

CATALOGUE

WATER METER

2022



WATER METER

ANALOG

LXSG SERIES Screw DN15~40

Applications

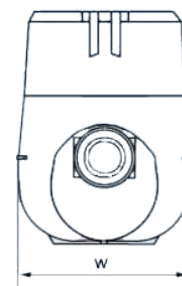
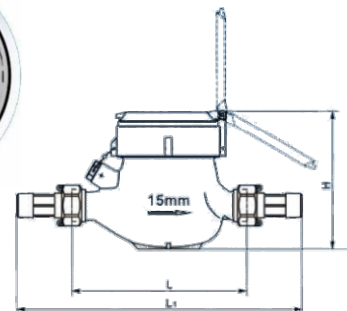
Measuring the volume of potable water passing through the pipeline for residential application

Feature

- ▶ Sealed super dry magnetic register ensures clear reading.
- ▶ Magnetic drive with lower transmission resistance.
- ▶ With internal and external regulation device.
- ▶ Magnetic shield provides resistance to exterior magnet interference.
- ▶ 5 digit counters +4 pointers for high accuracy measurement readout
- ▶ Central "star" used for leak detection and low flowrate

Dimensions

nominal diameter	mm	DN	15	20	25	32	40	50
Body Length	mm	L	165	190	225/260	230/260	245/300	300
Overall Length	mm	L ₁	259	294	345/380	354/384	376/431	448
Width	mm	W	94	94	98	98	122	145
Meter Height	mm	H	107.5	107.5	117.5	117.5	141.5	177
Weight Without Connector	kg		1.5	1.6	2.2/2.4	2.7/2.9	4.8/5.1	10



Technical Parameters

Nominal Diameter	mm	DN	15	20	25	32	40	50
Maximum Flowrate	m ³ /h	Q _{ma}	3.0	5.0	7.0	12	20.0	30.0
Nominal Flowrate	m ³ /h	Q _n	1.5	2.5	3.5	6.0	10.0	15.0
Transitional Flowrate	l/h	Q _t	120	200	280	480	800	1200
Minimum Flowrate	l/h	Q _{mi}	30	50	70	120	200	300
Maximum reading	m ³		99999.9999			9999999.9999		
Minumum Reading	m ³		0.0001			0.0001		

- Maksimum Working Temperature:
40°C For cold PotCble water meter
90°C For hot potable water meter
- Maximum Working Pressure:
16Bar
- Body: Corrosion Proof Copper Alloy
- Coupling Threads: BSP

To get more smart a meter

WATER METER

ANALOG

LXSG SERIES

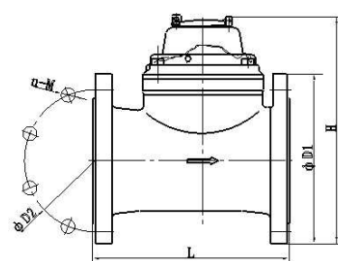
Flange DN40~300

Applications

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

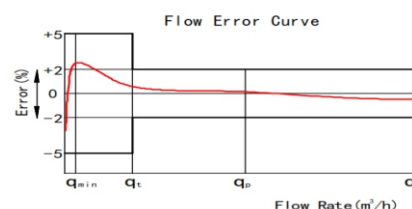
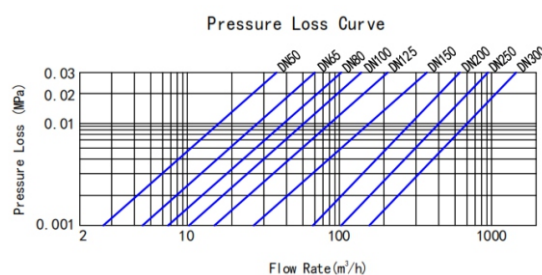
Feature

- ▶ 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



Dimensions

Type	Size	L Length	H Height	Connecting Flange		
	mm			Outside diameter	Bolt Circle diameter	Connecting Bolts
LXSG-40	40	200	250	127	98.5	4-M14
LXSG-50	50	200	261	152	120.5	4-M16
LXSG-65	65	200	271	178	139.5	4-M16
LXSG-89	89	225	279	190	152.5	4-M16
LXSG-100	100	250	289	229	190.5	8-M16
LXSG-125	125	250	299	254	215.5	8-M20
LXSG-150	150	300	319	279	241.5	8-M20
LXSG-200	200	350	346	343	298.5	8-M20
LXSG-250	250	450	434	406	362.5	12-M24
LXSG-300	300	500	459	483	432	12-M24



Technical Parameters

Type	Size(mm)	Q_s Overload flow	Q_p permanent flow	Q_t Transitional Flow	Q_{min} Min. Flow	Min. Reading	Max. Reading
		m³/h				m³	
LXSG-40	40	20	10	2.0	0.3	0.0002	999,999
LXSG-50	50	30	15	3.0	0.45	0.0002	999,999
LXSG-65	65	50	25	5	0.75	0.0002	999,999
LXSG-80	80	80	40	8.0	1.2	0.002	999,999
LXSG-100	100	120	60	12	1.8	0.002	999,999
LXSG-125	125	200	100	20	3	0.002	999,999
LXSG-150	150	300	150	30	4.5	0.002	999,999
LXSG-200	200	500	250	50	7.5	0.002	999,999
LXSG-250	250	800	400	80	12	0.002	999,999
LXSG-300	300	1200	600	120	18	0.02	9,999,999

To get more smart a meter

WATER METER

ANALOG - RS485 MODBUS

LSXG SERIES

Screw DN15~40

Product Introduction

SAITEC produces photoelectric direct-reading remote-transmitting water meter is a measuring device used to measure the total water volume of the water flowing through the pipeline. It is applicable for small-scale industrial water and household water. This water meter features by large measurement range and high precision. Its measuring properties and other functions are able to meet with the Level-2 accuracy standard prescribed in GB/T 778.1~3—2007 national standard.

LXSG series photoelectric direct-reading remote-transmitting water meter reads the print-wheel data using the photoelectric direct-reading technology. Compared to traditional pulse meter, its metering error is reduced to zero. It is also an electronic remote-transmitting water meter that achieves zero electro-mechanical transformation error in the automatic meter reading system. Adopting a low-power-consumption design, apart from meter reading and valve operation, otherwise it requires no power supply.

Dimensions

SIZE mm	Length L mm	Length of threaded connecting pipe (mm)	Width B mm	Height H mm
DN15	165	259	99	115
DN20	195	299	99	115
DN25	225	345	104	120
DN32	230	354	104	120
DN40	245	373	125	160

Technical Parameters

Nominal diameter (mm)	DN15	DN20	DN25	DN32	DN40
Overload flow Q_4 (m ³ /h)	3.0	5.0	7.0	12.0	20.0
Normal flow Q_3 (m ³ /h)	1.5	2.5	3.5	6.0	10.0
Divide flow Q_2 (m ³ /h)	0.12	0.20	0.28	0.48	0.80
Min flow Q_1 (m ³ /h)	0.03	0.050	0.07	0.12	0.20
Flow maximum reading(m ³)	99999				
Accuracy level	Class 2				
Allowed working pressure (Mpa)	≤ 1.6MPa				
Water Temperature	0.1°C ~ +45°C				
Humidity	0 ~ 95%RH				
Temperature class	T30				
Pressure Level	MAP10				
Pressure Loss Level	ΔP63				
Climate and mechanical	Level B				
Electromagnetic	Level E1; unmeasurable reverse flow				
Shell material	Cast Iron				
Installation mode	Horizontal installation				

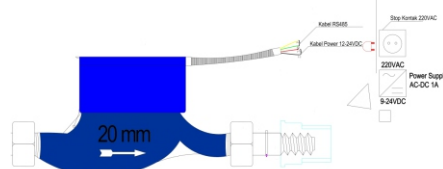
Feature

- ▶ Direct-reading of the print-wheel data. Compared to traditional pulse water meter, it may reduce the reading error to zero;
- ▶ Marked with exclusive address ID, through which we can read the meter data and ensure the exclusiveness and accuracy of the data;
- ▶ Compliance with the design requirements of EMC, ESD, and EMI on electromagnetic compatibility of electronic products, reaching leading industrial level;
- ▶ Connected with the host computer, it has been equipped with remote automatic meter reading management system to achieve fully automatic meter reading;
- ▶ The installation environment is of B grade;
- ▶ The electromagnetic environment is of E1 grade.

Electrical Specifications:

Operational Voltage	: 12VDC ±2V
Operational Current	: 0.8 ± 0.1mA
Protocol Communication	: RS485 - Modbus RTU
Baudrate	: 1200, 2400, 4800, 9600(default)
Parity, Stop Bit	: None, 8
Signal Type	: 4-bit photoelectric coding

Wiring

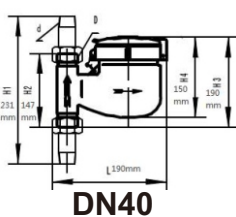
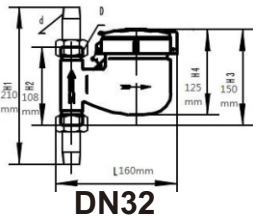
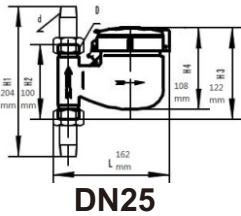
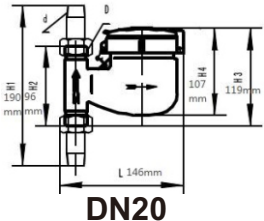
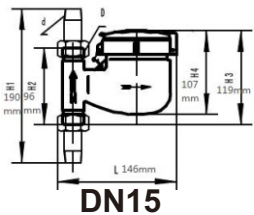


To get more smart a meter

Product Introduction

SAITEC The photoelectric direct reading remote transmission water meter is an intelligent remote transmission water meter, which is equipped with embedded transmission photoelectric direct reading module on the mature and reliable common wet base meter, and adopts the character wheel scale recognition technology and optoelectronic coding principle to read the position state of the digital wheel of the meter reading instantaneous meter and transmit the reading to the data collector. It has the advantages of advanced structure, accurate measurement, convenient maintenance and strong anti-interference. The products meet the national standard GB/T7748.1~3-2007, the Ministry of Construction standards CJ/T188-2004 and CJ/T224-2012.

Dimensions



Feature



- ✓ Using photoelectric direct reading technology, the reading is accurate, and it is difficult to produce errors in electronic and mechanical parts.
- ✓ Using non - contact sensor, does not affect the original performance of the mechanical water meter;
- ✓ The protection level is high, and the dial in the table is sealed with liquid, so the reading is clear and it is not easy to be polluted by water.
- ✓ With a low power design, power is only required for readings;
- ✓ It can be combined with the meter reading system to establish a remote automatic meter reading management system to truly realize meter reading automation;
- ✓ Each water meter has its own unique electronic identity code, which is convenient for management and maintenance.

Technical Parameters

Nominal diameter (mm)	DN15	DN20	DN25	DN32	DN40
Nominal diameter (inc)	1/2	3/4	1	1 1/4	1 1/2
Overload flow Q_4 (m³/h)	3.125	5	7.875	12.5	20
Normal flow Q_3 (m³/h)	2.5	4	6.3	10	16
Divide flow Q_2 (m³/h)	0.05	0.080	0.128	0.2	0.32
Min flow Q_1 (m³/h)	0.030	0.050	0.080	0.125	0.2
Q_3 / Q_1	80				
Flow maximum reading(m³)	99999				
Accuracy level	Class 2				
Allowed working pressure (Mpa)	≤ 1.0MPa				
Water Temperature	0.1°C ~ +30°C				
Humidity	0 ~ 95%RH				
Temperature class	T30				
Pressure Level	MAP10				
Pressure Loss Level	ΔP63				
Climate and mechanical	Level B				
Electromagnetic	Level E1; unmeasurable				
Shell material	Copper/Iron				
Installation mode	Vertical installation				

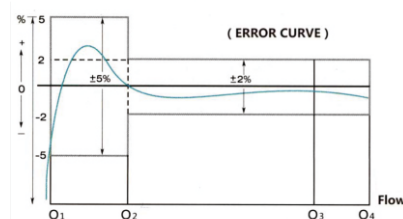
Electrical Specifications:

Operational Voltage	: 12VDC \pm 2V
Operational Current	: 0.8 \pm 0.1mA
Protocol Communication	: RS485 - Modbus RTU
Baudrate	: 1200, 2400, 4800, 9600
Parity, Stop Bit	: None, 8
Signal Type	: 4-bit photoelectric coding

Maximum Permissible Error:

Low Zone ($Q_1 \leq Q \leq Q_2$) Max. Permissible Error $\pm 5\%$

High Zone ($Q2 \leq Q \leq Q4$) Max. Permissible Error $\pm 2\%$



To get more smart a meter

WATER METER

ANALOG - RS485 MODBUS

LXSG WOLFMAN SERIES

FLANGE DN50~400

Product Introduction

SAITEC produces photoelectric direct-reading remote-transmitting water meter is a measuring device used to measure the total water volume of the water flowing through the pipeline. It is applicable for small-scale industrial water and household water. This water meter features by large measurement range and high precision. Its measuring properties and other functions are able to meet with the Level-2 accuracy standard prescribed in GB/T 778.1~3—2007 national standard.

WMAS series photoelectric direct-reading remote-transmitting water meter reads the print-wheel data using the photoelectric direct-reading technology. Compared to traditional pulse meter, its metering error is reduced to zero. It is also an electronic remote-transmitting water meter that achieves zero electro-mechanical transformation error in the automatic meter reading system. Adopting a low-power-consumption design, apart from meter reading and valve operation, otherwise it requires no power supply.

Dimensions

SIZE mm	Length L mm	Width B mm	Height H mm
DN50	280	165	228
DN65	300	185	238
DN80	370	200	290
DN100	370	220	306
DN125	250	250	310
DN150	500	285	445
DN200	500	340	564
DN400	600	565	631

Technical Parameters

Nominal diameter (mm)	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN400
Overload flow $Q_4(\text{m}^3/\text{h})$	30.0	50	125	200	312.5	500	787.5	2000
Normal flow $Q_3(\text{m}^3/\text{h})$	15	40	100	160	250	400	630	1000
Divide flow $Q_2(\text{m}^3/\text{h})$	3.0	0.256	2.0	3.2	5.0	8.0	12.48	200
Min flow $Q_1(\text{m}^3/\text{h})$	0.45	0.16	1.25	2.0	3.125	5.0	7.8	30
Range Ratio $Q_3 / Q_1 (\text{m}^3/\text{h})$	80							
Accuracy level	Class 2, Level B							
Allowed working pressure	$\leq 1.6\text{MPa}$							
Water Temperature	$0.1^\circ\text{C} \sim +45^\circ\text{C}$							
Humidity	$0 \sim 95\%\text{RH}$							
Temperature class	T30, T50, T70, T90							
Pressure Level	MAP10							
Pressure Loss Level	$\Delta P63$							
Shell material	Cast Iron							
Installation mode	Horizontal Installation							
Protocol	Modbus RTU							
Shell material	Copper / Iron							
Baudrate	1200bps, 2400bps, 4800bps, 9600bps							
Operational Voltage&Current	$12\text{VDC} \pm 2\text{V}$, $0.8 \pm 0.1\text{mA}$							



Feature

- ▶ Direct-reading of the print-wheel data. Compared to traditional pulse water meter, it may reduce the reading error to zero;
- ▶ **Detachable, Dry-dial, magnetic drive, High Precision, and Large Flow capacity;**
- ▶ Marked with exclusive address ID, through which we can read the meter data and ensure the exclusiveness and accuracy of the data;
- ▶ Compliance with the design requirements of EMC, ESD, and EMI on electromagnetic compatibility of electronic products, reaching leading industrial level;
- ▶ Connected with the host computer, it has been equipped with remote automatic meter reading management system to achieve fully automatic meter reading.



To get more smart a meter

Product Introduction

A signal sensor is installed on the ordinary mechanical water meter to convert the mechanical water meter into an electronically identifiable pulse signal.

It is mainly used as the base meter of various intelligent water meters. There are three sampling methods: Hall element, magneto resistance and dry reed, and there are two options: single pulse and double pulse.

The diameters of water meter 15 to 300mm. Long durability and elevated precision guaranteed.

Feature

- ▶ Dry-dial, magnetic drive, protected against external magnetic tampering.
- ▶ Vacuum sealed register, frost resistant, keeps clear reading for long time.
- ▶ Brass body, cast iron body or plastic body, (optional)
- ▶ Strong adaptability and complete detection
- ▶ Pulse output, Pulse constant: 10 L / pulse (1 L / pulse, 100 L / pulse, 1000 L / pulse).
- ▶ Large flow capacity and small pressure loss
- ▶ High quality material applied to guarantee its function efficient and reliable.
- ▶ Removable mechanism is easy to replace or fix and not required detaching the body from pipeline.

LXSG - (15-300)

Multi Jet Dry Water Meter-Pulse Remote



Technical Parameters

HYDRAULIC PERFORMANCE							
SIZE	mm	DN15	DN20	DN25	DN32	DN40	DN50
	inches	½"	¾"	1"	1¼"	1½"	2"
Metrologocal Class		R(Q3/Q1)≤100 Q2/Q1=1.56					
Q3	m³/h	2.5	4	6.3	10	16	25
TECHNICAL SPECIFICATION							
Maximum Permissible Error Between Q1 and Q2 (excluded)		±5%					
Maximum Permissible Error Between Q2 (included) and Q4		±2% With Water Temperature ±3%With Water Temperature >30℃					
Temperature Class		Cold Water: 0℃~40℃ Hot Water: 40℃~90℃					
Pressure Loss Class		Δ p63					
Nominal Pressure	bar	10/16					
Min Reading	m³	0.0001	0.0001	0.0001	0.0001	0.001	0.001
Max Reading	m³	99,999					
Pluse options		10L					
DIMENSIONS							
L	mm	165/90	190/95	250/225	260/230	300/245	280/300
W	mm	99	99	104	104	125	125
H	mm	104	106	120	120	155	155
CONNECTING THREAD							
	6¼"B		G1"B	G1¼"B	G1½"B	G2"B	G2½B

WATER METER

ANALOG - PULSE TYPE

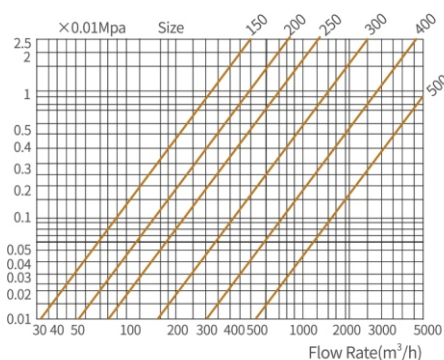
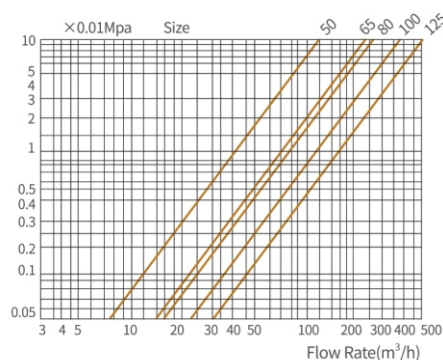
LXSG WOLFMAN SERIES

FLANGE DN40~300

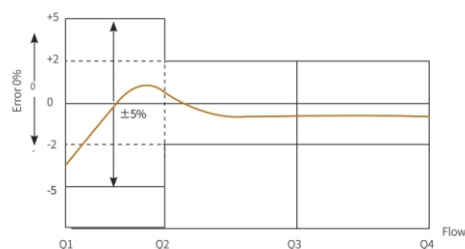
Technical Parameters

HYDRAULIC											
SIZE	mm	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
	inches	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"
Metrologocal Class	R(Q3/Q1≤160)										
Q3	Q3/Q1(R50/R63/R80/R100/R160) Q2/Q1≤(1.6, 2.5, 4, 6.3)										
TECHNICAL											
Maximum Permissible Error	±5%										
Between Q1 and Q2(excluded)											
Maximum Permissible Error	±2% With Water Temperature ≤30℃										
Between Q2 (included) and Q4	±3% With Water Temperature >30℃										
Temperature Class	Cold Water: 0℃~40℃ Hot Water: 40°~90°										
Nominal Pressure	bar	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16
Min Reading	m³	0.001	0.001	0.001	0.001	0.001	0.01	0.01	0.01	0.01	0.01
Max Reading	m³	99.999.999	99.999.999	99.999.999	99.999.999	99.999.999	99.999.999	99.999.999	99.999.999	99.999.999	99.999.999
Weight	kg	10	11	12.5	13.6	16	21	23	33	65	85
Pluse options	l/imp.	10-1000	10-1000	10-1000	10-1000	10-1000	100-10000	100-10000	100-10000	100-10000	100-10000
DIMENSIONS											
L	mm	200	200	200	225	250	250	300	350	450	500
W	mm	160	185	185	200	215	250	285	340	405	460
H	mm	220	250	250	255	265	290	310	350	450	480
CONNECTING BOLTS											
Outside Diameter	mm	150	165	185	200	220	250	280	340	405	460
Bolt Circle Diameter	mm	110	125	145	160	180	210	240	295	355	410
Connecting Bolts		4-M16	4-M16	4-M16	8-M16	8M-16	8M-16	8-M20	8/12-M20	12-M24	12-M24

Head Loss Curve



Error Curve



To get more smart a meter

WATER METER

FOR IRRIGATION & SEWAGE WATER

LXP WOLFMAN SERIES

FLANGE DN50~300

Product Introduction

SAITEC supply Woltman water Meters: Analog/ Mechanical Water Meter for Clean and waste water are made from epoxy coated cast iron. A meter with magnetic transmission and dry recording head.

Application

SAITEC Woltman Water Meters can be used for: Potable Water, Irrigation, treats waste water and Industry Network.

Feature

- ▶ 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
- ▶ Resist water hummer and pollution
- ▶ Selected high quality materials for steady & reliable characteristics.
- ▶ Water temperature 0.1°C~50°C (0.1°C~90°C for hot water meter)
- ▶ Technical data conform to international standard ISO 4064

Dimensions

Type	Size (mm)	Length (mm) h	Height (mm) H	outer diameter D1	Bolt Circle Diameter D2	Connectiong bolt n-Md	weight (kg)
LXP-50	50	200	253	165	125	4-M16	12
LXP-65	65	200	268	165	145	4-M16	13
LXP-80	80	225	284	200	160	8-M16	15
LXP-100	100	250	295	220	180	8-M 16	19
LXP-125	125	250	310	250	210	8-M 16	23
LXP-150	150	300	339	285	240	8- M20	30
LXP-200	200	350	382	340	295	8-M 20(1.0MPa) 12-M20(1.6MPa)	40
LXP-250	250	400 450	433 438	395 405	350 355	8-M20(1.0MPa) 12-M24(1.6MPa)	66
LXP-300	300	450 500	483 488	445 460	400 410	8-M20(1.0MPa) 12-M24(1.6MPa)	100



Technical Parameters

Size (mm)	Class of measurement	Maximum flow (Qs)	Nominal flow (Qn)	Transitional Flow (Qt)	Min Flow (Qmin)	Min Reading	Maximum Reading
		m³/h				m³	
50	A	30	15	4.5	1.2	0.0005	999,999
65		50	25	7.5	2		
80		80	40	12	3.2		
100		120	60	18	4.8	0.001	
125		200	100	30	8		
150		300	150	45	12		
200		500	250	70	20		
250		800	400	120	32		
300		1200	600	180	48		

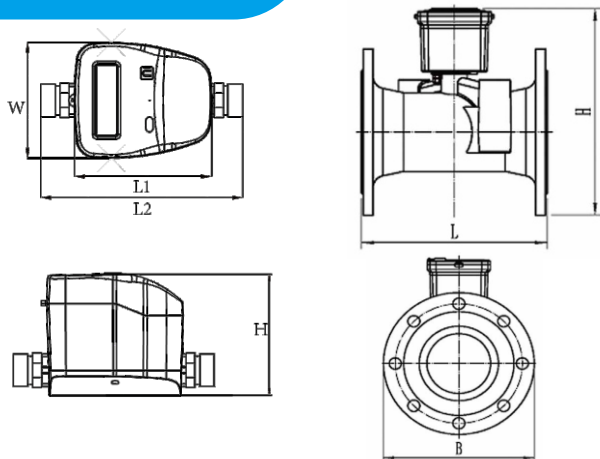
To get more smart a meter

Product Introduction

This series of ultrasonic water meters has the advantages of high range ratio, ultra- low power consumption, stable and reliable operation, etc. Every part of the water meter has IP68 protection level, which can be used in various harsh working environments, and is widely used in urban water supply, water resources management, agricultural irrigation, landscaping, industrial production and other industries. It is a major innovation in water metering technology.

Ultrasonic water meter is a new type of water meter that measures and displays flow based on the principle of time difference between forward and backward flow when ultrasonic waves propagate in water. The instrument can be equipped with wired or wireless data communication interfaces to communicate with collectors, concentrators, or network servers, forming a remote meter reading management system. The management department can retrieve data from the meter as needed, facilitating the statistics and management of user water consumption.

Dimensions



DN (mm)		15	20	25	32	40
Size	L1(mm)	112	112	112	112	112
	L2(mm)	165	195	225	180	200
	Width(mm)	94	94	94	96	96
	Height(mm)	99	99	100	135	137
	Weight(mm)	0.81	0.92	1.26	1.34	1.65

DN Size	L	W	H	Flange Connection		
mm				flange Diameter	Bolt Diameter	Bolt Size-M
DN50	200	170	215	170	125	4-M16
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-M16
DN200	350	340	405	340	295	12-M20
DN250	450	405	470	405	355	12-M24
DN300	500	460	525	460	410	12-M24

Feature

- ▶ Ultrasonic water meter's intelligent measuring instrument is consist by the temperature sensor , flow sensors and calculators.
- ▶ Built in lithium battery power supply ensures over (6+1) years of us Built in flash memory 32K, it can save the data more than 100 years.
- ▶ Could provide important application and data for many applications in the pipeline.
- ▶ Optional wired communication interface (Modbus-RS485) or wireless communication interface (LoRa), Optional built-in NB IoT IoT communication module to form an IoT table.
- ▶ Countable reverse flow
- ▶ With self-diagnosis function: flow sensor fault alarm, temperature sensor fault alarm, measurement over range alarm, battery under-voltage alarm



Working principle

The meter comprises the quality temperature sensor ,the flow sensor and the calculator. The temperature sensor to measure th temperature of water and the flow sensor to measure the volume of water that flow through the pipelines by the transit time difference.

The two data is sent to the calculator after being collected, the consumption water quantity is worked out, stored and indicated on the LCD finally.

To get more smart a meter

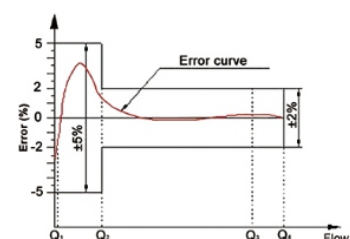
ULTRASONIC WATER METER

DIGITAL - RS485 MODBUS

Technical Parameter

Nominal Diameter (mm)	15	20	25	32	40	50	65	80	100	125	150	200	250	300
Max Flow Q4 (m ³ /h)	3.125	5	7.87	12.5	20	31.25	50	78.75	125	200	312.5	500	787.5	1250
Nominal Flow Q3 (m ³ /h)	2.5	4	6.3	10	16	25	40	63	100	160	250	400	630	1000
Transitional Flow Q2 (m ³ /h)	0.02	0.032	0.05	0.04	0.128	0.16	0.256	0.4	0.64	1.024	1.6	2.56	4.03	6.4
Min Flow Q1 (m ³ /h)	0.013	0.02	0.032	0.025	0.08	0.1	0.16	0.252	0.4	0.64	1	1.6	2.52	4
Protection class	IP68													
Measuring range	Q3/Q1 R125/ R160/ R200/ R250 /R400													
Accuracy Class	Class 2, Class B													
Battery Life	≥8years													
Temperature Class	T30, T50													
Pressure loss Class	ΔP63													
Flow profile sensitivity Class	U10/D5													
Electromagnetic environment	E1													
Working Pressure	1.6Mpa													
Max. Flow Indication (m ³)	999999.99													
Reverse Flow Indication (m ³)	999999.99													
Installation Position	Horizontal or Vertical													
Customizable special features	Identification ad alarm of pipeline leakage, explosion, and scaling													
Data storage	Storage of all monthly value of last 18 months													

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%.



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