

WM9100 Series Ultrasonic Water Meter DN32-DN40

Product Description

WM9100Series Ultrasonic Water Meter is used for measuring and display water flow.

Nominal Diameter: DN32, DN40



Product Features

- ◆ With rectifier function, low installation requirement of straight pipe.
- ◆ Dual channel structure, wide range.
- ◆ Suitable for mass flow and tiny flow measurement.
- ◆ The integrated design of flow, pressure and wireless reading meets monitoring pipeline requirements.
- ◆ Configured with remote data collector, remotely connect to smart metering platform.
- ◆ IP68 protection class, to ensure long term underwater working.
- ◆ Low consumption design, double d size batteries can continuously work for 15 years.
- ◆ Bi-directional measuring forward and reverse flow.
- ◆ Data storage function can save 10 years' data including day, month and year.
- ◆ 9 digits multi-line LCD display. Can display cumulative flow, instantaneous flow, flow, pressure, temperature, error alarm, flow direction etc. At the same time.
- ◆ Standard RS485 (Modbus) and OCT pulse, a variety options of NB-IoT, GPRS etc.
- ◆ Stainless steel 304 pipe which is tensile molding patent, electrophoresis with anti-scaling.
- ◆ According to sanitary standard for drinking water.

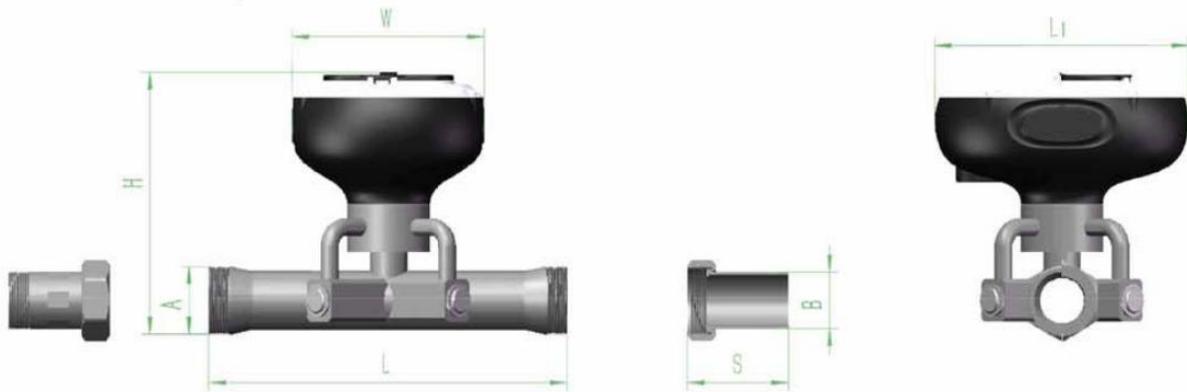
Technical Parameter

Max. Working Pressure	1.6Mpa
Temperature Class	T30, T50, T70, 790 (Default T30)
Accuracy Class	ISO 4064, Accuracy Class 2
Body Material	Stainless Steel 304 (opt. SS316L)
Battery Life	15 Years(Consumption≤0.3mW)
Protection Class	IP68
Environmental Temperature	-40°C ~ +70°C, ≤100%RH
Pressure Loss	△P10, △P16 (Based on different dynamic flow)
Climatic And Mechanical Environment	Class O
Electromagnetic Class	E2
Communication	RS485(baud rate is adjustable); Pulse, Opt. NB-IoT, GPRS
Display	9 digits multi-line LCD display. Can display cumulative flow, instantaneous flow, flow rate, pressure, temperature, error alarm, flow direction etc. at the same time
RS485	Default baud rate 9600bps (opt. 2400bps, 4800bps), Modbus-RTU
Connection	Thread
Flow Profile Sensitivity Class	U3/D0
Data Storage	Store the data, including day, month, and year for 10 years. The data can be permanently saved even powered off.
Frequency	1-4 times/second

Measure Range

Nominal Size	(mm)	32	40
	(inch)	1 1/4"	1 1/2"
Overload Flow Q4(m3/h)		20	31.25
Permanent Flow Q3(m3/h)		16	25
Transitional Flow Q2(m3/h)		0.051	0.08
Minimum Flow Q1(m3/h)		0.032	0.05
R=Q3/Q1		500	
Q2/Q1		1.6	

Dimensions & Weight



Nominal Diameter (mm)	32	40 (Optimization)	40
Installation without connection accessories (A)	G1 1/2 B	G1 3/4 B	G1 3/4 B
Installation with connection accessories (B)	G1 1/4	G1 1/2	G1 1/2
L (mm)	260	300	245
L1 (mm)	185	185	185
H (mm)	201	206	206
W (mm)	140	140	140
Length of connection accessories (S)	73.8	76.9	76.9
Weight (kg)	3.8	4.3	3.8

Remarks: Other length of pipe can be customized.

Configuration code

WM9100	WM9100 Series Ultrasonic Water Meter	
	Pipe Size	
	32	DN32
	40	DN40
	Power Supply	
	B	Battery (standard)
	D	24VDC + Battery
	Body Material	
	S	Stainless steel 304(standard)
	H	Stainless steel 316L
	Turndown Ratio	
	1	R500
	2	R400
	3	Others
	Output Selection	
	1	RS485 + OCT Pulse (standard)
	2	Others
	Optional Function	
	N	None
	1	Pressure measurement
	2	Built-in Remote Reading Function
	3	Both of them

WM9100 -DN32 -B -H -1 -1 -N (example configuration)

Description:

WM9100 Ultrasonic water meter, pipe size DN32, battery operated, stainless steel 304, R500; RS485 output; Without optional function;



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