

Ultrasonic Water Meter

Smart high accuracy ultrasonic water
Meter without valve part
Suitable for multi communication way





511B Ultrasonic Water Meter

Product Features

- Product application for residential water, pure water, drinking water metering
- Pipe material: copper/Nylon PPA
- Compact size
- Ultrasonic metering, no mechanical wear and tear, with excellent reliability and stability.
- Accuracy level: Grade 2
- Range ratio: R100/R125/R160/R250/R400
- Temperature level: T30/T50/70
- National standard: GB/T 778; ISO 4064
- With water dripping, burst pipe alarm function
- Communication interface diversity: M-BUS/RS485/pulse/LoRaWan/NB-IoT/Zigbee/4G/wMBUS
- Replaceable battery design



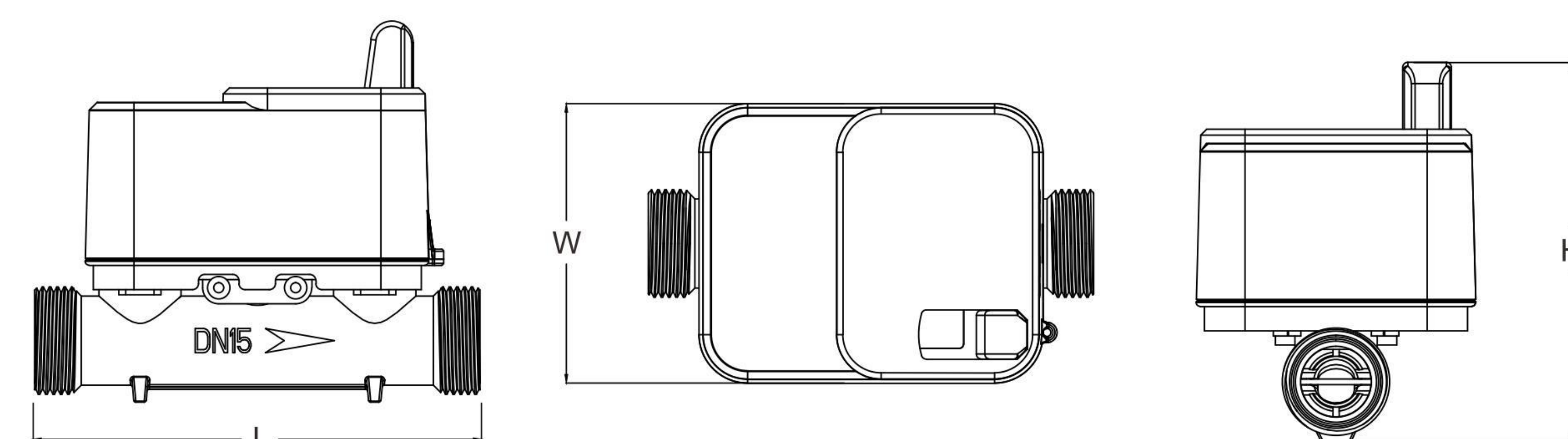
Technical Parameter

Performance	Parameter		
Diameter	DN15	DN20	DN25
Length(mm)	110/165	130/195	160/225
Q ₃ (m ³ /h)	2.5	4	6.3
Starting flow rate (L/h)	2	2	3
Measuring range ratio	Q ₃ /Q ₁ =100/125/160/200/250/400;		
Accuracy Class	Class 2		
Pressure Rating	MAP16	Pressure loss	≤0.063MPa
Temperature Rating	T30/T50/T70; Default T30		
Data Storage	with daily storage, daily freeze, monthly storage, monthly freeze, annual storage (Customizable data storage mode according to customer requirements)		
Remote mode	Optical/M-BUS/RS485/pulse/LoRaWan/NB-IoT/Zigbee/4G/wMBUS (according to the demand configuration)		
Power supply	DC3.6V Lithium Battery		
Protection Class	IP68		
Environmental	Temperature:-25°C~+55°C		
Installation	Horizontal or Vertical		
Battery life	Life Period ≥ 6 years		
Flow measure	Reverse flow is measurable		
Stream Field Sensitivity	U0D0		

External Dimensions

Nominal Diameter	DN15	DN20	DN25
Thread	G $\frac{3}{4}$ B	G1B	G $\frac{1}{4}$ B
L(mm)	110/165	130/195	160/225
H(mm)	94	98.7	105.3
W(mm)	69	69	69

Customised threads available



515A Ultrasonic Water Meter Valve control



Product Features

- Product applications in water supply metering
- Intelligent control, remote valve control, automatic valve cleaning
- Pipe material: copper
- Ultrasonic metering, no mechanical wear and tear, excellent reliability and stability
- Accuracy level: Grade 2
- Range ratio: R100/R125/R160/R250/R400
- Temperature grade: T30/T50/70
- National standard: GB/T 778; ISO 4064
- With water dripping, burst pipe alarm function
- Communication interface diversity: M-BUS/RS485/pulse/LoRaWan/NB-IoT/Zigbee/4G/wMBUS
- NTC with temperature sensor NTC
- Replaceable Battery
- With Customisable manual on/off valve options

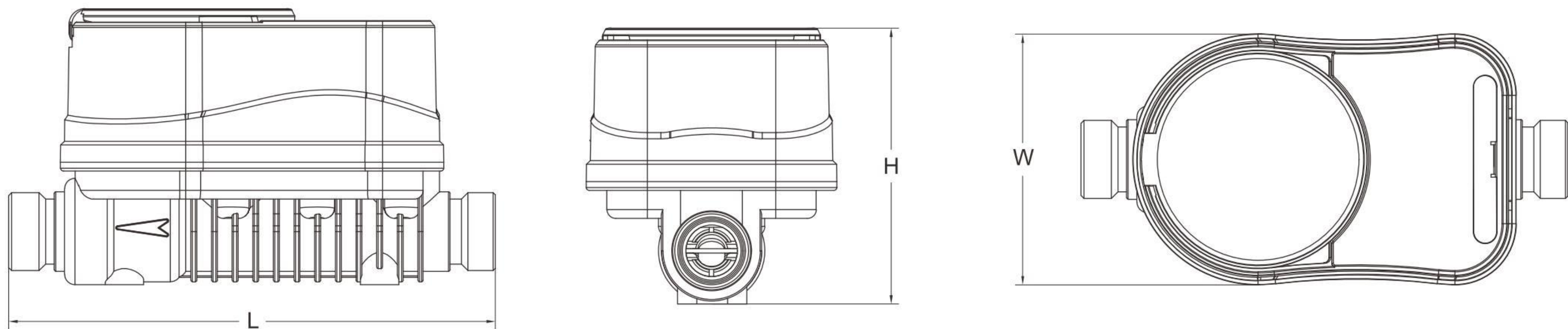
Technical Paprameter

Item	Parameter		
Nominal calibre	DN15	DN20	DN25
Length(mm)	165	195	225
Q ₃ (m ³ /h)	2.5	4	6.3
Start flow (L/h)	2	2	3
Measuring range ratio	Q ₃ /Q ₁ =100/125/160/200/250/400;		
Accuracy Class	Class 2		
Pressure Rating	MAP16	Pressure loss rating	≤0.063MPa
Temperature Rating	T30/T50/T70; Default T30		
Data Storage	with daily storage, daily freeze, monthly storage, monthly freeze, annual storage (Customizable data storage mode according to customer requirements)		
Remote transmission method	Optical/M-BUS/RS485/NB-IoT/LoRaWAN/4G/Pulse/wMBUS; (configured on demand)		
Power supply	DC3.6V Lithium Battery		
Protection Class	IP68		
Working environment	Temperature:-25°C~+55°C		
Installation position	Horizontal or Vertical		
Battery life	Life Period ≥ 6 years		
Flow measure	Reverse flow is measurable		
Stream Field Sensitivity	U0D0		

External Dimensions

Nominal Diameter	DN15	DN20	DN25
Thread	G¾B	G1B	G¾B
L(mm)	165	195	225
H(mm)	93.5	97.5	101
W(mm)	85	85	85

Customised threads available



515W Valve Control Ultrasonic Water Meter



Product Features

- Product applications in water supply metering
- Intelligent control, remote valve control, automatic valve cleaning
- Pipe material: copper/PA66
- Ultrasonic metering, no mechanical wear and tear, excellent reliability and stability
- Accuracy level: Grade 2
- Range ratio: R100/R125/R160/R250
- Temperature grade: T30/T50/70
- National standard: GB/T 778; ISO 4064
- With water dripping, burst pipe alarm function
- Communication interface diversity: M-BUS/RS485/pulse/LoRaWan/NB-IoT/Zigbee/4G/wMBUS
- Replaceable battery design

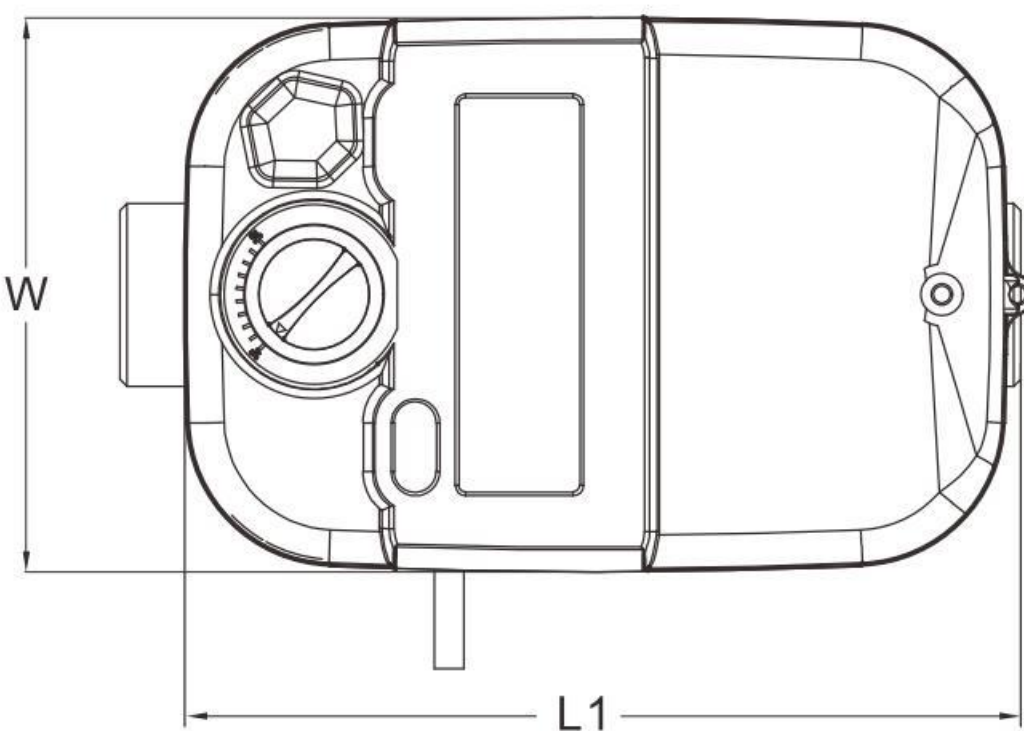
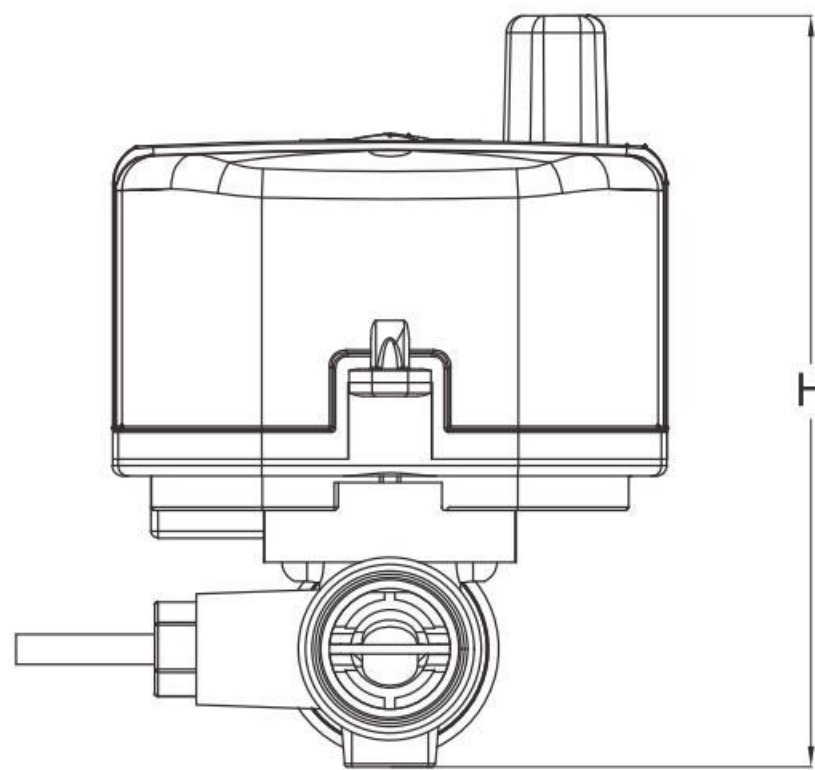
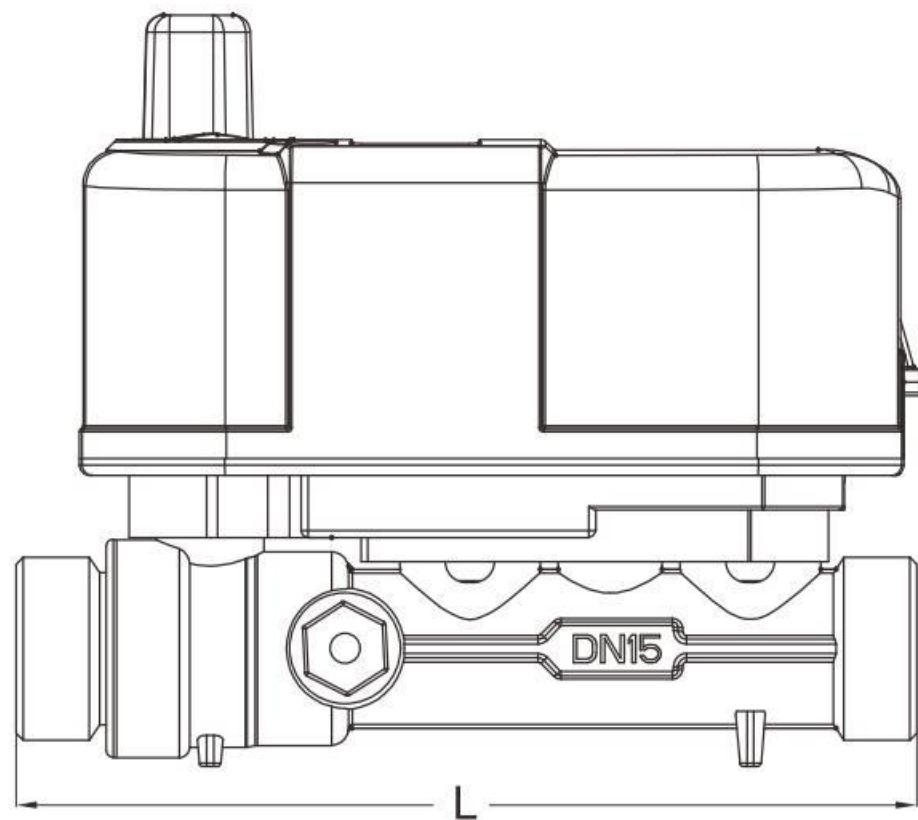
Technical Paprameter

Item	Parameter		
Nominal calibre	DN15	DN20	DN25
Length(mm)	130	130	160
Q ₃ (m ³ /h)	2.5	4	6.3
Start flow (L/h)	2	2	3
Measuring range ratio	Q ₃ /Q ₁ =100/125/160/200/250;		
Accuracy Class	Class 2		
Pressure Rating	MAP16	Pressure loss	≤0.063MPa
Temperature Rating	T30/T50/T70; Default T30		
Data Storage	with daily storage, daily freeze, monthly storage, monthly freeze, monthly freeze, annual storage (Customizable data storage mode according to customer requirements)		
Remote transmission method	Optical/M-BUS/RS485/NB-IoT/LoRaWAN/4G/Pulse/wMBUS; (Optional)		
Power supply	DC3.6V Lithium Battery		
Protection Class	IP68		
Working environment	Temperature:-25°C~+55°C		
Installation position	Horizontal or Vertical		
Battery life	Life Period ≥ 6 years		
Flow measure	Reverse flow is measurable		
Stream Field Sensitivity	U0D0		

External Dimensions

Nominal Diameter	DN15	DN20	DN25
Thread	G¾B	G1B	G¾B
L(mm)	130	130	160
L1(mm)	123	123	123
H(mm)	108.5	112.5	117.8
W(mm)	80	80	80

Customised threads available

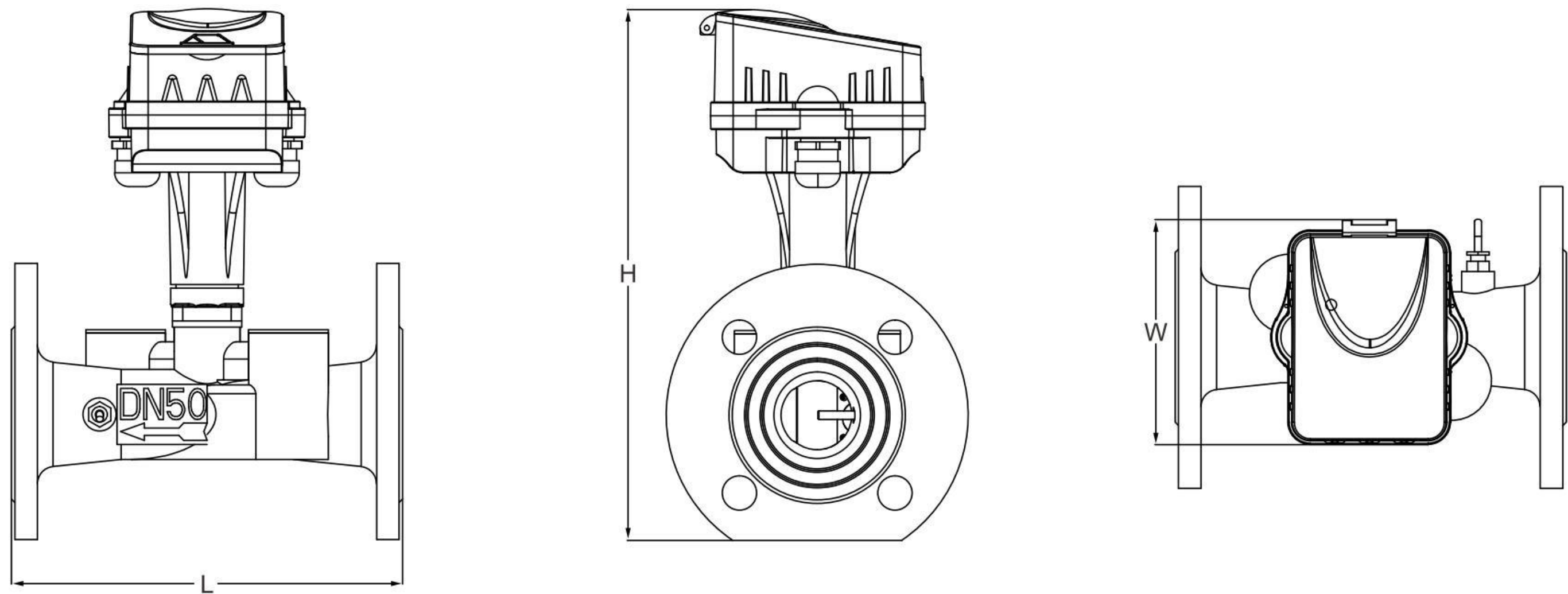


Technical Paprameter

Performance	Parameter				
Diameter	Flow parameters				Length
	Q ₁ (m ³ /h)	Q ₂ (m ³ /h)	Q ₃ (m ³ /h)	Q ₄ (m ³ /h)	mm
DN50	0.1	0.16	25	31.25	200
DN65	0.156	0.25	40	50	200
DN80	0.25	0.4	63	78.75	225
DN100	0.394	0.63	100	125	250
DN125	0.625	1.0	160	200	250
DN150	1.1	1.6	250	312.5	300
DN200	1.563	2.5	400	500	350
Accuracy Class	Class 2				
Connection	Flange connection				
Pressure Loss	≤0.025MPa				
Pressure	≤1.6MPa				
Meteorologic	Q ₃ /Q ₁ =250				
Data Storage	18 months history data				
Interface & Communication	Optical/MBUS/RS485/Pulse/LoRaWan/NB-IoT/Zigbee/4G (Default, one communication per day)				
Power	DC3.6V Lithium Battery /External DC24V(Flange meter)				
Protection Class	IP68				
Environmental	Temperature: -25°C~ +55°C				
Installation	Horizontal or Vertical				
Battery life	Life Period ≥ 4 years				
Flow measure	Reverse flow is measurable				
Stream Field Sensitivity	U0D0				

External Dimensions

Nominal Diameter	DN50	DN65	DN80	DN100	DN125	DN150	DN200
L(mm)	200	200	225	250	250	300	350
H(mm)	175	182	200	200	250	280	340
W(mm)	292	333	348	368	380	410	480
NXD	4×18	4×18	8×18	8×18	8×18	8×18	8×18



Product Features

- Product application in water supply measurement
- Pipe material: 3.6V Lithium battery/External DC24V
- Ultrasonic metering, no mechanical wear and tear, with excellent reliability and stability
- Accuracy level: Class 2
- Range ratio: R100/R125/R160//R250
- Temperature grade: T30/T50/70
- Conform to national standards: GB/T 778; ISO 4064
- Communication interface diversity: M-BUS/RS485/Pulse/LoRaWan/NB-IoT/Zigbee/4G
- The pipeline adopts a recessed structure