Lanry

WM9100 Serials Water Meter

Product Description

WM9100-ED Residential ultrasonic water meter is used for measuring and display water flow.

Nominal Diameter: DN15~DN25

Product Features

◆ Full stainless steel body

◆ Measuring low starting flow

◆ No moving parts, accuracy will not change after long term working

◆ With functions of self-diagnosis, flow sensor Alarm, Temperature Sensor Alarm, Over Range Alarm and battery under voltage alarm

◆ Low consumption design, battery can continuously work for 10 years

◆ With optic electric interface, hand-held infrared meter reading tool can read directly

◆ Built-in wireless NB-IoT

◆ Stainless steel 316l is optional, meet the measurement of direct drinking water

◆ Bi-directional measuring forward and reverse flow

◆ According to sanitary standard for drinking water

Technical Parameter

Max. Working Pressure	1.6Mpa
Temperature Class	T30
Accuracy Class	ISO 4064, Accuracy Class 2
Body Material	Stainless SS304（opt. SS316L)
Battery Life	10 Years(Consumption≤0.3mW)
Protection Class	IP68
Environmental Temperature	-40～+70℃，≤100%RH
Pressure Loss	ΔP25（Based on different dynamic flow）
Climatic And Mechanical Environment	Class O
Electromagnetic Class	E2
Communication	Wired M-bus, RS485; Wireless LoRaWAN
Display	9 digits LCD display volume, flow rate, power alarm, flow direction, output etc.
Connection	Thread
Flow Profile Sensitivity Class	U5/D3
Data Storage	Store the latest 24 years' data including day, month and year, The data can be permanently saved even powered off
Frequency	1-4 times/second

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Product Description

WM9100-EV Residential Prepaid Ultrasonic Water Meter

Nominal Diameter: DN15~DN25

Product Features
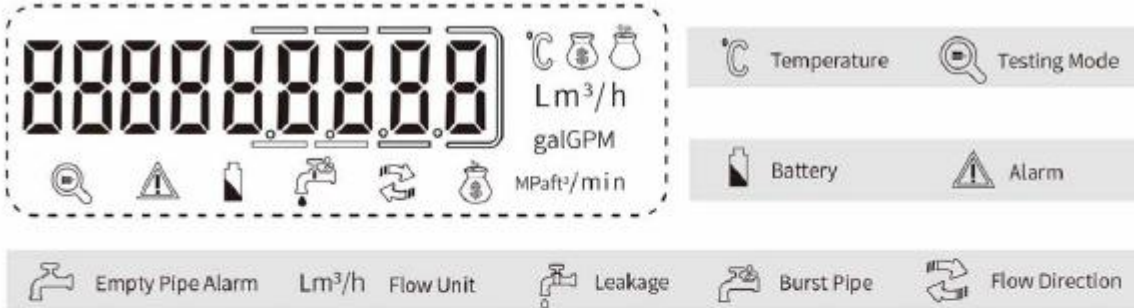
◆ Integrated meter and valve, fully enclosed structure, anti-vandalism

◆ Measuring low starting flow

◆ No moving parts, accuracy will not change after long term working

◆ With functions of self-diagnosis, flow sensor alarm, temperature sensor alarm, over range alarm, battery under voltage alarm and valve error alarm

◆ Low consumption design, battery can continuously work for 10 years

◆ With optic electric interface, hand-held infrared meter reading tool can read directly

◆ Support swiping card to recharge and manage system remote valve control.

◆ Bi-directional measuring forward and reverse flow

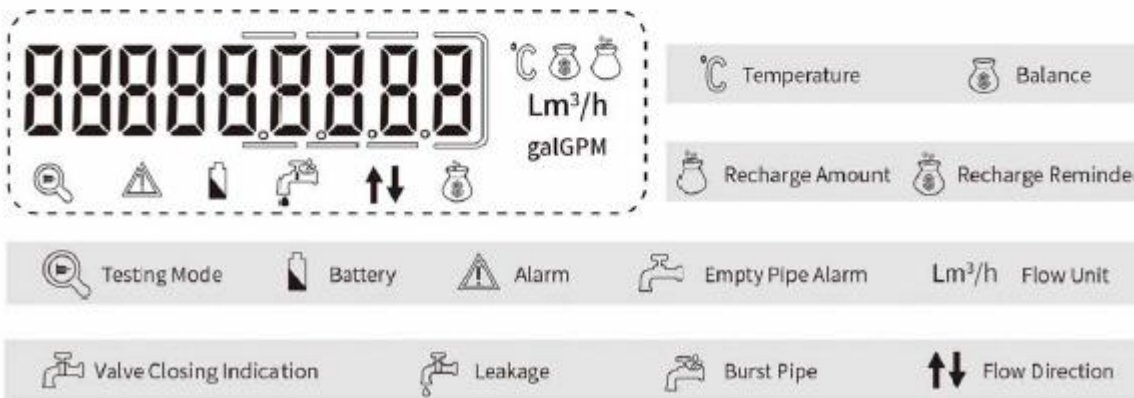◆ According to sanitary standard for drinking water

Technical Parameter

Max. Working Pressure	1.6Mpa
Temperature Class	T30
Accuracy Class	ISO 4064, Accuracy Class 2
Body Material	Stainless SS304（opt. SS316L)
Battery Life	10 Years(Consumption≤0.3mW)
Protection Class	IP68
Environmental Temperature	-40～+70℃，≤100%RH
Pressure Loss	ΔP25（Based on different dynamic flow）
Climatic And Mechanical Environment	Class O
Electromagnetic Class	E2
Communication	Wired M-bus, RS485; Wireless LoRaWAN
Display	9 digits LCD display volume, flow rate, power alarm, flow direction, output etc.
Connection	Thread
Flow Profile Sensitivity Class	U5/D3
Data Storage	Store the latest 24 years' data including day, month and year, The data can be permanently saved even powered off
Frequency	1-4 times/second

Digital Display

Residential Ultrasonic Water Meter Display >>>

°C Temperature   Testing Mode

Battery   Alarm

Empty Pipe Alarm   Lm³/h Flow Unit   Leakage   Burst Pipe   Flow Direction

Residential Prepaid Ultrasonic Water Meter Display >>>

°C Temperature   Balance

Recharge Amount   Recharge Reminder

Testing Mode   Battery   Alarm   Empty Pipe Alarm   Lm³/h Flow Unit

Valve Closing Indication   Leakage   Burst Pipe   Flow Direction

Measuring Range and Dimensions（R250）

Nominal Diameter	Permanent Flow Q3	Transitional Flow Q2	Minimum Flow Q1	Installation without connection accessories(A)	Installation with connection accessories（B)	L	L1	H	Length of connection accessories（S)	W
DN(mm)	(m3/h)					mm				
15	2.5	0.016	0.010	G¾B	R½	165	135	82	53.8	96
20	4.0	0.026	0.016	G1B	R¾	195	157	90	60	100
25	6.3	0.040	0.025	G1¼B	R1	225	165	96	70	100

Measuring Range and Dimensions（R400）

Nominal Diameter	Permanent Flow Q3	Transitional Flow Q2	Minimum Flow Q1	Installation without connection accessories(A)	Installation with connection accessories（B)	L	L1	H	Length of connection accessories（S)	W
DN(mm)	(m3/h)					mm				
15	2.5	0.016	0.006	G¾B	R½	165	135	82	53.8	96
20	4.0	0.026	0.010	G1B	R¾	195	157	90	60	100
25	6.3	0.040	0.016	G1¼B	R1	225	165	96	70	100

Configuration code

WM9100	WM9100 Ultrasonic Water Meter						
	ED Read directly						
	EV Valve Control						
		Pipe Size:					
		15 DN15					
		20 DN20					
		25 DN25					
			Power Supply:				
			B Battery (standard)				
			O others				
				Body Material:			
				S Stainless Steel 304 (standard)			
				H Stainless Steel 316L			
					Turndown Raido		
					RS R250		
					RH R400		
						Output:	
						R RS485 modbus	
						M Wired M-bus	
						W wireless m-bus	
						L LoRaWAN	
						N NB-IoT	

WM9100 - ED - 15 - B - S - RS - R   (Example configuration)