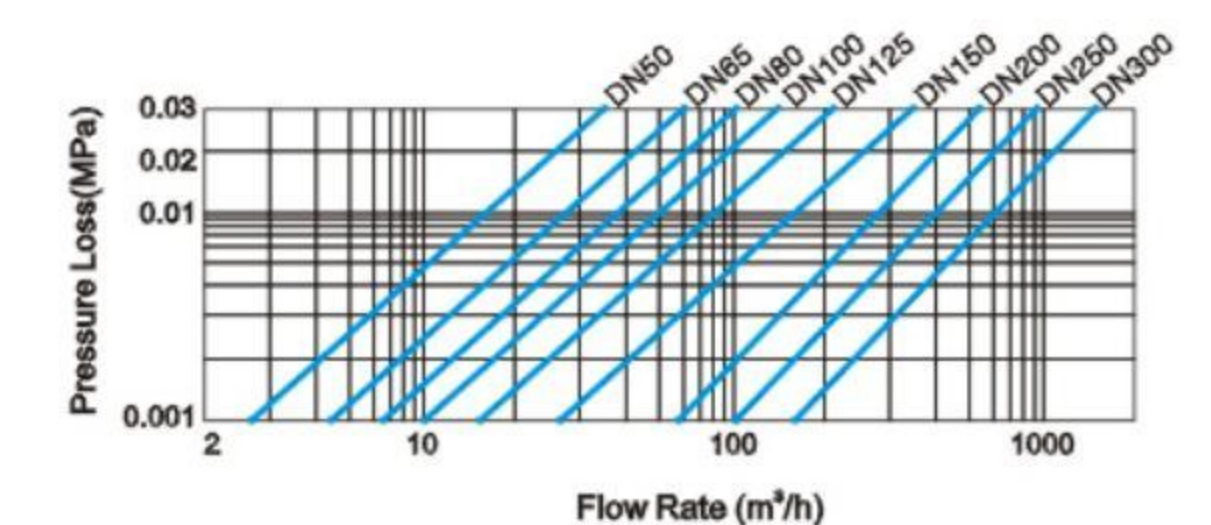
Type	Size	L H		Connecting Flange		
		Length	Height	ΦD1 Outside Diameter	ΦD2 Bolt Circle Diameter	Connecting Bolts (n-M)
	mm					
LXLC-50	50	200	261	165	125	4-M16
LXLC-65	65	200	271	185	145	4-M16
LXLC-80	80	225	279	200	160	8-M16
LXLC-100	100	250	289	220	180	8-M16
LXLC-125	125	250	299	250	210	8-M16
LXLC-150	150	300	319	285	240	8-M20
LXLC-200	200	350	346	340	295	8-M20(1.0DE) 12-M20(1.6MPa)
LXLC-250	250	450	450	395(1.0MPa) 405(1.6MPa)	350(1.0MPa) 355(1.6MPa)	12-M20(1.0MPa) 12-M24(1.6MPa)
LXLC-300	300	500	478	445(1.0MPa) 460(1.6MPa)	400(1.0MPa) 410(1.6MPa)	12-M20(1.0MPa) 12-M24(1.6MPa)

Note: The flange dimension conforms to ISO7005-2:1988 standard.
Order for products of special requirements is also accepted.

Pulse Position

Size	Pulse Position
DN50-65	10/100/1000L/Pulse
DN80-200	100/1000L/Pulse
DN250-300	1000L/Pulse

Pressure Loss Curve



WI-40~300/ED(mm)

Flow Technique Specification

Nominal Flow DN	Maximum Flow Q4 m³/h	Permanent Flow Q3	Q3/Q1	Q2/Q1	Transitional Flow Q2 m³/h	Minimum Flow Q1 m³/h	Minimum Reading		Maximum Reading	
							Full Glass Seal	Common Seal	Full Glass Seal	Common Seal
50	31.3	25	50	1.6	0.8	0.5	0.0005	0.0002	999,999	999,999
				4	2					
65	50	40	80	1.6	0.8	0.5	0.0005	0.0002	999,999	999,999
				4	2					
65	50	40	50	1.6	1.3	0.8	0.0005	0.0002	999,999	999,999
				4	3.2					
65	50	40	80	1.6	0.8	0.5	0.0005	0.0002	999,999	999,999
				4	2					
80	78.8	63	50	1.6	2	1.3	0.002	0.002	999,999	9,999,999
				4	5					
80	78.8	63	80	1.6	1.3	0.8	0.002	0.002	999,999	9,999,999
				4	3.2					
100	125	100	50	1.6	3.2	2	0.002	0.002	999,999	9,999,999
				4	8					
100	125	100	80	1.6	2	1.3	0.002	0.002	999,999	9,999,999
				4	5					
125	200	160	50	1.6	4	3.2	0.002	0.002	999,999	9,999,999
				4	12.8					
125	200	160	80	1.6	3.2	2	0.002	0.002	999,999	9,999,999
				4	8					
150	312.5	250	50	1.6	8	5	0.002	0.002	999,999	9,999,999
				4	20					
150	312.5	250	80	1.6	5	3.1	0.002	0.002	999,999	9,999,999
				4	12.4					
200	500	400	50	1.6	12.8	8	0.002	0.002	999,999	9,999,999
				4	32					
200	500	400	80	1.6	8	5	0.002	0.002	999,999	9,999,999
				4	20					
250	787.5	630	25	1.6	40.3	25.2	0.02	0.02	9,999,999	99,999,999
				4	100.8					
250	787.5	630	50	1.6	20	12.6	0.02	0.02	9,999,999	99,999,999
				4	50.4					
300	1250	1000	25	1.6	64	40	0.02	0.02	9,999,999	99,999,999
				4	160					
300	1250	1000	50	1.6	32	20	0.02	0.02	9,999,999	99,999,999
				4	80					



Application

Measuring the total volume of cold water passing through the pipeline.

Features

- Special core structure reduces mechanical wear and extends service life.
- Enhanced low-flow measurement capability.
- Optimized error curve for higher accuracy.
- Digital LCD for clear reading.
- Instantaneous flow rate display.
- Reverse flow measurement.
- Modular design for easy maintenance.
- Valve-compatible for prepayment & remote control.
- Automatic historical data storage.
- 485 interface.
- Remote status diagnosis.
- Optional NB/CAT1 wireless communication.

Working Conditions

- Water Temperature: T30 T50
- Water Pressure Class: MAP16 MAP10
- Electromagnetic Environment: Class E1
- Installation Environment: Class B

Maximum Permissible Error

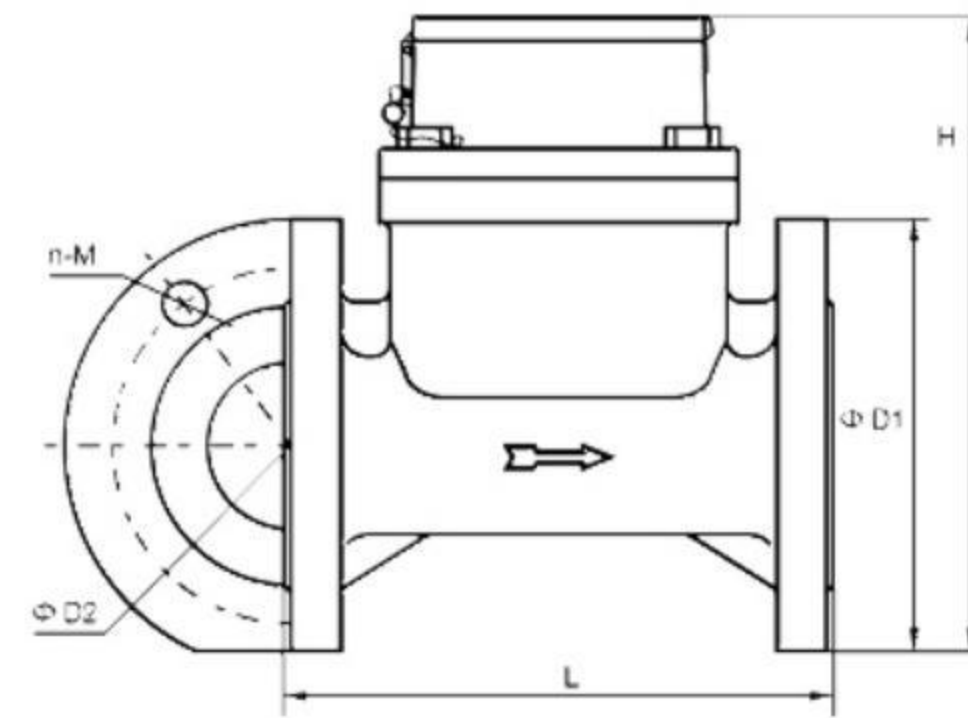
- From minimum flow-rate(Q₁) inclusive to transitional flow-rate(Q₂) exclusive: ± 5%.
- From transitional flow-rate(Q₂) to overload flowrate(Q_s): ± 2%.

Warranty

All meters will be guaranteed against defects in workmanship and materials for a period of one(1) year from the date of acceptance. Defective meters or parts discovered within this period shall be replaced without charge upon return to the WEIZIDOM Meters.

Dimensions

Type	Size	L1 Length mm	H Height	Connecting Flange		
				ΦD1 Outside Diameter	ΦD2 Bolt Circle Diameter	Connecting Bolts (n-M)
WI-40	1 1/2"	300	215	-	-	R1 1/2
WI-50	2"	300	215	-	-	R2
WI-50	2"	200	255	165	125	4-M16
WI-65	2 1/2"	200	270	185	145	4-M16
WI-80	3"	225	285	200	160	8-M16
WI-100	4"	250	295	220	180	8-M16
WI-125	5"	250	310	250	210	8-M16
WI-150	6"	300	340	285	240	8-M20
WI-200	8"	350	385	340	295	8-M20(1.0MPa)
						12-M20(1.6MPa)
WI-250	10"	450	440	395	350	12-M20(1.0MPa)
				405	355	12-M24(1.6MPa)
WI-300	12"	500	490	445	400	12-M20(1.0MPa)
				460	410	12-M24(1.6MPa)



Note: The flange dimension conforms to ISO7005 standard.
Order for products of special requirements is also accepted.

Main Technical Specifications

Type	Size	Class	Overload Flow	Permanent Flow	Transitional Flow	Min.Flow
			m ³ /h			
WI-40	1 1/2"	R40	31.25	25	1	0.625
WI-50	2"	R40	31.25	25	1	0.625
WI-65	2 1/2"	R40	50	40	0.16	0.1
WI-80	3"	R40	78.75	63	2.52	1.575
WI-100	4"	R40	125	100	4	2.5
WI-125	5"	R40	200	160	6.4	4
WI-150	6"	R40	312.5	250	10	6.25
WI-200	8"	R40	500	400	16	10
WI-250	10"	R40	787.5	630	25.2	15.75
WI-300	12"	R40	1250	1000	40	25

The measurement grades available are R20, R25, and R40. For detailed parameters, please call for consultation.

Irrigation Water Meter

Irrigation Horizontal vane wheel, dry-dial cold (hot) water meter

This type of water meter can be used for a remote reading transmission system as equipped with a built-in sensor.

Application

Measuring the volume of cold (hot) water passing through the pipeline.

Features

- Removable element structure, easy installation and maintenance.
- Dry-dial, Magnetic drive.
- Large flow capacity, small pressure loss.
- Resist water hammer and pollution.
- Vacuum sealed register ensures the dial keep free from condensation and keep the reading clear in a long term service.
- Selected high quality materials for steady and reliable characteristic.
- Technical data conform to international standard ISO 4064.

Optional Features

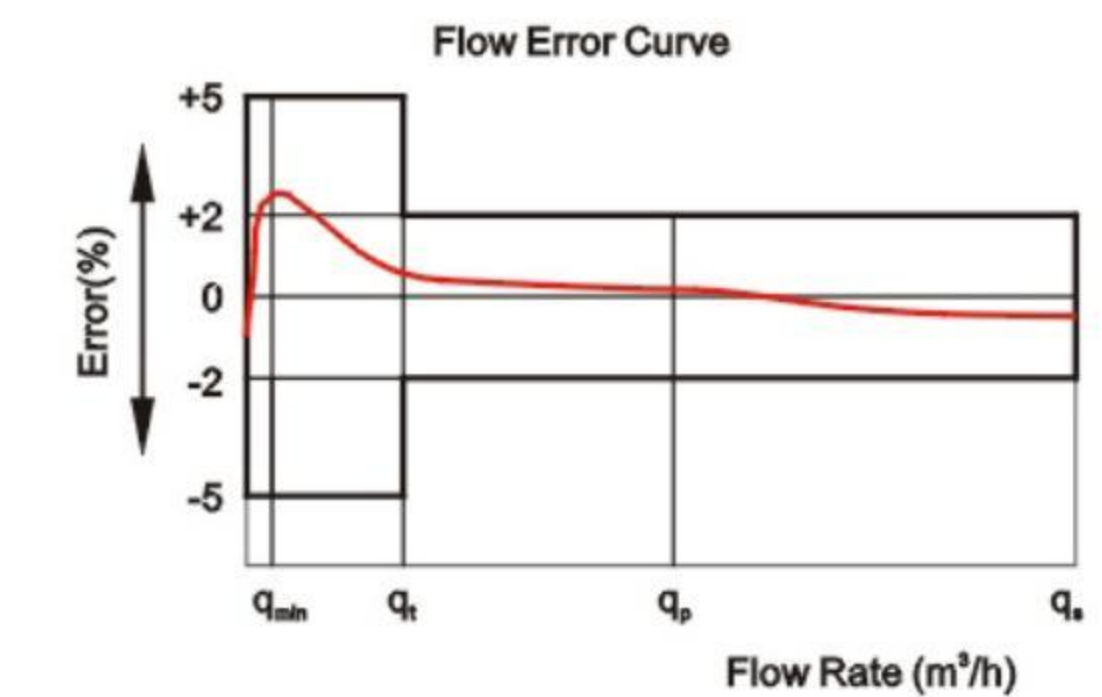
- Plastic register, copper register and full glass register.
- Accuracy: R=20.
- Size: DN50-300mm.
- Cold/Hot water.
- Reed switch option.
- Flange standard can be choose.
- 360 degree rotate can be choose.
- Cast iron, Ductile iron, SS304, SS316 body can be choose.
- Working pressure: PN16/25.

Working Conditions

- Water temperature: 0.1°C-50°C (0.1°C ~ 90°C for hot water meter).
- Water pressure: ≤1.0MPa (1.6MPa on request).

Maximum Permissible Error

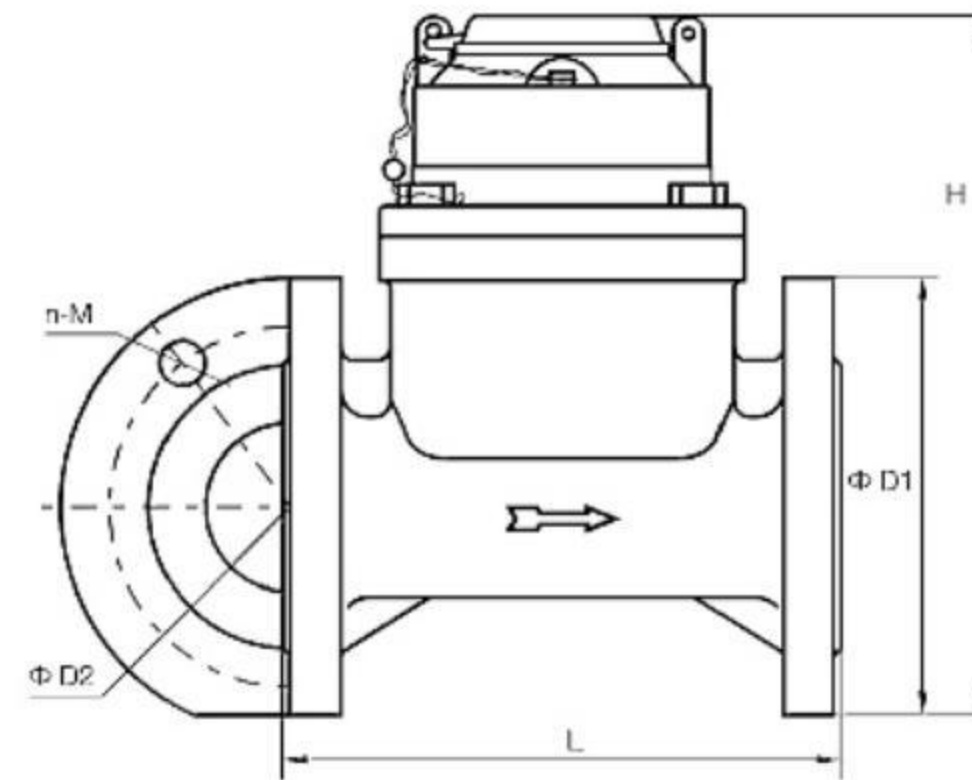
- In the lower zone from q_{min} inclusive up to but excluding q_t is ± 5%.
- In the upper zone from q_t inclusive up to and including q_s is ± 2% (± 3% for hot water meter).



Exploded View



Dimensions



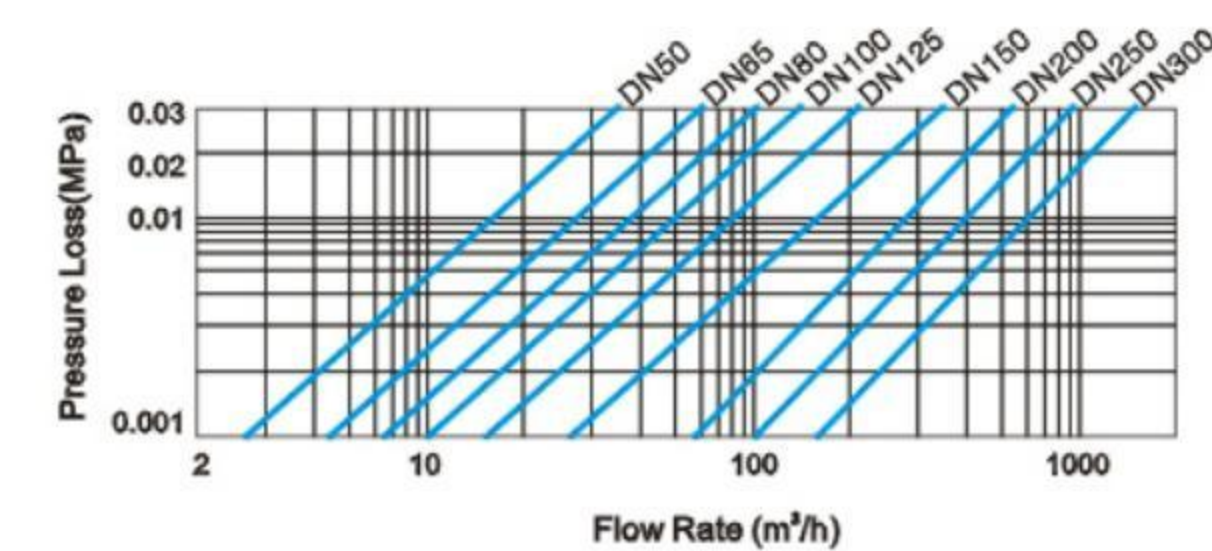
Type	Size	L		H		Connecting Flange		
		Length	Height	ΦD1 Outside Diameter	ΦD2 Bolt Circle Diameter	Connecting Bolts (n-M)		
LXXG-50	50	200	253	165	125	4-M16		
LXXG-65	65	200	268	185	145	4-M16		
LXXG-80	80	225	284	200	160	8-M16		
LXXG-100	100	250	295	220	180	8-M16		
LXXG-125	125	250	310	250	210	8-M16		
LXXG-150	150	300	339	285	240	8-M20		
LXXG-200	200	350	382	340	295	8-M20(1.0MPa) 12-M20(1.6MPa)		
LXXG-250	250	400	433	395	350	12-M20(1.0MPa)		
		450	438	405	355	12-M24(1.6MPa)		
LXXG-300	300	450	483	445	400	12-M20(1.0MPa)		
		500	488	460	410	12-M24(1.6MPa)		

Note: The flange dimension conforms to ISO7005-2:1988 standard.
Order for products of special requirements is also accepted.

Pulse Position

Size	Pulse Position
DN50-200	100/1000L/Pulse
DN250-300	1000L/Pulse

Pressure Loss Curve



Flow Technique Specification

Nominal Flow DN	Maximum Flow Q4 m³/h	Permanent Flow Q3 m³/h	Q3/Q1	Q2/Q1	Transitional Flow Q2 m³/h	Minimum Flow Q1 m³/h	Minimum Reading		Maximum Reading	
							Full Glass Seal	Common Seal	Full Glass Seal	Common Seal
50	31.25	25	50	1.6	1.6	1	0.0005	0.0002	999,999	999,999
65	50	40	25	1.6	2.6	1.6	0.002	0.002	999,999	9,999,999
				4	6.4					
80	78.8	63	25	1.6	4	2.5	0.002	0.002	999,999	9,999,999
				4	10					
100	125	100	25	1.6	6.4	4	0.002	0.002	999,999	9,999,999
				4	16					
125	200	160	25	1.6	10.2	6.4	0.002	0.002	999,999	9,999,999
				4	25.6					
150	312.5	250	25	1.6	16	10	0.002	0.002	999,999	9,999,999
				4	40					
200	500	400	25	1.6	25.6	16	0.002	0.002	999,999	9,999,999
				4	64					
250	787.5	630	25	1.6	40.3	25.2	0.02	0.02	9,999,999	99,999,999
				4	100.8					
300	1250	1000	25	1.6	64	40	0.02	0.02	9,999,999	99,999,999
				4	160					

Warranty

All meters will be guaranteed against defects in workmanship and materials for a period of one (1) year from the date of acceptance. Defective meters or parts discovered within this period shall be replaced without charge upon return to the WEIZIDOM Meters.

Large Caliber Woltman Water Meter

Removable element woltman cold (hot) water meter

This type of water meter can be used for a remote reading transmission system as equipped with a built-in sensor.

Application

Measuring the volume of cold (hot) water passing through the pipeline.

Features

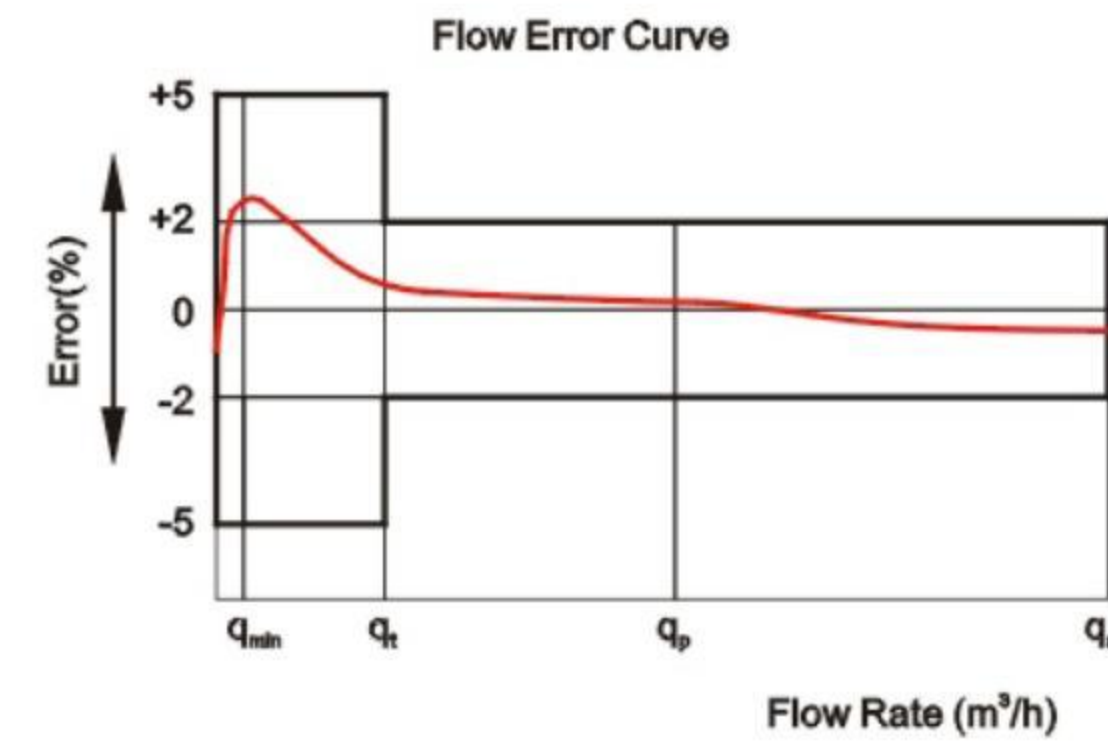
- Removable element structure, easy installation and maintenance, register for universal use within this range detachable without removing the meter from the pipeline.
- Dry-dial, Magnetic drive sensitive action, small pressure loss.
- Vacuum sealed register ensures the dial keep free from fog and keep the reading clear in a long term service.
- Selected high quality materials for steady & reliable characteristic.
- Technical data conform to international standard ISO 4064.

Working Conditions

- Water temperature: 0.1°C~50°C (0.1°C ~ 90°C for hot water meter).
- Water pressure: ≤1.0MPa (1.6MPa for special requirement).

Maximum Permissible Error

- In the lower zone from q_{min} inclusive up to but excluding q_t is ± 5%.
- In the upper zone from q_t inclusive up to and including q_s is ± 2% (± 3% for hot water meter).



Exploded View

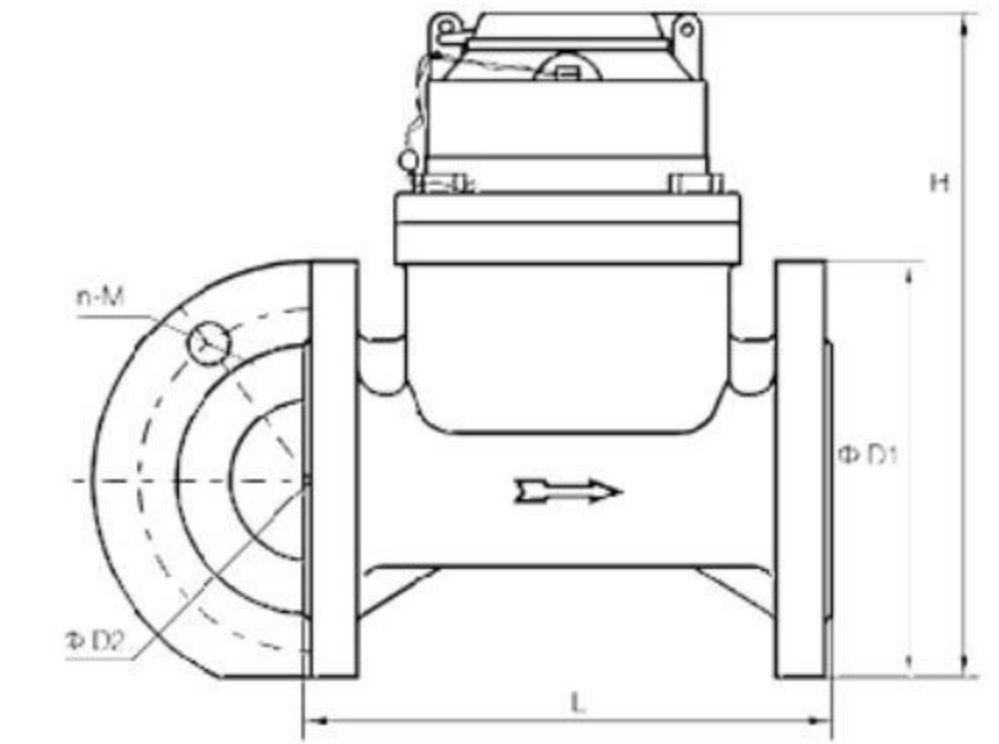


Warranty

All meters will be guaranteed against defects in workmanship and materials for a period of one (1) year from the date of acceptance. Defective meters or parts discovered within this period shall be replaced without charge upon return to the WEIZIDOM Meters.

Water Meter

Dimensions



Type	Size	L	H	Connecting Flange			Working Pressure (MPa)
				ΦD1 Outside Diameter	ΦD2 Bolt Circle Diameter	Connecting Bolts (n-M)	
LXLC -350	350	500	590	505	460	16-M20	1.0
				555	490	16-M30	2.5
				565	515	16-M24	1.0
LXLC -400	400	600	660	580	525	16-M27	1.6
				620	550	16-M33	2.5
				615	565	20-M24	1.0
LXLC -450	450	600	700	640	585	20-M27	1.6
				670	600	20-M33	2.5
				670	620	20-M24	1.0
LXLC -500	500	800	760	715	650	20-M30	1.6
				730	660	20-M33	2.5
				780	725	20-M27	1.0
LXLC -600	600 or 800	800		840	770	20-M33	1.6
				845	770	20-M36	2.5

Note: The flange dimension conforms to ISO7005-2:1988 standard. Order for products of special requirements is also accepted.

Main Technique Specification

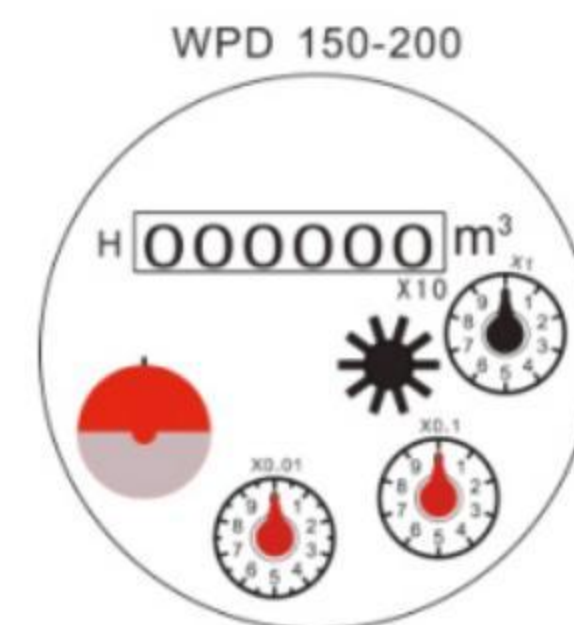
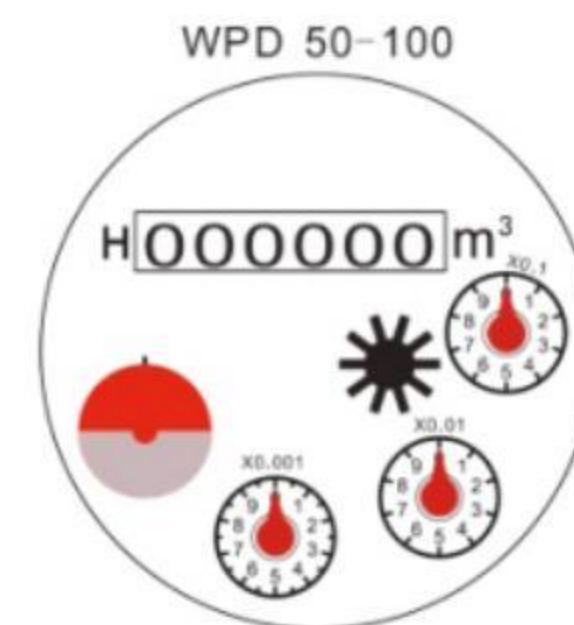
Type	Size (mm)	Class	q_s	q_p	q_t	q_{min}	Min. Reading	Max. Reading
			Overload Flow	Permanent Flow	Transitional Flow	Min. Flow		
LXLC -350	350	A	1600	800	240	64	0.02	999,999,999
		B			160	24		
LXLC -400	400	A	2000	1000	300	80	0.02	999,999,999
		B			200	30		
LXLC -450	450	A	2000	1000	300	80	0.02	999,999,999
		B			200	30		
LXLC -500	500	A	3000	1500	450	120	0.02	999,999,999
		B			300	45		
LXLC -600	600	A	6000	3000	900	240	0.02	999,999,999
		B			600	90		

Horizontal Helix Water Meter

WPD-550~200(mm)



Copper Sealed Register



Application

Measuring the total volume of cold water passing through the pipeline.

Features

- High measurement accuracy with a wide metering range.
- Low start-up flow with high load capacity.
- Equipped with non-magnetic sensors across all series.
- Stable performance and excellent durability.
- Replaceable core module.
- IP68 Rating

Working Conditions

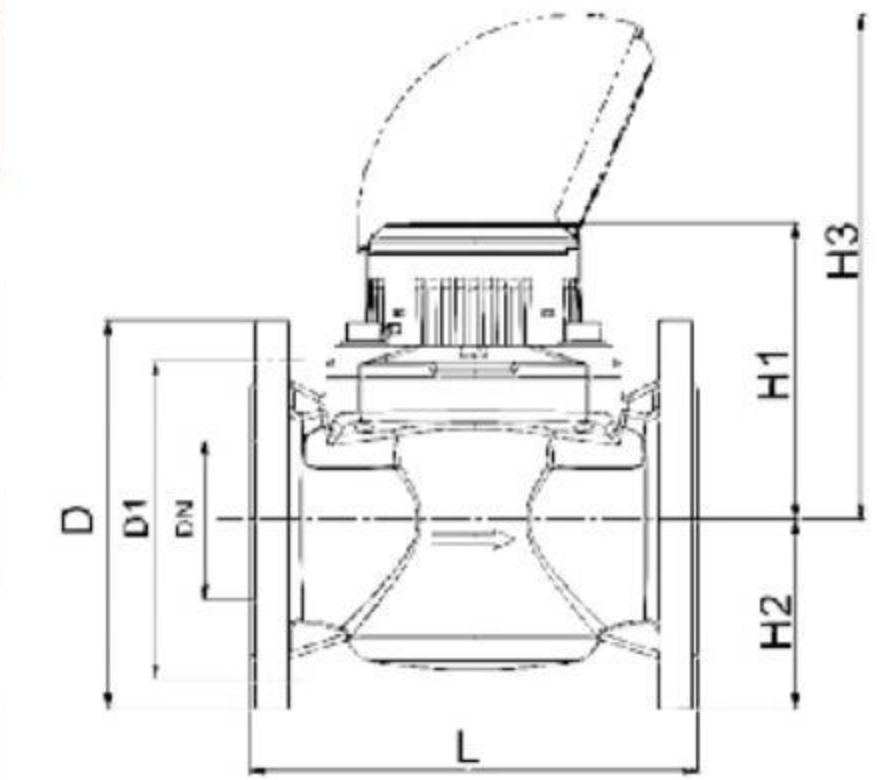
- Water Temperature: T30 T50
- Water Pressure Class: MAP16 MAP10
- Installation Environment: Class B

Maximum Permissible Error

- From minimum flow-rate(Q_{\min}) inclusive to transitional flow-rate(Q_{tr}) exclusive: $\pm 5\%$.
- From transitional flow-rate(Q_{tr}) to overload flowrate(Q_{ol}): $\pm 2\%$.

Dimensions

Type	Size	L Length	Height 1	Height 2	Height 3	Connecting Flange		
						ΦD1 Outside Diameter	ΦD2 Bolt Circle Diameter	Connecting Bolts (n-M)
WPD-50	2"	200	133	77	238	165	125	4-M16
WPD-65	2 1/2"	200	133	87	238	185	145	4-M16
WPD-80	3"	225	149	95	254	200	160	8-M16
WPD-100	4"	250	149	95	254	220	180	8-M16
WPD-150	6"	300	223	136	328	285	240	8-M16
WPD-200	8"	350	233	162	328	340	295	8-M20(1.0MPa)
								12-M20(1.0MPa)



Note: The flange dimension dimension conforms to ISO7005 standard.

Order for products of special requirements is also accepted.

Main Technical Specifications

Type	Size	Class	Overload Flow	Permanent Flow	Transitional Flow	Min.Flow	Minimum Rezding	Maximum Rezding
			m ³ /h				m ³	
WPD-50	2"	R160	50	40	0.4	0.25	0.0005	999,999
WPD-65	2 1/2"	R160	78.75	63	0.63	0.393	0.0005	999,999
WPD-80	3"	R160	125	100	1	0.625	0.0005	999,999
WPD-100	4"	R160	200	160	1.6	1	0.0005	999,999
WPD-150	6"	R160	312.5	250	2.5	1.562	0.005	9,999,999
WPD-200	8"	R160	500	400	4	2.5	0.005	9,999,999

The measurement grades available are R160 and R200. For detailed parameters, please call for consultation



Vertical Removable Element Woltman Water Meter

Vertical removable element woltman cold (hot) water meter

This type of water meter can be used for a remote reading transmission system as equipped with a built-in sensor.

Application

Measuring the volume of cold (hot) water passing through the pipeline.

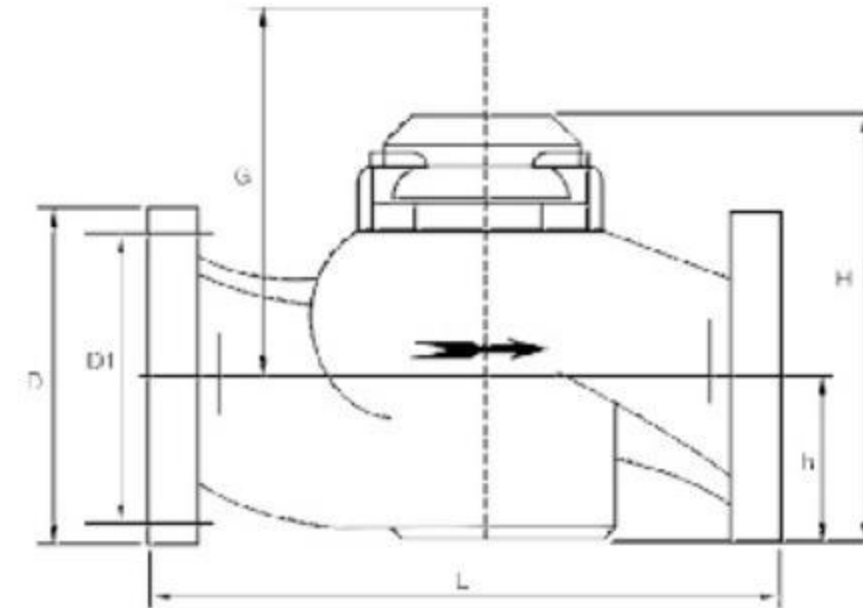
Features

- Removable element structure, easy installation and maintenance, register for universal use within this range detachable without Removing the meter from the pipeline.
- Dry-dial, Magnetic drive sensitive action, small pressure loss.
- Vacuum sealed register ensures the dial keep free from fog and Keep the reading clear in a long term service.
- Selected high quality materials for steady & reliable characteristic.
- Technical data conform to international standard ISO 4064.

Working Conditions

- Water temperature: 0.1°C~40°C (0.1°C ~ 90°C for hot water meter).
- Water pressure: ≤1.0MPa (1.6MPa for special requirement).

Dimensions



Type	Length				Height			Connecting Flange		
	L	H	h	G	ΦD1 Outside Diameter	ΦD2 Bolt Circle Diameter	Connecting Bolts (n-M)			
mm										
40	280	228	85	268	150	110	4-M16	Thread end G2B		
	245	218	75	260						
50	280	228	85	268	165	125	4-M16			
80S	225	282	103	344	200	160	8-M16			
80	370									
100S	250	303	116	350	220	180	8-M16			
100	370									
150	500	430	155	565	285	240	8-M20			
200	500	505	190	384	340	295	8-M20			
							12-M20(MPa16)			

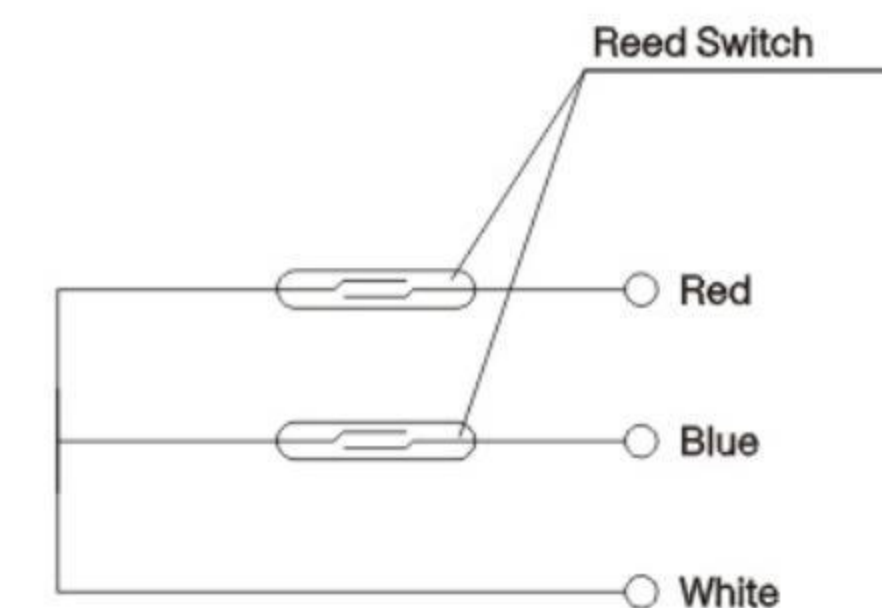
Note: The flange dimension conforms to ISO7005-2:1988 standard. Order for products of special requirements is also accepted.



Flow Technique Specification

Type	Maximum Flow Q4	Permanent Flow Q3	Q3/Q1	Q2/Q1	Maximum Flow Q2	Permanent Flow Q1	Max. Reading	Min. Reading	
								Full Glass Register	Plastic Register
m³/h							m³		
40	50	40	160	1.6	0.4	0.25	999999	0.0005	0.0002
				6.3	1.6				
50	50	40	160	1.6	0.32	0.2	999999	0.0005	0.0002
				6.3	1.26				
80	78.8	63	160	1.6	0.64	0.4	999999	0.0005	0.0002
				6.3	2.5				
100	125	100	160	1.6	1	0.63	999999	0.0005	0.0002
				6.3	3.94				
150	313	250	160	1.6	0.8	0.5	999999	0.0005	0.0002
				6.3	3.2				
200	500	400	160	1.6	2.56	1.6	999999	0.0005	0.0002
				6.3	10				
200	500	400	200	1.6	2	1.25	999999	0.0005	0.0002
				6.3	7.9				
200	500	400	160	1.6	4	2.5	999999	0.0005	0.0002
				6.3	16				
200	500	400	200	1.6	3.2	2	999999	0.0005	0.0002
				6.3	12.6				

The Operation Description of The Two Reed Switches System



Please see the diagram of the two reed switches system below, the two reed switches would be operated "ON" or "OFF" respectively by the magnet fitted to the pointer or gear during its running on the register, but never "ON" at the same time, unless the out-magnet attacks.

The two reed switches operate two "ON" and two "OFF" in one round of the pointer or the gear means one signal output, this principle prevent the loss or overcounting of the signal output due to the switches joggling or the pipe vibrating, so assures reliability of the signal output.

Warranty

All meters will be guaranteed against defects in workmanship and materials for a period of one(1) year from the date of acceptance. Defective meters or parts discovered within this period shall be replaced without charge upon return to the WESDOM Meters.

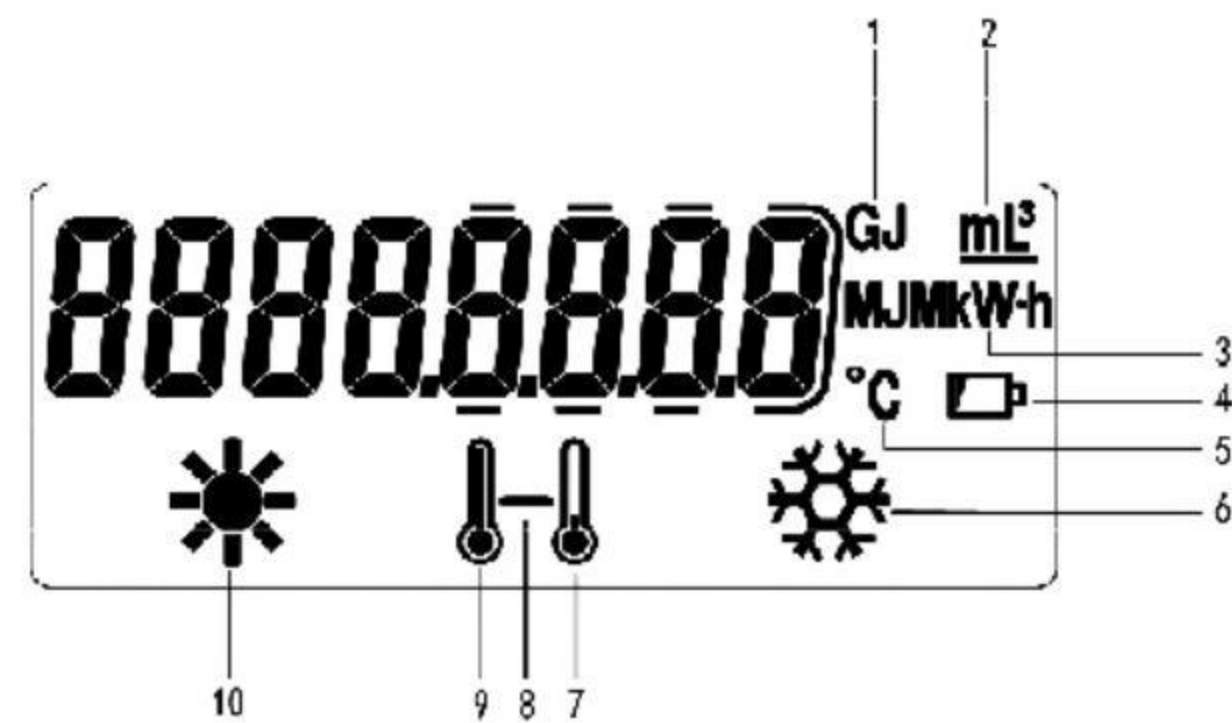
Basic Information

MLCC Ultrasonic Thermal Energy Meter is an intelligent measuring instrument composed of a paired temperature sensor, flow sensor and calculator. The calculator achieves accurate measurement of flow, heat or cooling by processing the temperature difference collected by the sensor and the time difference of sound waves passing through the fluid, and can provide recording and data transmission for various applications of heating or cooling pipelines.

- No moving parts in the measuring mechanism, ensuring no wear and tear
- Supports vertical, horizontal, or inclined installation angles
- High-precision temperature measurement probe, PT1000
- Supports non-full pipe detection
- Low pressure loss
- IP67 protection rating, adaptable to various harsh installation environments
- Supports remote meter data reading: Wired reading via RS-485 modbus/ M-Bus

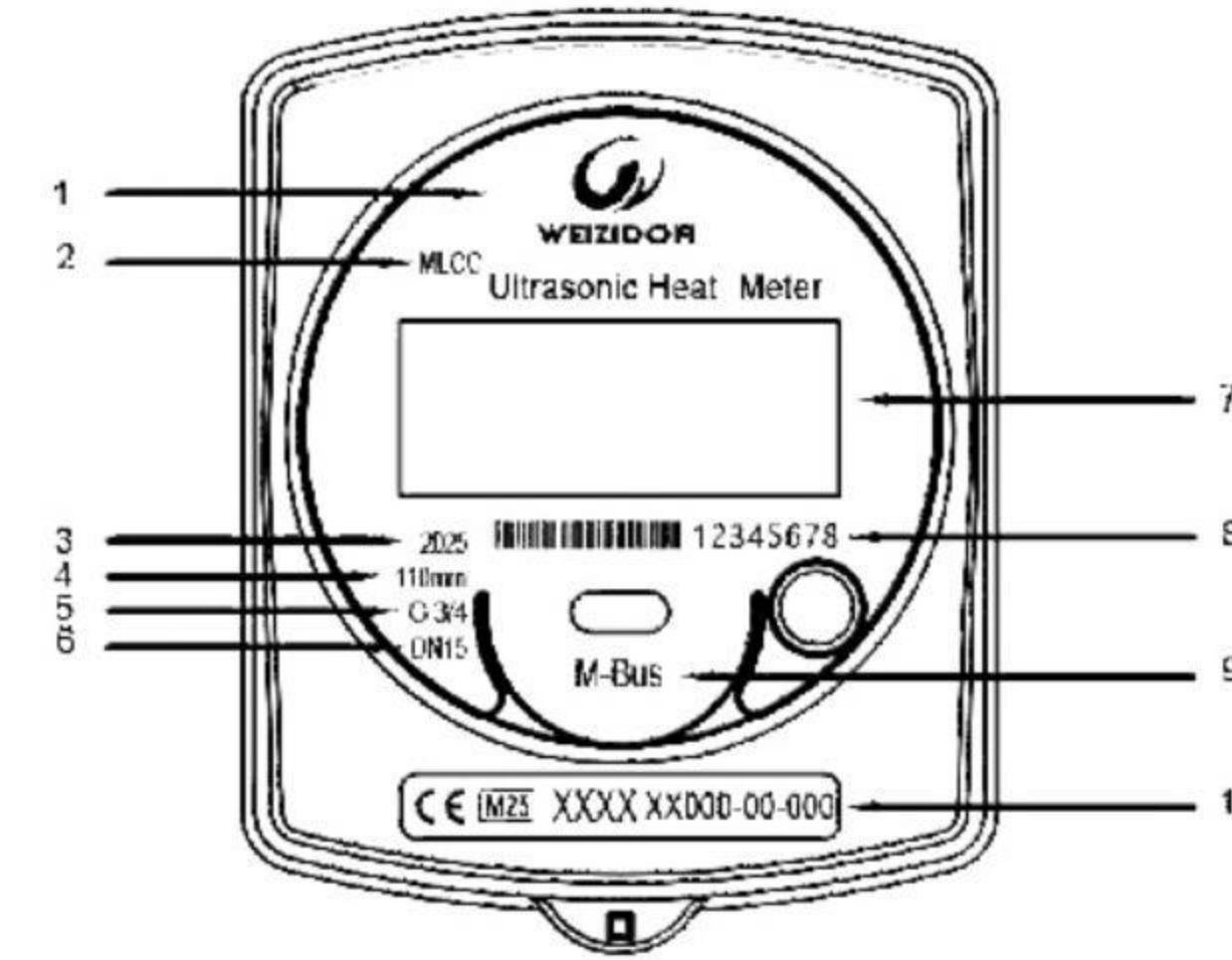


LCD Recognition



No.	Name	No.	Name
1	Energy Measurement Unit	6	Cooling Capacity Indicator
2	Fluid Measurement Unit		Outlet Temperature Indicator
3	Energy Measurement Unit	8	Temperature Difference Indicator (7&8&9)
4	Low Battery Voltage Indicator		Inlet Temperature Indicator
5	Temperature Measurement Unit	10	Heating Capacity Indicator

Nameplate



1. Manufacturer's Logo
2. Model Number
3. Year of Production
4. Dimensions
5. Connection Thread
6. Nominal Diameter
7. LED Display Area
8. Meter Address
9. Communication Method
10. Certification Mark

Technical Specifications

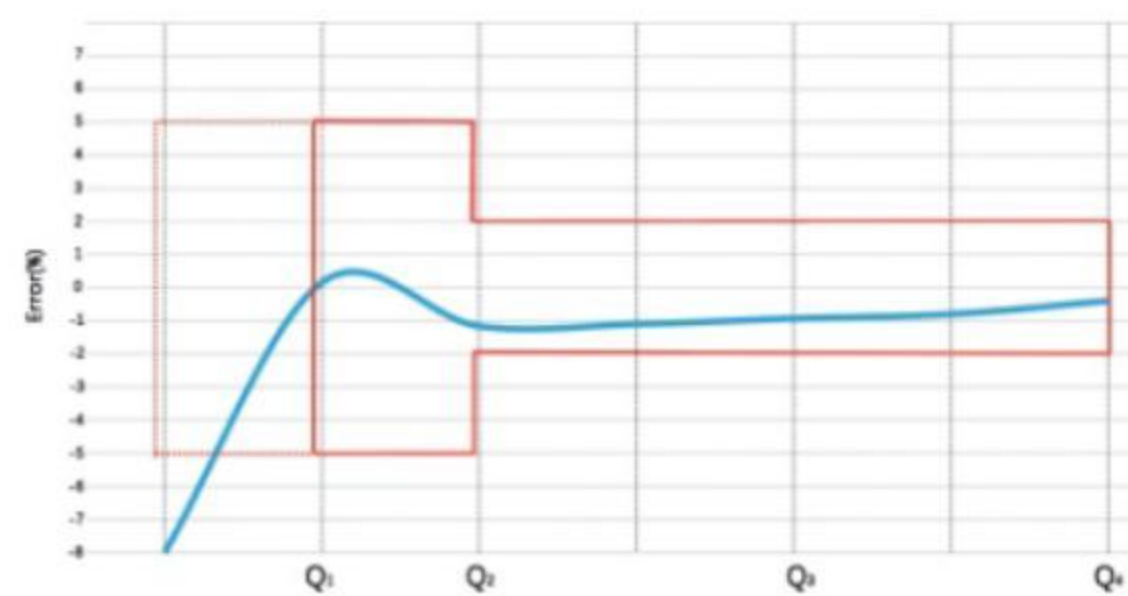
Model	Qs	Qp	Qt	Qi	R(Q3/Q1)	Pressure Loss Class ΔP(bar)
	m³/h	m³/h	M³/h	L/h	/	
MLCC-15	3	1.5	0.15	30	R50	0.25
				15	R100	
MLCC-20	5	2.5	0.25	50	R50	0.25
				25	R100	
MLCC-25	7	3.5	0.35	70	R50	0.25
				35	R100	
MLCC-32	12	6	0.6	120	R50	0.25
				60	R100	
MLCC-40	20	10	1	200	R50	0.25
				100	R100	

Description	Value	Unit
Max flow indication	999999.99	m³
Heat max indication	99999999	kW · h
Accuracy class	Class 2	-
Pressure loss	≤0.025	MPa
Max working pressure	PN16	-
Temperature difference range	3~75	K
Temperature range	4~95	°C
Resolution temperature	0.01	°C
Environmental/Machinery category	Class A M1	-
Battery life	≥6 years (Er18505); ≥10 years (ER26500)	-
Installation position	Horizontal or Vertical	-
Temperature sensor	PT1000	-
Display	LED, 8 digits	-
Interface Protocol	M-Bus/RS485 EN13757/Modbus (188 customizable)	-

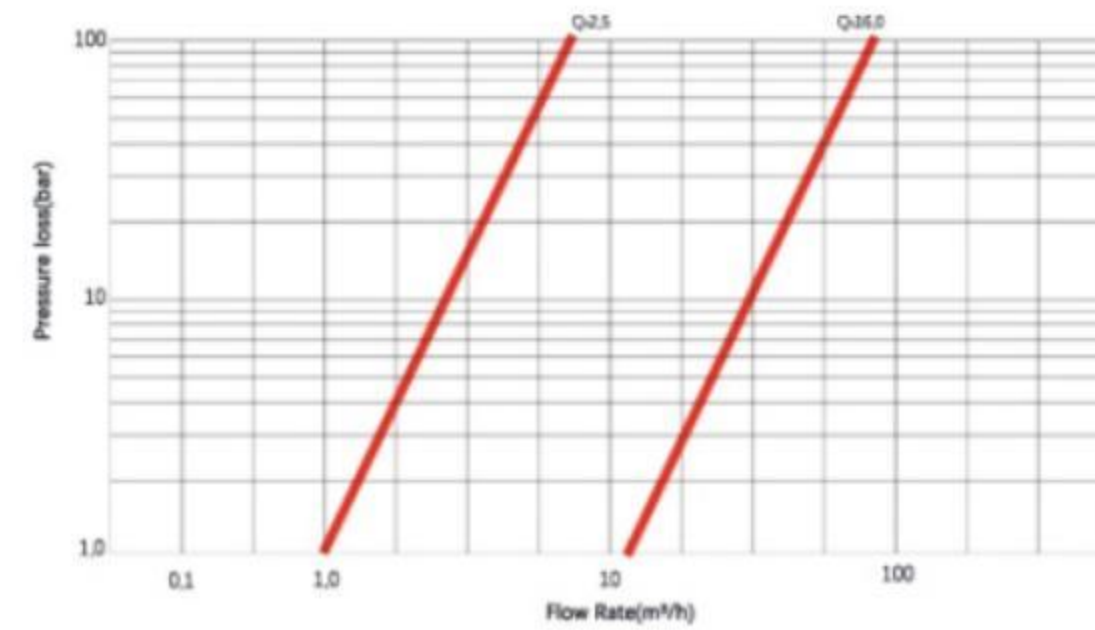
Communication Technical Specifications

Feature	Parameters	
Interface	M-BUS	RS485
Protocol	188/EN13757	Modbus
Baud rate	2400bps/9600bps	9600bps
Communication range	500m	1000m
The maximum number of connectable	500	256
Communication power supply	9-24V	12-24V
Physical layer	Two-wire system	Four-wire system

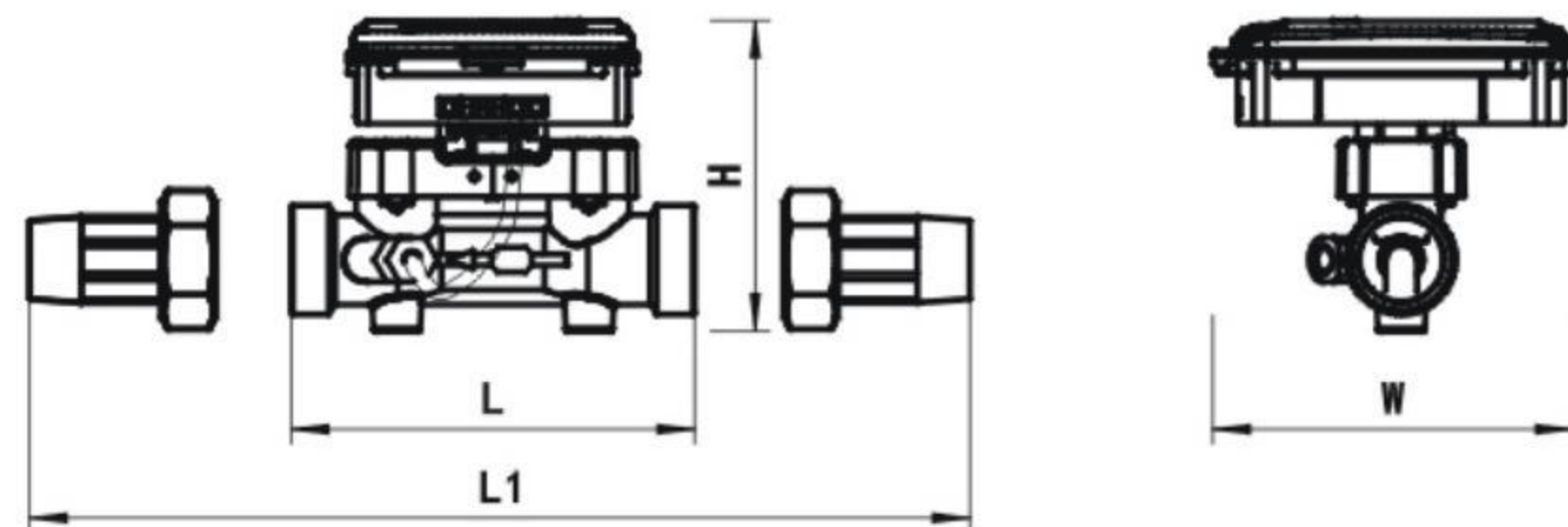
Standard Error Curve Chart



Pressure Loss Curve Chart



Dimensions



Dimension	15	20	25	32	40
Length (mm)	110	130	160	180	200
Length 1 (mm)	205	235	281	305	330
Width (mm)	125	125	125	125	125
Height (mm)	86	86	89	100	120
Meter thread	R1/2	R3/4	R1	R1 1/4	R1 1/2
Pipe thread	G3/4B	G1B	G1 1/4B	G1 1/2B	G2B

Wireless Water Meter

S10



Application

LoRaWAN Wireless WaterMeter, designed for efficient and remote water management. This innovative device integrates advanced LoRaWAN communication technology, ensuring reliable longdistance data transmission and precise control of water flow.

- Remote and automated water flow management;
- Remote control restricts water usage to ensure income;
- Real-time Monitoring, accurate water usage tracking
- Durable Design: IP68 rated for harsh conditions;
- Extended Battery Life: Provides long-lasting performance with minimal maintenance;
- Efficient Installation: Designed for quick and straightforward setup;
- Wide Compatibility: Compatible with various water management platforms.

Technical Features

Electrical parameter
 Standby Power Consumption: 15uA
 Peak Power Consumption: 50mA
 Transmission Frequency: 2-12 times/day(Optional)
 Battery Life: 6-8years(Optional)
 Part of structure
 Multi-flow, dry type;
 Q3/Q1 = R100/160(optional);
 Supports installation at Horizontal;
 IP68 suitable for outdoor installations;
 Temperature class T30, T50, T90;
 Environment class E1/M1;
 Nominal pressure PN10/PN16;
 U10/D5, straight pipe sections required before or after the meter;
 Brass and nylon bodies are available.

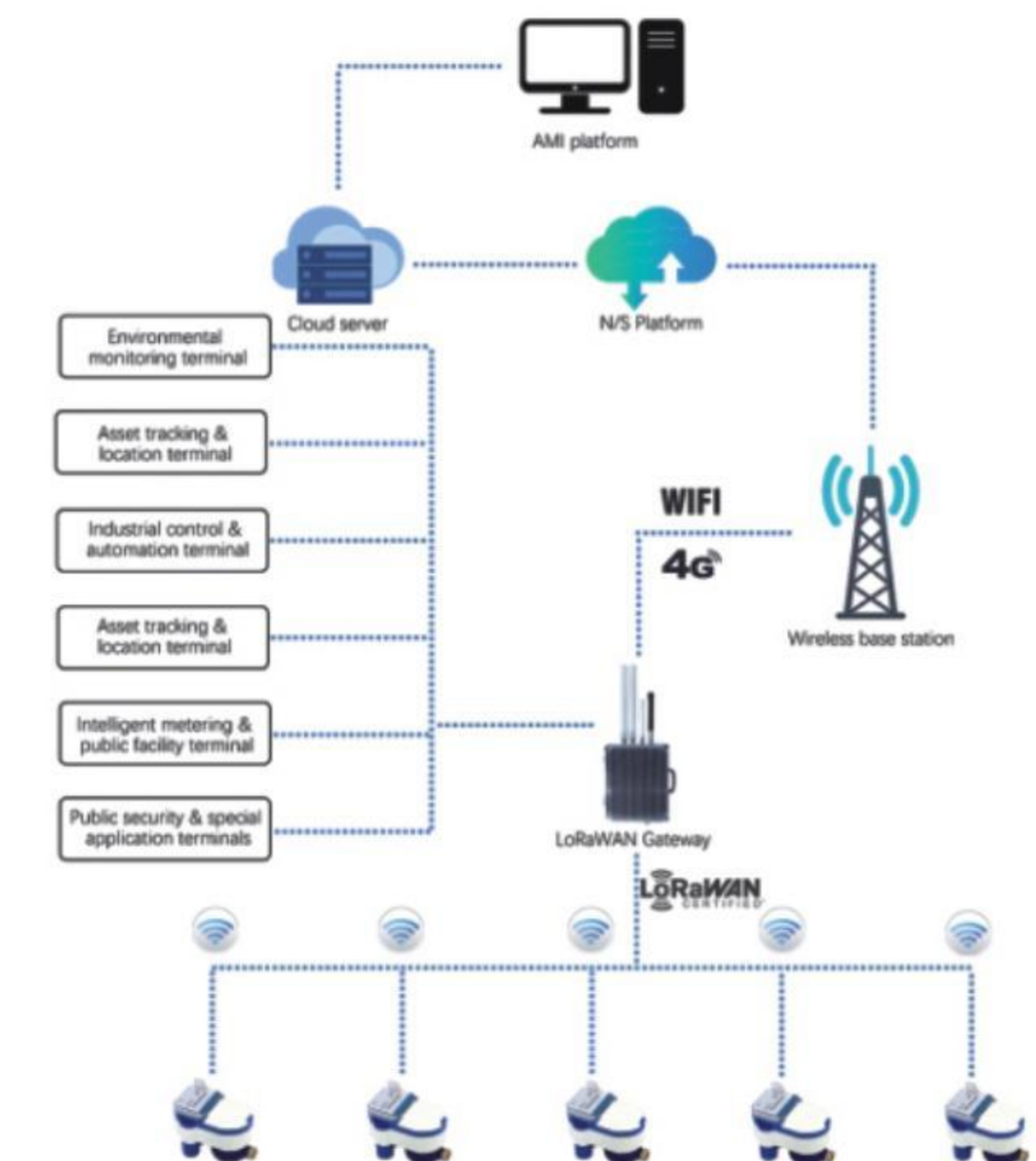
Water Meter

Wireless Amr Interfaces

EU433, CN470, IN865, EU868,
 AU915, AS915, AS923, Us923

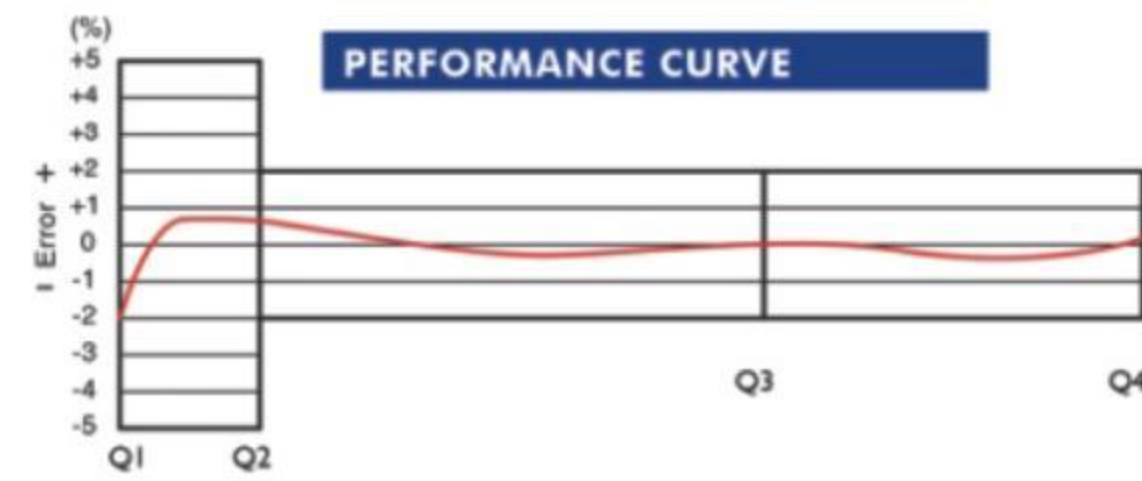


Product Operation Concept Map

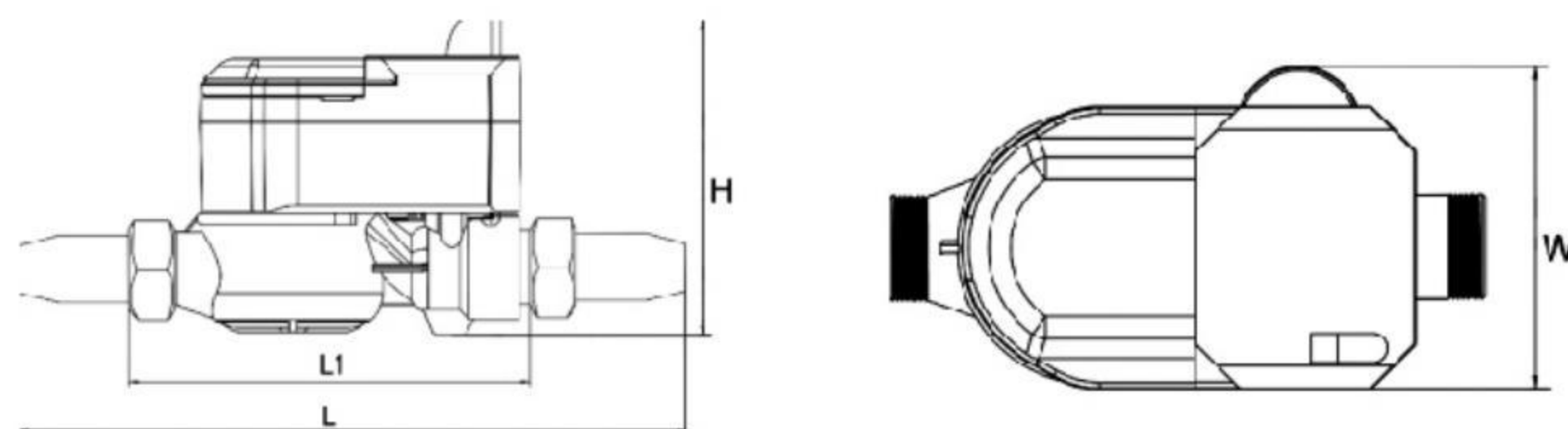
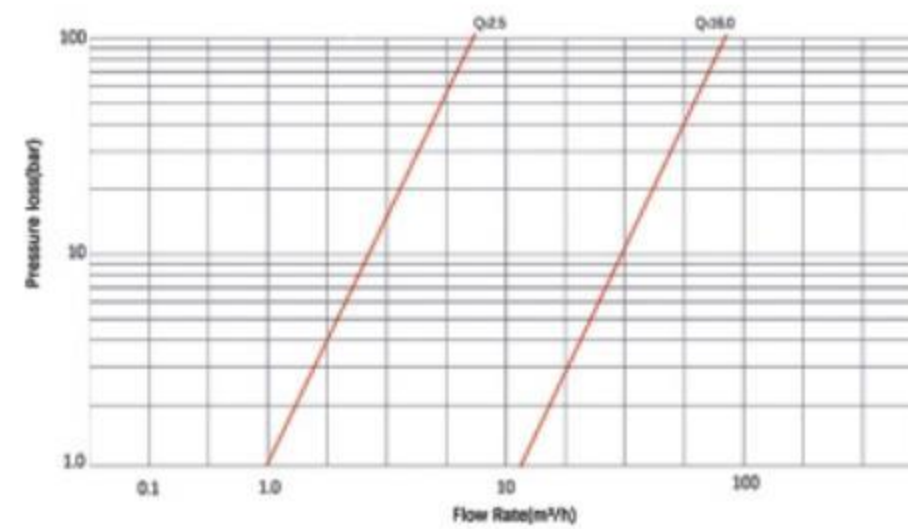


Technical Features

Model	Q4	Q3	Q2	Q1	R(Q3/Q1)	Pressure loss class
	m ³ /h	m ³ /h	L/h	L/h	/	ΔP(bar)
S10-15	3.125	2.5	40	25	R100	0.63
			25	15.6	R160	
S10-20	5	4	64	40	R100	0.63
			40	25	R160	
S10-25	7.875	6.3	100	63	R100	0.63
			63	39.3	R160	



Model	L	L1	W	H	Connection (Meter)	Connection (Nut)
DN	mm	mm	mm	mm	G	R
S10-15	165	260	90	110	G3/4B	R1/2
S10-20	195	300	90	110	G1B	R3/4
S10-25	225	346	90	110	G1 1/4B	R1



Ultrasonic Water Meter

Water Meter

TS11FW

Innovating Measurement Professional Smart



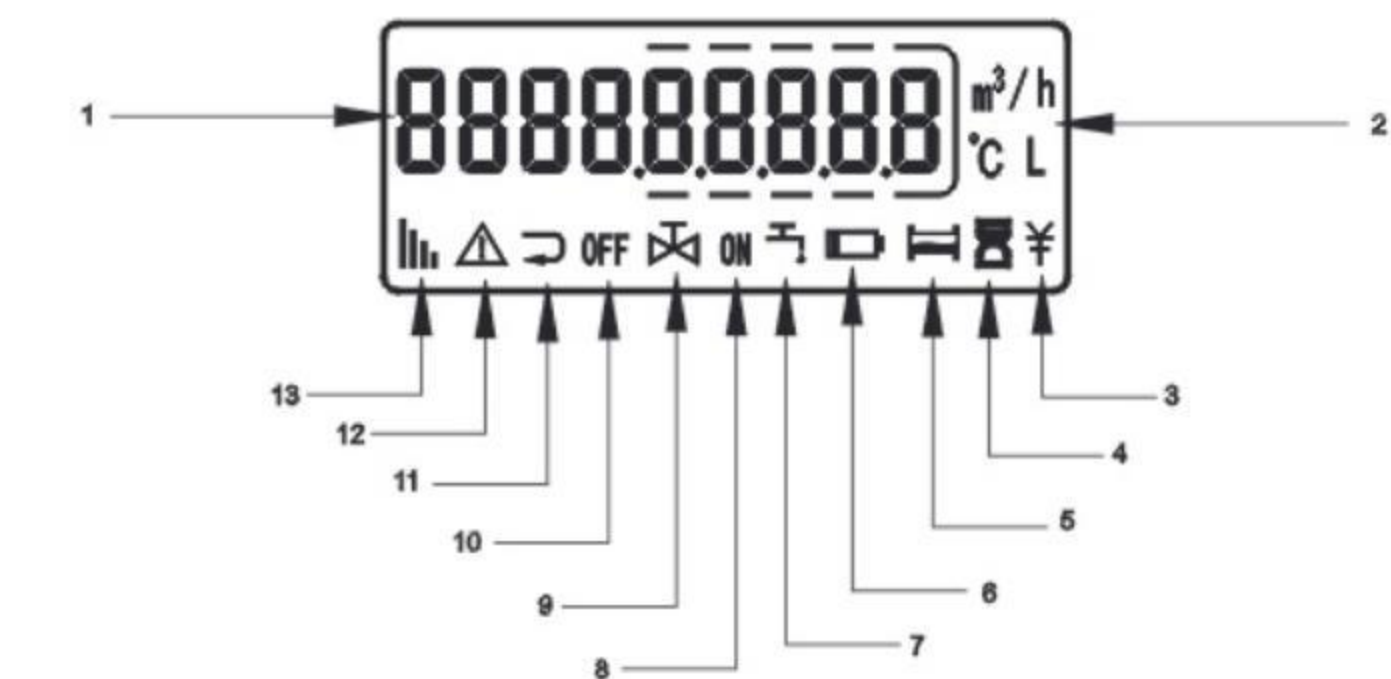
Basic Information

The TS11FW series ultrasonic water meter (Valve control) is a high-precision electronic water metering instrument. It uses the ultrasonic time-difference method to continuously measure, record, and display the volume of water flowing through the sensor. It can meet the strict requirements of water metering management departments for accurate water consumption measurement. The TS11FW is compatible with IoT transmission technology and provides customized solutions for users with different needs. It is widely used in water metering scenarios such as households, apartments, and commercial premises.

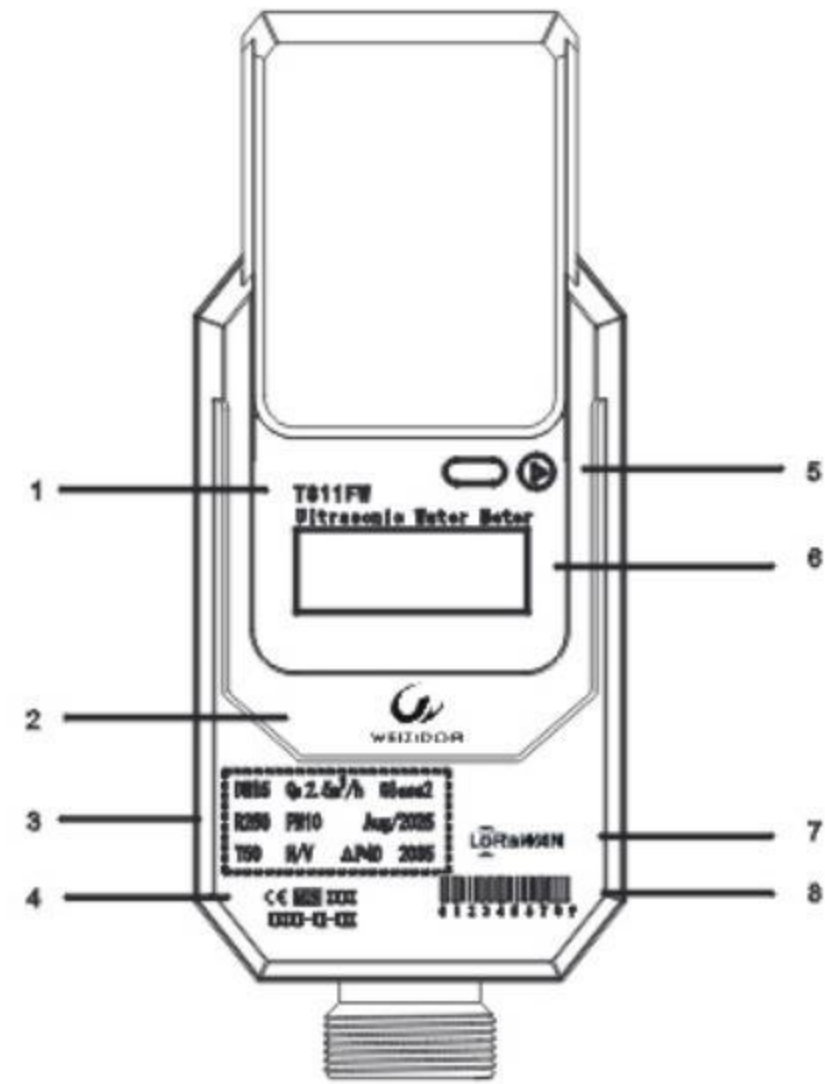
- Built-in ball valve, allowing for remote water restriction;
- No moving parts in the measuring mechanism, ensuring no wear and tear;
- Supports a 9-digit LCD display, with the minimum measurement unit of mL;
- Supports vertical, horizontal, or inclined installation angles;
- Supports reverse flow detection;
- Supports non-full pipe detection;
- Low pressure loss;
- IP68 protection rating, adaptable to various harsh installation environments;
- Supports remote meter data reading: Wired reading via RS-485 modbus/M-Bus/-pulse, and wireless reading via LoRa/LoRaWAN/W-MBus/NB-IoT.

Product Disassembly

No.	Name
1	Digital Display
2	Unit Display
3	Balance Indicator
4	Remaining Quantity Indicator
5	Non-full Pipe Alarm
6	Low Voltage Alarm
7	Leakage/Drip Alarm
8	Valve Open
9	Valve Indicator
10	Valve Closed
11	Reverse Flow Indicator
12	Fault Alarm
13	Signal Strength



Nameplate



1. Model
2. Manufacturer/Company Logo
3. Meter Parameters / Specifications
4. Certification Mark
5. Touch Area
6. LCD Display Area
7. Communication Method
8. Meter Address

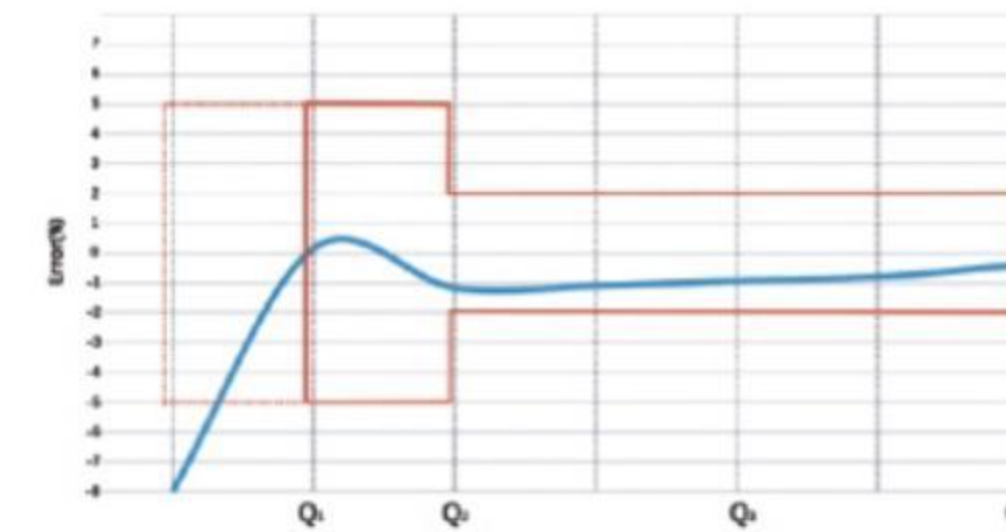
Model	Q4	Q3	Q2	Q1	R(Q3/Q1)	Minimum starting	Pressure loss class
	m ³ /h	m ³ /h	L/h	L/h	/	L/h	ΔP(bar)
TS11FW-15	3.125	2.5	16	10	R250	1	0.4
			10	6.25	R400	1	
TS11FW-20	5	4	25.6	6.25	R250	1	0.4
			16	10	R400	1	
TS11FW-25	7.87	6.3	40.32	25.2	R250	1	0.25
			25.2	15.75	R400	1	
			64	40	R400	1.5	

Description	Value	Unit
Accuracy Class	2	-
Q3/Q1	R250/R400	-
Maximum Reading	999999999	-
Pressure Class	PN16 (232psi)	-
Temperature Class	T30/T50 (T70/T90 customizable)	-
Installation Condition Sensitivity Class	U5/D3 (U0/D0 Customizable)	-
Protection Rating	IP68	-
Environmental Class	O	-
Electromagnetic Class	E1	-

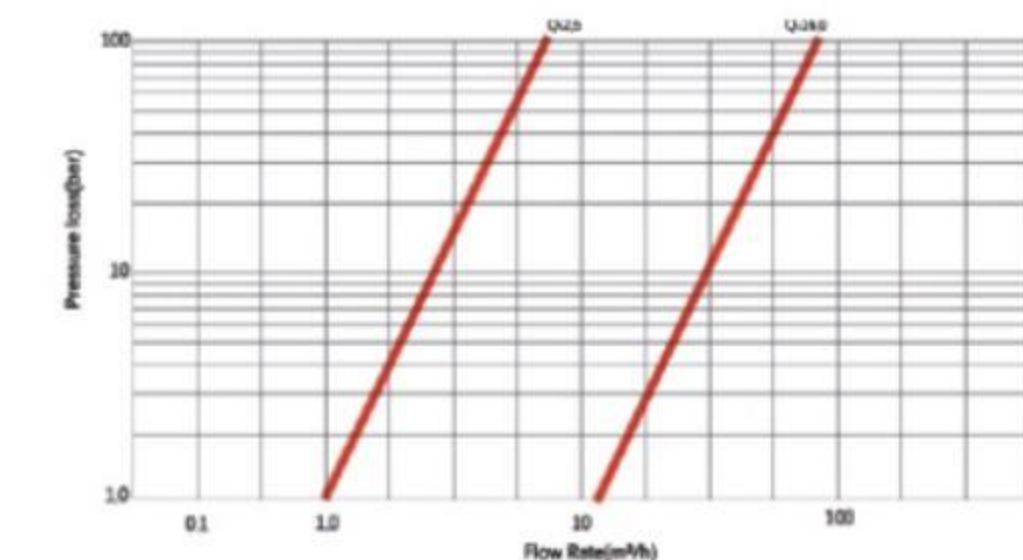
Wireless Technical Specifications

Feature	Description		
	LoRaWAN	4G	NB-IoT
Mode	LoRaWAN	4G	NB-IoT
Frequency Band Range	EU863-870/US902-928/AU915-928	800MHz/900MHz/1800MHz/2100MHz	800MHz/900MHz/1800MHz/2100MHz
Radiated Power	Maximum 14 dBm	-36 dBm	-36 dBm
Effective Distance	1-3km (open environment)	/	/
Protocol	LoRaWAN v.1.0.4	CJ/T188	CJ/T188
Communication Mode	Class A	UDP	UDP
Power Supply Mode	3.6V DC 19Ah	3.6V DC 19Ah	3.6V DC 19Ah
Upload Interval	1/2/4/12/24 h	24 h	24 h
Corresponding Mode	Timed	Timed	Timed

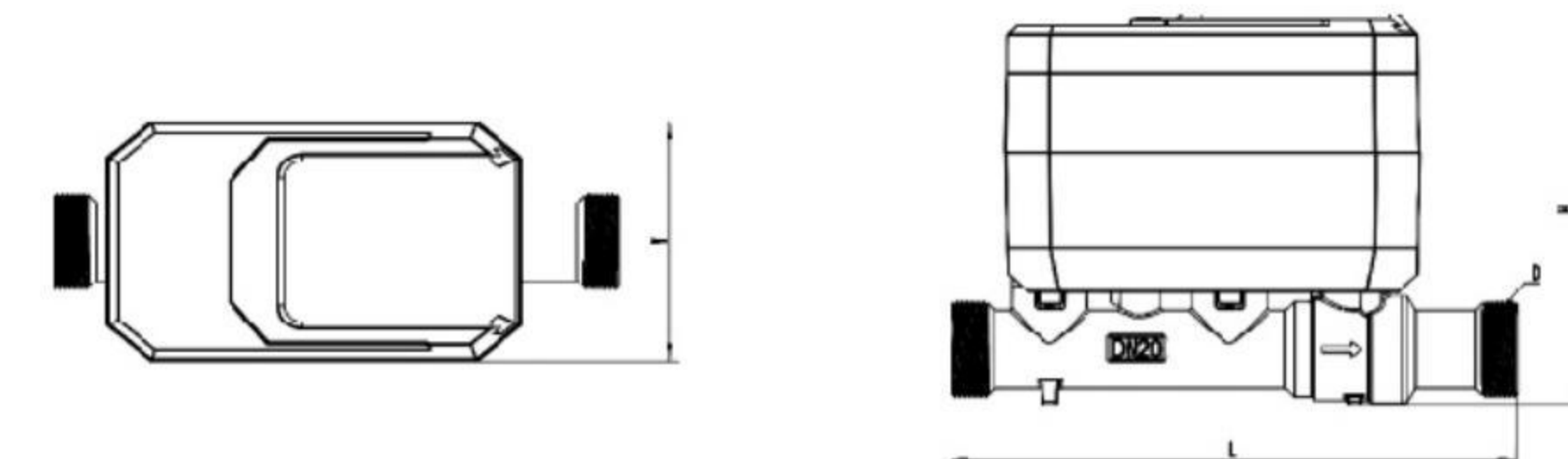
Standard Error Curve Chart



Pressure Loss Curve Chart



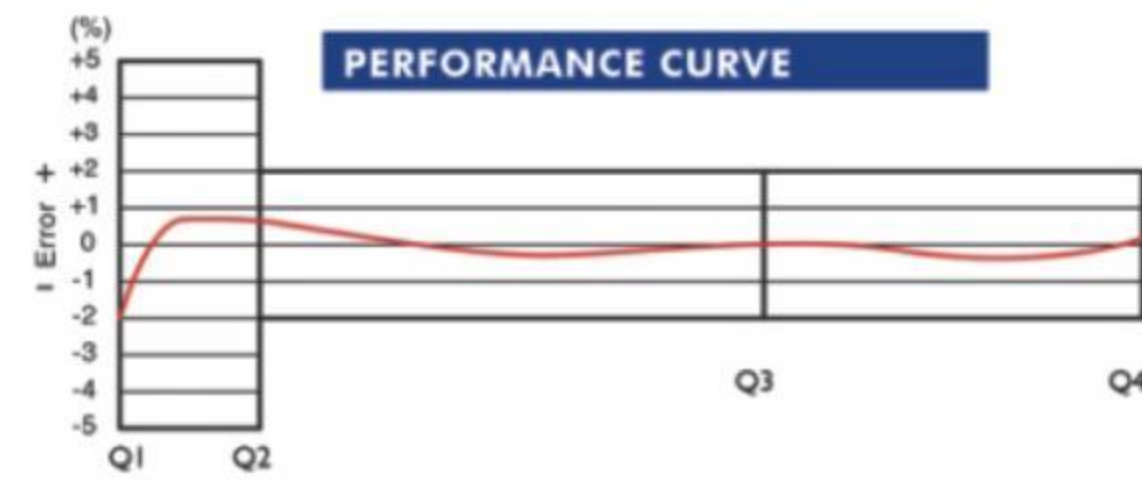
Dimensions



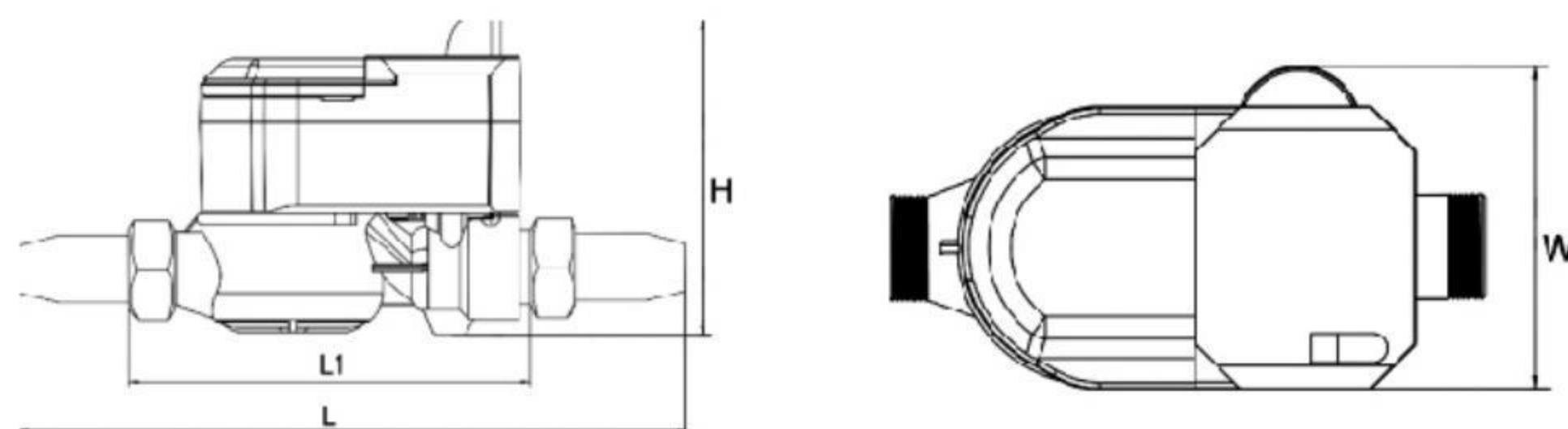
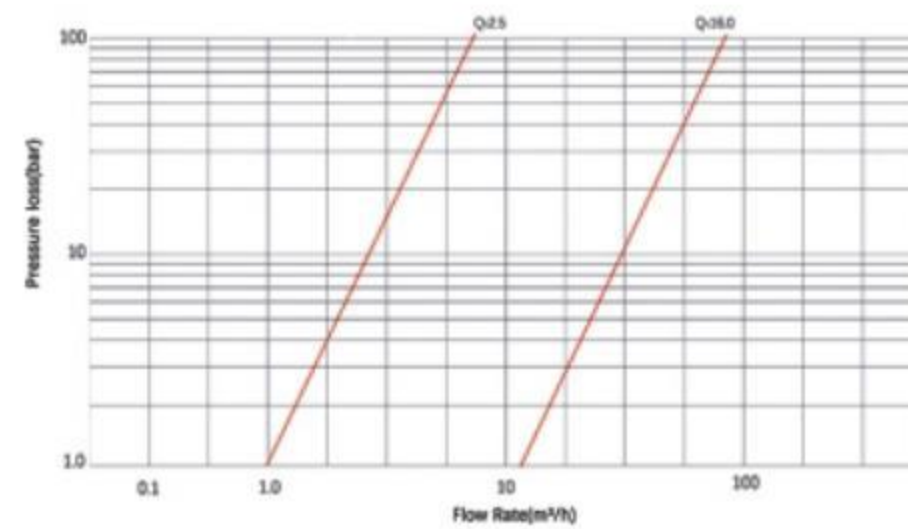
Dimension	15	20	25
Meter Length mm	165	195	225
Length with pipe L(mm)	26	300	246
Width mm		83	
Height mm	125	135	140
Meter thread	R1/2	R3/4	R1
Pipe thread	G3/4B	G1B	G1 1/4B

Technical Features

Model	Q4	Q3	Q2	Q1	R(Q3/Q1)	Pressure loss class $\Delta P(\text{bar})$
	m ³ /h	m ³ /h	L/h	L/h	/	
S10-15	3.125	2.5	40	25	R100	0.63
			25	15.6	R160	
S10-20	5	4	64	40	R100	0.63
			40	25	R160	
S10-25	7.875	6.3	100	63	R100	0.63
			63	39.3	R160	



Model	L	L1	W	H	Connection (Meter)	Connection (Nut)
DN	mm	mm	mm	mm	G	R
S10-15	165	260	90	110	G3/4B	R1/2
S10-20	195	300	90	110	G1B	R3/4
S10-25	225	346	90	110	G1 1/4B	R1



Ultrasonic Water Meter

Water Meter

TS14W

Innovating Measurement Professional Smart



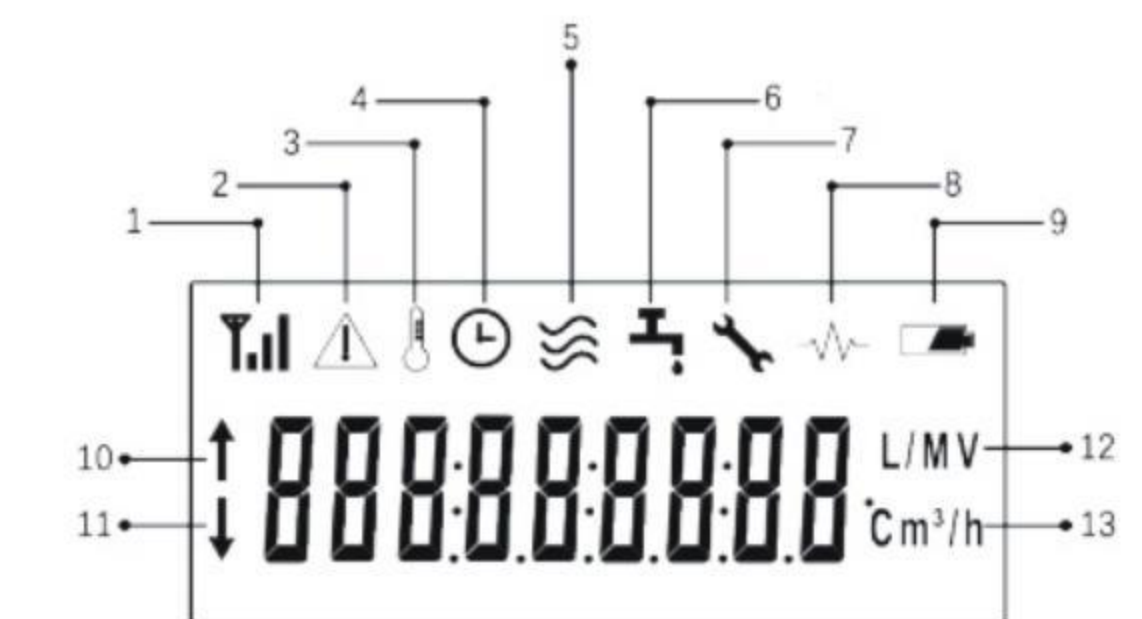
Basic Information

The TS14W series ultrasonic water meter is a high-precision electronic water metering instrument. It uses the ultrasonic time-difference method to continuously measure, record, and display the volume of water flowing through the sensor. It can meet the strict requirements of water metering management departments for accurate water consumption measurement. The TS14 is compatible with IoT transmission technology and provides customized solutions for users with different needs. It is widely used in water metering scenarios such as households, apartments, and commercial premises.

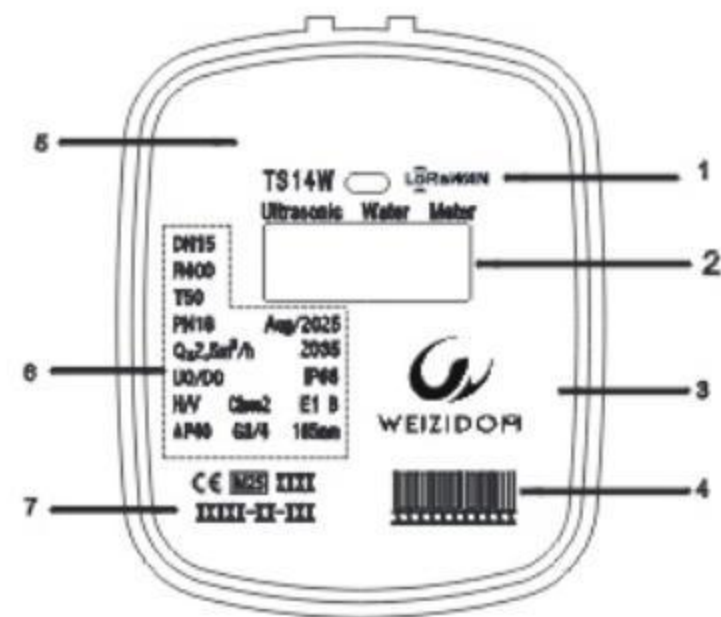
- No moving parts in the measuring mechanism, ensuring no wear and tear;
- Supports a 9-digit LCD display, with the minimum measurement unit of mL;
- Supports vertical, horizontal, or inclined installation angles;
- Supports reverse flow detection;
- Supports non-full pipe detection;
- Low pressure loss;
- IP68 protection rating, adaptable to various harsh installation environments;
- Supports remote meter data reading: wired reading via RS-485 modbus/M-Bus/pulse, and wireless reading via.

Product Disassembly

No.	Name
1	Signal strength
2	Fault Alarm
3	Water temperature
4	Cumulative working hours
5	Water flow indication
6	Drip/leak
7	Verification status
8	Sensor status
9	Battery voltage
10	Positive flow
11	Reverse flow
12	Unit
13	Unit



Nameplate



- 1. Communication method
- 2. LCD display area
- 3. Manufacturer's logo
- 4. Ultrasonic water meter ID
- 5. Magnetic trigger induction area
- 6. Product parameter area
- 7. Certification compliance mark

1	DN15	Nominal Diameter
2	R400	Q3/Q1
3	T50	Temperature Class
4	PN16	Pressure Rating
5	Aug/2025	Manufacturing Date (Month/Year)
6	Q3 2.5m ³ /h	Permanent Flow Rate
7	2035	Service Life
8	U0/D0	Flow Sensitivity Class
9	IP68	Protection Rating
10	H/V	Installation Method
11	Class 2	Accuracy Class
12	E1	Electromagnetic Environment Class
13	B	Environmental Class
14	ΔP40	Pressure Loss Rating
15	G3/4	Connection Thread
16	165mm	Meter Length

Technical Specifications

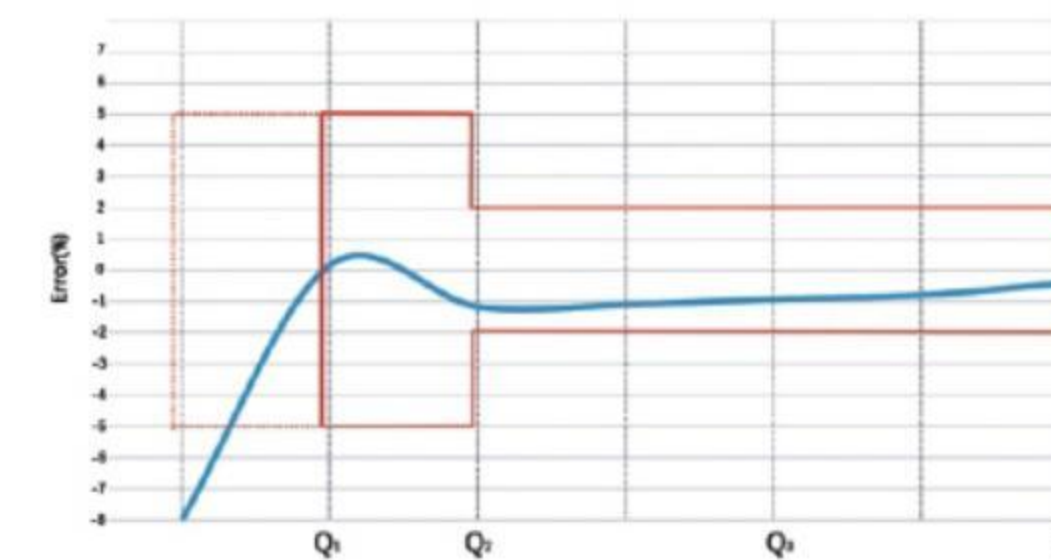
Model	Q4	Q3	Q2	Q1	R(Q3/Q1)	Minimum starting	Pressure loss class
	m ³ /h	m ³ /h	L/h	L/h	/	L/h	ΔP(bar)
TS14W-15	3.125	2.5	16	10	R250	1	0.4
			10	6.25	R400	1	
			5	3.125	R800	1	
TS14W-20	5	4	25.6	6.25	R250	1	0.4
			16	10	R400	1	
			8	5	R800	1	
TS14W-25	7.875	6.3	40.32	25.2	R250	1	0.25
			25.2	15.75	R400	1	
			12.5	7.875	R800	1	
TS14W-32	12.5	10	64	40	R250	1.5	0.16
			40	25	R400	1.5	
			20	12.5	R800	1.5	
TS14W-40	20	16	102.4	64	R250	1.5	0.16
			64	40	R400	1.5	
			32	20	R800	1.5	

Description	Value	Unit
Accuracy Class	2	-
Q3/Q1	R250/R400/R630/R800	-
Maximum Reading	999999999	-
Pressure Class	PN16 (232psi)	-
Temperature Class	T30/T50 (T70/T90 customizable)	-
Installation Condition Sensitivity Class	U5/D3 (U0/D0 customizable)	-
Protection Rating	IP68	-
Environmental Class	O	-
Electromagnetic Class	E1	-

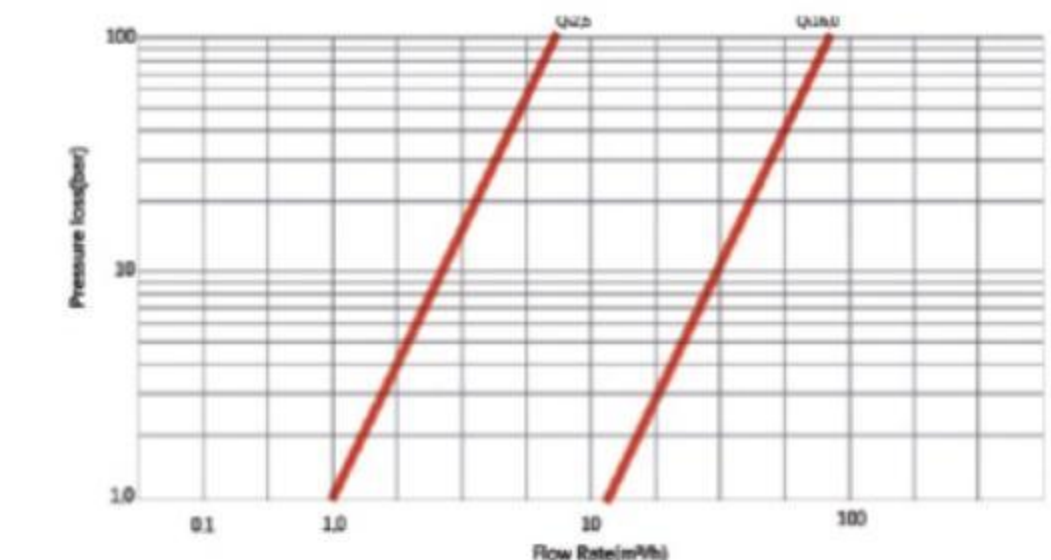
Wireless Technical Specifications

Feature	Parameters
Mode	LoRaWAN
Frequency Band Range	EU863-870/US902-928/AU915-928/AS915-928
Radiated Power	Maximum 14 dBm
Effective Distance	1-3km (open environment)
Protocol	LoRaWAN v.1.0.4
Communication Mode	Class A
Power Supply Mode	3.6V DC 17Ah
Upload Interval	1/2/4/12/24 h
Corresponding Mode	Timed

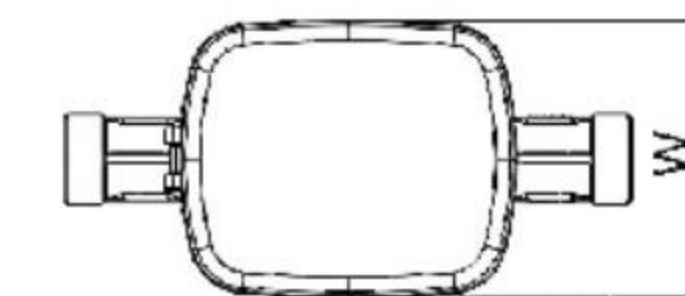
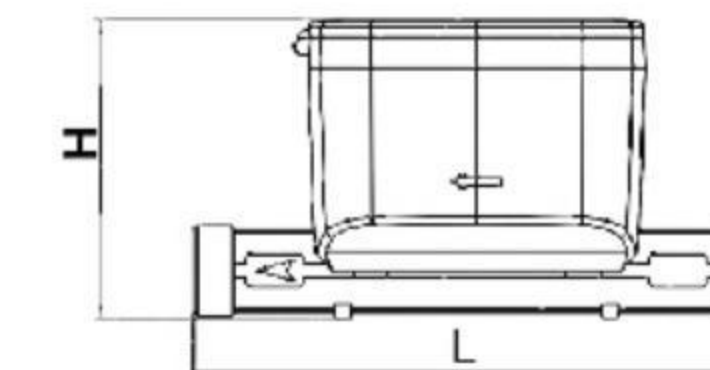
Standard Error Curve Chart



Pressure Loss Curve Chart



Dimensions



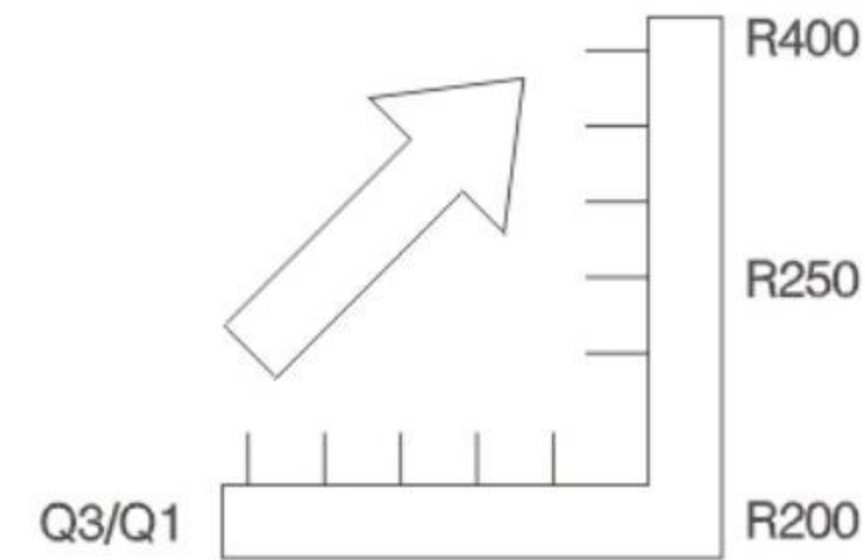
Dimension	15	20	25	32	40	15	20	25
Body material	Brass body					Nylon composite material body		
Length (mm)	110	115	225	180	200	110	115	260
	115	130	225	180	240	165	130	260
	165	190	260	260	300	170	190	260
Width (mm)	165	195	260	260	300	190	190	260
		81		97		81		
Height (mm)	90	95	100	107	115	90	95	100

Ultrasonic Water Meter-Bulk

LXC-S8-DN50-300



Old-fashioned ordinary mechanical water meters always cause dissatisfaction and complaints from customers because of excessive wear, inaccuracy and short life. The LXC-S8 ultrasonic water meter is an electronic water meter developed and produced to solve these problems. It has been widely used in pipe network metering, public water metering and agricultural irrigation metering and has achieved remarkable results.



No wear and pressure loss

The body of the water meter is completely hollow, therefore, it will have almost no pressure loss and no blockage, and it will not affect the accuracy over time. Which can adapt to the installation environment with poor water quality.



IP68 protection design

The water meter module adopts a special sealing process, and the battery is also completely waterproof. The water meter can even work normally in the water.

Higher measuring range

Due to different processes, the range ratio of ultrasonic water meters can reach a higher level, and customers can customize its standards according to actual requirements. The higher the R (Q3/Q1) of the water meter, the wider the flow rate range it can detect.



Remote data transmission

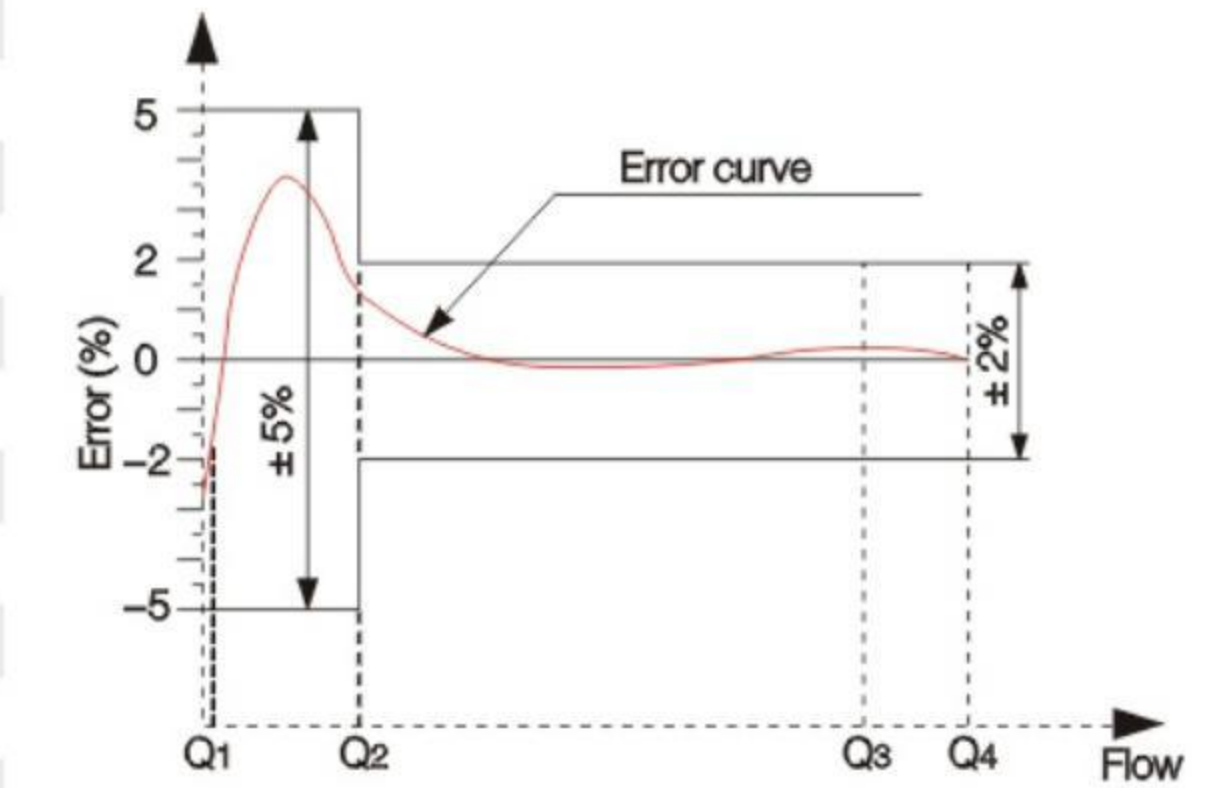
If the customer needs to transmit data remotely, then you can choose to use wired transmission: RS485, M-BUS and pulse output. You can also use wireless transmission: LoRa, GPRS and NB-IOT. You can choose flexibly according to actual needs.

Water Meter

Technical Parameters

Nominal diameter	50	65	80	100	125	150	200	250	300
Max flow Q4(m ³ /h)	31.2	50	78.75	125	200	312.5	500	787.5	1250
Nominal flow Q3(m ³ /h)	25	40	63	100	160	250	400	630	1000
Transitional flow Q2(m ³ /h)	0.16	0.256	0.4	0.64	1.04	1.6	2.56	4.03	6.4
Min flow Q1(m ³ /h)	0.1	0.16	0.252	0.4	0.64	1	1.6	2.52	4
Max flow	9999999.9								
Reverse flow	9999999.9								
Measuring range	Q3/Q1, R250/400								
Accuracy class	Class B								
Pressure loss	≤0.063 MPa								
Working pressure	MAX 1.6MPa								
Temp class	T50								
Temp range	(5~55)°C								
Installation ENV	Indoor, Class B								
Electromagnetic ENV	E1(Residential, Commercial, Industrial)								
Power supply	Built-in lithium battery DC 36V								
Battery life	>10 years								
Installation position	Horizontal or Vertical								
Display	LCD, 8 digits+additional characters								
Installation pitch	U10/D5								
Interface	RS485/M-BUS/Pulse output/NB-IOT/LORA/GPRS								
Protection class	IP 68								

Maximum allowable error Q1-Q2 ± 5%;
Maximum allowable error Q3-Q4;
Water temperature ≤30°C, max permissible error ± 2%;
Water temperature >30°C, max permissible error ± 3%.

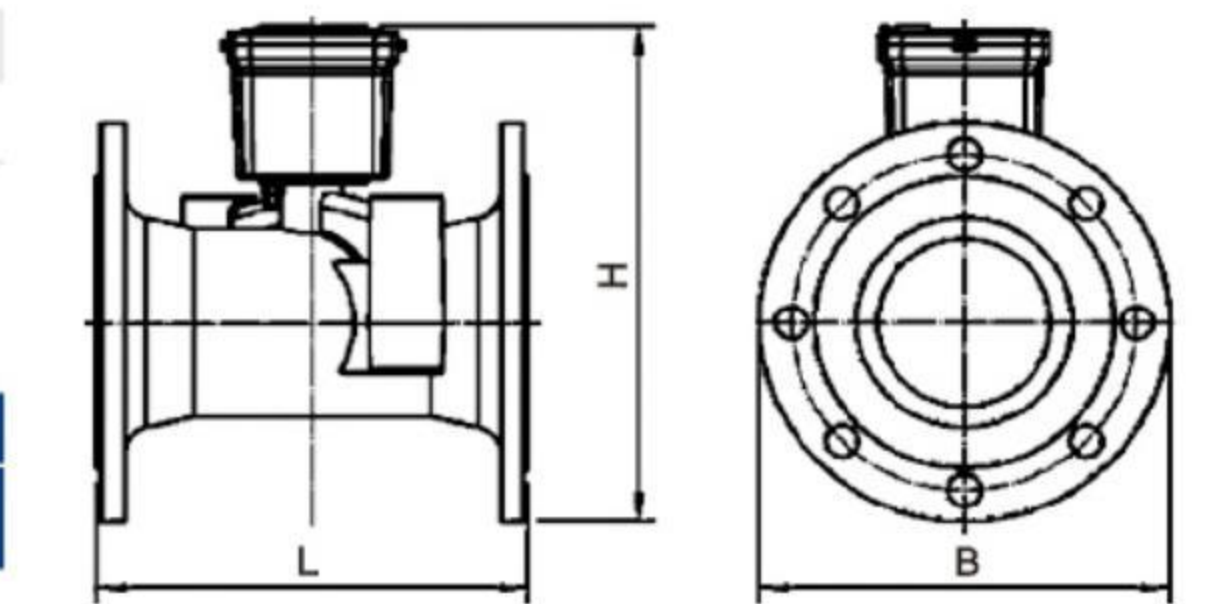


Dimension Parameters

Nominal Diameter (mm)	Length L	Width B	Height H	Flange Connection		
				Flange Diameter	Bolt Circle Diameter	Bolt Size-M
DN50	200	170	215	170	125	4-16
DN65	200	185	220	185	145	4-M16
DN80	225	200	235	200	160	8-M16
DN100	250	220	255	220	180	8-M16
DN125	250	250	285	250	210	8-M16
DN150	300	285	335	285	240	8-M20
DN200	350	340	405	340	295	12-M20
DN250	450	405	470	405	355	12-M24
DN300	500	460	525	460	410	12-M24

Because the ultrasonic water meter can measure the flow rate of water, it can use this feature to monitor leakage problems, so the remote and timely transmission of data is very important. The LXC-S8 ultrasonic water meter supports a variety of wired and wireless transmission modes, and it can also detect reverse flow, which is very suitable for more complex pipe network water supply environments.

Bulk ultrasonic water meters are widely used in the measurement fields of industry, civil drinking water, agricultural irrigation, etc.



Prepaid Water Meter-Household

LXSG-S9-DN15-25



In the long-term residential water supply work, the management department is often distressed because it cannot receive the water fee smoothly, and encounters obstacles in reading the water meter data of the residents. This has taken a lot of time and energy for the management department, and this LXSG prepaid water meter can effectively solve these problems. The user must first pay for the recharge before the valve of the water meter can be opened and supply water. When there is not enough money in the water meter, it will stop the water supply.



Pay first and use water later

Its use logic is that its valve will only open if there is sufficient money in the water meter. You don't have to worry about users not paying.



Tiered unit price

The water management department can set different water charging standards. When the user usage exceeds the limit, he will need to pay more money.



Security is guaranteed

When the water meter is activated, it can only accept the user card that has been bound, and the safety is guaranteed.

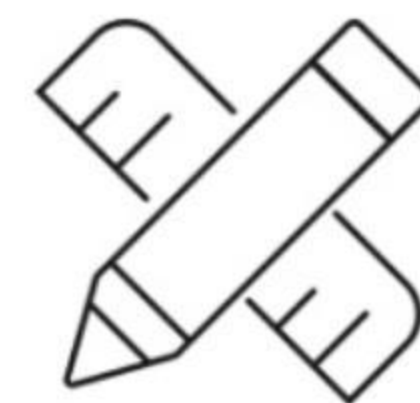
IP68 protection design

The water meter module adopts a special sealing process, and the battery is also completely waterproof. The water meter can even work normally in the water.



Self-protection function

To ensure the reliability of water meter, valve it will periodically rotate once a month. When the water meter is disturbed by a magnetic field, the valve will automatically close.



System can be customized

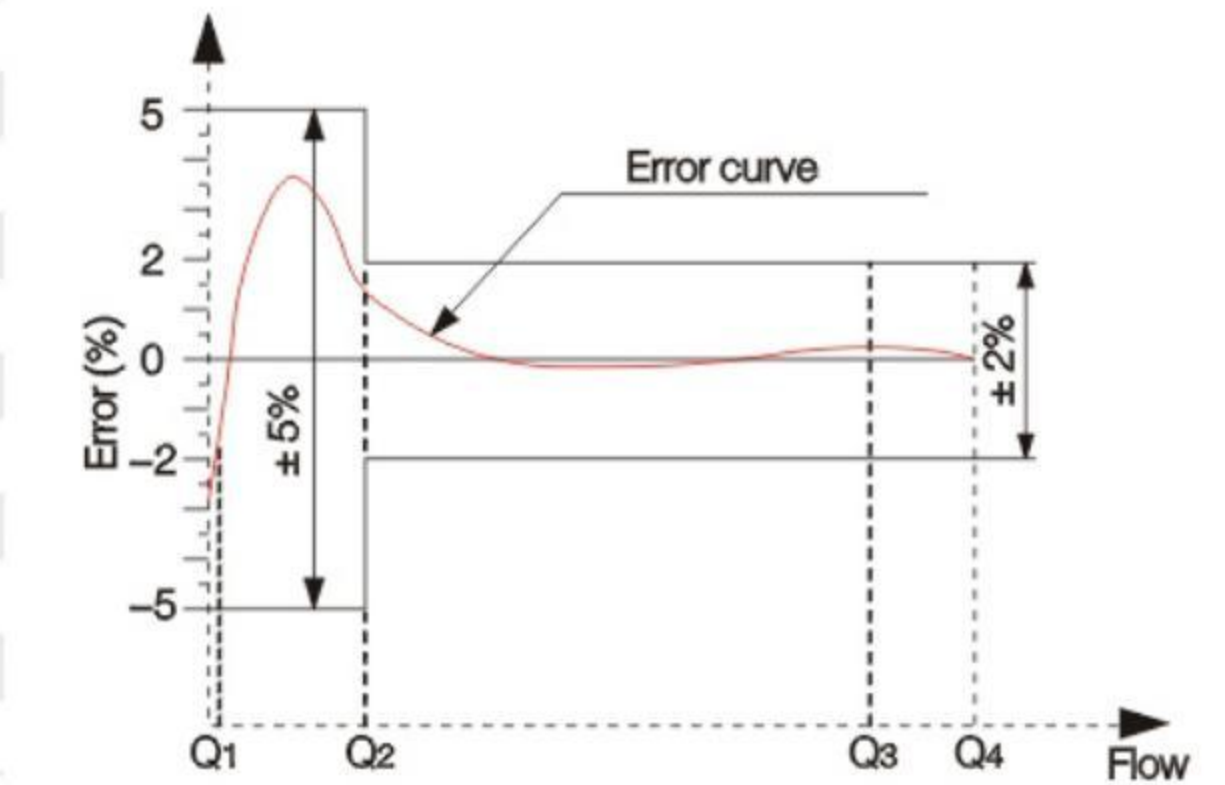
Customers can customize the language and interface display of the system according to actual needs. And it has B/S online version and stand-alone version to choose from.

Water Meter

Technical Parameters

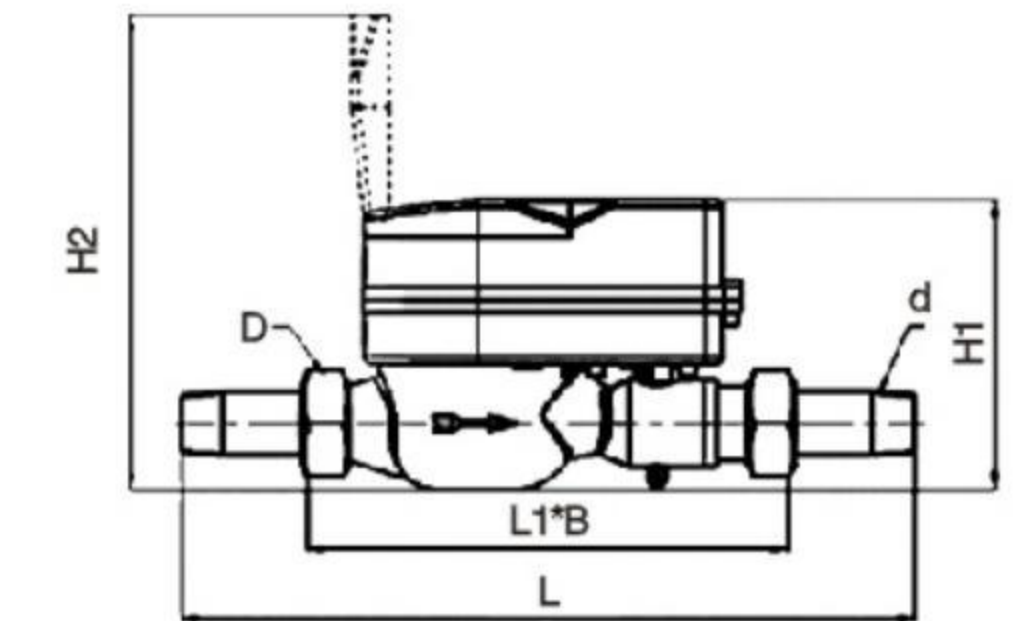
Nominal diameter	15	20	25
Max flow Q4(m ³ /h)	3.125	5	7.87
Nominal flow Q3(m ³ /h)	2.5	4	6.3
Transitional flow Q2(m ³ /h)	0.02	0.032	0.05
Min flow Q1(m ³ /h)	0.013	0.02	0.032
Measuring range	R80		
Accuracy class	Class B		
Pressure loss	<0.063 MPa		
Max working pressure	1.0MPa		
Temp class	T30		
Level of protection	IP 68		
Installation environment	Indoor, Class B		
Electromagnetic environment	E1		
Power supply	DC 3.6V		
Battery life	≥6 years		
Installation position	Horizontal or Vertical		
Display	LCD		
Installation pitch	U10/D5		

Maximum allowable error Q1-Q2 ± 5%;
Maximum allowable error Q3-Q4;
Water temperature ≤30°C, max permissible error ± 2%;
Water temperature > 30°C, max permissible error ± 3%.



Dimension Parameters

DN	L	L1	B	H1	H2	Connection thread	
	mm						d
15	258	165	90	120	200	R1/2	G3/4B
20	299	195	90	120	200	R3/4	G1B
25	345	225	90	120	200	R1	G1 1/4B

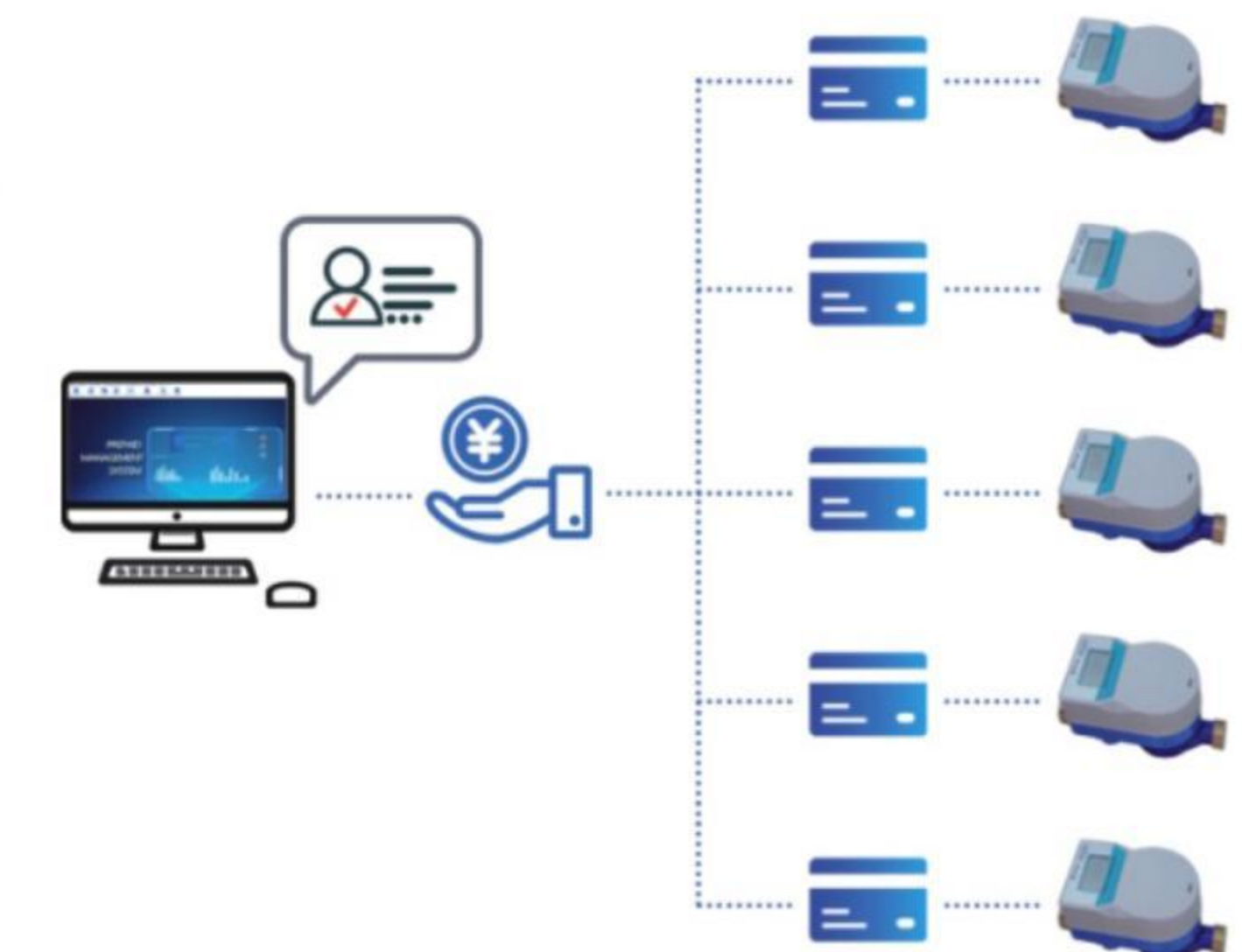


The operation of the prepaid water meter is very simple.

When the water meter is installed:

- First, the user needs to go to the payment office of the relevant water management department to go through the water meter account opening procedures;
- The manager will issue an IC card to the user and open an account and recharge;
- After completing the recharge, the user can use the IC card to swipe the water meter and it can be used normally.

When the remaining amount in the water meter reaches the alarm value or is zero, the water meter will automatically close the valve to remind the user to recharge and pay.



S16 DN15~40



Application

Wireless Water Meter, designed for efficient and remote water management. This innovative device integrates advanced Cat.1 communication technology, ensuring reliable long-distance data transmission and precise control of water flow.

- Remote and automated water flow management;
- No need to build a gateway, reducing the cost of use;
- Real-time Monitoring, accurate water usage tracking;
- Durable Design: IP68 rated for harsh conditions;
- Extended Battery Life: Provides long-lasting performance with minimal maintenance;
- Efficient Installation: Designed for quick and straightforward setup;
- Wide Compatibility: Compatible with various water management platforms.

Technical Features

Electrical parameter

Standby Power Consumption: 15u

APeak Power Consumption: 50mA

Transmission Frequency: Once per day

Battery Life: 6 years (Optional)

Part of structure

Multi-flow, Non-magnetic transmission type;

Q3/Q1 = R100/160 (optional);

Supports installation at Horizontal;

IP68 suitable for outdoor installations;

Temperature class T30, T50, T90;

Environment class E1/M1;

Nominal pressure PN16/10;

U10/D5, straight pipe sections required before or after the meter;

Brass and nylon bodies are available

WIRELESS AMR INTERFACES



Product Function

- **Bidirectional Measurement:**
The electronic device features bidirectional measurement (forward/reverse) functionality, enabling analysis of water supply pressure conditions.
- **Abnormal Flow Alarm (Configurable):**
When the water flow exceeds the set threshold, the meter actively sends an online alarm.
- **Scheduled Data Upload:**
The upload interval can be configured (default: once per day), adjustable range: 10 minutes to 24 hours.
- **Automatic Retransmission:**
If data upload fails, the meter automatically retries every 8 hours for up to 24 hours.
- **Low Voltage Alarm:**
When the battery voltage drops below 3.0V, the uploaded data will include a low-voltage alarm message.
- **Magnetic Interference Alarm:**
The meter triggers a real-time alarm upon detecting magnetic interference. If the interference persists, it reports once daily.

Basic Information

The TS16W series wireless remote transmission water meter utilizes 4G wireless transmission technology. Through microelectronic control circuits, it converts measurement data from traditional mechanical water meters into electrical signals for storage. The device can regularly collect metering data and transmit it via wireless IoT networks to backend systems, enabling digital collection and analysis for modern water management.

Product Features

- Featuring 4G communication for ultra-long-distance transmission.
- Modular design separating mechanical and electronic components for easier maintenance.
- Non-magnetic sensing technology enabling bidirectional measurement (forward/reverse) with strong resistance to magnetic interference.
- Communication frequency: 1-2 times/day; battery life ≥ 6 years (design life: 12 years), replaceable battery.
- Available in multiple materials: Copper, cast iron, stainless steel.
- Supports various base meter types: Wet-type, dry-type, non-magnetic pulse generation.
- Abnormal alarm functions: Reverse flow, over-range flow, low voltage, leak detection.
- Optional built-in or external antenna.

Technical Features

Model	Q4	Q3	Q2	Q1	R(Q3/Q1)	Pressure loss class
	m ³ /h	m ³ /h	L/h	L/h	/	ΔP(bar)
15	3.125	2.5	40	25	R100	0.63
20	5	4	64	40	R100	0.63
25	7.875	6.3	100	63	R100	0.63
32	12.5	10	200	125	R80	0.63
40	20	16	320	200	R80	0.63

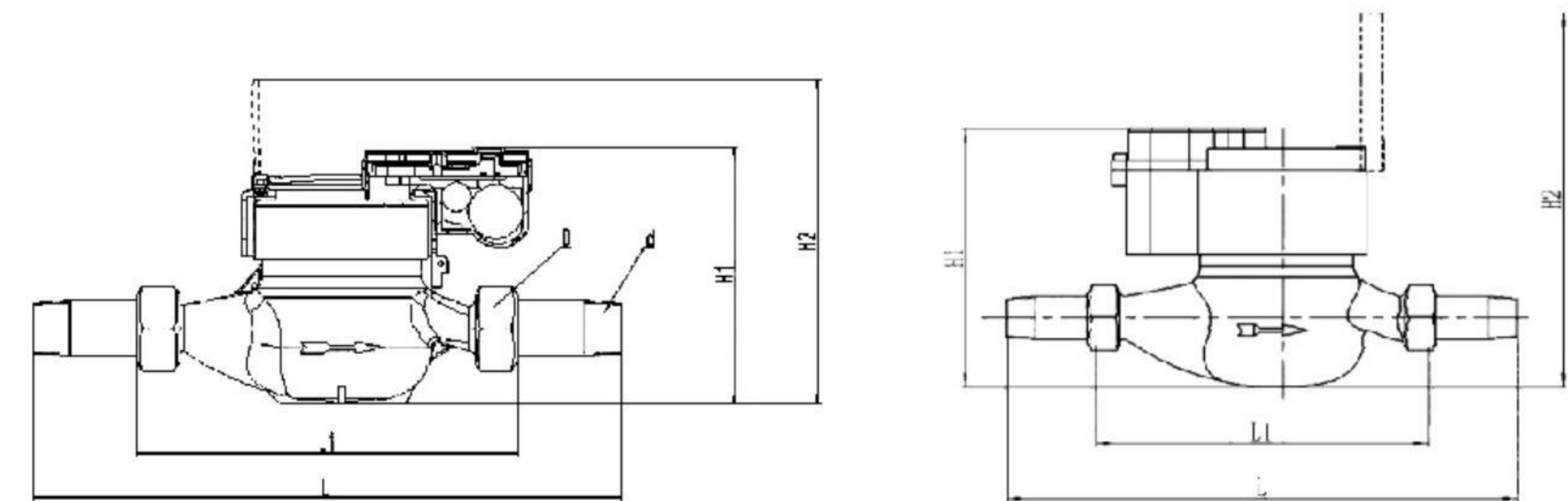
Description	Value	Unit
Accuracy Class	2	-
Q3/Q1	R100	-
Pressure Class	PN16 /PN10	-
Temperature Class	T30/T50 (T70/T90 customizable)	-
Installation Condition Sensitivity Class	U5/D3 (U0/D0 customizable)	-
Protection Rating	IP67/68	-
Environmental Class	B	-
Electromagnetic Class	E1	-

Wireless Technical Specifications

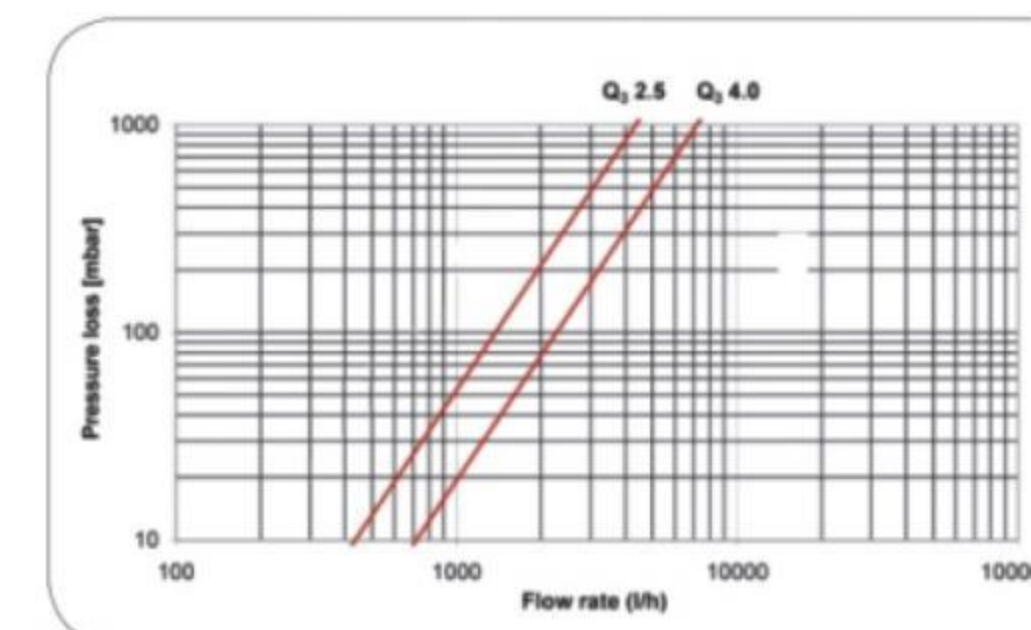
Feature	Parameters
Mode	4G
Frequency Band Range	All band
Radiated Power	Maximum 200mW
Effective Distance	1-20km
Static Power	≤20μA
Power Supply Mode	3.6V DC 8.5A/17Ah
Upload Interval	1/2/4/12/24 h (By default, once a day)
Corresponding Mode	Timed

Dimensions (Including Composite Material Housing)

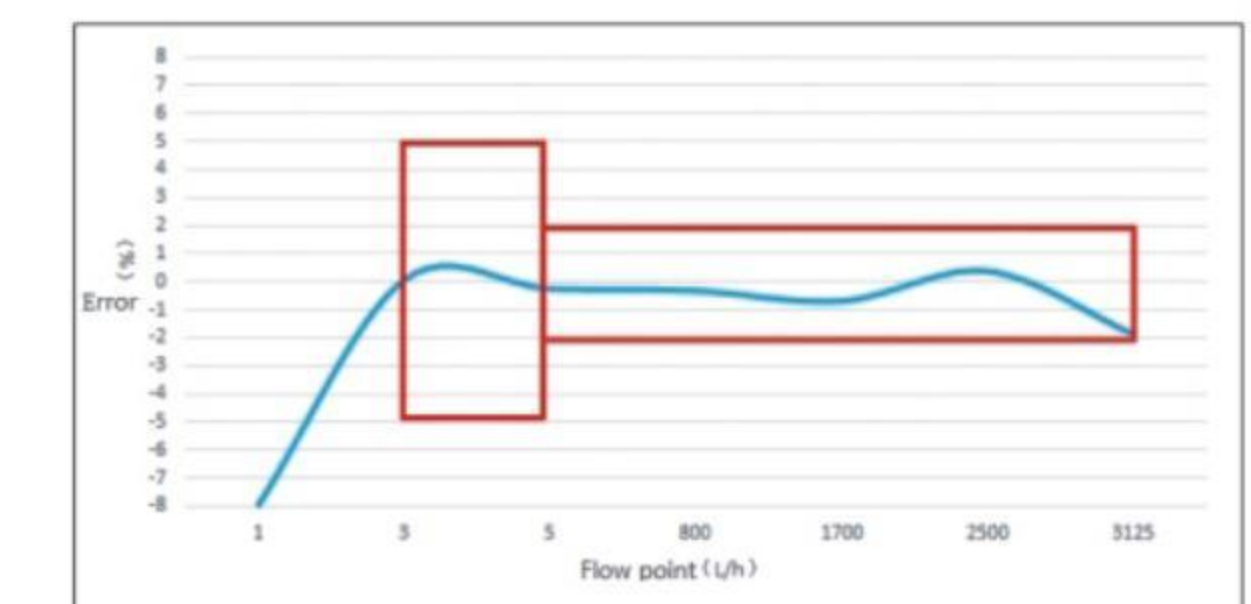
Dimension	15	20	25	32	40
Body material	Brass body (DN15-25)/ron body(DN15-40)				
Length L1(mm)	160	190	220	260	300
Length L(mm) (With connecting pipe)	254	290	340	374	428
Width B (mm)	100	100	100	95	115
Height H1(mm)	130	135	140	123	157
Height H2(mm)	170	175	175	163	197



Pressure Loss Curve Chart



Standard Error Curve Chart





Application

Measuring the volume of cold potable water passing through the pipeline.

Features

- Nominal Flow Rate Q3 = 2.5 m³/h
- Minimum Flowrate Q1 = 15 l/h
- R (Q3/Q1) = 160
- Error: Q2 ≤ Q ≤ Q4 2%; Q1 ≤ Q < Q2 5%
- Pressure Loss ≤ 0.063MPa
- Max. Registration Capacity: 99999
- Mini. Reading Resolution: 0.00005

Working Conditions

- Working Temperature ≤ 50°C
- Working Pressure ≤ 1.6MPa
- Relative Humidity ≤ 95%

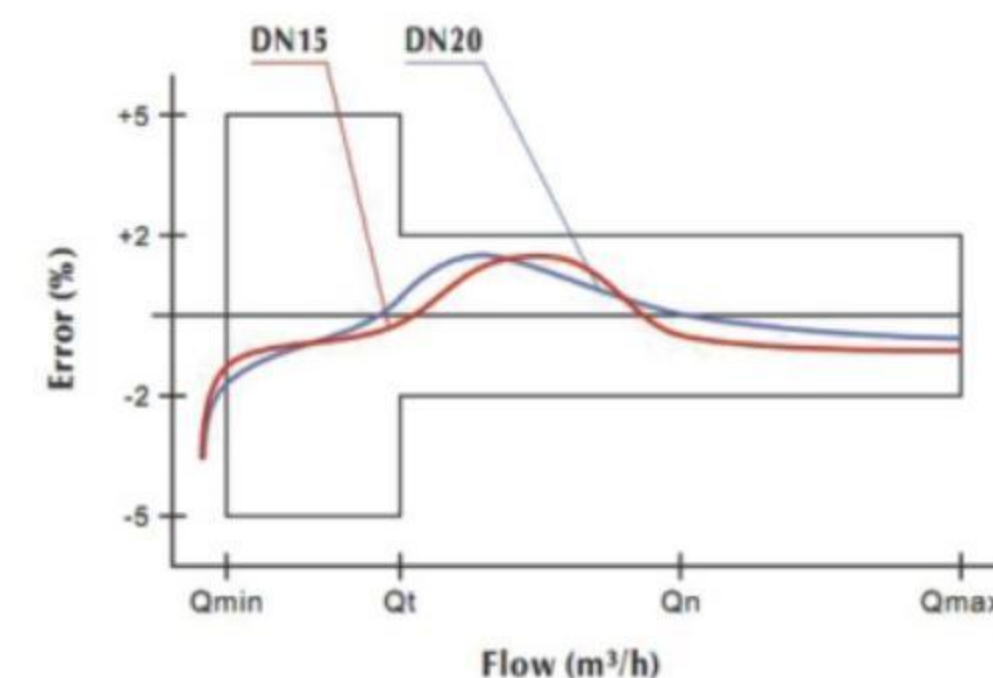
Compliance with Standard

- ISO4064 Class C Standard
- OIMLR49 NMI Standard
- suggest IP68 Standard

Installation Requirements

- The meter can be installed in horizontal, vertical or inclined position;
- A Horizontal position is recommended
- Pipeline must be flushed before installation

Accuracy Class



Functions

LAISON Split STS Prepaid Water Meter System consists of two parts, Dry Type Prepaid Water Meter and Separate CIU with RF wireless communication, and also Dot Matrix type LCD.

Tokens could be available either in LAPIS Vending station, or through the SMS and LAISON Android App remotely. Additionally, the client could choose Infrared keypad or Smart phone App as the optional I/O device also. The whole solution provides flexible ways on recharging the meters, which are most attractive features of LAISON remote prepaid metering system.

Basic Functions

- Real Time Clock Error < 0.5 seconds/day
- Meter Recharge By 20–digits recharge token
- Overdraft Function Emergency water, programmable
- Recharge Limitation Anti–water storage, programmable
- Low Credit Alarm Insufficient water warning

Battery Power Management

- 2 – levels of low battery warning
- Data auto – save when p

Security & Anti–tamper

- Encryption Method 128 bits AES or 3DES Encryption method
- Anti–magnetic Valve closed when magnetic interference happens
- Anti–meter cover open Valve closed when meter's cover opened illegally

Data & Event Record

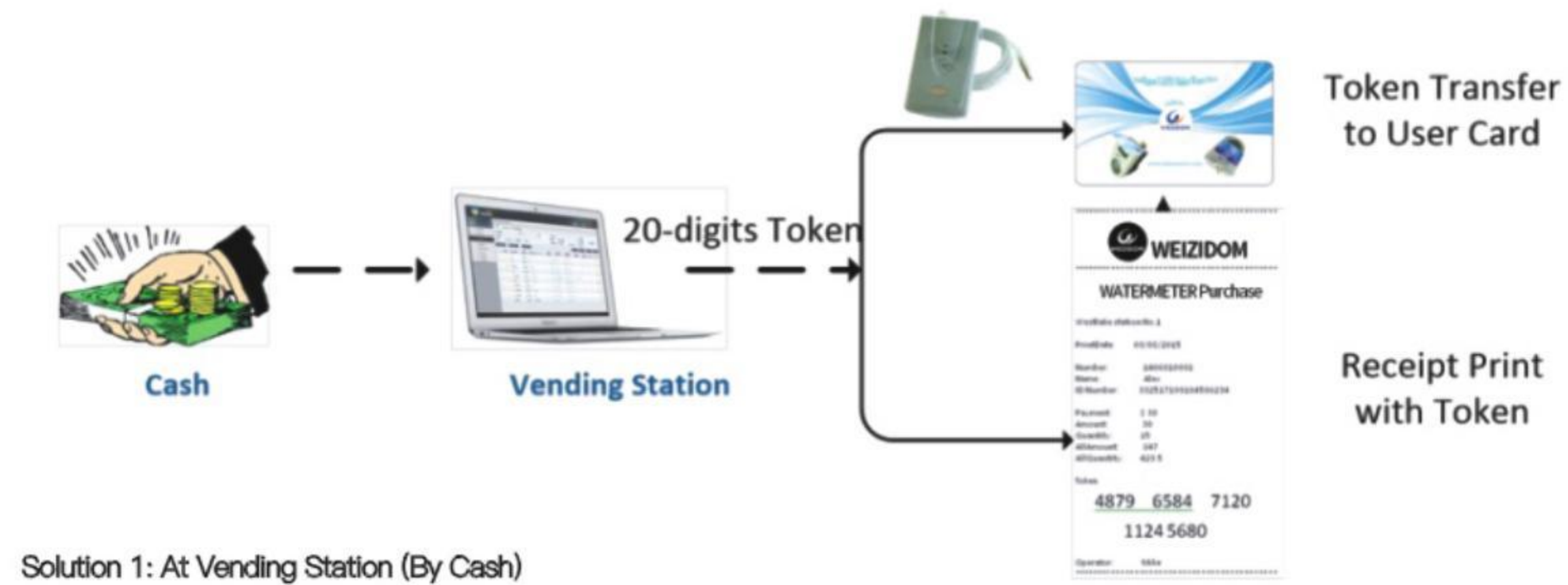
- It will store following alarms on meter with date and time and be inquired by customers via token
 - Battery replacement
 - Open meter cover illegally
 - External magnetic Interference
 - Open/Close valve failure
 - Exceed maximum flow–rate
- Monthly Consumed Data Record Max. 10 years' monthly consumed data can be stored & queried

Human – based Functions

- Friendly Time Period
 - Valve non–switch off during holidays, weekend & off–duty time
- Daylight Saving Time (DST)
- Social Amount
 - Monthly Free Consumption Water Management

How to Purchase Water ? - AT YOUR CHOICE

Water Meter



Solution 1: At Vending Station (By Cash)



Solution 2: At Vendor (By Cash)

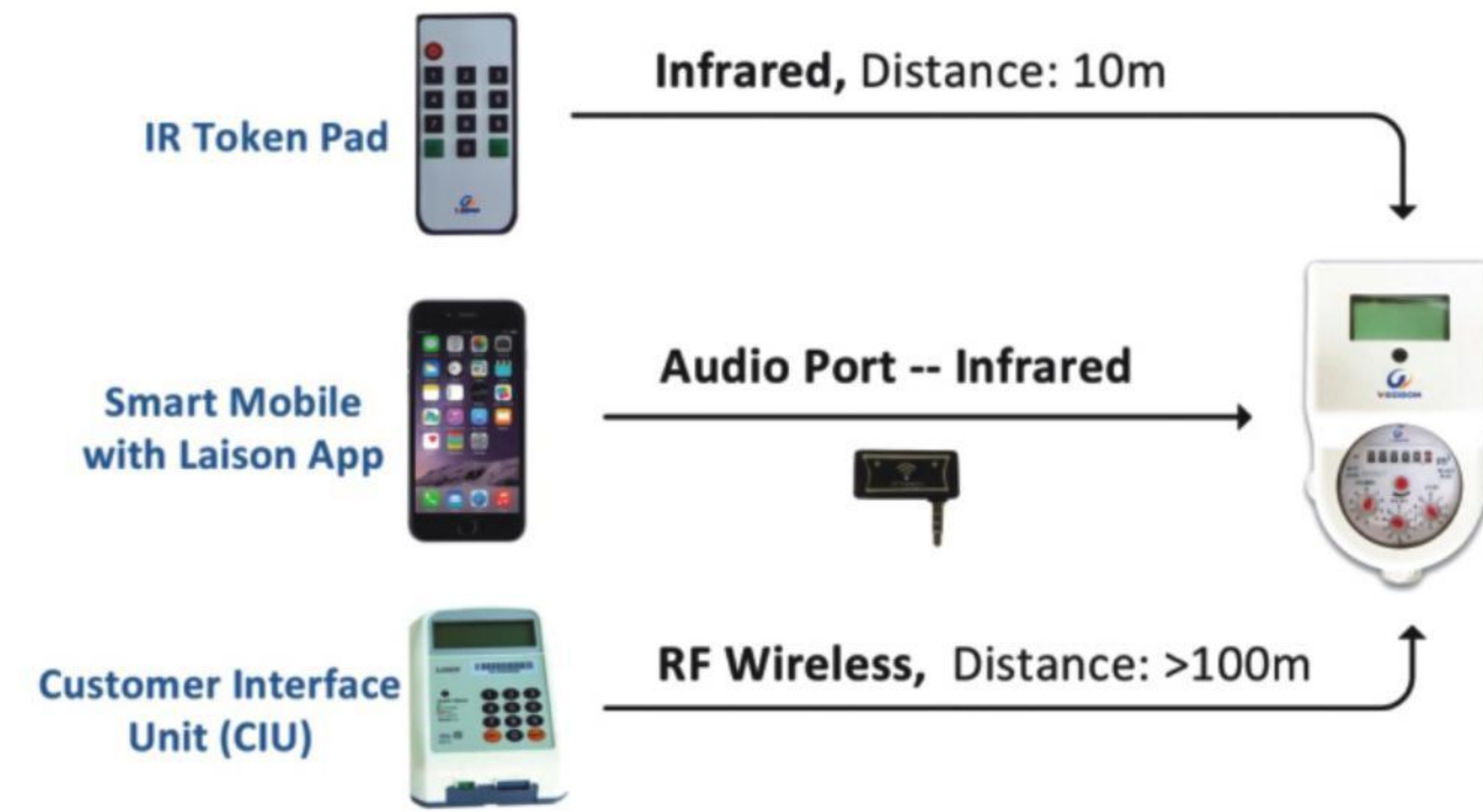


Solution 3: Customer self-service (By Electronic Payment)

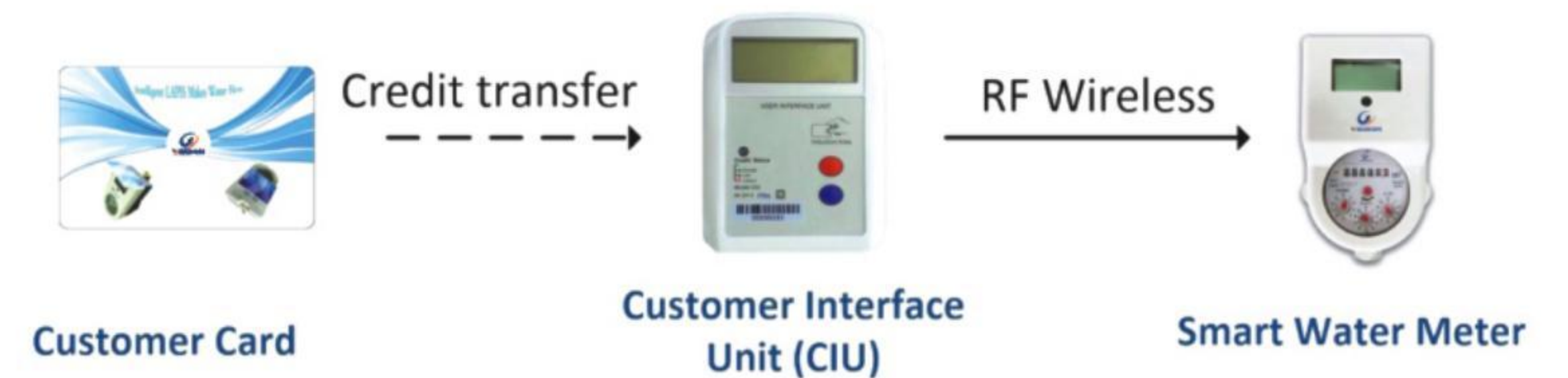
ASK "2W1H" TO YOURSELF

Where	How	What
Vending Station	By Cash	Customer Card
Vendor	By Electronic Payment	Receipt with 20-digits Token
Customer		SMS with 20-digits Token

If you got 20 – digits recharge token (Receipt, SMS, STS App)



If you got recharged Customer Card



Recharge Solutions

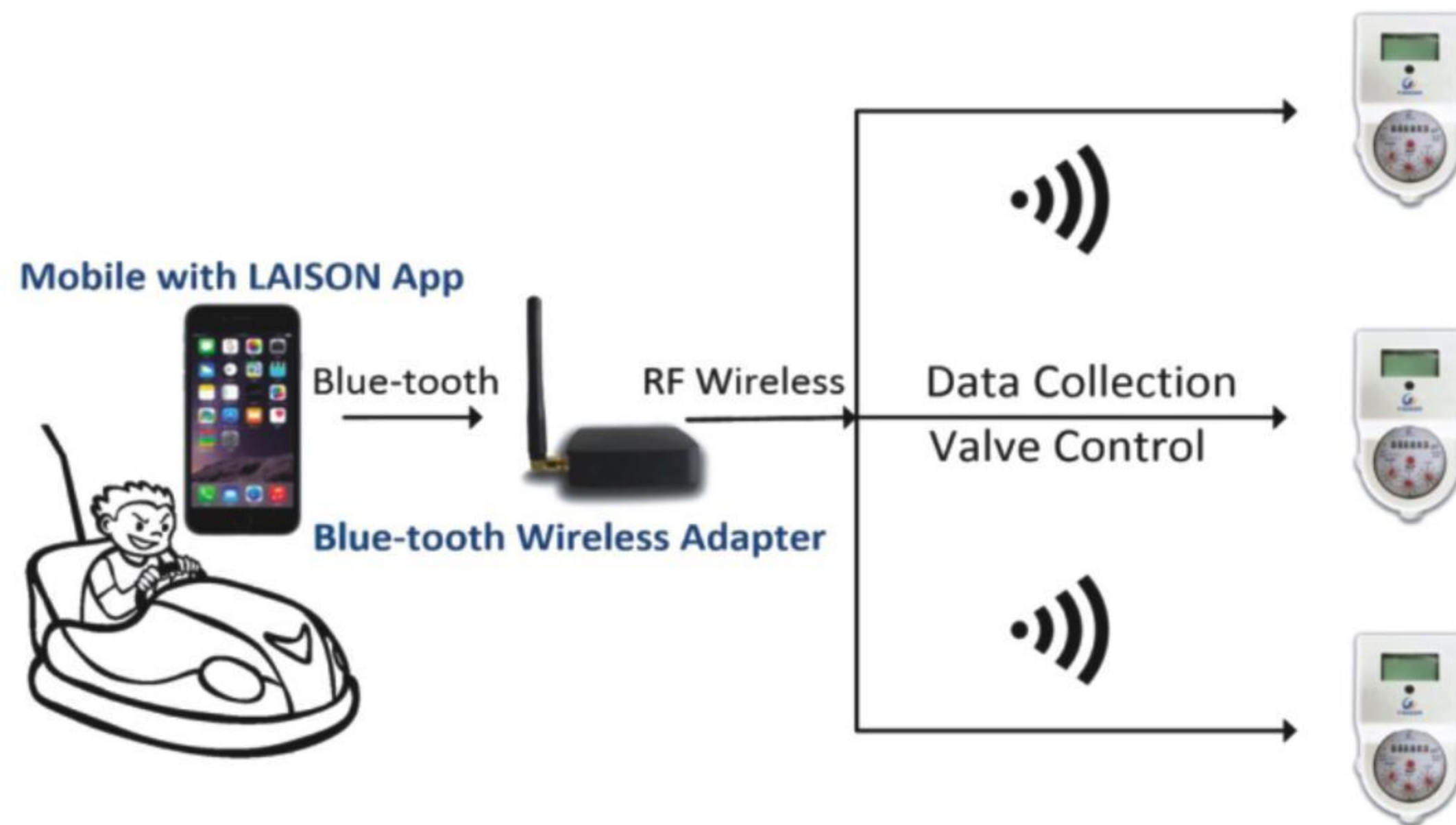
- IR Token Pad
- Mobile Phone with IR Adapter
- Customer Interface Unit with Keypad
- Customer Interface Unit with RF Area

Communication Distance

- Infrared Communication: 10m
- RF Wireless Communication: 5km (AMI)
- 100m (CIU & Meter)

Application

By adoption of Blue-tooth and RF wireless Technologies, It could realize Data collection & Valve control remotely via Mobile Phone while walking-by or driving-by



Features

Walk By Solution
RF Wireless Communication
Frequency: 470MHz
(Programmable)
Communication Distance:
5km (AMI)

Functions

Open / Close Valve Remotely via
Mobile Phone
Time Calibration
Monthly Consumption Data Query
Historical Consumption Data Query

STS Water Meter

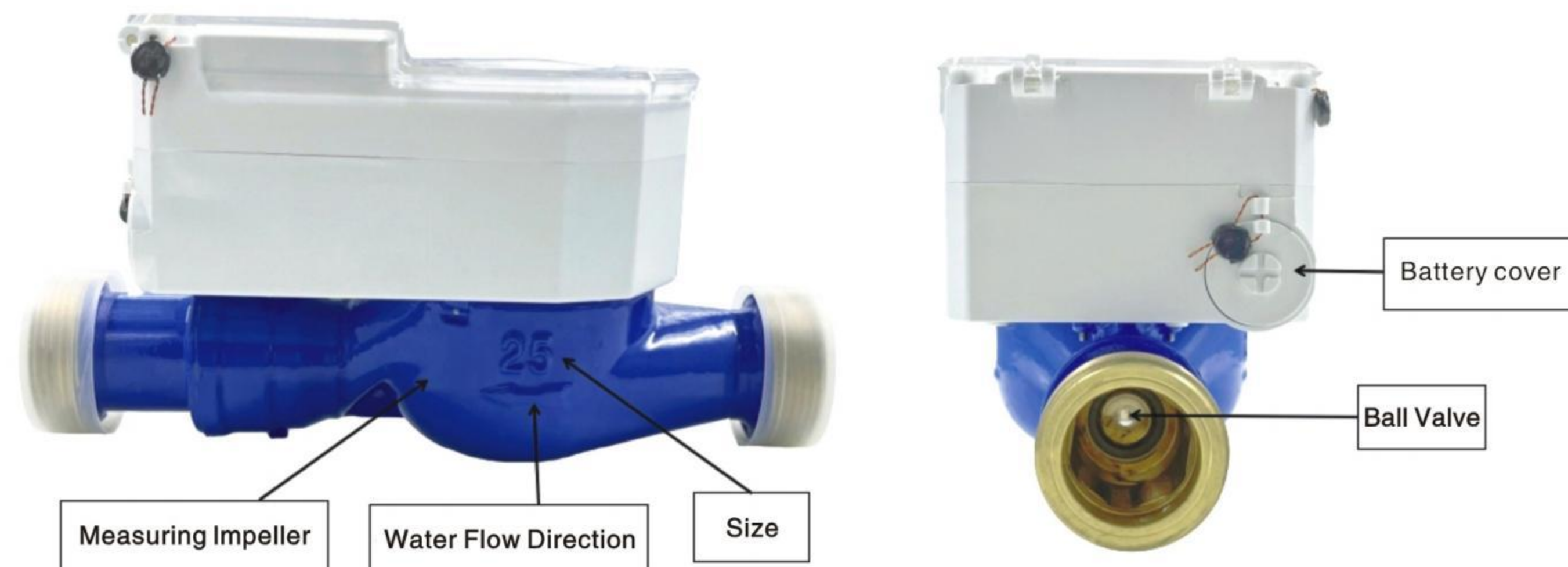
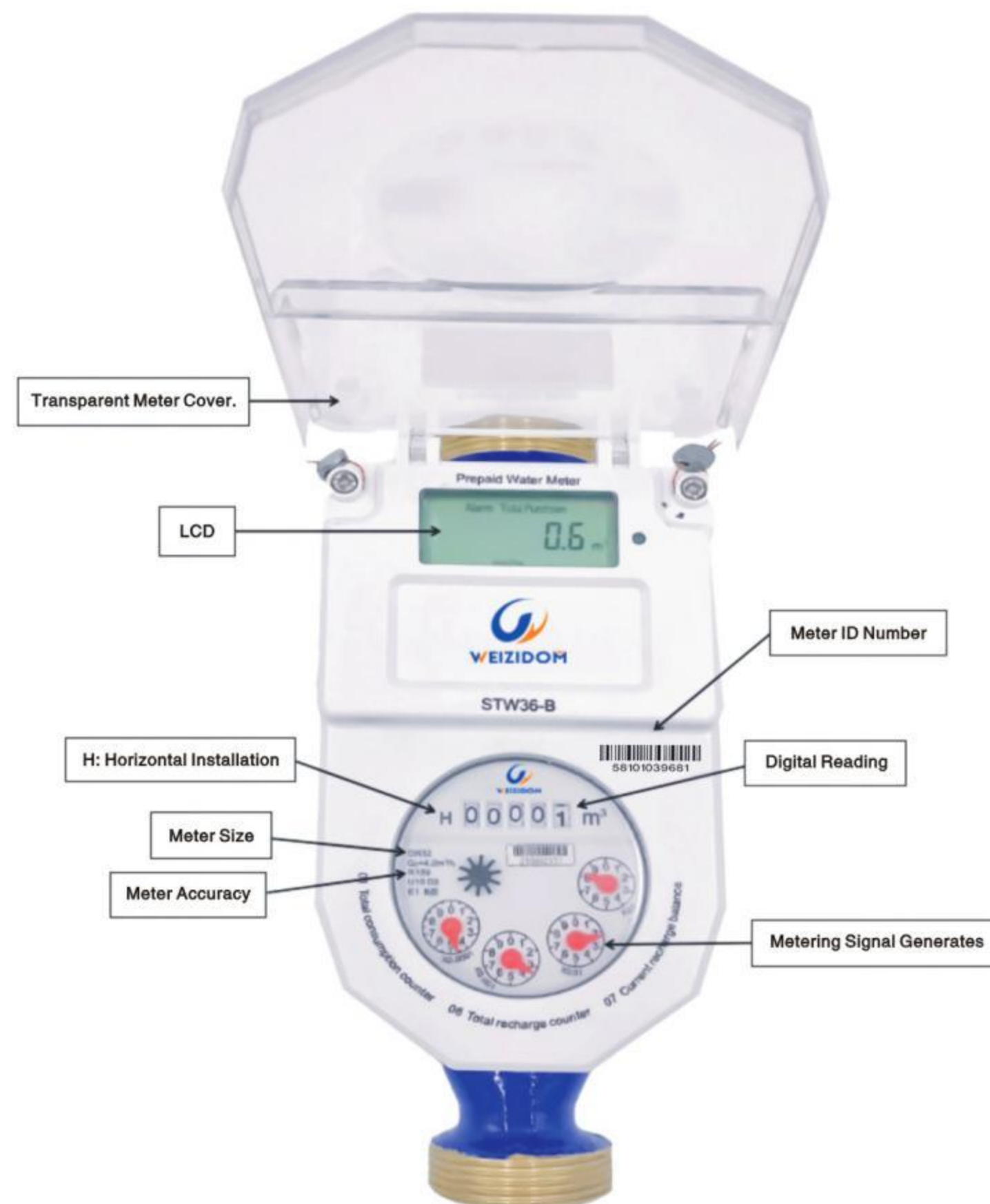
LXLZG-DN50-300

Water Meter



Specification	DN15	DN20	DN25
Measurement level	2.0	2.0	2.0
Display Mode	LCD display		
Communication	433MHz Rola-RF Communication		
CIU, handheld communication distance	350m		
Concentrator communication distance	1000m		
Maximum range	99999,9m ³		
power supply	3.6V lithium battery		
Sleep state current	≤12uA		
Wake-up state current	≤1.1mA		
Water temperature	0°C–40°C (Cold water meter)		
Work Pressure	0.02MPa–1MPa		
Total length of water meter (including connector)	260 ± 0.5mm	300 ± 0.5mm	350 ± 0.5mm
Total length of water meter (excluding connector)	165 ± 0.5mm	195 ± 0.5mm	225 ± 0.5mm
Water meter inner diameter	15 ± 0.5mm	20 ± 0.5mm	25 ± 0.5mm
Water meter housing size	148.3*94.7*64.4mm		
Water meter packaging (without CIU)	10pcs	10pcs	5pcs/4pcs

Appearance and Structure



External Components

- The Shell is made of environmental protection materials, materials pollution-free, safe and reliable.
- The Brass body could prevent the long-term corrosion from water flow effectively. Water flow direction is clearly indicated, users can install the water meter in the direction of the arrow to avoid measuring errors caused by incorrect installation.
- All the fixed screws are made of 304 stainless steel to ensure it won't rust during long-term use

Internal Components

- The battery is replaceable and ER18505 high capacity, which is easily changed by users. Waterproof treatment at both end of battery greatly improve the service life of the water meter.
- The Ball valve is made of stainless steel material, It's durable with the long-term switch on and off, anti-rust and anti-corrosion.
- The LCD has a dynamic display function, users could check current water consumption and other data easily .
- The PCBA has a low power consumption, we use the high-level international brands metering chip and other key components, to make sure the reliability and stability.

IP68 Waterproof

- The water meter has a transparent protective cover structure that can be opened, which can protect the LCD and has a waterproof function.
- The internal circuit board wrapped up with epoxy resin, a special sealing ring between the upper and lower case, a desiccant is placed inside the counter prevent water vapor from entering, which enables the water meter to have IP68 level protection.

Other Parameters

- The water meter qualified with STS, ISO9001 and ISO14001 standards to ensure the reliability and stability.
- The water meter is installed horizontally, and the measurement accuracy is R100 and R160 for users to choose.
- There are 3 sizes of residential plastic/brass water meter (DN15/DN20/DN25) for users to choose, it equips with pipe joints and other installation accessories. Other bigger size for industrial should be customized in some time.

Dimensions

165.5mm*95mm*113.8mm (length × width × height)

Installation

Horizontal Installation

Functions

- The water meter is compliance with STS standard, users need to input the 20 digits token to recharge, clear credit and clear tamper for the water meter.
- It supports LORA-RF wireless meter reading by CIU/Handheld Unit and DCU, the communication distance is about 350m/1000m.
- A high-capacity battery inside meter is integrated with a low power program, which makes the battery can be used for 6-8 years under normal use.
- The water meter can be monitored and recharged remotely by AMI system, with the API integrated with local payment platform, users could use their mobile phone to get the tokens.
- It supports prepaid and postpaid mode switching. The overdraft amount can be set as request.
- The step tariffs function supports 7 steps of different time and price to measure water consumption.
- The LCD will show the error and the meter will close the valve automatically when the signal distracted by the magnetic field or the battery was removed illegally.


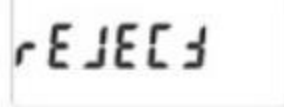




Operations

- Before using the water meter, the anti-tamper token should be input to make the meter in the working state.
- Input '00+Enter' with coupled CIU to read the current data from water meter, the CIU residual amount is 0.0m³, same with water meter and the valve is closed.
- Generating a recharge token as request on vending software, then input the token by CIU or meter keypad. The LCD shows 'ACCEPT', it means the meter accept the token, check it by inputting '07+Enter'.
- Now the water meter open the valve and starts to measure the water consumption.

Technical Parameters

Sizes	DN15	DN20	DN25
Measurement Accuracy	Class 2.0	Class 2.0	Class 2.0
Display Mode	LCD, Digital, Pointer		
Communication	433MHz LORA-RF		
Communication Distance with CIU/DCU	350m / 1000m		
Maximum Reading	99999.9m ³		
Battery	3.6V Lithium Battery		
Current in Working/Sleeping State	≤ 1.1mA / ≤ 12uA		
Working Temperature	<50°C (cold water meter)		
Working Pressure	0.02MPa-1MPa		
Total Length (including joints)	260 ± 0.5mm	300 ± 0.5mm	350 ± 0.5mm
Total Length (excluding joints)	165 ± 0.5mm	195 ± 0.5mm	225 ± 0.5mm
Pipe Diameter	15 ± 0.5mm	20 ± 0.5mm	25 ± 0.5mm
Dimensions of shell	148.3*94.7*64.4mm		

Liquid Crystal Display(LCD)

1	*ACCEPT*: It means that the Token could be accepted by water meter.	
2	*REJECT*: It means that the Token refused by water meter, the Token may not for the meter ID or the Token has at least one input errors.	
3	*USED*: It means that the input Token has been used before and cannot be reused.	
4	*OLD*: It means that the input Token is expired and need to generate new token.	
5	*NULL*: It means the input command is not defined.	
6	It means the meter battery is low power or the battery is disconnected.	
7	It means the meter valve is in the open state currently.	Valve Open
8	It means the meter valve is closed currently.	Valve Close

Operations

- The Shell is made of environmental protection materials, materials pollution-free, safe and reliable.
- The Brass body could prevent the long-term corrosion from water flow effectively. Water flow direction is clearly indicated, users can install the water meter in the direction of the arrow to avoid measuring errors caused by incorrect installation.
- All the fixed screws are made of 304 stainless steel to ensure it won't rust during long-term use.

Short Codes and Error Warnings

Display number	Item	Display number	Item
00	Update the reading data(01.06.07) from water meter (m ³)	01	Cumulative water consumption (m ³)
06	Cumulative purchased amount (m ³)	07	Residual amount (m ³)
65	The first 6 digits of meter or CIU ID number	66	The last 6 digits of meter or CIU ID number
98	Current program version V2.9	99	Meter type the CIU matched

Errors

CIU display: 'Err-01'	It means the communication between meter and CIU is failure.
CIU display: 'Err-02'	It means there's distraction from same frequency, influenced the communication between meter and CIU.
CIU display: 'Err-03'	It means there's multiple meters with the same meter number are communicating with CIU in this range.
Water meter display: 'Err-06'	It means the entered token is missed one or more digits.
Water meter display: 'ACTErr1'	It means there's a measurement error or the signal distracted by the magnetic field.
Water meter display: 'ACTErr2'	The battery is removed or there is no battery.
Water meter display: 'ACTErr5'	The valve is abnormal.

Questions and Answers

- Q: Why the valve is closed when we receive the water meter and want to install it for a test?
A: After leaving the factory, the valve of water meter is closed, the residual credit is 0. We need to clear tamper and recharge for water meter to make the valve be opened.
- Q: Why the cumulative water consumption, purchased amount and residual amount checked on CIU is different with what we checked on water meter?
A: The CIU can't read the meter data automatically. Everytime we input '00+Enter', the CIU will update the current data from meters.
- Q: Why the water meter display errors when we receive it?
A: The water meter may caused the error during transportation. It can work normally after inputting a clear tamper token and recharge token.

Appearance



Product Features

- LED indicators:
 - *1000imp/kWh*: Pulse light, when the meter works normally after being connected to the load, it shows blue light, and every 1000 flashes is 1 kWh.
 - *Warning*: Alarming light, when the meter in the tamper state or the balance is zero, it shows yellow light.
 - *Comm*: Signal light, it's turned on when communicate with CIU or DCU successfully.
 - *Credit*: When the credit balance is sufficient, it shows green light; when the balance is 0, it shows red light.
- Stealing Switch: Tamper protection function. When the cover is opened, the meter is in the tamper state, it shows yellow light.
- Meter Number: It's a ID to distinguish meters.
- Keypads: Checking data from meter by pressing the button, and inputting the tokens (Recharge, Clear Credit and Clear Tamper Token).

Product Introduction

- The prepaid keypad single phase electricity meter is mainly used to measure one phase active energy of the low-voltage network, and the voltage, current, power, etc. The RF communication module for remote functions could be added, which is convenient for users to monitor electricity consumption, collect data and switch on/off for the smart meter. Many pieces of meter could be installed in a meter box to count the electric energy for different rooms and loads.
- The product complies with IEC62053-21/23 and IEC62055-31 standard. The raw materials like metering chip and other key components, we use the high-level international brands, ensure the meter is high-precision and high-reliability. All of our meters are produced in accordance with ISO9001 and ISO14001 standards, make sure the reliability and stability of the product, thereby extending product service life.

Wiring Diagram



Sequential Wiring

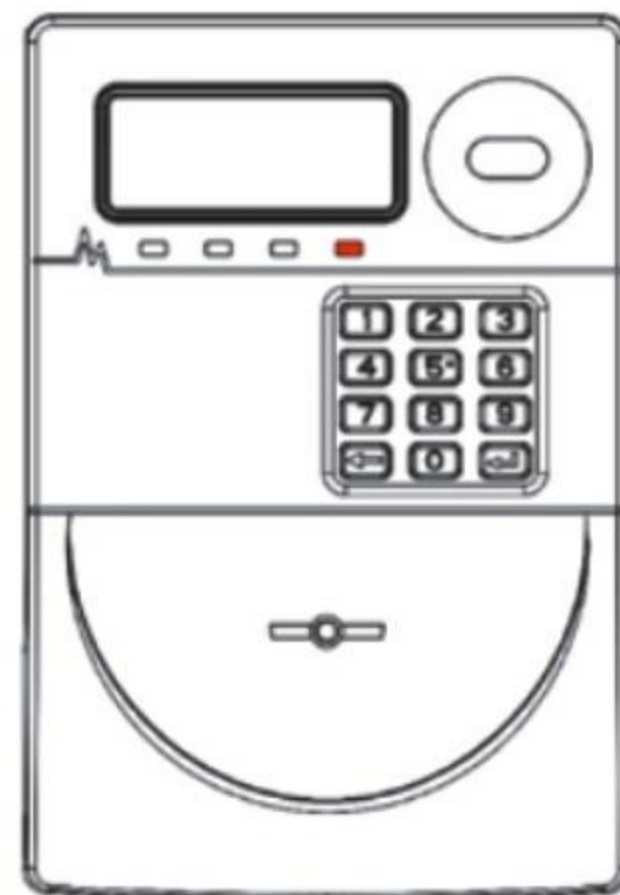
Functions

- **Remote Communication:**
The single phase energy meter is STS standard smart meter, which requires users input a 20-digit Token to top up electricity, clear credit, and clear tamper. The single phase energy meter supports RF wireless meter communication, using CIU for meter reading, the distance is about 500m; using DCU for batch meter reading, the distance can reach 1000m. The tokens could be sent into meter by CIU remotely, the Admin also could login AMI system to send tokens to meter by DCU automatically.
- **Anti-Tamper:**
When the transparent protective cover is opened, the tamper switch is triggered, the valve will be closed and the "Warning" indicator will show yellow light. This function plays the role of power theft protection.
- **Parameter settings:**
There is an infrared interface on the meter, Admin could use this setting special parameters for the meter.
- **Credit Alarming:**
The "Warning" indicator flashes red light when the meter credit reaches the threshold, the "Warning" indicator shows red light and the "Alarming" shows yellow light when the credit is zero.

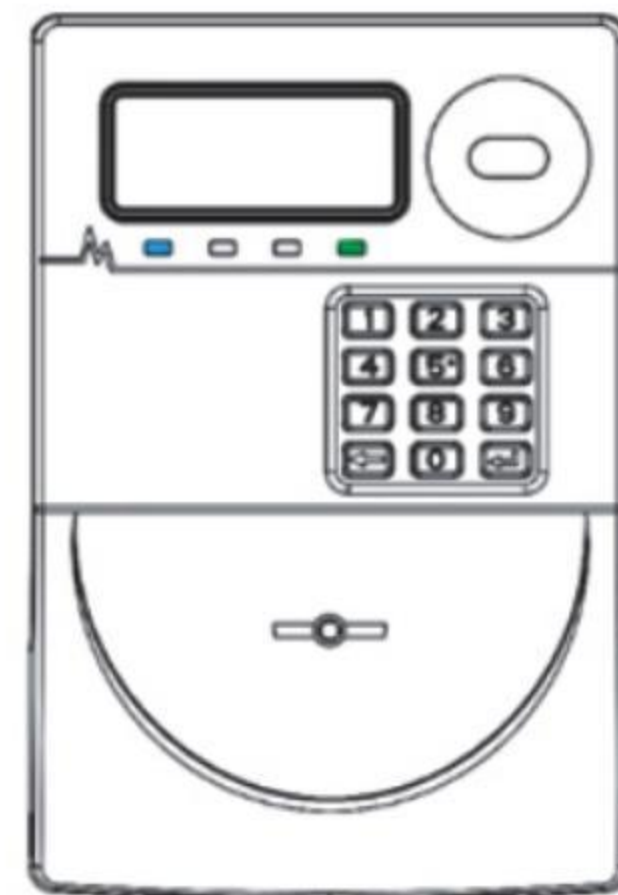
LED Indicators



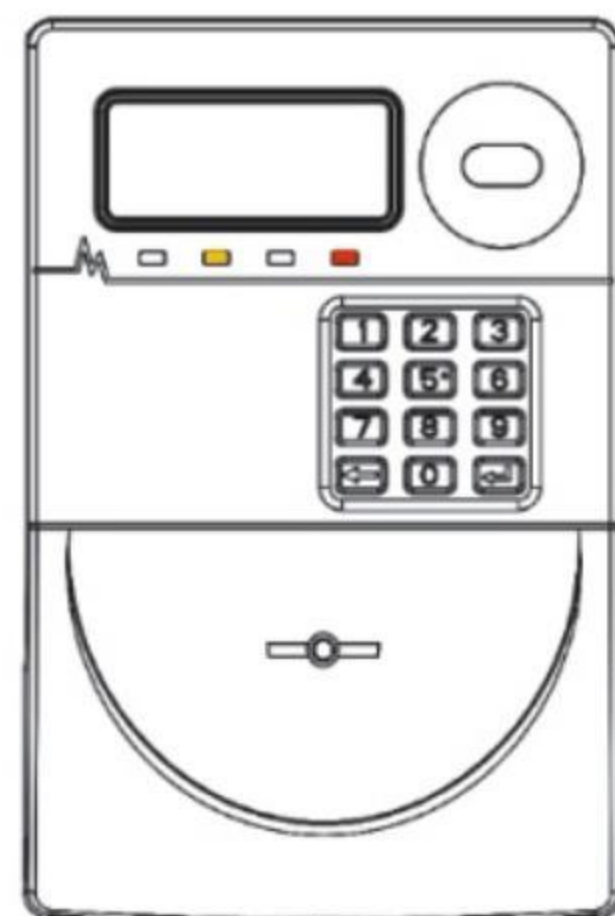
Power On



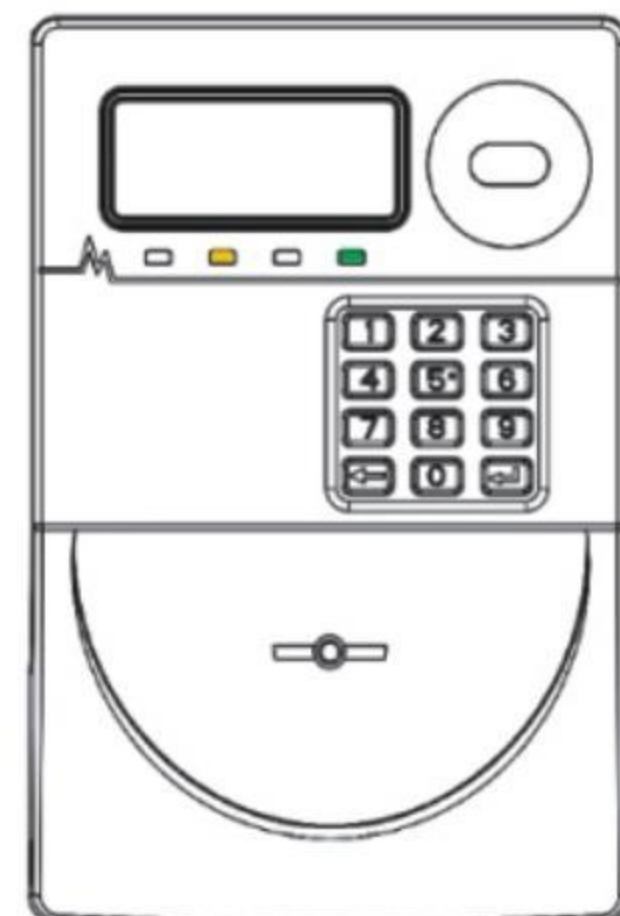
Insufficient Credit



Normal working status
(The blue light will flash for billing)



The balance is zero and the switch is open



Sufficient balance, in the tamper state

Electrical parameters

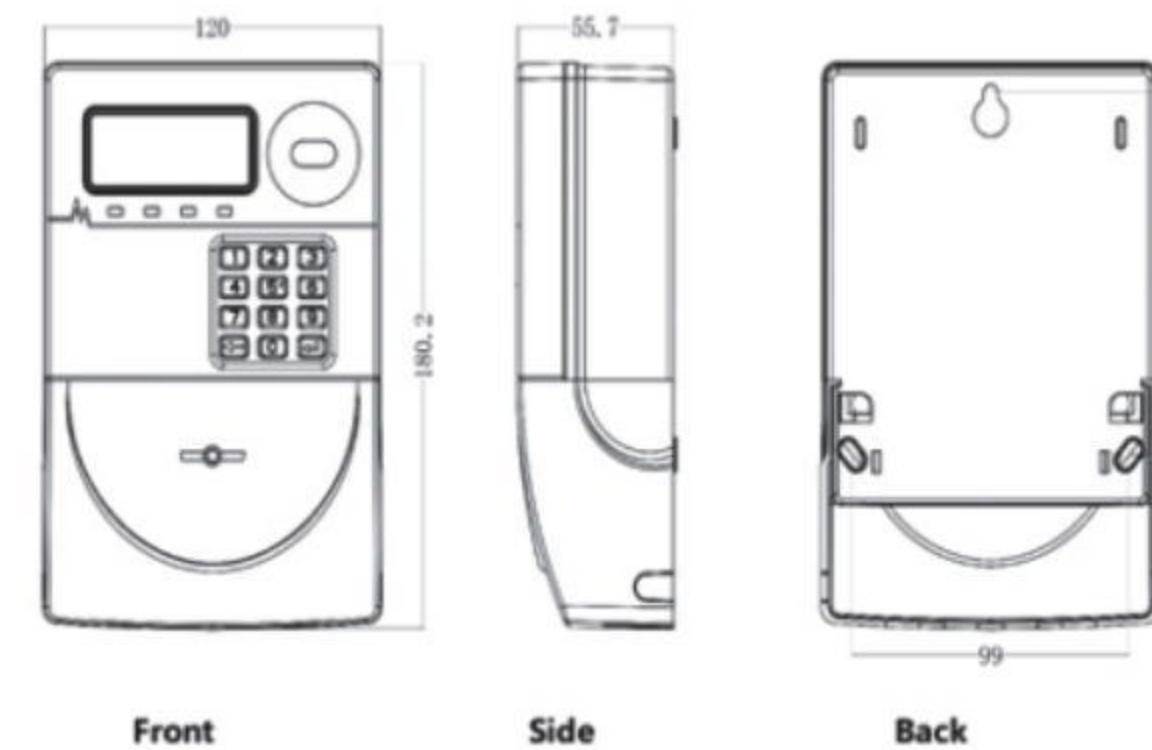
Item Number	STE18-B
Nominal Voltage	230V
Working Voltage Range	70%~120%Un
Frequency	50Hz
Basic Current (Ib)	5A
Maximum Current (I _{max})	60A
Starting Current(I _{st})	20mA
Active Energy Constant	1000imp/kWh
Measuring Accuracy	Class 1.0
Power Consumption in Voltage Circuit	<2W <8VA
Power Consumption of in Current Circuit	<1VA
Operation Temperature Range	-25°C~70°C
Storage Temperature Range	-40°C~85°C
Communication	433RF
Dimension	180.2 × 120 × 55.7mm
Weight	0.465kg
Waterproof Level	IP54
Battery Voltage	3.3V
Sleep Current	0.2mA

Electrical Compatibility

AC Insulation Strength	4kV / 50Hz during 1min	
Impulse voltage 1.2/50 us mains connection	8kV	
Electrostatic Discharge	Contact Discharge	8kV
	Air Discharge	16kV
Insulation Electromagnetic RF Field	27MHz-500MHz	10V/m
	100KHz-1GHz	30V/m
Fast Transient Burst Test	4kV	
Protection level	Class II	

Meter Dimensions

- Dimension: 180.2mm × 120mm × 55.7mm (length × width × height)
- Installation: Suspension Installation.



LCD Display



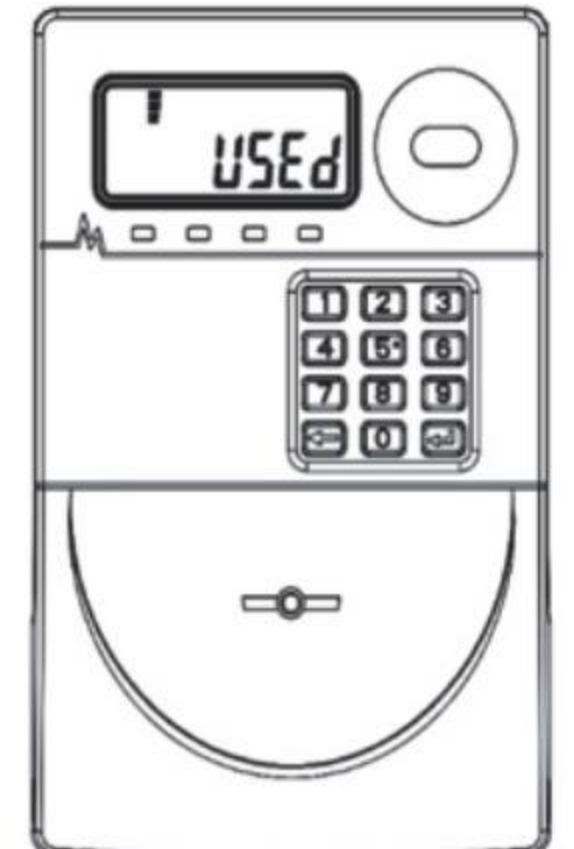
"REJECT":
It means that the Token refused by meter, the Token may not for the meter ID or the Token has at least one input errors.



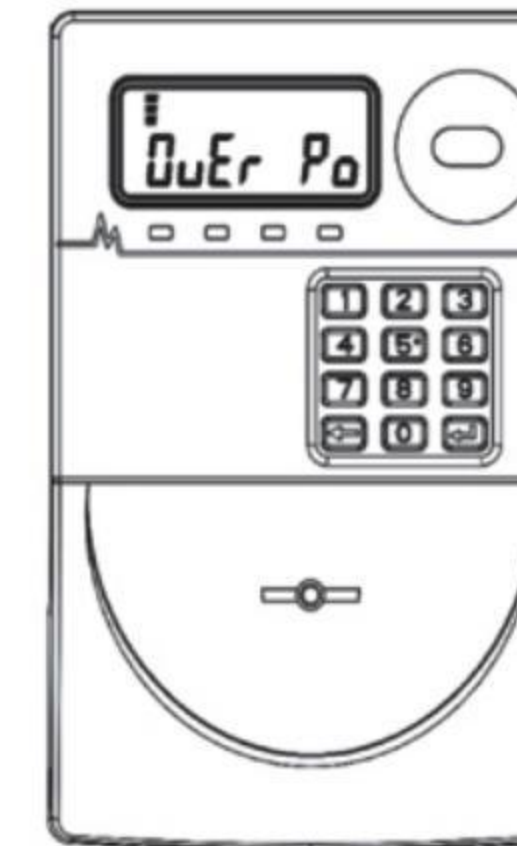
"ACCEPT":
It means that theToken could be accepted by energy meter.



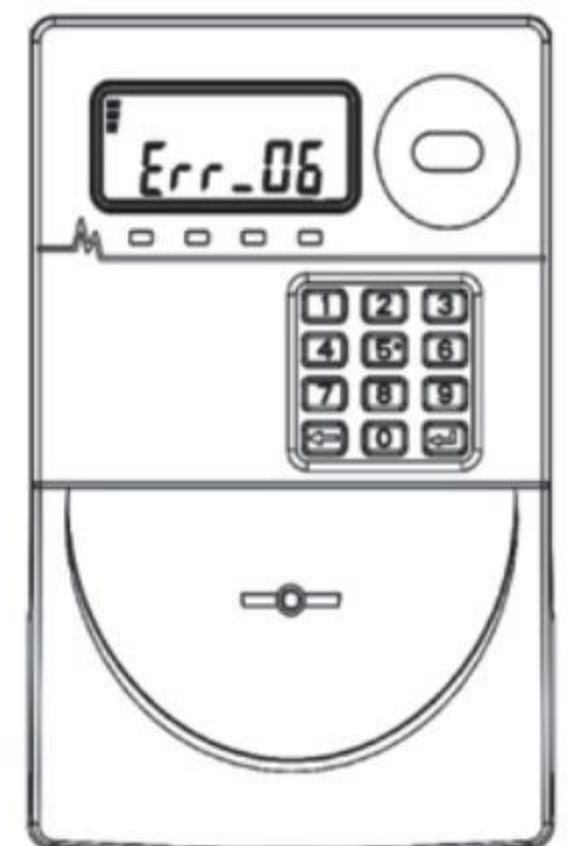
"OLD":
It means that the input Token is expired and need to generate new token.



"USED":
It means that the input Token has been used before andcannot be reused.



"OVER PO":
It means the consumption exceeds the overcraft, the power will be cut off within the specified time.



"Err-06":
It means that the input Token is missing one or more digits, need to input the token again.

Instruction Manual

- The single-phase rail meter has a credit for 10kwh when it completed in the factory, the balance is sufficient but the meter is in the tamper state.
- After powering on for the meter, we need to input 20 digits anti-tamper token into meters by keypads or matched CIU. Users could use energy normally after the meter clear tamper and close the valve. Then users can buy electricity as request.

Short Codes

Display numbe	Item	Display numbe	Item
1	Cumulative kWh consumption	2	Cumulative total reverse kWh consumption
3	Voltage	4	current
5	NULL	6	Cumulative purchased amount
7	Residual amount	8	TOU residual credit
9	Date (year/month/day)	10	Time (hour/minute/second)
11	The alarm threshold 1	12	The alarm threshold 2
13	Load threshold	14	NULL
15	Daily cumulative kWh Consumption	16	Overload trip delay time
17	NULL	18	NULL
19	Power consumption of last month	20	Power consumption of last 2nd month
21	Power consumption of last 3rd month	22	Power consumption of last 4th month
23	Power consumption of last 5th month	24	Power consumption of last 6th month
25	Power consumption of last 7th month	26	Power consumption of last 8th month
27	Power consumption of last 9th month	28	Power consumption of last 10th month
29	Power consumption of last 11th month	30	Power consumption of last 12th month
31	Real time power	32	NULL
33	NULL	34	NULL
35	NULL	36	NULL
37	NULL	38	NULL
39	NULL	40	The number of cover meter open
41	The last cover open time	42	The last 2nd cover open time
43	The last 3rd cover open time	44	The last 4th cover open time
45	The last 5th cover open time	46	The number of overload break power
47	The last over load time	48	The last 2nd overload time
49	The last 3rd overload time	50	The last 4th overload time
51	The last 5th overload time	52	The number of power down
53	The last power downtime	54	The last 2nd power downtime
55	The last 3rd power downtime	56	The last 4th power downtime
57	The last 5th power downtime	58	NULL
59	NULL	60	NULL
61	NULL	62	NULL
63	NULL	64	NULL
65	Meter Address High Bit	66	Meter Address Low Bit
67	NULL	68	NULL

Short Codes

Display numbe	Item	Display numbe	Item
69	NULL	70	NULL
71	NULL	72	NULL
73	NULL	74	NULL
75	NULL	76	the last 1 power purchase TOKEN
77	the last 2 power purchase TOKEN	78	the last 3 power purchase TOKEN
79	the last 4 power purchase TOKEN	80	the last 5 power purchase TOKEN
81	Last 1th credit kWh	82	Last 2nd credit kWh
83	Last 3rd credit kWh	84	Last 4th credit kWh
85	Last 5th credit kWh	86	Total number of token accepted
87	NULL	88	NULL
89	NULL	90	NULL
91	NULL	92	NULL
93	NULL	94	NULL
95	NULL	96	NULL
97	NULL	98	Current program version
99	NULL	100	NULL

GPRS Water Meter

LXSK-S5-DN50-300

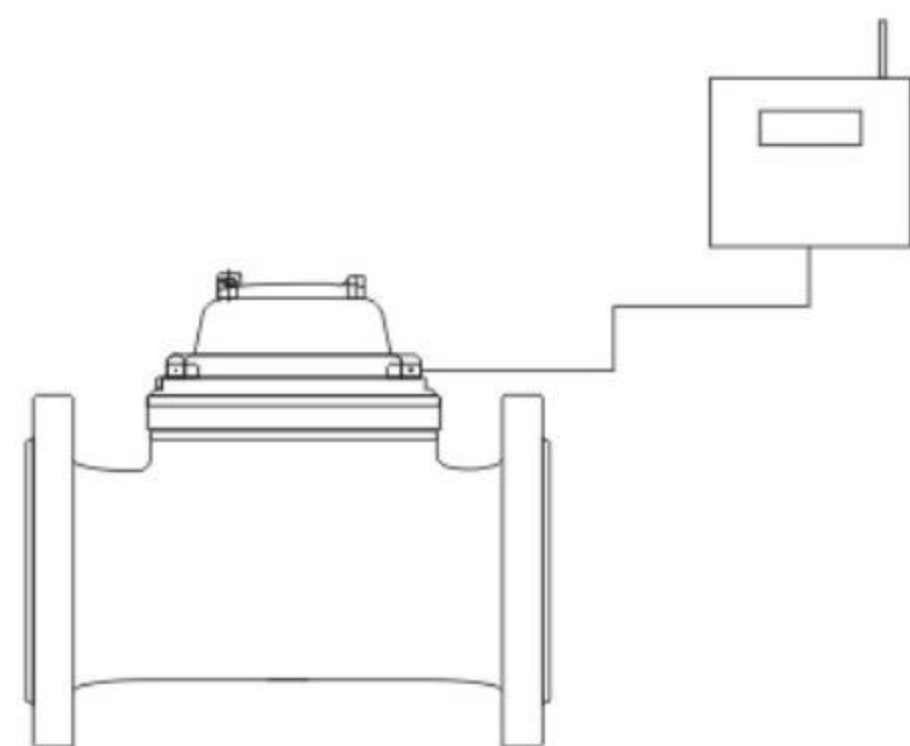
Water Meter



In the long-term water supply work of the pipe network, we often encounter that the bulk water meter cannot read the water meter data because it is installed under the ground or at a long distance, and a lot of effort has been devoted to this. This bulk wireless WESDOM water meter (GPRS) can effectively solve this problem. When you use it, you don't need to go to the site to read the water meter data. Each water meter will automatically transmit its own data to the cloud platform. We just need to open the online management platform on your computer, and you can view the running status of all water meters. When we need to do data aggregation, we can also easily count all the data on the platform.

Auto upload

Just install a SIM card in the water meter, and the water meter can automatically transmit data every day. Without any intervention, the administrator can remotely access the data of all water meters

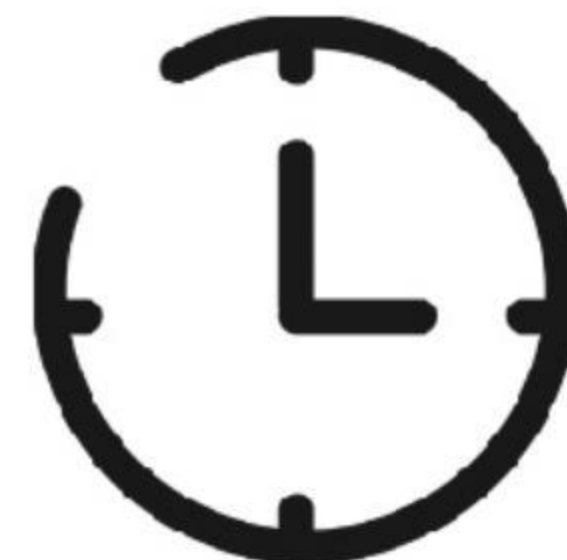


Split design

The unique split design can effectively avoid the impact of the harsh installation environment on the product, and make the signal transmission more stable.

Self-protection function

To ensure the reliability of water meter, valve it will periodically rotate once a month. When the water meter is disturbed by a magnetic field, the valve will automatically close.



Flexible management

When we need it, we can change the frequency and time point of the water meter online. Of course, our suggestion is to upload data once every 3 days because it can keep the battery life of the water meter at more than 6 years.

Technical Parameters

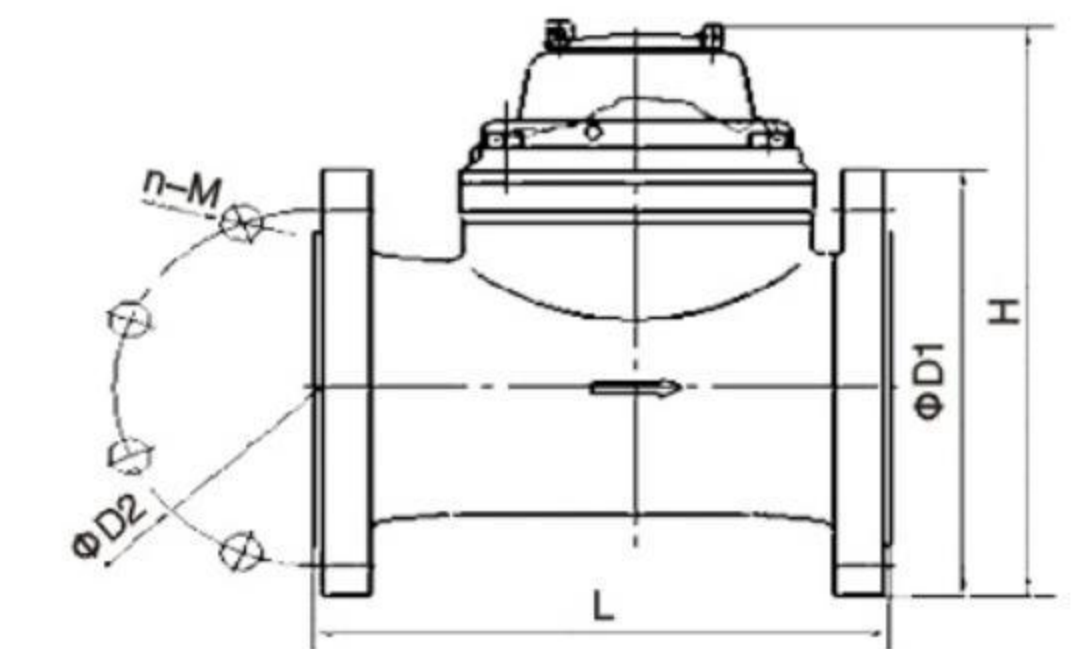
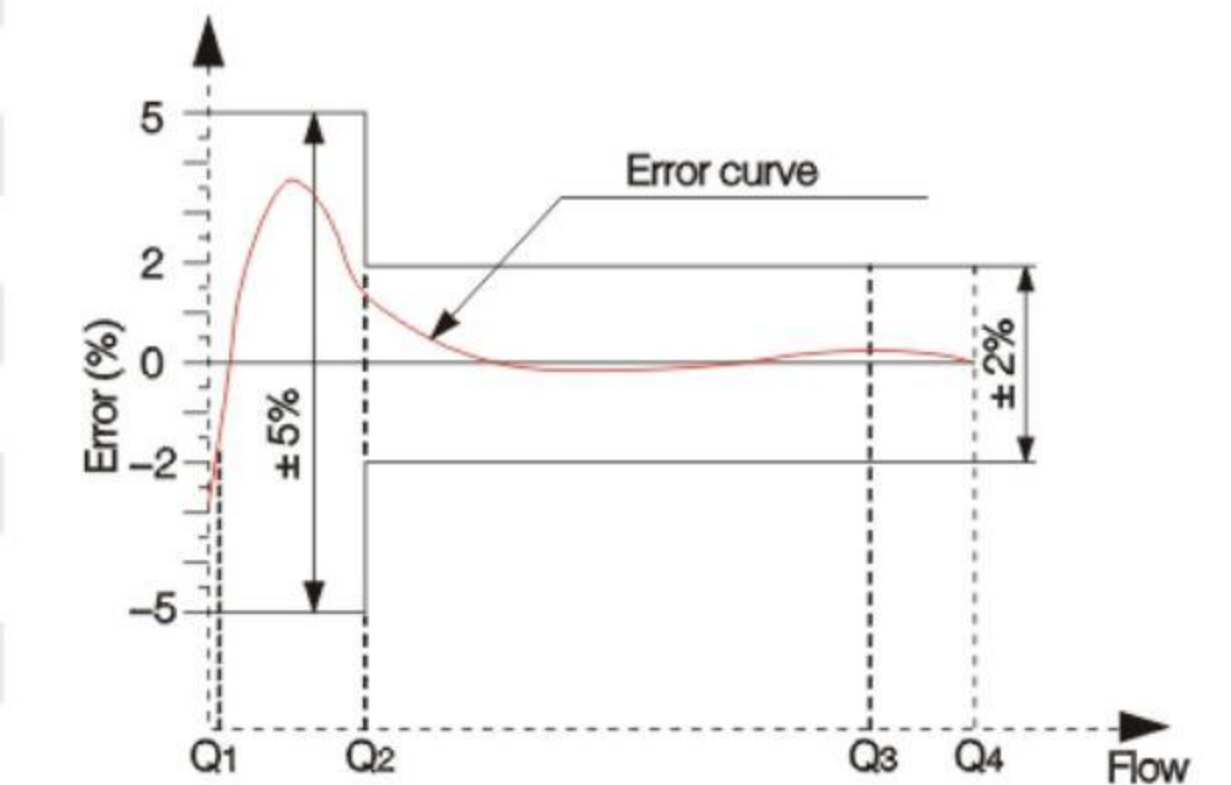
Nominal diameter	50	65	80	100	125	150	200	250	300
Max flow Q4(m³/h)	31.2	50	78.8	125	200	312.5	500	788	1250
Nominal flow Q3(m³/h)	25	40	63	100	160	250	400	630	1000
Transitional flow Q2(m³/h)	2	3.2	5.2	8	12.8	20	32	100.8	160
Min flow Q1(m³/h)	0.5	0.8	1.3	2	3.2	5	8	25.2	40
Measuring range	R50/R25								
Accuracy class	Class B								
Pressure loss	≤0.063 MPa								
Max working pressure	1.0 MPa								
Temp class	T30								
Level of protection	IP 68								
Installation environment	Indoor, Class B								
Electromagnetic ENV	E1								
Power supply	DC 3.6V								
Battery life	≥6 years(Push data every 3 days)								
Battery capacity	8.5Ah								
Installation position	Horizontal or Vertical								
Display	LCD								

Dimension Parameters

Nominal Diameter	Length L	Height H	Connection flange GB/T17241.6-2008		
			ΦD1	D2	Bolt size n-M
50	200	383	165	125	4-M16
65	200	433	185	145	4-M16
80	225	450	200	160	8-M16
100	250	480	220	180	8-M16
125	250	515	250	210	8-M16
150	300	543	285	240	8-M20
200	350	610	340	295	12-M20(1.6MPa)
250	450	693	405	355	12-M24(1.6MPa)
300	500	766	460	410	12-M24(1.6MPa)

When the water meter is installed on the pipeline, the water meter will search for nearby GPRS communication base stations and register to the IoT cloud platform. The water consumption data of the water meter can be automatically uploaded to the platform through the communication base station. The user can check all the water meters in the management area through the platform or mobile phone, and if there is an abnormal flow, it can be found and dealt with in time through the comparative analysis of the water consumption data.

Maximum allowable error Q1-Q2 ± 5%;
Maximum allowable error Q3-Q4;
Water temperature ≤30°C, max permissible error ± 2%;
Water temperature > 30°C, max permissible error ± 3%.



The following can be selected as Pre-paid Water Meter :

1. Difficulties in charging.
2. There are situations such as the refusal to pay fees.
3. Management wants to receive the water bill first.
4. Difficulty in reading meters.

The following can be selected as Wireless Remote Water Meter :

1. Difficulty in reading meters.
2. Statistics often make errors.
3. Users are dispersed and cannot be managed centrally.
4. Recharging is difficult for users.

The following can be selected as Wired Remote Water Meter :

1. Difficulty in reading meters.
2. Apartment or centralized housing management.
3. Limited budget, unable to use wireless water meters.
4. The wireless signal is weak or severely shielded.

1. Users are relatively concentrated and the budget is limited .

Choose LoRa wireless water meter.

2. The distribution of users is very dispersed and the budget is sufficient.

Choose GPRS wireless water meter.

3. There are other wireless products that need to be used together (using base stations, gateways) to choose lorawan wireless water meters.

4. The installation city has a NB-IOT communication base station with a wide coverage and stability. The budget for GPRS water meter is inadequate.

Choose NB-IOT wireless water meters.

The following can be selected as Small size Ultrasonic Water Meter :

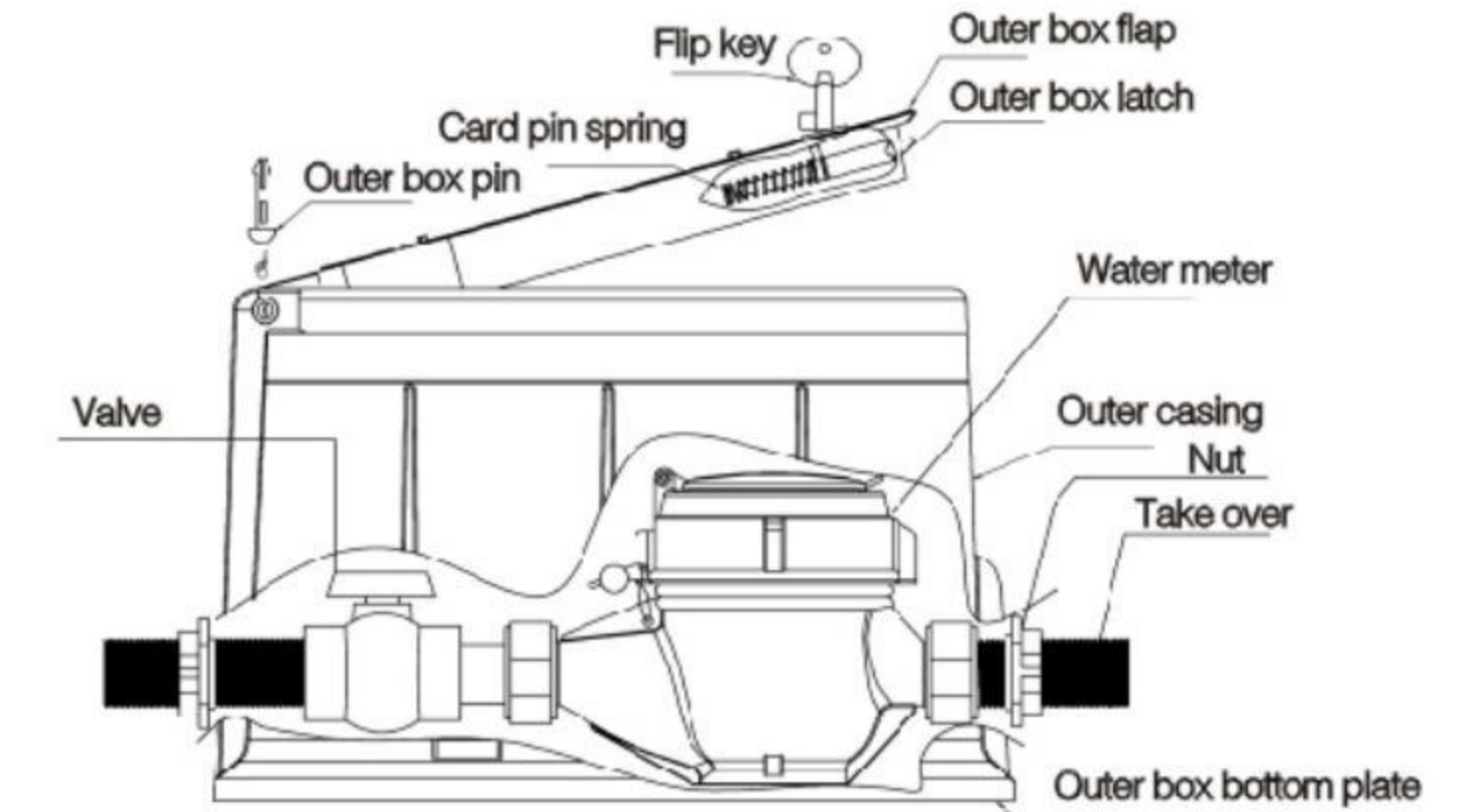
1. Large error in measurement accuracy.
2. The water meter has a large error or even does not measure when the flow is small or the water is dripping.
3. Water quality is poor and the water meter is often blocked.
4. Difficulty reading meters and excessive energy consumption.

The following can be selected as Big size Ultrasonic Water Meter :

1. Inaccurate measurements of the pipe network and large errors result in substantial losses.
2. The wear and tear of mechanical water meters results in high maintenance costs.
3. The underground installation environment is difficult to read.
4. The water pressure and flow rate of the pipe network could not be monitored.

Water Meters Box

The water meter box raw material PP or PA. The whole body is black colour. Anti-pressure, and high temperature. The thickness not below 3mm.



Plastic Water Meter Box

Type	Figure	Bottom size	Top size	High	Material	Apply to	Compressive ability (kg)	Aperture (cm)
WB1001		38*20	37*18	17	PP/PA	25mm or 32mm	PP: 1500 PA:2000	5.2
WB1002		34.5*20.5	29.5*15	18	PP/PA	15mm or 20mm	PP: 1500 PA: 2000	3.2
WB1003		27.2*15.3	26.3*12.6	15.5	PP/PA	13mm or 15mm	PP: 1500 PA: 2000	3.2
WB1101		38*20	37*18	17	PP/PA	25mm or 32mm	PP: 1500 PA: 2000	4.5
WB1102		34.5*20.5	29.5*15	18	PP/PA	15mm or 20mm	PP: 1500 PA: 2000	5
WB1103		34.5*24.5	26.6*16.2	17	PP	15mm	900	4

Filter For Water Meter

Application

- Used for clearing pollution before water meter. Suit for pipeline of Ductile Iron, cast Iron, Steel, PVC, PE.

Standard

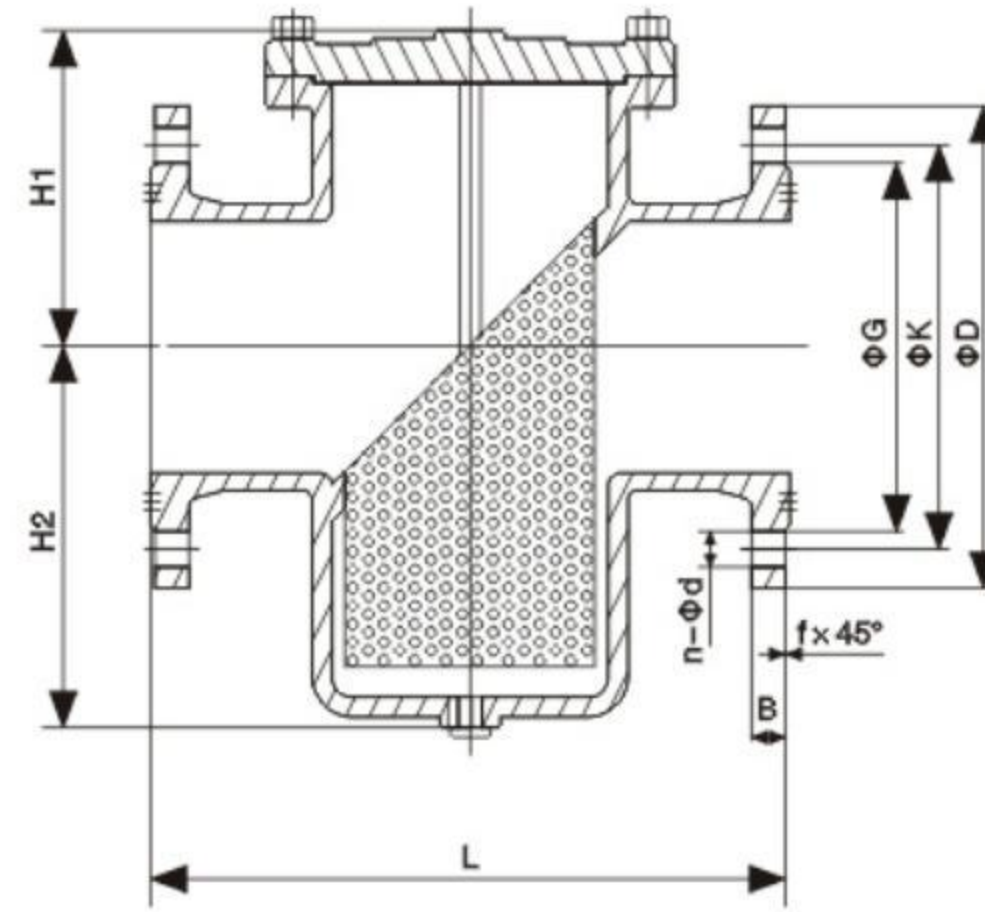
- National Standard

The Environment and Condition:

- MAP 10

Features

- The filter is made of stainless steel. It is not afraid of rust and has a long expiration date.
- Small pressure loss, large circulation capacity.
- Adopt the stainless steel fastener filter core to Max. rust prevention.
- Remove the filter element and remove the dirt. Cleaning is very convenient.



Dimensions

DN ^{+1.5} _{-1.5}	L ^{+0.5}	D ^{+0.5}	K ^{+1.5} _{-1.5}		G ⁺² ₋₂		B ^{+2.5} _{-2.5}	f	n-φd ^{+1.5} _{-1.5}		H1 ⁺²⁰ ₋₂₀	H2 ⁺²⁰ ₋₂₀
			PN10	PN16	PN10	PN16			PN10	PN16		
40	207	150	110	110	88	88	19	3	4-φ19	4-φ19	114	98
50	207	165	125	125	100	100	19	3	4-φ19	4-φ19	114	98
65	210	185	145	145	120	120	19	3	4-φ19	4-φ19	129	112
80	251	200	160	160	135	135	19	3	8-φ19	8-φ19	142	125
100	292	220	180	180	156	156	19	3	8-φ19	8-φ19	165	160
125	334	250	210	210	186	186	19	3	8-φ19	8-φ19	173	185
150	378	285	240	240	212	212	19	3	8-φ23	8-φ23	165	235
200	475	340	295	295	268	268	20	3	8-φ23	12-φ23	215	295
250	511	405	350	355	318	318	22	3	12-φ23	12-φ28	250	340
300	667	460	400	410	370	373	24.5	3	12-φ23	12-φ28	283	423
350	769	520	460	470	430	433	26.5	3	16-φ23	16-φ28	345	540
400	842	580	515	525	480	483	28	4	16-φ28	16-φ31	390	590
450	890	640	565	585	528	546	30	4	20-φ28	20-φ31	402	618
500	900	715	620	650	582	605	31.5	4	20-φ28	20-φ34	441	696
600	1000	840	725	770	680	710	36	5	20-φ30	20-φ37	523	834

Water Meter Parts

Water Meter



Mechanism for LXLC-(DN40~65mm)



Mechanism for LXLC-(DN80~200mm)



Mechanism for LXLC-(DN150~300mm)



Mechanism for LXLC-(DN350~600mm)



Mechanism for LXXG-(DN50~300mm)





Brass casing



Aluminum body



Iron casing



IC water meter core



Singel-jet water meter counter Rotating counter



Rotating counter



Brass bonnet



Aluminum sheet cover



Brass bonnet



Dry type small size counter



Dry-type core



Liquid sealed type counter



Nylon plastic housing



stainless steel body



Water meter box



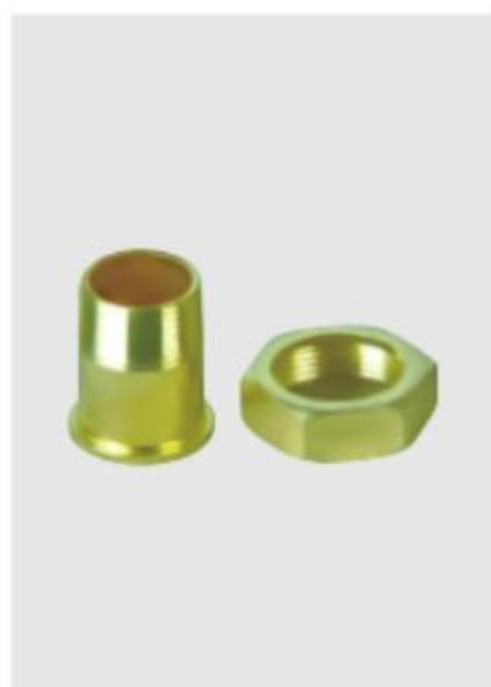
Cold Water meter core



Hot Water meter core



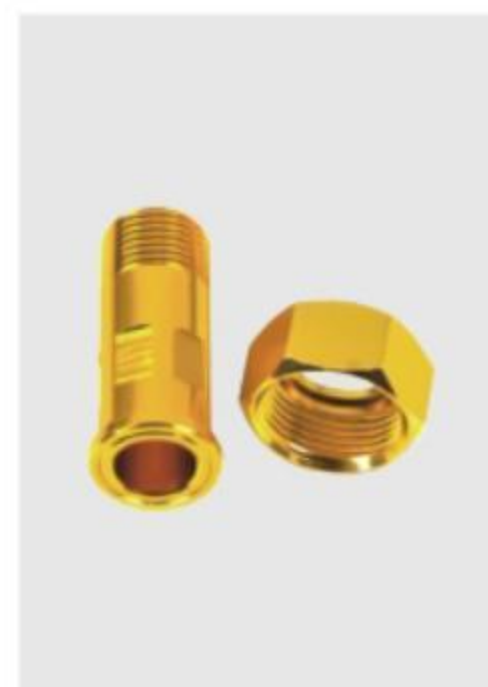
Water-saving core



Brass tube/nut



Iron tube/nut



AL-alloy tube



Hight-temperature pressforming



Plastic tube/nut



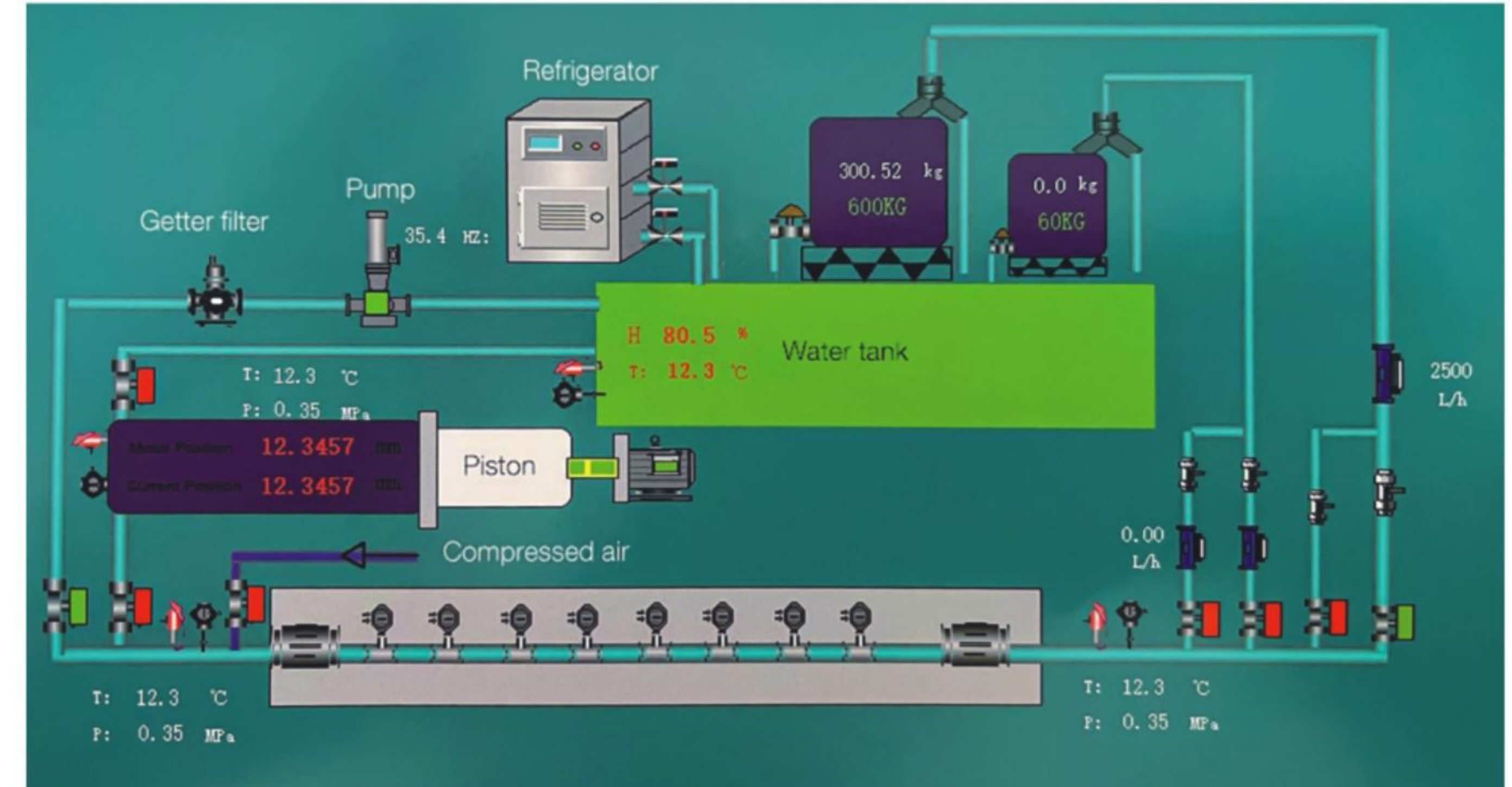
Counter for vane wheel meter



Counter for removable water meter



Spiral movement of horizontal



Technical Description

Automatic piston type gravimetric test bench.

- It can detect various types of mechanical water meters, ultrasonic water meters and electromagnetic water meters with various range ratios;
- With Piston system, support min flow rate 2L/H(Regular model 2L/h), suitable for manufacture & professional lab use;
- Adopt Siemens PLC control system, stable and reliable operation;
- It is easy to operate and supports full automatic/semi-automatic/manual operation;
- The software automatically generates test reports, and the test report template can be customized;
- A variety of data collection methods are available, including RS485/infrared/pulse/image/optical fiber, etc;
- It can support personalized function customization.

Plant Components

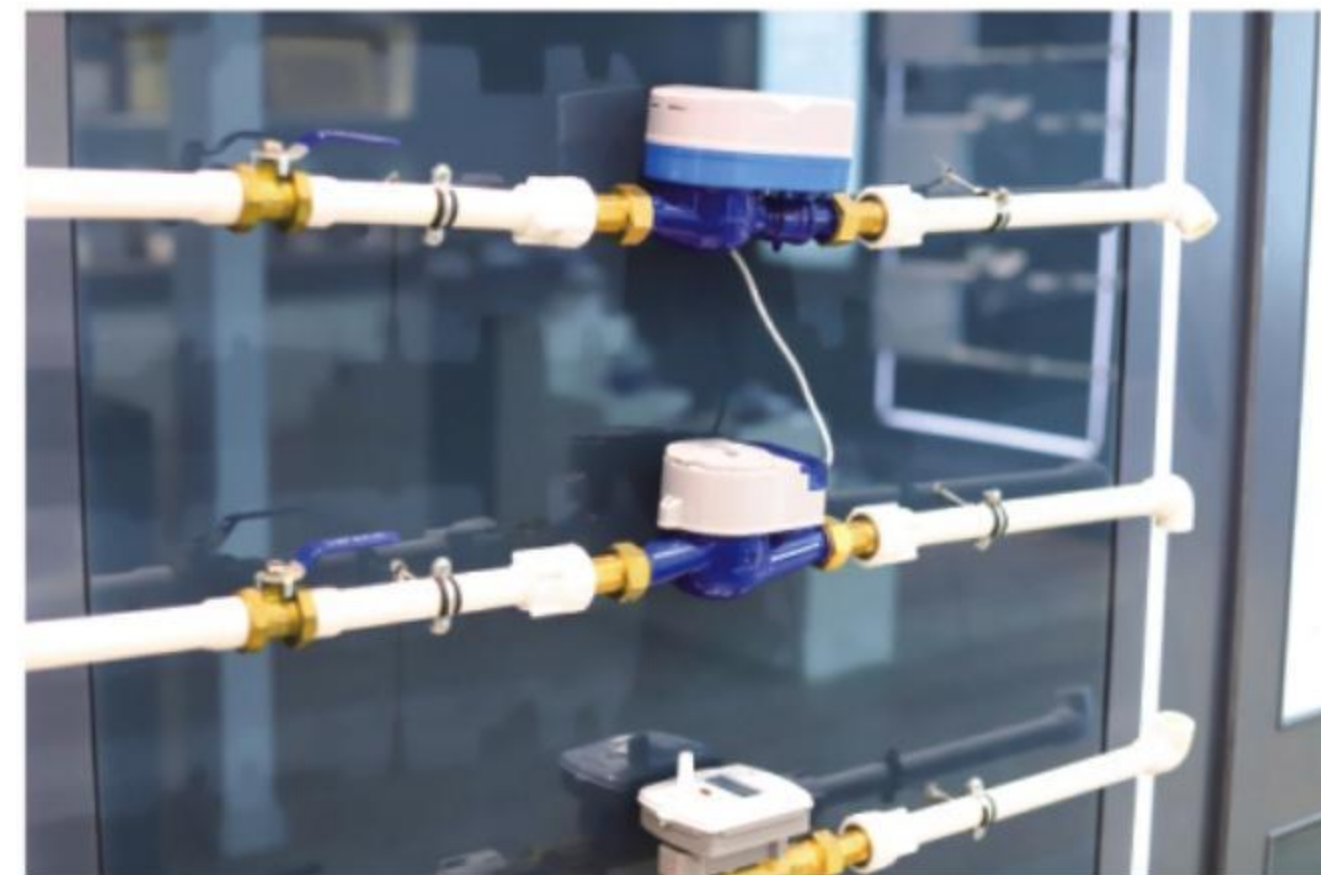
The device is composed of water source system, piston system, clamp pipe, flow regulating device, standard meter system, software control system and data acquisition system.

Technical Parameter

Model	SHA25-1	SHA25-P-1	SHA50-1	SHA50-P-1
Flow Range	(0.015-0.8)m³/h	(0.002-0.8)m³/h	(0.015-32)m³/h	(0.002-32)m³/h
Piston Specification	/	Volume 22L/resolution 0.036ml/ Pressure PN16/Panasonic servo drive	/	Volume 22L/resolution 0.036ml/ Pressure PN16/Panasonic servo drive
Master Standard	Electronic scale	Electronic weight+piston	Electronic scale	Electronic weight+piston
Master Standard Specification	Toledo 120kg/6000E		Toledo 60kg(6000E) 600kg(6000E)	
Weighing Capacity	120L		60L/600L	
Water Pump	Grundfos 2.2KW(Other brands also available)		Grundfos 7.5KW (Other brands are also available)	
Commutator	DN25		DN25+DN50	
Test Quantity	DN15*10 DN20*10 DN25*8 (Detection quantity and dual lines can be customized)		DN15*10 DN20*8 DN25*6 DN32*5 DN40*4 DN50*3 (Detection quantity and dual lines can be customized)	
Dimension	(5800mm*1500mm*2300mm)		(5800mm*2000mm*2700mm)	
Electromagnetic Flowmeter	Japan Yokogawa AXG/DN2.5+DN25 (Other brands available)		Japan Yokogawa AXG/DN2.5+DN25+DN50 (Other brands available)	
Test Method	Start-stop method + commutator method			
Uncertainty	≤0.2%(k=2)			
Pressure Range	0-16bar			
Ambient Temperature	15-30°C			
Relative Temperature	45%-75%			
Atmospheric Pressure	(86-106)kPa			
Electricity and Water	380V, 50Hz/60Hz, 3-phase 5-wire power supply/pure water			
Air Source Pressure	(3.5-6)bar			
Data Collection	MBUS/RS485/Infrared/Pulse/Image acquisition, etc			
Temperature Sensor	PT100, accuracy level A; Installed at import and export			
Pressure Sensor	Pressure transmitter, accuracy 0.5%; Installed at import and export			

Installation and maintenance

1. In order to ensure the most accurate measurement, install at least 5 times the straight pipe section with the same section as the pipe before the inlet of the water meter, and install at least 2 times the straight pipe section above the water meter outlet.
2. The connecting pipes upstream and downstream of the water meter can not shrink.
3. It is recommended to install flow control equipment (such as valves) and filters.
4. Flange sealing ring shall not protrude into the pipe or misplace.
5. The water meter must be thoroughly cleaned before installation to avoid debris damage to the meter.
6. The flow direction of the water meter should be consistent with the flow direction of the pipeline.
7. After the installation of the water meter, slowly discharge water filled with pipes to prevent high-speed airflow from breaking the water meter.
8. The installation position ensure that the pipe is full of water, bubbles will not be concentrated in the table, should avoid water meter installation at the highest point of the pipe.
9. Water meters should be protected from water pressure shocks.
10. The small diameter rotor type water meter must be installed horizontally, and the front and back or left tilt will lead to a decrease in sensitivity.
11. Water meters are dry and wet. Wet water meter glass under the water, water vapor and other normal phenomena. Due to the old pipe, poor water quality or installed at the end of the pipe, rust pollution will affect the reading.



Common faults and solutions

Common Faults	Common Reason	Exclusion Methods
	The pipe network is stuck with debris	Install the filters
	Top loose or water meter overloaded, excessive wear	Remove the starting core and tighten the top. It is strictly forbidden to overload the water meter.
Poor sensitivity or water meter	The gear stuck in the counter	Check whether the gear is broken and whether the gear has burrs or missing teeth
	Water meter overloaded, moving parts damaged, unable to drive	Remove workbench clean and replace damaged parts or replace workbench
Surface blackening	Poor water quality, dirt deposition	Install filter screen in front of water meter pipe
	Water contains chemicals that react with ink	Clean surface or restart watch
	The quality of the ink itself is problematic	Check ink
	The pointer does not fit closely with the gear shaft and the vibration falls off	Remove water meter, install new pointer, correct meter or change meter
The pointer fell off	There is no water on the surface. The water hammer acts to wash away the pointer	Open the water meter and fill the glass with water
	Inappropriate of installation	Remove water meter, new installation pointer
Word wheels do not carry	Gear, pot bar off gear	Replace counter or replace new water meter
	The bevel drive pinion is stuck	