



SZ Stock Code: 300066



Sanchuan Wisdom Technology Co., Ltd.



**THE HIGHEST GOOD IS LIKE WATER
SPUR WITH LONG ACCUMULATION**



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COMPANY HISTORY

1971

Started up as Yingtan Water Meter Factory



2013

The sole National Certified Enterprise Technology Lab

国家认定
企业技术中心

国家发展改革委 科技部
财政部 海关总署 国家税务总局

2010

Listed in Shenzhen Stock Exchange



2000

Begin to produce smart water meter



2016

The world-first NB-IoT water meter deployed in Melbourne



2023

15M+ units NB-IoT Water Meters deployed



2024

The world-leading 5G smart digital factory start production



50+

Years Production Experience

1200+

Employees

200+

Senior Engineers

10M+

Annual Production Capacity

1400+

Water Utility Customers

1.4B+

Turn Over/CNY

518

Patents&Software Copyright

68

National&Industrial Standard

WHY CHOOSE SANCHUAN?

Industrial Experience:

Founded in 1971, **the first** listed company specialized in water meter in China, **the first** water meter company that deploys NB-IoT smart water meter in large scale;

Professional Capability:

National Enterprise Certificate Center (the only one in water meter industry), 10 Million+ smart water meter **production capability**, professional production process, equipment;

International Compliance:

Our company has achieved various **international certifications** covering production processes, water meter accuracy, and quality management systems. Such as ISO 9001, MID, CE, OIML R49, etc.



5G SMART DIGITAL FACTORY



CERTIFICATION

CNAS ISO17025



MID



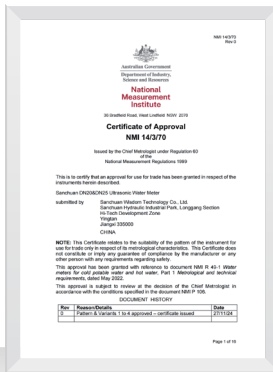
MID



OIML R49



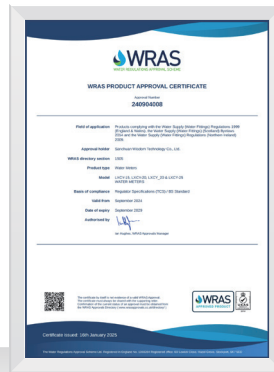
NMI



WaterMark



WRAS



ISO9001



ISO14001



ISO10012



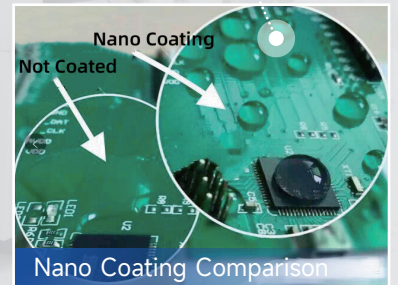
ISO45001



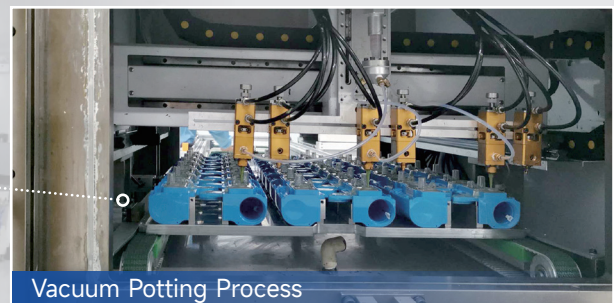
SA8000



QUALITY CONTROL



SMT Machine for PCB





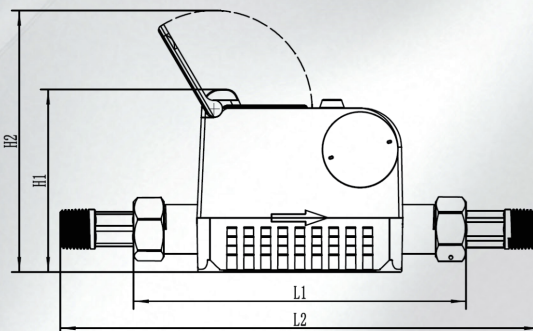
Ultrasonic Water Meter



FEATURES

- DN 15 to 25
- MID approved with dynamic range up to R 400
- IP 68 suitable for outdoor installations
- Remote meter reading via NB-IoT , LoRaWAN etc., access to AMI network
- Display with error and alarm codes including leakage detection
- Battery lifetime up to 16 years
- U0 / D0, no need for calming sections

DIMENSION



GENERAL INFORMATION

Ultrasonic Water Meter		
Medium temperature range	° C	0.1 ... +50
Ambient operating temperature		-5 ... +55
Ambient storage temperature		-5 ... +55 (>35 ° C max. 4 weeks)
Environmental class		O (Outdoors)
Meter body material		SS304/316L, Brass, Composite
Nominal pressure	MAP bar	16
Power supply		3.6V DC lithium batteries
Battery lifetime*		Up to 16 years
Communication Module		NB-IoT, LoRaWAN, wMBus, Cat 1, 4G.
Data storage		For errors, alarms and measuring values, data logging capabilities: each 5 min flow data 21 days, daily data 120 days, monthly data 10 years, 50 recent error datas, 2000 event datas.
Protection class		IP68
* Depends on local signal strength, configured online frequency each day and the ambient temperature at the installation.		

TECHNICAL DATA DISPLAY

Ultrasonic Water Meter	
Display indication	LCD, 11-digit, additional symbols/display counter/unit
Units displayed	Volume (m ³ + 4 decimal places)
Values displayed	Display test - volume - battery lifetime - firmware version - software checksum - flow - current/continuous/historical error - alarm status - high resolution volume - due date - due date volume - reverse volume - display counter - low battery indication - leakage indication - metrological log access - radio signal ON/OFF - alarm indication - and more display loop options to choose from.



TECHNICAL DATA

Nominal Diameter	DN	mm	15	15	20	20	25	25
Permanent flow rate	Q ₃	m ³ /h	2.5	2.5	4	4	6.3	6.3
Minimum flow rate	Q ₁	L/h	6.25	10.00	10	16	15.75	25.20
Dynamic (Q ₃ /Q ₁)	R		400	250	400	250	400	250
Overload flow rate	Q ₄	m ³ /h	3.125	3.125	5	5	7.875	7.875
Transitional flow rate	Q ₂	L/h	10	16	16	26	25.20	40.32
Starting flow rate		L/h	2	2	3	3	5	5
Max. Pressure Loss		bar	0.4	0.4	0.4	0.4	0.4	0.4
Overall length	L1	mm	110/165	110/165	130/195	130/195	225	225
Overall length with coupling	L2	mm	255	255	295	295	341	341
Height	H1	mm	98	98	98	98	98	98
Height	H2	mm	138	138	138	138	138	138
Width	B	mm	88	88	88	88	88	88
Connection thread on meter		Inch	G ¾	G ¾	G 1	G 1	G 1¼	G 1¼
Connection thread of coupling		Inch	R ½	R ½	R ¾	R ¾	R 1	R 1

LXCY

Ultrasonic Bulk Water Meter

FEATURES

- DN 40 to 300
- Dynamic range up to R 250
- IP 68 suitable for outdoor installations
- Remote meter reading via NB-IoT and RS485, access to AMI network
- Display with error and alarm codes including leakage detection
- Battery lifetime up to 10 years
- U0 / D0, no need for calming sections



GENERAL INFORMATION

LXCY Ultrasonic Bulk Water Meter			
Temperature range	° C	0.1 ... +50	
Operating temperature		-5 ... +55	
Storage temperature		-5 ... +55 (>35 ° C max. 4 weeks)	
Environmental class		O (Outdoors)	
Meter body material		Stainless Steel 304	
Nominal pressure	MAP	bar	16
Power supply		3.6V DC lithium batteries	
Battery lifetime*		Up to 10 years	
Communication Module		NB-IoT, RS485	
Data storage		5 min flow data 31 days, daily data 365 days, monthly data 10 years, 300 recent error datas, 700 event datas.	
Protection class		IP68	
* Depends on local signal strength, configured online frequency and the ambient temperature at the installation.			

TECHNICAL DATA DISPLAY

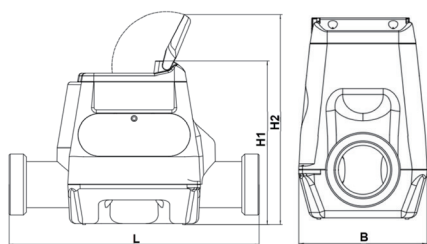
LXCY Ultrasonic Bulk Water Meter	
Display indication	LCD, 9-digit, additional symbols/display counter/unit
Units displayed	Volume (m ³ + 1 decimal places)
Values displayed	Display test - volume - battery lifetime - firmware version - software checksum - flow - current/continuous/historical error - alarm status - high resolution volume - due date - due date volume - reverse volume - display counter - low battery indication - leakage indication - metrological log access - radio signal ON/OFF - alarm indication - and more display loop options to choose from.



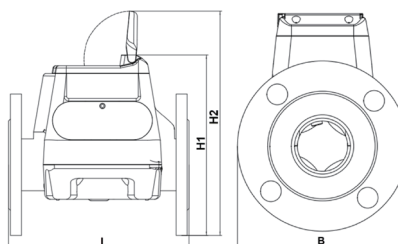
TECHNICAL DATA

Nominal Diameter	DN	mm	40	50	80	100	150	200	250	300
Permanent flow rate	Q_3	m^3/h	25	40	100	160	400	630	1000	1600
Minimum flow rate	Q_1	m^3/h	0.1	0.16	0.4	0.64	1.6	2.52	4	6.4
Dynamic (Q_3/Q_1)	R		250	250	250	250	250	250	250	250
Overload flow rate	Q_4	m^3/h	31.25	50	125	200	500	787.5	1250	2000
Transitional flow rate	Q_2	m^3/h	0.16	0.256	0.64	1.024	2.56	4.032	6.4	10.24
Max. Pressure Loss		bar	0.4	0.25	0.1	0.1	0.1	0.1	0.1	0.1
Overall length	L	mm	245	200	225	250	300	350	450	500
Height	H1	mm	160	190	320	340	400	450	510	560
Height	H2	mm	205	240	410	430	490	540	600	650
Width	B	mm	102	155	200	220	285	340	405	460

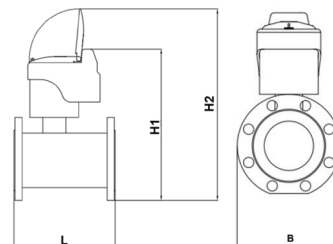
DIMENSION



DN40



DN50-65



DN80-300

LXSZK

Prepaid Card Water Meter



FEATURES

- Alarm function: Insufficient balance, magnetic interference.
- Credit function: Users can overdraw part of their water bills, with the overdraft amount set by the water company.
- Low Battery Indication: When the meter's battery is running out, the valve will close and the user can use IC card to open for three times, after that the valve won't open unless the battery is replaced.

GENERAL INFORMATION

LXSZK Prepaid Card Water Meter				
Temperature Level			T30/T50/T90	
Nominal Diameter	DN	mm	15,20,25	
Pressure Loss			Δp_{63}	
Nominal pressure		bar	16	
Accuracy class			2	
Indicating range(m³)		m³	0-99999.9	

TECHNICAL DATA

Nominal Diameter	DN	mm	15	20	25
Model Name			LXSZK-15	LXSZK-20	LXSZK-25
Permanent flow rate	Q ₃	m ³ /h	2.5	4	6.3
Minimum flow rate	Q ₁	L/h	15.625	25	39.375
Dynamic (Q ₃ /Q ₁)	R		160	160	160
Overload flow rate	Q ₄	m ³ /h	3.125	5	7.875
Transitional flow rate	Q ₂	L/h	25	40	63
Meter Length	L ₁	mm	165	195	225
Meter Length with coupling	L ₂	mm	255	295	341
Connection thread		Inch	G ¾	G1	G1 ¼

LXSFW-WC

Non-magnetic Smart Water Meter



FEATURES

- DN 15 to 25
- CPA approved with dynamic range up to R160
- Remote meter reading via remote module(NB-IoT, LoRaWAN)

GENERAL INFORMATION

LXSFW-WC Non-magnetic Smart Water Meter			
Medium temperature range	° C	0.1 ... +50	
Ambient operating temperature		-25 ... +50	
Housing material		Stainless Steel	
Nominal pressure	MAP bar	16	
Accuracy class		2	
Indicating range(m ³)		0-99999.9999	

TECHNICAL DATA

Nominal Diameter	DN	mm	15	15	20	20	25	25
Model Name			LXSFW-15	LXSFW-15	LXSFW-20	LXSFW-20	LXSFW-25	LXSFW-25
Permanent flow rate	Q ₃	m ³ /h	2.5	2.5	4	4	6.3	6.3
Minimum flow rate	Q ₁	L/h	15.625	25	25	40	39.375	63
Dynamic (Q ₃ /Q ₁)	R		160	100	160	100	160	100
Overload flow rate	Q ₄	m ³ /h	3.125	3.125	5	5	7.875	7.875
Transitional flow rate	Q ₂	L/h	25	40	40	64	63	101
Overall length	L ₂	mm	165	165	195	195	225	225
L+unions	L ₁	mm	255	255	295	295	341	341
Connection thread		Inch	G ¾	G ¾	G1	G1	G1 ¼	G1 ¼

LXSF-WC STS

Prepaid Water Meter



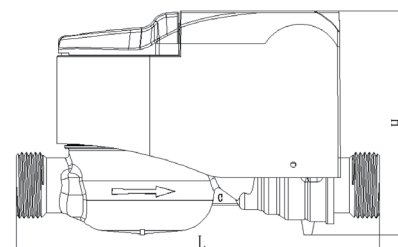
FEATURES

- DN 15 to 25 Stainless Steel/Cast Iron
- 1L-level electronic precision
- Overdraft and accumulation limits can be configured
- 85 days of daily and 85 months of monthly records

GENERAL INFORMATION

LXSF-WC STS Prepaid Water Meter		
Medium temperature range	° C	0.1 ... +50
Ambient operating temperature		-5 ... +50
Ambient storage temperature		-5 ... +50
Environmental class		O (Outdoors)
Meter body material		Stainless Steel
Nominal pressure	MAP bar	16
Register material		plastic
Accuracy class		2
Indicating range(m ³)		0-99999.99

DIMENSION



TECHNICAL DATA

Nominal Diameter	DN	mm	15	20	25
Model Name			LXSF-WC 15	LXSF-WC 20	LXSF-WC 25
Permanent flow rate	Q ₃	m ³ /h	2.5	4	6.3
Minimum flow rate	Q ₁	m ³ /h	0.015625	0.025	0.039375
Dynamic (Q ₃ /Q ₁)	R		160	160	160
Overload flow rate	Q ₄	m ³ /h	3.125	5	7.875
Transitional flow rate	Q ₂	m ³ /h	0.025	0.04	0.063
Overall length	L	mm	165	195	225
Connection thread		Inch	G ¾	G1	G1 ¼

LXSG-E5

Multi-Jet Dry Dial Water Meter



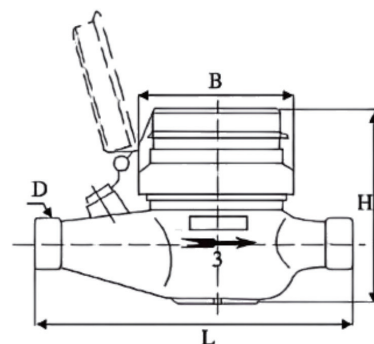
FEATURES

- Dry dial, vacuum sealed to keep clean reading for long time
- Available for cold water 0-30° C and hot water 30-90° C
- Magnetic transmission, Antimagnetic type, 360° Rotating dial
- Remote transmission device can be added upon request
- Pulse output 10L/pulse

GENERAL INFORMATION

LXSG-E5 Multi-Jet Dry Dial Water Meter			
Accuracy Class			2
Maximum Permissible Error	Q_2-Q_4		$\pm 5\%$
Maximum Permissible Error	Q_1-Q_2		$\pm 2\%$ at $\leq 30^\circ \text{C}$, $\pm 3\%$ at $> 30^\circ \text{C}$
Temperature Class			T30 and T50
Nominal Pressure	MAP	bar	16
Pressure Loss	ΔP	bar	0.63
Indicating range		m^3	99999
Resolution of Indicating		m^3	0.00005
Flow Profile Sensitive Class			U0D0
Orientation Limitation			Horizontal

DIMENSION



TECHNICAL DATA

Nominal Diameter	DN	mm	15	15	20	20	25	25
Model Name			LXSG-13E5		LXSG-20E5		LXSG-25E5	
Permanent flow rate	Q_3	m^3/h	2.5	2.5	4	4	6.3	6.3
Minimum flow rate	Q_1	m^3/h	0.025	0.015625	0.04	0.025	0.063	0.039375
Dynamic (Q_3/Q_1)	R		100	160	100	160	100	160
Overload flow rate	Q_4	m^3/h	3.125	3.125	5	5	7.875	7.875
Transitional flow rate	Q_2	m^3/h	0.04	0.025	0.064	0.04	0.1008	0.063
Overall length	L	mm	165	165	190	190	260	260
L+unions	L+u	mm	255	255	286	286	372	372
Connection thread		Inch	G 3/4	G 3/4	G1	G1	G1 1/4	G1 1/4

HP5D

Bulk Water Meter - Woltman Meter



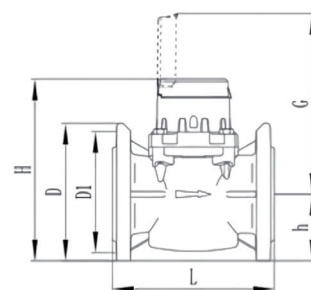
FEATURES

- DN 40 to 300
- High-precision and Wide- range , dynamic range up to R 200
- Wear resistance and long working life
- Easy to install anti-interference
- Low pressure loss and low power consumption

GENERAL INFORMATION

HP5D Bulk Water Meter - Woltman Meter			
Temperature range	°C	0.1 ... +50	
Operating temperature		-5 ... +55	
Storage temperature		-5 ... +55 (>35 °C max. 4 weeks)	
Environmental class		O (Outdoors)	
Meter body material		Cast Iron QT450	
Nominal pressure	MAP	bar	16
Communication Module		NB-IoT - RS485 - Pulse output	

DIMENSION



TECHNICAL DATA

Nominal Diameter	DN	mm	40	50	65	80	100	150	200	250	300
Permanent flow rate	Q ₃	m ³ /h	63	63	63	100	160	250	400	1000	1600
Minimum flow rate	Q ₁	m ³ /h	0.315	0.315	0.315	0.5	0.8	1.25	2	5	8
Dynamic (Q ₃ /Q ₁)	R		200	200	200	200	200	200	200	200	200
Overload flow rate	Q ₄	m ³ /h	79	78.75	78.75	125	200	312.5	500	1250	2000
Transitional flow rate	Q ₂	m ³ /h	0.504	0.504	0.504	0.8	1.28	2	3.2	8	12.8
Max. Pressure Loss		bar	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Overall length	L	mm	245	200	200	225	250	300	350	450	500
Flange Connection		mm	165	165	185	200	220	285	340	405	460
Height	H	mm	220	220	220	247	259	335	387	438	465

H4200

Bulk Water Meter - Woltman Meter



FEATURES

- DN 40 to 300
- High-precision and Wide- range , dynamic range up to R 200
- Wear resistance and long working life
- Easy to install anti-interference
- Low pressure loss and low power consumption

GENERAL INFORMATION

H4200 Bulk Water Meter - Woltman Meter			
Temperature range	° C	0.1 ... +50	
Operating temperature		-5 ... +55	
Storage temperature		-5 ... +55 (>35 ° C max. 4 weeks)	
Environmental class		O (Outdoors)	
Meter body material		Cast Iron QT450	
Nominal pressure	MAP	bar	16
Communication Module		NB-IoT - GPRS - Pulse output	

TECHNICAL DATA

Nominal Diameter	DN	mm	40	50	65	80	100	150	200
Permanent flow rate	Q ₃	m ³ /h	40	40	40	63	100	250	400
Minimum flow rate	Q ₁	m ³ /h	0.2	0.2	0.2	0.315	0.5	1.25	2
Dynamic (Q ₃ /Q ₁)	R		200	200	200	200	200	200	200
Overload flow rate	Q ₄	m ³ /h	50	50	50	78.75	125	312.5	500
Transitional flow rate	Q ₂	m ³ /h	0.32	0.32	0.32	0.504	0.8	2	3.2
Max. Pressure Loss		bar	0.63	0.63	0.63	0.63	0.63	0.63	0.63
Overall length	L	mm	245	280	300	370	370	500	500
Flange Outside Diameter	D	mm	50.8	165	185	200	220	285	340
Height	H	mm	220	228	238	290	306	445	564

LXH

Rotary Piston Water Meter - Volumetric Meter



FEATURES

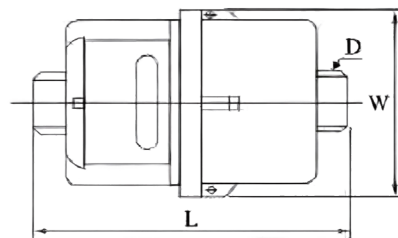
- Class Metrology: $\leq R200$ in any position
- Mechanical transmission
- Direct reading on 8 numeric protected rolls
- Available for cold water $0.1^{\circ}\text{C}-30^{\circ}\text{C}$
- Water pressure: $\leq 1.6\text{Mpa}$
- Reed switch option



GENERAL INFORMATION

LXH Rotary Piston Water Meter			
Medium temperature range	$^{\circ}\text{C}$	0.1 ... +30	
Ambient operating temperature		-5 ... +30	
Ambient storage temperature		-5 ... +30	
Environmental class		O (Outdoors)	
Meter body material		Brass	
Accuracy class		2	
Indicating range(m^3)		9999	

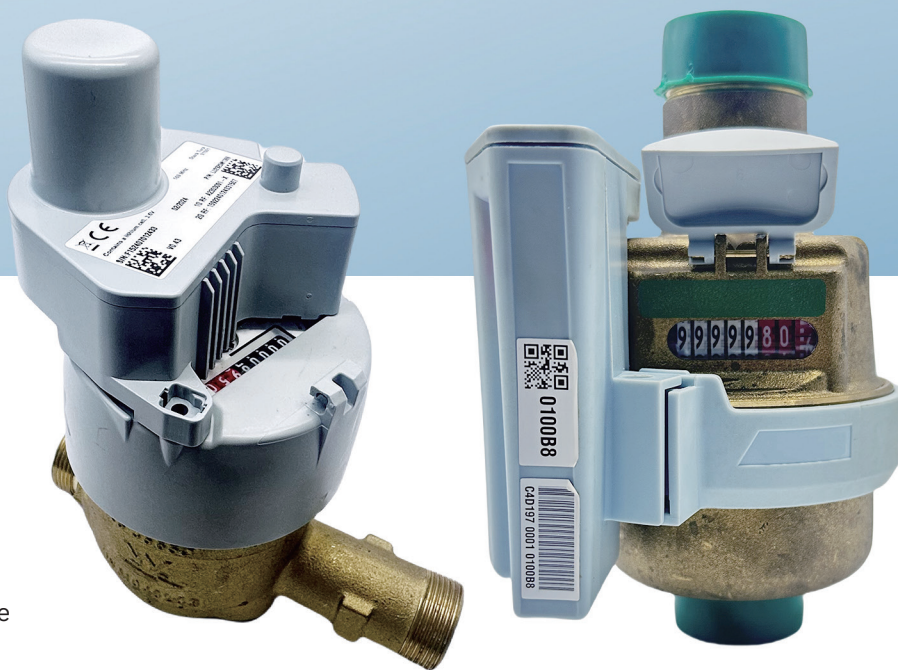
DIMENSION



TECHNICAL DATA

Nominal Diameter	DN	mm	15	15	20	20
Model Name			LXH-15		LXH-20	
Permanent flow rate	Q_5	m^3/h	2.5	2.5	4	4
Minimum flow rate	Q_1	L/h	31.25	15.625	50	25
Dynamic (Q_5/Q_1)	R		100	160	100	160
Overload flow rate	Q_4	m^3/h	3.125	3.125	5	5
Transitional flow rate	Q_2	L/h	50	25	80	40
Overall length	L	mm	165	165	190	190
Width	W	mm	90	90	90	90

Remote Reading Module for Volumetric Water Meter



FEATURES

- Compatible with volumetric water meter
- IP68 protection level
- 10 years battery life
- Optional communication module
NB-IoT/LoRaWAN/wMBus

GENERAL INFORMATION

Remote Reading Module for Volumetric Water Meter		
Temperature range	° C	0.1 ... +50
Operating temperature		-5 ... +55
Storage temperature		-5 ... +55 (>35 ° C max. 4 weeks)
Environmental class		O (Outdoors)
Module material		Composite material
Communication Module		NB-IoT/LoRaWAN/wMBus

LXEY-S

Electromagnetic Water Meter



FEATURES

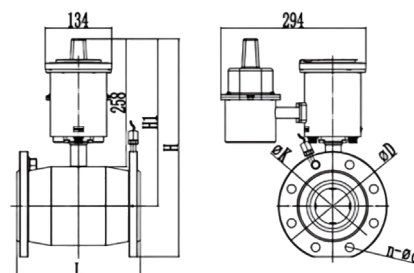
- DN 40 to 300, dynamic range up to R 400
- Ultra-low pressure loss
- IP68 protection level
- Wide measuring range and ultra-low starting flow
- Optional pressure detection



GENERAL INFORMATION

LXEY-S Electromagnetic Water Meter			
Temperature range	° C	0.1 ... +50	
Operating temperature		-5 ... +55	
Storage temperature		-5 ... +55 (>35 ° C max. 4 weeks)	
Environmental class		O (Outdoors)	
Meter body material		Stainless Steel	
Nominal pressure	MAP bar	16	
Communication Module		NB-IoT - 4G - RS485	

DIMENSION



TECHNICAL DATA

Nominal Diameter	DN	mm	40	50	80	100	150	200	250	300
Permanent flow rate	Q ₃	m ³ /h	25	40	100	160	400	630	1000	1600
Minimum flow rate	Q ₁	m ³ /h	0.1	0.16	0.4	0.64	1.6	2.5	4.0	6.3
Dynamic (Q ₃ /Q ₁)	R		250	250	250	250	250	250	250	250
Overload flow rate	Q ₄	m ³ /h	31.25	50	125	200	500	787.5	1250	2000
Transitional flow rate	Q ₂	m ³ /h	0.16	0.26	0.64	1	2.6	4	6.4	10
Max. Pressure Loss		bar	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Overall length	L	mm	200	200	200	250	300	350	450	500
Flange Connection	D	mm	150	165	200	220	285	340	395	445
Height	H	mm	220	220	247	259	335	387	438	465

SANCHUAN'S CASE



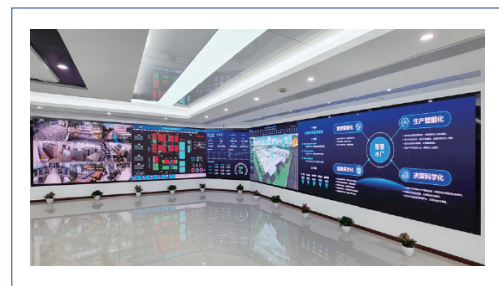
YINGTAN SMART WATER PROJECT, CHINA

Sanchuan deployed NB-IoT smart meters (189,000 units) and intelligent water services in Yingtan, serving 1.14 million residents.

The project enhanced digital billing, precise leakage control, and grid efficiency. Smart meter coverage increased from 700,000 to 3.83 million units, reducing leakage from 20% to 8.5% and non-revenue water from 18% to 8.1%. User satisfaction improved from 80% to 99.5%.

189,000

Sanchuan deployed NB-IoT smart meters and intelligent water services.





SHENYANG SMART METERING UPGRADE

In Liaoning Province, Sanchuan supplied 335,000 NB-IoT meters to optimize water management. The project improved leakage detection, billing accuracy, and customer service. Leakage rate dropped from 14.72% to 8.49%; complaint volume fell from 600 to 230; billing success rose to 99.5%. Intelligent management and dynamic data analysis were also introduced.

335,000

Sanchuan supplied NB-IoT meters.



TIANJIN METER REPLACEMENT PROGRAM

Sanchuan provided 1.9 million NB-IoT smart meters for Tianjin, targeting 13.64 million residents. Smart coverage rose from 18 to 400 million units. Leakage reduced from 40% to 9.2%, and annual water use from 59.5 to 66.7 billion m³. Customer satisfaction and billing success reached 99.9%.

1.9 Million

Sanchuan provided NB-IoT smart meters.



SHANGHAI SMART METER RETROFIT

Shanghai upgraded 580,000 water meters to NB-IoT smart meters. The initiative improved metering accuracy and user service. Leakage rate dropped from 11.13% to 7.4%, and complaint cases fell from 1852 to 680. Coverage increased from 470,000 to 1 million units, with billing success reaching 99.9%.

580,000

Shanghai upgraded water meters to NB-IoT smart meters.



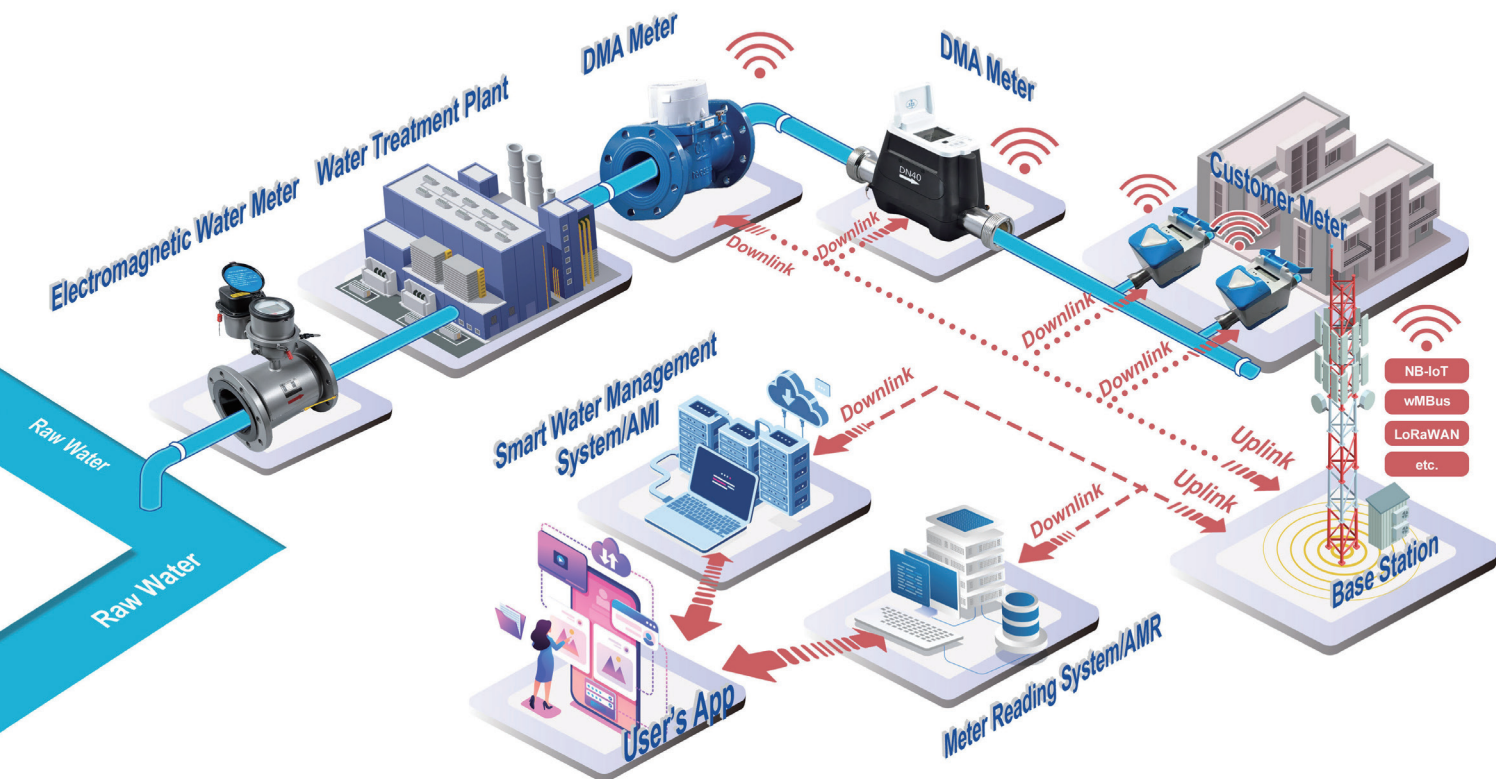
BEIJING WATER INTELLIGENCE PROJECT

For a user base of 21.83 million, Sanchuan delivered 800,000 NB-IoT meters. The project reduced leakage from 9.2% to 6.3%, and non-revenue water from 10% to 7%. Complaint cases decreased from 1700 to 430, and user satisfaction exceeded 99.9%. Smart water coverage rose from 130 to 440 million units.

800,000

Sanchuan delivered NB-IoT meters.

SMART WATER METER APPLICATION SCHEME



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