XINGYMETER®

Ningbo Xingyuan Meter Technology Co.,Ltd.
Add:No. 666, Xinsheng road, Jiangbei high-tech industrial zone, Ningbo, China
TEL:0086-574-87139872
M.T:0086-013566018905
FAX:0086-574-87626451
E-MAIL: lilyzhu@xywatermeter.com
Contact person: Lily Zhu
Whatsapp:008613566018905
Wechat:13566018905

XINGYMETER®

宁波兴远仪表科技有限公司

NINGBO XINGYUAN METER TECHNOLOGY CO.,LTD.

www.xywatermeter.com
www.ningboxinyuan.com.cn

Introduction

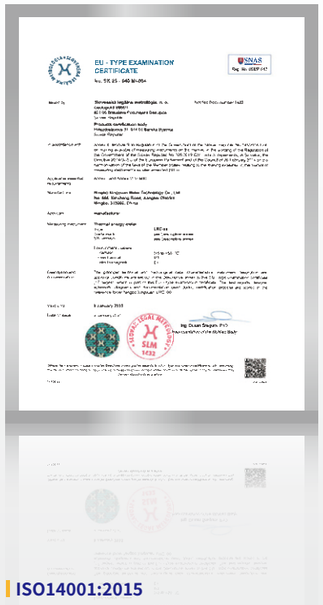
Located in Ningbo Jiangbei, Zhejiang Province, Ningbo Xingyuan Meter Technology Co., Ltd. is a professional manufacturer of smart meters, water meters, heat meters and meters accessories.

We are professional in doing various full series cold/hot water accessories and inner works, size from 15mm to 500mm for various water meters (residential and industrial applications, automatic reading system, intelligent water meter). Especially, we provide OEM projects or items for water meter parts, such as cooper water meter cases, iron water meter cases and plastic water meter cases. We provide many water meter parts to water meter companies. Our company owns many various injection molding machines, ranging from 50g to 2500g, and can do plastic parts and accessories as customer s requests. We are strong in casing and machining many cooper and iron accessories. Our goods are selling well in the domestic and overseas markets.

Our success is based upon personal contact with our customers. We offer them rapid response to all the inquiries and provide high quality services. We are selling not only products, but also the idea, designing, innovation, quality controlling and professional service.

CERTIFICATES

MID CERTIFICATE



ISO 9001:2015

ISO45001:2018

ISO14001:2015

AFTER SALES SERVICE CERTIFICATE

INFORMATION SECURITY MANAGEMENT SYSTEM CERTIFICATION

01 ULTRASONIC WATER METER

LXSM-W7

Brass

LXSM-W8

Plastic

Non-moving parts | IP 68 | Reverse flow measurement | Long battery life | Pressure sensor for optional | No air measuring | Remote communication

- Covered from DN15 to DN50 for domestic and commercial application, its robust design ensures reliable and long lasting precision and support full smart solutions. It is used to measure water consumption of potable water, for residential water supply purpose.

SPECIFICATIONS (LXSM-W7)

DN	L	Q3/Q1	Q4	Q3	Q2	Q1
	mm		m^3/h		L/h	
15	110	⩽R400 Any	3.125	2.5	⩾10.0	⩾6.25
20	130		5	4	⩾16.0	⩾10.0
25	160		7.875	6.3	⩾25.2	⩾15.75

SPECIFICATIONS (LXSM-W8)

DN	L	Q3/Q1	Q4	Q3	Q2	Q1
	mm		m^3/h		L/h	
15	110	⩽R400 Any	3.125	2.5	⩾10.0	⩾6.25
20	130		5	4	⩾16.0	⩾10.0
25	160		7.875	6.3	⩾25.2	⩾15.75

- Data communication: MBUS, RS485,Pulse, LoRa, LoRaWAN, NB-IoT, wM-Bus

02 ULTRASONIC PREPAID WATER METER WITH VALVE

LXSM-W9

Non-moving parts | IP 68 | Reverse flow measurement | Long battery life | Pressure sensor for optional | No air measuring | Remote communication

- Covered from DN15 to DN25 for domestic and commercial application, its robust design ensures reliable and long lasting precision and support full smart solutions. It is used to measure water consumption of potable water, for residential water supply purpose.

SPECIFICATIONS

DN	L	Q3/Q1	Q4	Q3	Q2	Q1
	mm		m^3/h		L/h	
15	130	R250	3.125	2.5	16.0	10.0
20	130		5	4	25.6	16.0
25	160		7.875	6.3	40.32	25.20

- Data communication: MBUS, RS485,Pulse, LoRa, LoRaWAN, NB-IoT, wM-Bus

03 ULTRASONIC BULK WATER METER

LXSM-W2

Non-moving parts | IP 68 | Reverse flow measurement | Long battery life | Pressure sensor for optional | No air measuring | Remote communication

- Covered from DN50 to DN300, it is a ductile iron cast ultrasonic bulk meter with advanced sensors for precise and reliable measurement to commercial and industrial application. The meter combined with high-tech technology for both superior hydraulic performance and instant alarm to realize smart water management.

SPECIFICATIONS

DN	L	Q3/Q1	Q4	Q3	Q2	Q1	Min Reading	Max Reading
	mm		m^3/h		L/h		m^3	
50	200	⩽R250 Any	31.25	25	⩾160	⩾100	0.00001	99999.999
65	200		50	40	⩾256	⩾160		
80	225		75	63	⩾403.2	⩾252		
100	250		125	100	⩾640	⩾400		
125	250		200	160	⩾1024	⩾640		
150	300		312.5	250	⩾1600	⩾1000		
200	350		500	400	⩾2560	⩾1600		
250	450		787.5	630	⩾4032	⩾2520		
300	500		1250	1000	⩾6400	⩾4000		

- Data communication: MBUS, RS485,Pulse, LoRa, LoRaWAN, NB-IoT

04 SINGLE-JET SMART WATER METER

LXSC-D7

LXSC-D8

IP68

LXSC-D9

LoRaWAN
Mini

High sensitivity | Directly reading | Corrosion resistance | Low pressure loss | Remote reading | Various of registers | Various of body material

- Single jet smart water meters with simple structure and economical bodies. They are an idea choice for a range of sub-metering applications for apartment and commercial buildings .

OPTIONAL

Meter body material	Electromechanical conversion	Basic water meter	Wireless data communication	Wired data communication	Temperature
brass	reed switch	dry type	NB-IoT	M-Bus	T30
plastic	HRI	semi-dry	wM-Bus	Pulse	T50
			LoRa	RS485	T90
			LoRaWAN		T30/T90

SPECIFICATIONS

DN	L	Q3/Q1	Q4	Q3	Q2	Q1	Capacity of the Pulse Emitter
	mm		m^3/h		L/h		Pulse/HRI
15	80/110/115	⩽R160H ⩽R50 Any	3.1	2.5	⩾25	⩾15.6	1L 10L
20	130		5	4.0	⩾40	⩾25	
25	160	⩽R80H ⩽R50 Any	7.875	6.3	⩾126	⩾78.75	
32	160		12.5	10	⩾200	⩾125	
40	200		20	16	⩾320	⩾200	

- Data communication: MBUS, RS485,Pulse, LoRa, LoRaWAN, NB-IoT, wM-Bus

05 MULTI-JET SMART WATER METER

LXSC-S4

LXSC-GK-S

LXSC-S2

IP68

Corrosion resistance	High sensitivity	Directly reading	Various of registers	Various of body material	Remote reading	IP 68

- Multi-jet smart water meter with reliable design to work stable under various of water usage environment . They are an idea choice for a range of municipal ,private and industrial water metering applications.

  Valve control prepaid water meter is based on the radio frequency card as the carrier, reads the water meter data, controls the electric valve, and realizes the prepaid.

OPTIONAL

Meter body material	Electromechanical conversion	Basic water meter	Wireless data communication	Wired data communication	Temperature
brass	reed switch	dry type	NB-IoT	M-Bus	T30
ductile iron	encoder	wet type	wM-Bus	Pulse	T50
plastic	HRI	semi-dry	LoRa	RS485	T90
stainless steel			LoRaWAN		T30/T90

SPECIFICATIONS

DN	L	Q3/Q1	Q4	Q3	Q2	Q1	Capacity of the Pulse Emitter	
	mm		m^3/h		L/h		Pulse	HRI
15	165/190	⩽R160H	3.1	2.5	⩾25	⩾15.6	1L 10L 100L $1m^3$	1L 10L
20	190/195	⩽R80V	5	4.0	⩾40	⩾25		
25	225/260		7.875	6.3	⩾126	⩾78.75		10L
32	260	⩽R80H	12.5	10	⩾200	⩾125		
40	300	⩽R50V	20	16	⩾320	⩾200		
50	300		31.25	25	⩾500	⩾312.5		

- Data communication: MBUS, RS485,Pulse, LoRa, LoRaWAN, NB-IoT, wM-Bus

06 ULTRASONIC HEAT METER

LXUR-H1

LXUR-H3

- Approval for ultrasonic heat meter with dynamic range up to 1:100(Qi:Qp) in class 2. It has long battery lifetime, high long term stability. Optional with integrated radio. Real date or open metering standard(868 or 433MHZ), individual remote reading(AMR). Conforming to European standard EN1434.

TECHNICAL CHARACTERISTICS

Nominal flow rate	q_p	m^3/h	0.6	1.5	2.5	3.5	6	10
Nominal diameter	DN	mm	15	15	20	25	32	40
Overall length	L	mm	110	110	130	160	180	200
Starting flow rate		l/h	3.5	3.5	4.5	7	7	20
Minimum flow rate (DR 1:100)	qi	l/h	6	15	25	35	60	100
Maximum flow rate	qs	m^3/h	1.2	3	5	7	12	20
Operating pressure	PN	bar	16/25	16/25	16/25	16/25	16/25	16/25
Pressure loss at qp	qs	mbar	85	75	100	128	128	95
Temp. range heating	△P	℃	2...95	2...95	2...95	2...95	2...95	2...95

- Data communication: MBUS, RS485,Pulse, LoRa, LoRaWAN, NB-IoT, wM-Bus, 4 pulse input

07 SINGLE-JET HEAT METER

LXUR-H5

- Volume measuring component DN15-DN40. Measures thermal energy consumption in heating and cooling systems. Consists of a flow sensor, an integrator and a pair of temperature sensors. Compact dimensions. High accuracy and durability. Pre-equipped for connection of water meter with pulse output. PC software for data reading and storaging. Conforming to European standard EN1434.

TECHNICAL CHARACTERISTICS

Nominal flow rate	q_p	m^3/h	0.6	1.5	2.5	3.5	6	10
Nominal diameter	DN	mm	15	15	20	25	32	40
Overall length	L	mm	110	110	130	160	180	200
Starting flow rate		l/h	6	8	15	20	30	50
Minimum flow rate (DR 1:50)	qi	l/h	12	30	50	70	120	200
Maximum flow rate	qs	m^3/h	1.2	3	5	7	12	20
Operating pressure	PN	bar	16/25	16/25	16/25	16/25	16/25	16/25
Pressure loss at qp	qs	mbar	85	75	100	128	128	95
Temp. range heating	△P	°C	2...95	2...95	2...95	2...95	2...95	2...95

- Data communication: MBUS, RS485,Pulse, LoRa, LoRaWAN, NB-IoT, wM-Bus, 4 pulse input

08 ULTRASONIC BULK HEAT METER

LXUR-H2

TECHNICAL CHARACTERISTICS

Nominal caliber	Minimum flow qi (m^3/h)	Common flow qp(m^3/h)	Maximum flow qs(m^3/h)	Body length mm
DN 50	0.15	15	30	200
DN 65	0.25	25	50	200
DN 80	0.4	40	80	225
DN 100	0.6	60	120	250
DN 125	1.0	100	200	250
DN 150	1.5	150	300	300
DN 200	2.5	250	500	350
DN250	4.0	400	800	450
DN300	6.0	600	1200	500
Measurement accuracy	Level 2 specified in GB/T 32224-2015“heat meter”			
Connection method	Flange connection			
Pressure loss	⩽0.02MPa			
Nominal pressure	⩽1.6MPa			
Temperature Sensor	1.5m standard two-wire PT1000 paired temperature sensor (wire length can be ordered)			
Data storage	Continuously store the historical records of the previous 18 months			
Power failure protection	After a power failure, the recorded heat, cumulative flow and corresponding time can be saved before the power failure, and the metering function will be automatically restored after the power is restored, and the continuation of the time when the power is off is guaranteed.			
Remote transmission	M-Bus remote transmission, RS-485 remote transmission			
Power supply	Built-in high-energy lithium battery			
Protection level	IP68			
Environmental rating	Class A			
Temperature range	(4~95)°C			
Temperature difference range	(3~70)K			
Installation method	Water inlet or backwater (default water inlet, backwater instalation should be specifiec when ordering)			
Installation location	Horizontal or vertical			
Durability	Life cycle ⩾10 years			
Display	8-digit LCD liquid crystal display			
Anti-magnetic interference	When it is interfered by a magnetic field with a strength not greater than 100KA/m,it should not affect the measurement and remote transmission characteristics of the heat meter.			

- Data communication: MBUS, RS485,Pulse, LoRa, LoRaWAN, NB-IoT

09 SINGLE-JET WATER METER

LXSC-D1 | LXSC-D2 R160 | LXS-FD | LXSC-DP

Mini

R160

- It has the characteristics of small size, light weight, magnetic transmission structure, and anti-magnetic function, the counter uses vacuum seal, anti-condensation atomization, can keep the reading clear. Meter body can use copper or plastic. All the Materials in contact with water, consciously selected by the known resistance to corrosion. Meets to the requirements of Directive 2004/22/EC on measuring instruments and of European Standard EN14154 and International Organization of Legal Metrology OIML R49.

SPECIFICATIONS

DN	L	Q3/Q1	Q4	Q3	Q2	Q1	Capacity of the Pulse Emitter
	mm		m^3/h		L/h		Pulse/HRI
15	80/110/115/120/190	⩽R160H ⩽R50Any	3.1	2.5	⩾25	⩾15.6	1L 10L
20	130		5	4.0	⩾40	⩾25	
25	160	⩽R80H ⩽R50 Any	7.875	6.3	⩾126	⩾78.75	
32	160		12.5	10	⩾200	⩾125	
40	200		20	16	⩾320	⩾200	

SPECIFICATIONS (MINI TYPE)

DN	L	Q3/Q1	Q4	Q3	Q2	Q1	Capacity of the Pulse Emitter
	mm		m^3/h		L/h		Pulse/HRI
15	80/110	⩽R80H ⩽R50 Any	3.1	2.5	⩾50	⩾31.25	10L
20	130		5	4.0	⩾80	⩾50	

10 MULTI-JET WATER METER

LXSC-E1 R160 | LXSC-GK | LXS-F8 | LXSC-G

IP68

High sensitivity	Directly reading	Corrosion resistance	Low pressure loss	Remote reading	Various of registers	Various of body material	IP 68

- Suitable for household water consumption measurement. It is mainly composed of meter body and mechanism, which has the characteristics of simple structure. Stable performance, long service life, stable and reliable transmission performance, small pressure loss, intuitive reading. Internal filter screen, with sufficient filtering area.

SPECIFICATIONS

DN	L	Q3/Q1	Q4	Q3	Q2	Q1	Capacity of the Pulse Emitter	
	mm		m^3/h		L/h		Pulse	HRI
15	105/165/190	⩽R16OH ⩽R80V	3.1	2.5	⩾25	⩾15.6		1L
20	105/190/195		5	4.0	⩾40	⩾25	1L	10L
25	110/225/260		7.875	6.3	⩾63	⩾39.4	10L	10L
32	260		12.5	10	⩾100	⩾62.5	100L	
40	300		20	16	⩾160	⩾100.0	$1m^3$	
50	300		31.25	25	⩾250	⩾156.3		

11 VOLUMETRIC ROTARY PISTON WATER METER

LXH-S

R350

Corrosion resistance

Various of registers

LXH-A

R350

Various of body material

High sensitivity

LXH-E4

R160

Arbitrary orientation

Remote reading

- Volumetric rotary piston water meter that equip with rotary piston for supper sensitive and precise measurement. They are an idea choice for a range of single or multifamily houses,public buildings ,and metering points,and beinstalled in any position without any loss of metrological parameters.

OPTIONAL

Meter body material	Electromechanical conversion	Basic water meter	Wireless data communication	Wired data communication	Temperature
brass	reed switch	dry type	NB-IoT	M-Bus	T30
plastic	HRI	semi-dry	wM-Bus	Pulse	T50
			LoRa	RS485	
			LoRaWAN		

SPECIFICATIONS

DN	L	Q3/Q1	Q4	Q3	Q2	Q1	Capacity of the Pulse Emitter	
	mm		m^3/h		L/h		semi-dry type	dry type
15	110/115/165/170	⩽R400 Any	3.125	2.5	⩾10	⩾6.25	0.5L	1L 10L
20	130/154/165/190		5	4	⩾16	⩾10		
25	170/260		7.875	6.3	⩾25.20	⩾15.75		
32	260		12.5	10	⩾40	⩾25		
40	300		20	16	⩾64	⩾40		

12 WOLTMAN WATER METER

LXLC-B

LXLC-MINI B

- It is turbine woltman water meter with magnetic transmission for industrial and irrigation application, covers the sizes from DN40 to DN200 and meets to the requirements of Directive 2014/32/EU on measuring instruments and of European Standard EN14154. It was designed with super high measuring range and be able to reach flow profile at U0D0 installation. The interchangeable, removable measuring mechanism can be easy removed from the body for checking, maintaining and replacing, no needs to dismantle the body form the pipe.

SPECIFICATIONS

DN	L	Q3/Q1	Q4	Q3	Q2	Q1	Min Reading	Max Reading	Capacity of the Pulse Emitter
	mm		m^3/h		m^3/h		m^3		m^3/P
40	200	R50	20	16	0.51	0.32	0.0005	999999.999	0.01/0.1/1
50	200	R80	50	40	0.8	0.5			
65	200		78.75	63	1.26	0.7875			
80	225		78.75	63	1.26	0.7875			
100	250		125	100	2	1.25			
125	250		200	160	3.2	2			
150	330		312.5	250	5	3.125		9999999.99	0.1/1/10
200	350		500	400	8	5			

13 WOLTMAN WATER METER

LXLC-W

R160

Directly reading | Reliability | Corrosion resistance | High performance | Simple installation | Easy maintenance | IP 68

- It is turbine woltman water meter with magnetic transmission for industrial and irrigation application,covers the sizes from DN50 to DN200. It was designed with super high measuring range and be able to reach flow profile at U0D0 installation.

SPECIFICATIONS

DN	L	Q3/Q1	Q4	Q3	Q2 or Q1	Min Reading	Max Reading	Capacity of the Pulse Emitter
	mm		m^3/h			m^3		m^3/P
50	200	⩽R250H ⩽R160 Any	50/78.75	40/63	⩾0.25	0.0005	999999.999	0.01/0.1/1
65	200		78.75/125	63/100	⩾0.39			
80	225		78.75/125	63/100	⩾0.39			
100	250		125/200	100/160	⩾0.63			
125	250		200/312.5	160/250	1			
150	330		312.5/500	250/400	1			0.1/1/10
200	350		500/787.5	400/630	⩾1.58			

14 IRRIGATION&AGRICULTURE WATER METER

LXLI

Impurity resistance | Directly reading | Large flow rate capacity | Simple installation | Easy maintenance | IP 68

- It is turbine water meter for irrigation and agriculture application,It covers the size from DN50 to DN300. It has a high flow pass capacity to meet with the rural requirement of water supply and drainage.

SPECIFICATIONS

DN	L	Q3/Q1	Q4	Q3	Q2 or Q1	Min Reading	Max Reading	Capacity of the Pulse Emitter
	mm		m^3/h		L/h	m^3		m^3/P
50	200	⩽R40H	78.75	63	⩾1.6	0.001	999999.99	0.1/1
65	200		78.75	63	⩾1.6			
80	225		125	100	⩾2.5			
100	250		200	160	⩾4			
125	250		312.5	250	⩾6.3			
150	300		500	400	⩾10			
200	350		787.5	630	⩾16	0.01	9999999.9	1/10
250	450		1250	1000	⩾25			
300	500		2000	1600	⩾40			

15 COMBINATION WATER METER

LXF

- Combination water meter consists of a large water meter and a small water meter. The flow conversion device automatically controls the water flow through the small water meter or the large water meter at the same time according to the size of the flow meter. The metering range is from the minimum flow of the small water meter to the maximum flow of the large water meter, which is the largest range ratio among all the water meters. The complex water meter has the advantages of easy maintenance, wide measuring range and minimal starting flow, which not only meets the needs of large flow measurement, but also maximizes the minimum flow measurement and reduces metering leakage.

MAIN TECHNICAL DATE

Size	mm	Dn50*Dn15	Dn65*Dn20	Dn80*Dn20	Dn100*Dn20	Dn150*Dn40	Dn200*Dn50
Metrological Class							
Qmax	m^3/h	30	50	80	120	300	500
Qn	m^3/h	15	25	40	60	150	250
Qt	m^3/h	0.12	0.2	0.2	0.2	0.8	1.2
Qmin	m^3/h	0.03	0.05	0.05	0.05	0.2	0.3
Max. Reading	m^3	999999.999+99999.9999				9999999.99+999999.999	
Min. Reading	Liter	0.05				0.05	
Max. Pressure	Bar	PN16					
Max. Temperate	°C	40					

METER PARTS AND OTHERS

test bench

connectors

heat meter parts

RP-repeater/Gateway

water meter parts

COMMUNICATION MODULES FOR WATER METERS

- Different communication interfaces: Wire MBUS; Wire RS485;Wire pulse;LoRa;LoRaWAN;NB-IoT
- Reverse flow detection
- Removal detection
- Magnet detection
- 10+ years lithium battery lifetime
- Protection class: IP65/ IP68
- Data storage in nonvolatile memory: 60 months, 184 days, 1488 hours
- Server software for data reading and storaging
- RF USB modem for configuring and data reading

INTRODUCTION

The main function of the device is to convert the mechanical reading of the water meter into electronic reading, detect the forward and reverse signals of the water meter, and transmit the signals outward through RS-485 or M-Bus communication.

REMOTE TRANSMISSION