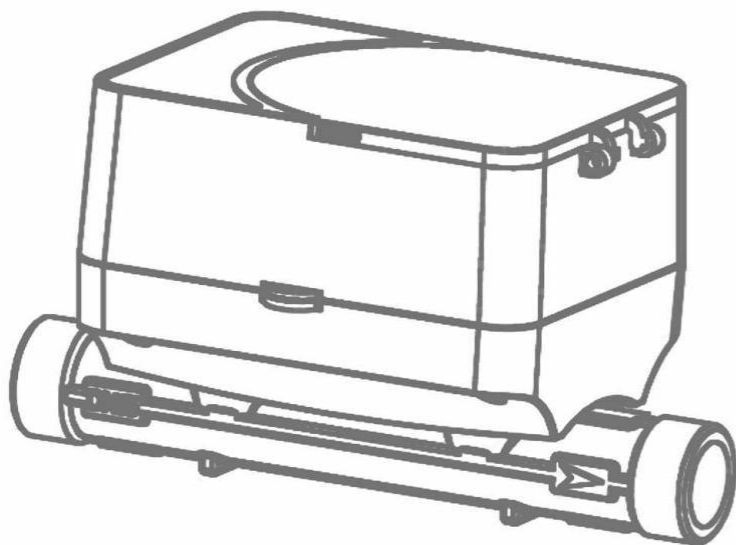




WATER METER

Catalogue:

Ultrasonic Water Meter



Model: LXC-15D-40D

Ultrasonic Water Meter

Feature:

- Cable interface options:
(1) M-BUS (2) RS-485 (3) Pulse output (4) LoRa
(5) LoRaWAN
- Size: DN15 to DN40mm, (1/2" – 1 1/2")
- Accuracy: R400 / R250
- Frequency: LoRa/ LoRaWAN 865MHz, 902MHz, 868MHz, 915MHz and Others



Main Technical Data:

Item	Parameter
Meter Type	Ultrasonic Water Meter
Nominal Diameter (mm)	DN15~DN40
Q3/Q1	DN15-DN25 R400,R250; DN32-DN40 R250
Measured medium	Water, homogeneous liquid, and filled with measured pipes.
Accuracy class	Class 2
Water pressure class	1.6MAP (16 bar)
Pressure-loss class	DN15/DN20:Δp40 DN25/DN32/DN40:Δp63
Temperature class	T50
Installation position	H/V
The installation sensitivity	U10/D5
Electromagnetic class	E1
Environmental class	B
Key-press	Magnetic induction key
Types of Indicating device	LCD:8-digits, 0~9999.9999m ³
Menu Contents	Instantaneous flow (m ³ /h), cumulative flow (m ³), screen detection, table address, cumulative working time (h), date (year/month/day), caliber, software version
Communication Interface	Photoelectric
Power Source	Lithium battery ER26500(replaceable)
Battery Voltage &Capacity	3.6V , 8500mAh
Life span	10 years.
IP code	IP68
Storage Temperature	-25℃~+55℃
Cable length	1.0 m

Model: LXC-15D-40D

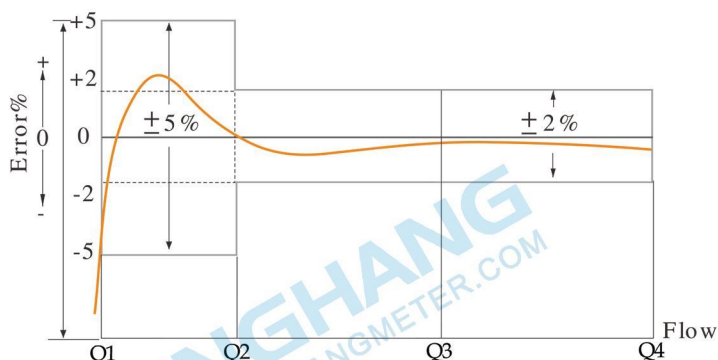
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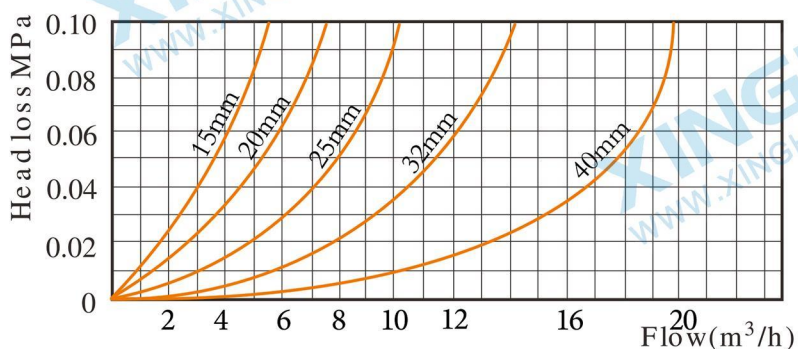
Flow Rate:

Parameter	Unit	Data Value				
Nominal Diameter		DN15	DN20	DN25	DN32	DN40
Start flow rate	m³/h	0.002	0.002	0.003	0.005	0.005
Qmin(Q1)		0.00625	0.01	0.01575	0.04	0.064
QTransitional(Q2)		0.01	0.016	0.0252	0.064	0.1024
Qn/permanent(Q3)		2.5	4	6.3	10	16
Qoverload(Q4)		3.125	5	7.87	12.5	20
Range		400			250	
Temperature		T50				
Battery life	Year	>10				

Error Curve:

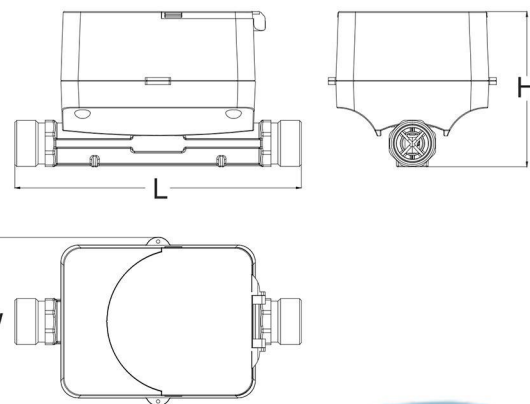


Head Loss Curve:



Dimensions:

Nominal Diameter (mm)	DN15	DN20	DN25	DN32	DN40
Thread	G3/4B	G1B	G1 1/4B	G1 1/2B	G2B
L(mm)	165	195	225	180	200
H(mm)	85	90	95	115	125
W(mm)	85	85	85	85	85



WORKING CONDITION:

Water temperature: ≤50°C for cold water meter

Water pressure: ≤16 Bar



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Model: LXC-15G-40G

Ultrasonic Water Meter

Feature:

- Cable interface options:
(1) M-BUS (2) RS-485 (3) Pulse output (4) LoRa
(5) LoRaWAN
- Size: DN15 to DN40mm, (1/2" – 1 1/2")
- Accuracy: R400 / R250
- Frequency: LoRa/ LoRaWAN 865MHz, 902MHz, 868MHz, 915MHz and Others



Main Technical Data:

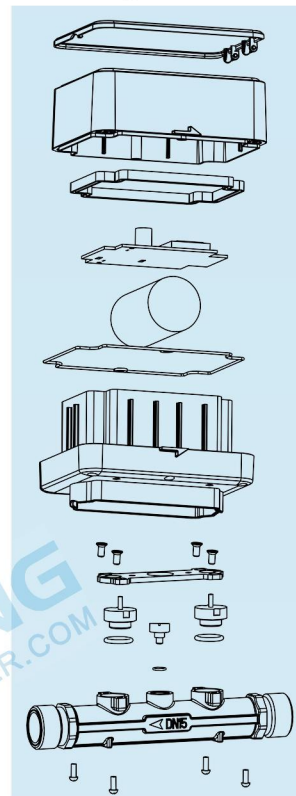
Item	Parameter
Meter Type	Ultrasonic Water Meter
Nominal Diameter (mm)	DN15~DN40
Q3/Q1	DN15-DN25 R400,R250; DN32-DN40 R250
Measured medium	Water, homogeneous liquid, and filled with measured pipes.
Accuracy class	Class 2
Water pressure class	1.6MAP (16 bar)
Pressure-loss class	DN15/DN20:Δp40 DN25/DN32/DN40:Δp63
Temperature class	T50
Installation position	H/V
The installation sensitivity	U10/D5
Electromagnetic class	E1
Environmental class	B
Key-press	Magnetic induction key
Types of Indicating device	LCD:8-digits, 0~9999.9999m ³
Menu Contents	Instantaneous flow (m ³ /h), cumulative flow (m ³), screen detection, table address, cumulative working time (h), date (year/month/day), caliber, software version
Communication Interface	Photoelectric
Power Source	Lithium battery ER26500(replaceable)
Battery Voltage &Capacity	3.6V , 8500mAh
Life span	10 years.
IP code	IP68
Storage Temperature	-25℃~+55℃
Cable length	1.0 m

Model: LXC-15G-40G

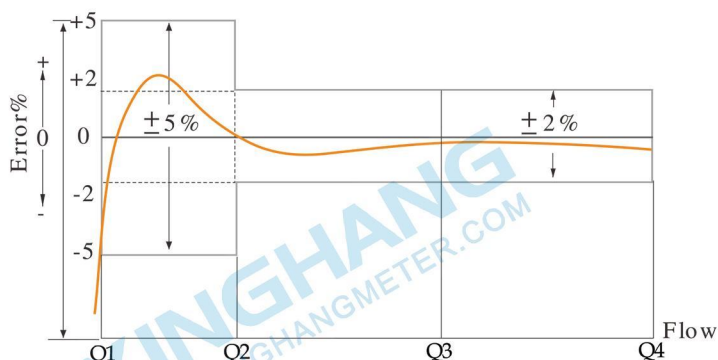
Drawing:

Flow Rate:

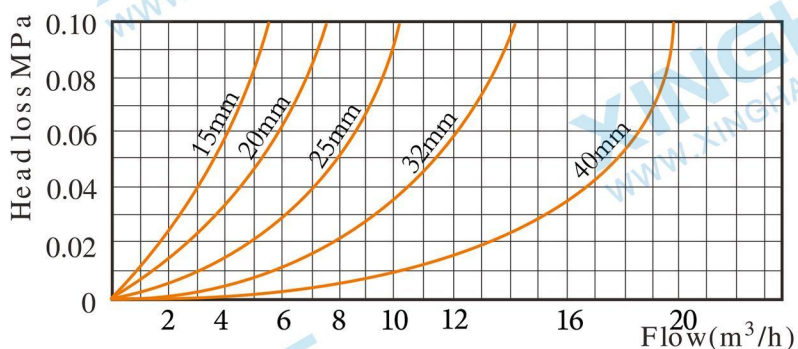
Parameter	Unit	Data Value				
Nominal Diameter		DN15	DN20	DN25	DN32	DN40
Start flow rate	m³/h	0.002	0.002	0.003	0.005	0.005
Qmin(Q1)		0.00625	0.01	0.01575	0.04	0.064
QTransitional(Q2)		0.01	0.016	0.0252	0.064	0.1024
Qn/permanent(Q3)		2.5	4	6.3	10	16
Qoverload(Q4)		3.125	5	7.87	12.5	20
Range		400			250	
Temperature		T50				
Battery life	Year	>10				



Error Curve:

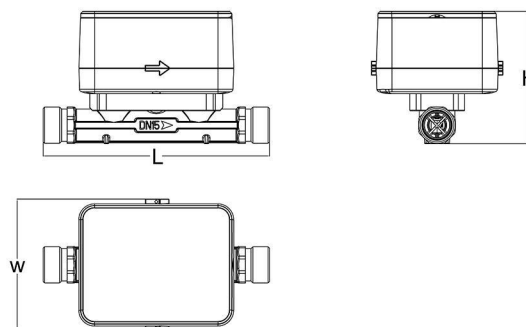


Head Loss Curve:



Dimensions:

Nominal Diameter (mm)	DN15	DN20	DN25	DN32	DN40
Thread	G3/4B	G1B	G1 1/4B	G1 1/2B	G2B
L(mm)	165	195	225	180	200
H(mm)	85	90	95	115	125
W(mm)	85	85	85	85	85



WORKING CONDITION:

Water temperature: ≤50℃ for cold water meter

Water pressure: ≤16 Bar



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Model: LXC-15F-40F

Ultrasonic Water Meter

Feature:

- Cable interface options:
(1) M-BUS (2) RS-485 (3) Pulse output (4) LoRaWAN
- Size: DN15 to DN40mm, (1/2" – 1 1/2")
- Accuracy: R160
- Waterproof standard: IP 68
- Frequency: LoRaWAN 865MHz, 902MHz, 868MHz, 915MHz and Others



Main Technical Data:

Item	Parameter
Meter Type	Ultrasonic Water Meter
Nominal Diameter (mm)	DN15~DN40
Q3/Q1	R160
Measured medium	Water, homogeneous liquid, and filled with measured pipes.
Accuracy class	Class 2
Water pressure class	1.6MAP (16 bar)
Pressure loss	<63kPa
Temperature class	T50
Installation position	H/V
The installation sensitivity	U10/D5
Environmental Requirement	Environment Class: E1, M1, B
Key-press	Magnetic induction key
Types of Indicating device	LCD:8-digits, 0~9999.9999m ³
Menu Contents	Instantaneous flow (m ³ /h), cumulative flow (m ³), screen detection, table address, cumulative working time (h), date (year/month/day), caliber, software version
Interface & Communication	M-Bus, RS-485, Pulse Output, LoRaWAN
Data Storage	48 months history data
Battery	3.6VDC lithium battery
Life span	10 years.
IP code	IP68
Storage Temperature	-20℃~+60℃
Cable length	1.0 m

Model: LXC-15F-40F

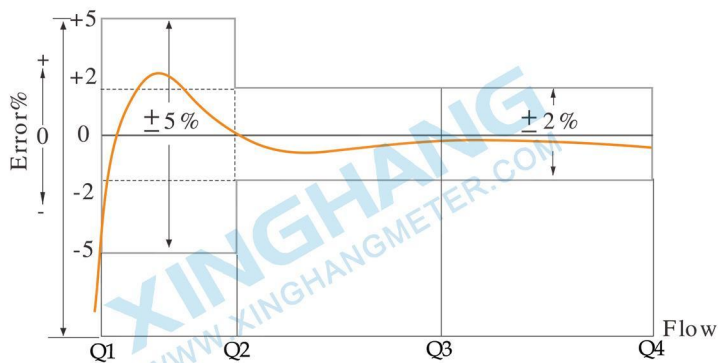
Drawing:

Flow Rate:

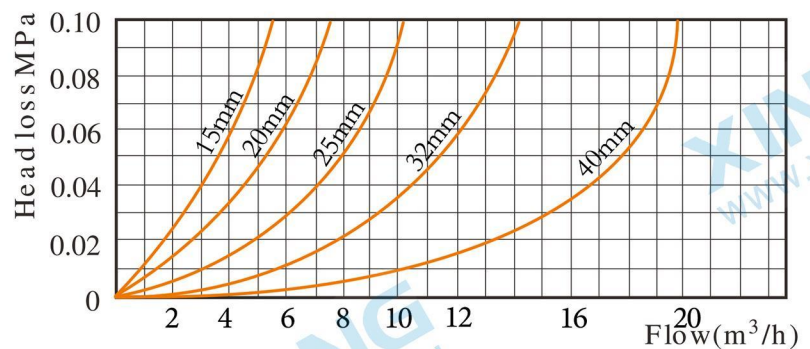
Parameter	Unit	Data Value				
Nominal Diameter		DN15	DN20	DN25	DN32	DN40
Start flow rate		0.002	0.002	0.003	0.005	0.005
Qmin(Q1)	m ³ /h	0.0156	0.025	0.0393	0.0625	0.1
QTransitional(Q2)		0.025	0.04	0.063	0.1	0.16
Qn/permanent(Q3)		2.5	4	6.3	10	16
Qoverload(Q4)		3.125	5	7.87	12.5	20
Range		160				
Temperature		T50				
Battery life	Year	10				



Error Curve:

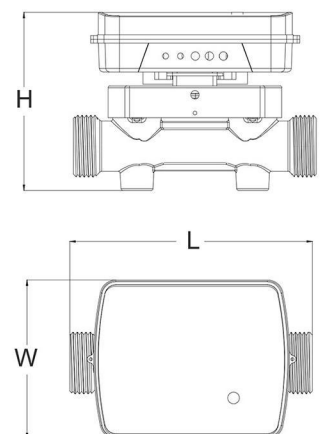


Head Loss Curve:



Dimensions:

Nominal Diameter(mm)	DN15	DN20	DN25	DN32	DN40
Thread	G3/4B	G1B	G1 1/4B	G1 1/2B	G2B
L(mm)	110	130	160	180	200
H(mm)	102	110	120	125	130
W(mm)	95	95	95	95	95



WORKING CONDITION:

Water temperature: ≤50°C for cold water meter

Water pressure: ≤16 Bar



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Model: LXC-15B-25B

Ultrasonic Water Meter

Feature:

- Cable interface options:
(1) M-BUS (2) RS-485 (3) Pulse output (4) LoRa
(5) LoRaWAN
- Size: DN15 to DN25mm, (1/2" – 1")
- Accuracy: R250
- Waterproof standard: IP 68

Main Technical Data:

Item	Parameter
Meter Type	Ultrasonic Water Meter
Nominal Diameter (mm)	DN15~DN25
Q3/Q1	R250
Measurmedium	Water, homogeneous liquid, and filled with measured pipes.
Accuracy class	Class 2
Water pressure class	1.6MAP (16 bar)
Pressure-loss class	$\Delta p40$
Temperature class	T50
Installation position	H/V
The installation sensitivity	U10/D5
Electromagnetic class	E1
Environmental class	C
Key-press	Touch control technology
Types of Indicating device	LCD:9-digits, 0~99999.9999m ³
Menu Contents	Instantaneous flow (m3/h), cumulative flow (m3), screen detection, table address, cumulative working time (h), date (year/month/day), caliber, software version
Communication Interface	M-bus, RS485, Pulse Output, LoRa, LoRaWAN
Power Source	Lithium battery ER26500(replaceable)
Battery Voltage &Capacity	3.6V , 8500mAh
Life span	10 years.
IP code	IP68
Storage Temperature	-25℃~+55℃
Cable length	1.0 m

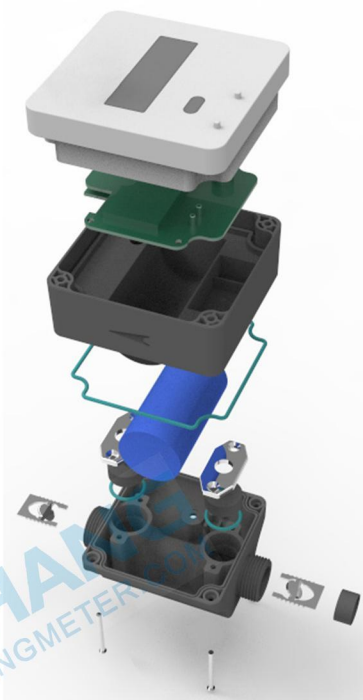


Model: LXC-15B-25B

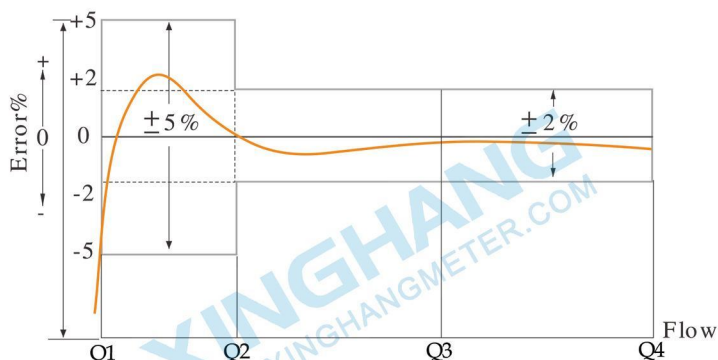
Drawing:

Flow Rate:

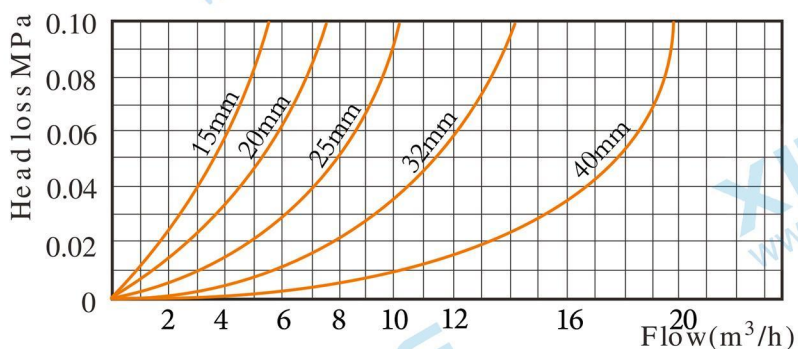
Parameter	Unit	Data Value		
Nominal Diameter		DN15	DN20	DN25
Start flow rate		0.003	0.005	0.005
Qmin(Q1)	m³/h	0.01	0.016	0.0252
QTransitional(Q2)		0.016	0.0256	0.040
Qn/permanent(Q3)		2.5	4.0	6.3
Qoverload(Q4)		3.125	5.0	7.875
Range ratio=Q3/Q1		250		
Temperature		T50		
Battery life	Year	10		



Error Curve:

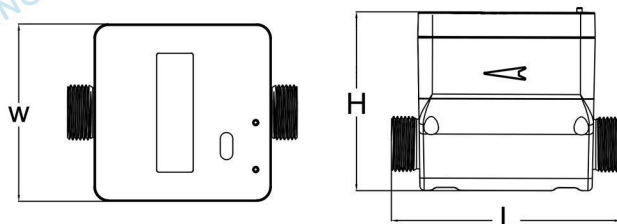


Head Loss Curve:



Dimensions:

Nominal Diameter(mm	DN15	DN20	DN25
Thread	G3/4B	G1B	G1 1/4B
L(mm)	110	130	160
H(mm)	80	85	90
W(mm)	85	85	85



WORKING CONDITION:

Water temperature: ≤50°C for cold water meter

Water pressure: ≤16 Bar



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Model: LXC-15E-20E

Valve Control Water Meter

Feature:

- Cable interface options:
(1) M-BUS (2) RS-485 (3) LoRa (4) LoRaWAN
- Size: DN15 to DN20mm, (1/2" – 3/4")
- Accuracy: R250
- Frequency: LoRa/ LoRaWAN 865MHz, 902MHz, 868MHz, 915MHz and Others

Main Technical Data:

Item	Parameter
Meter Type	Ultrasonic Water Meter
Nominal Diameter (mm)	DN15~DN20
Q3/Q1	R250
Measured medium	Water, homogeneous liquid, and filled with measured pipes.
Accuracy class	Class 2
Frequency	868MHZ, 915MHZ
Water pressure class	1.6MAP(16 bar)
Pressure-loss class	$\Delta p40$
Temperature class	T30,T50
Installation position	H/V
The installation sensitivity	U10/D5
Electromagnetic class	E1
Environmental class	B
Key-press	Magnetic induction key
Types of Indicating device	LCD:8-digits, 0~99999.999m ³
Menu Contents	Instantaneous flow (m3/h), cumulative flow (m3), screen detection, table address, cumulative working time (h), date (year/month/day), caliber, software version
Communication Interface	Photoelectric
Power Source	Lithium battery ER26500(replaceable)
Battery Voltage &Capacity	3.6V , 8500mAh
Life span	10 years.
IP code	IP68
Storage Temperature	-25℃~+55℃
Cable length	1.0 m

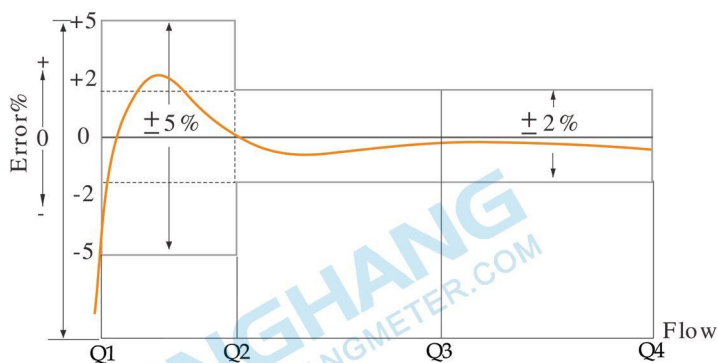


Model: LXC-15E-20E

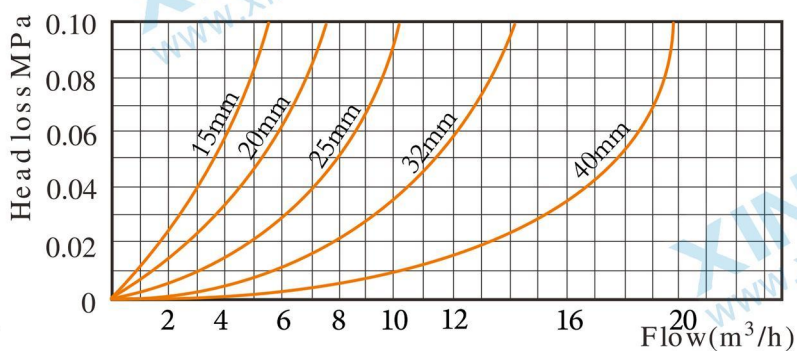
Flow Rate:

Parameter	Unit	Data Value	
Nominal Diameter		DN15	DN20
Qmin(Q1)	L/h	10	16
QTransitional(Q2)		16	25.6
Qn/permanent(Q3)	m³/h	2.5	4
Qoverload(Q4)		3.125	5
Range ratio=Q3/Q1		250	
Temperature		T50	
Battery life	Year	>10	

Error Curve:

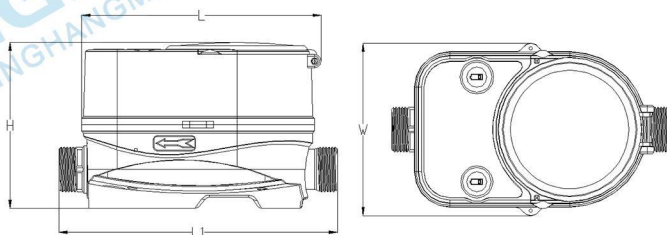


Head Loss Curve:



Dimensions:

Nominal Diameter(mm	DN15	DN20
Thread	G3/4B	G1B
L(mm)	165	195
H(mm)	98.2	98.2
W(mm)	102	102



WORKING CONDITION:

Water temperature: ≤50°C for cold water meter

Water pressure: ≤16 Bar



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Model: LXC-50H-300H

Ultrasonic Water Meter

Feature:

- Cable interface options:
(1) M-BUS (2) RS-485 (Modbus) (3) Pulse output
(4) LoRaWAN
- Size: DN50 to DN300mm, (2" – 12")
- Accuracy: R160
- Frequency: LoRa/ LoRaWAN 865MHz, 902MHz, 868MHz, 915MHz and Others



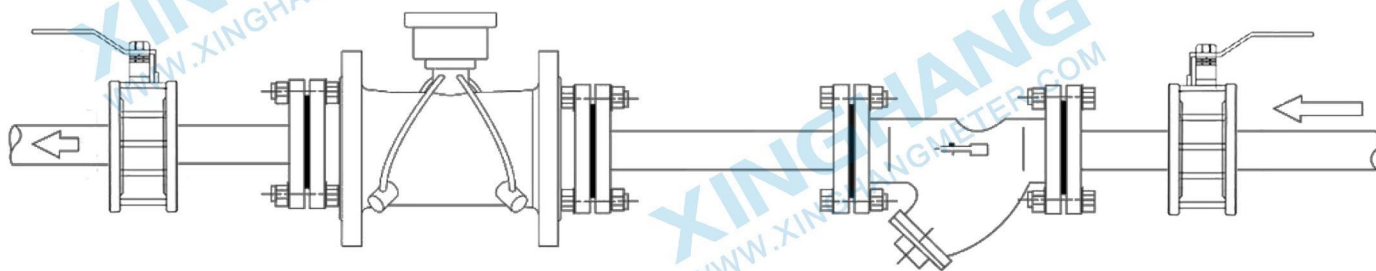
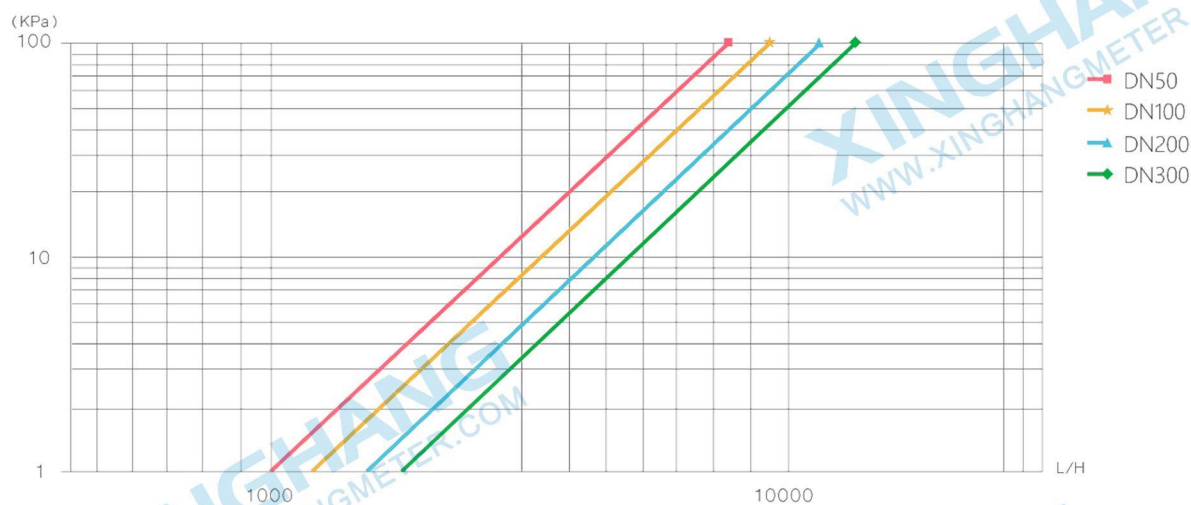
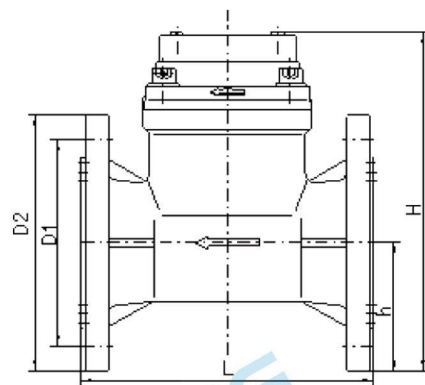
Main Technical Data:

Diameter	Permanent Q3 (m³/h)	Transitional Q2 (m³/h)	Minimum Q1 (m³/h)	Overload Q4 (m³/h)
DN50	25	0.25	0.15625	31.25
DN65	40	0.4	0.25	50
DN80	63	0.63	0.39375	78.75
DN100	100	1	0.625	125
DN125	160	1.6	1	200
DN150	250	2.5	1.5625	312.5
DN200	400	4	2.5	500
DN250	630	6.3	3.9375	787.5
DN300	1000	10	6.25	1250
Accuracy Class	Class 2			
Range Ratio	R160			
Pressure Loss	Δp40			
Maximum Working Pressure (MPa)	1.0			
Data Storage	Data storage for continual 48 months			
Power-off Protection	The data of accumulated flow and corresponding time will be saved once power failure takes place, and the meter works automatically as soon as the power restoration			
Remote Transmission	LoRaWAN, M-bus Remote Transmission, RS485(Modbus protocol), Pulse Output			
Power Supply	Lithium Battery Power Supply/M-BUS Remote Power Supply			
Protection Class	IP68			
Medium Temperature Range	0.1°C...30°C / 0.1°C...50°C / 0.1°C...90°C			
Ambient Temperature Range	-20°C...55°C			
Environment	E1, M1, B			
Flow Field Sensitivity	U10/D5			
Installation	Horizontal or Vertical			
Service Life	life Time≥10 years			

Model:LXC-50H-300H

Dimensions:

Nominal Diameter	L(mm)	H(mm)	W(mm)	Md	Bolt Hole Qty
DN50	200	220	170	M16	4
DN65	200	240	185	M16	4
DN80	225	255	250	M16	8
DN100	250	275	270	M16	8
DN125	250	305	300	M16	8
DN150	300	335	330	M20	8
DN200	350	395	380	M20	12
DN250	450	460	415	M24	12
DN300	500	510	470	M24	12



WORKING CONDITION:

Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Water pressure: ≤ 16 Bar



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Model: LXC-50D-200D

Ultrasonic Water Meter

Feature:

- Cable interface options:
(1) M-BUS (2) RS-485 (Modbus) (3) Pulse output
(4) LoRaWAN
- Size: DN50 to DN200mm, (2" – 8")
- Accuracy: R200
- Frequency: LoRa/ LoRaWAN 865MHz, 902MHz, 868MHz, 915MHz, etc



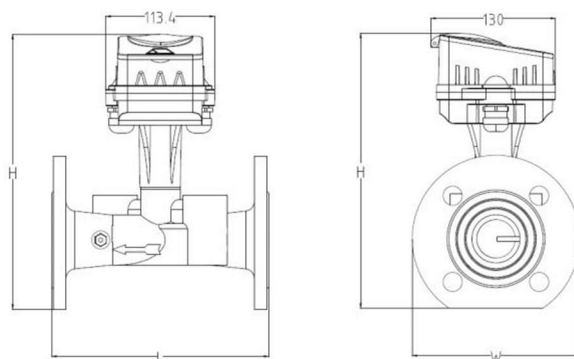
Main Technical Data:

Diameter	Permanent Q3 (m³/h)	Transitional Q2 (m³/h)	Minimum Q1 (m³/h)	Overload Q4 (m³/h)
DN50	25	0.2	0.125	31.25
DN65	40	0.32	0.2	50
DN80	63	0.504	0.315	78.75
DN100	100	0.8	0.5	125
DN125	160	1.280	0.8	200
DN150	250	2	1.250	312.5
DN200	400	3.2	2	500
Measurement Accuracy	Q2≤Q≤Q4 ±2%, Q1≤Q<Q2 ±5%			
Range Ratio	Q3/Q1=200, Q2/Q1=1.6, Q4/Q3=1.25			
Connection	flanged joint			
Pressure Loss	Δp40			
Pressure Level	MAP10 or MAP16			
Data Storage	Data storage for continual 18 months			
Power-off Protection	The data of accumulated flow and corresponding time will be saved once power failure takes place, and the meter works automatically as soon as the power restoration			
Remote Transmission	Standard Infrared, LoRaWAN, M-bus Remote Transmission, RS485(Modbusprotocol), Pulse Output			
Power Supply	Lithium Battery Power Supply/M-BUS Remote Power Supply			
Protection Class	IP68			
Work Environment	Temperature: -25°C~+55°C, Environment Relative Humidity: <90%			
Installation	Horizontal or Vertical			
Service Life	life Time≥6 years			

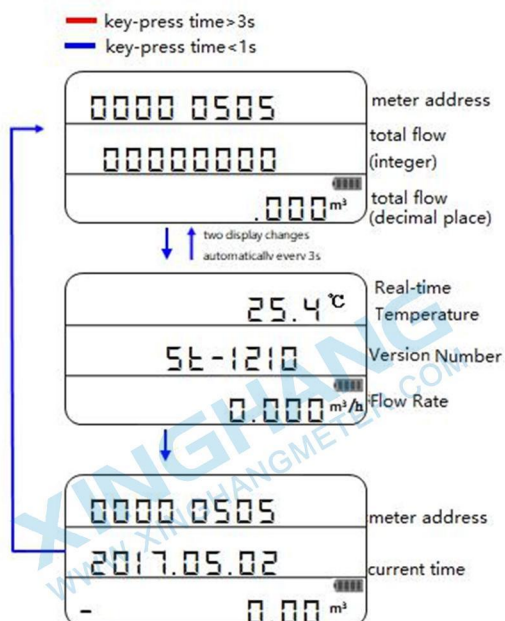
Model:LXC-50D-200D

Dimensions:

Nominal Diameter	L(mm)	H(mm)	W(mm)	Md	Bolt Hole Qty
DN50	200	220	170	M16	4
DN65	200	240	185	M16	4
DN80	225	255	250	M16	8
DN100	250	275	270	M16	8
DN125	250	305	300	M16	8
DN150	300	335	330	M20	8
DN200	350	395	380	M20	8



User Menu:

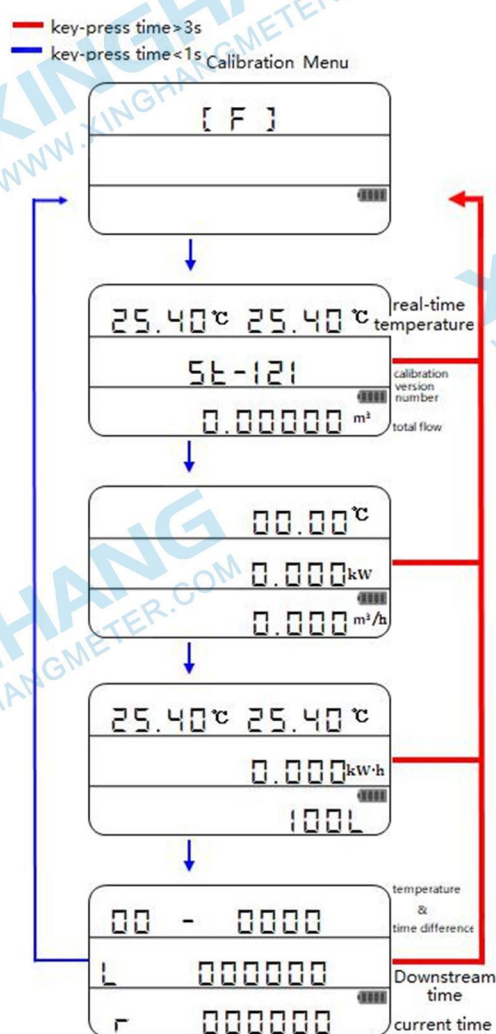


WORKING CONDITION:

Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Water pressure: ≤ 16 Bar

Verification Menu:



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