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ULTRASONIC WATER METER

B97 VPW

A groundbreaking remote valve control ultrasonic water meter, designed to revolutionize the market. Combining unparalleled precision and meticulous engineering, this innovative device features a built-in ball valve and advanced wireless transmission capabilities, enabling seamless remote valve control. Tailored to meet diverse customer needs, it delivers exceptional accuracy while addressing global water resource challenges, offering an efficient solution for modern water management systems.

Unique Design

Equipped with a motor-operated built-in ball valve, this device enables precise partial or full valve control. With options for internal or external antennas, it adapts to diverse signal transmission environments. The valve features an automated periodic rotation mechanism to clear potential deposits, ensuring reliable and uninterrupted performance in any application. A pressure sensor can be incorporated to carry out the water pressure monitoring.

Reinforced Protection

B97 VPW is designed with special material enclosure to sustain durable installation in rain, high humidity surroundings, and direct ultraviolet rays from the sun. No meter enclosure deformation in high temperature and high humidity by state of the art design of IP68 protection class of the B97 VPW water meter.

- Heat / Cold Resistance
- IP68
- UV Resistance
- High Durability
- Valve Control

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Durable Service

A high-performance motor paired with a stainless steel ball valve is engineered to endure over 20,000 valve rotations, ensuring exceptional durability and reliability. Additionally, the system incorporates a regular automatic rotation feature that effectively cleans the valve surface, removing any potential deposits to guarantee a smooth and uninterrupted operation.

IoT Ready

Multiple wireless transmission methods to facilitate remote data reading and valve operation, including LoRaWAN, Sigfox, NB-IoT, 4G, even prepaid mode can be realized (only with LoRaWAN).

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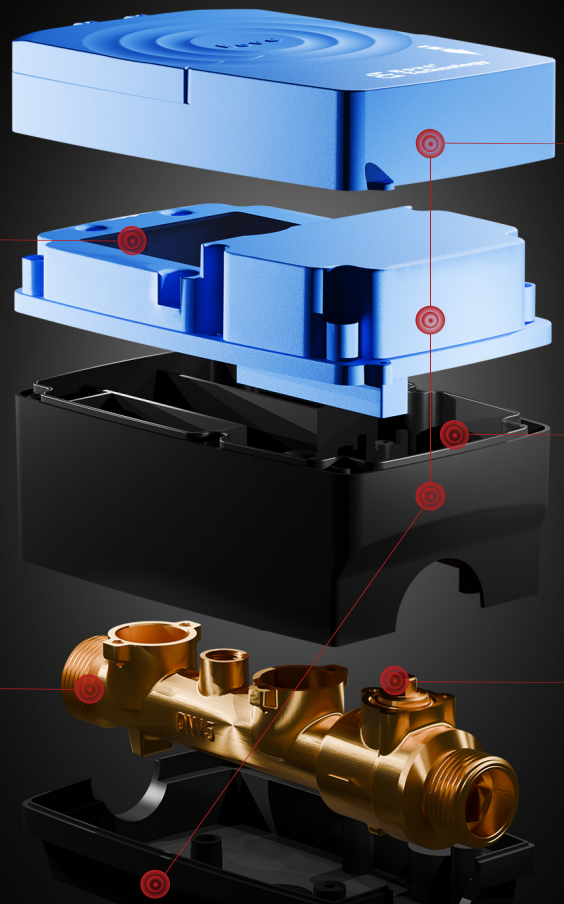

LCD

Comprehensive LCD functionality with protector.

UPPER SHELL & BODY

Strong ASA material resistant to impact and UV radiation.

ELECTRIC MOTOR

High-performance motor used to control the opening and closing of the valve.

PIPE

Brass or stainless steel material.

VALVE CONTROL

Built-in stainless steel ball valve activated by electric motor can be remotely controlled from software.

SECTIONAL VIEW

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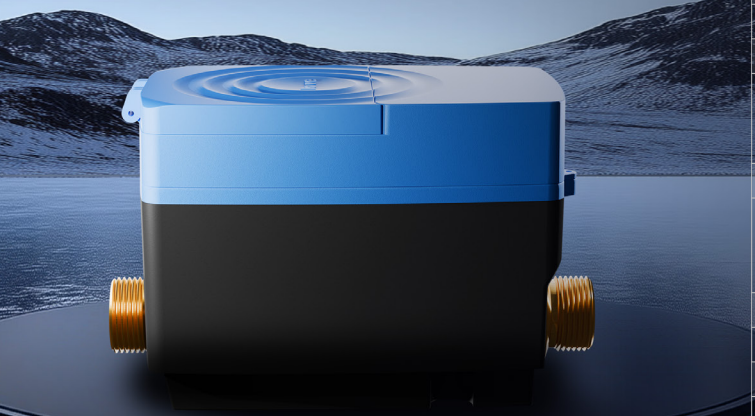
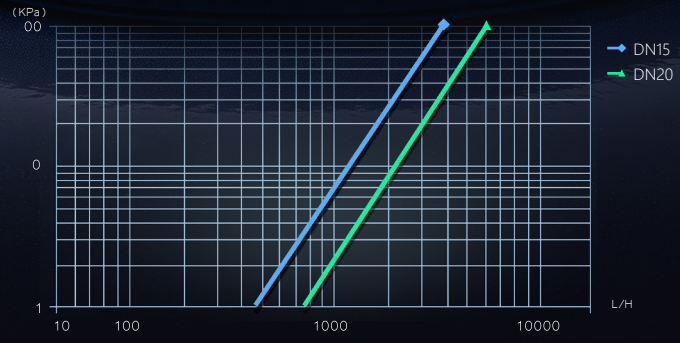
TECHNICAL SPECIFICATION



B97 VPW Valve Control / Prepaid Ultrasonic Water Meter Pressure Loss



Model	B97 VPW-15	B97 VPW-20	B97 VPW-25	B97 VPW-32	B97 VPW-40
Pipe Diameter	DN15	DN20	DN25	DN32	DN40
Q_1 (m^3/h)@R500	0.005	0.008	0.0126	0.02	0.032
Q_2 (m^3/h)	0.08	0.0128	0.02016	0.032	0.0512
Q_3 (m^3/h)	2.5	4.0	6.3	10	16
Connection	G¾"	G1"	G1¼"	G1½"	G2"
Length (mm)	165	195	225	260	245
Width (mm)	90	100	90	90	90
Height (mm)	103	100	107	115	125
Temperature	● Medium Range: 0.1°C..... 50/ 70°C (T50 /T70) ● Ambient temperature: 5~55 °C ● Storage temperature: -20~60 °C				
Materials	Brass 59-1/Stainless Steel				
Metrological Class	Class 2 R250/ R400/ R500				
Maximum Operation Pressure	1.6 MPa				
Pressure Loss	ΔP≤63kPa				
Pressure Stage	PN16				
Protection Class	IP68				
Pressure sensor	Optional				
Battery	10- 16 years service life				
Data Storage	24/ 120 logs, daily/ weekly/ monthly.				
Environmental Requirement	E1, M1, B				
Interface	● Optical port				
Communication	● LoRaWAN ●Sigfox ●NB-IoT ● 4G				
Installation	U0D0				
Display and Indication	● Unit: L/ m^3/ Gal (Optional) ● LCD: 8 digits				
Standard Compliance	● EN14154 ● ISO4064 ● OIML R49				
Certification	● MID ● NSF ● UV				

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Creating an Eco Society

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