

packetSENSE

Smart Ultrasonic Water Meter

The **packetSENSE Ultrasonic Water Meter** is a robust and advanced solution for various applications that range from enterprise and industrial to residential. Featuring a durable stainless-steel body, it provides highly accurate flow rate measurements by analyzing the time it takes for ultrasonic waves to travel through water.

This versatile meter can handle a wide range of flow rates, including low flows, making it suitable for various industrial settings. What sets it apart is its maintenance-free design, ensuring consistent accuracy and reliability over extended periods of use.

Furthermore, this water meter can be equipped with both wired and wireless data communication interfaces, enabling seamless integration with data collection systems, concentrators, or network servers. This capability forms a comprehensive remote meter reading management system, empowering businesses to efficiently monitor and manage water consumption data for better decision-making and cost control.



Features

- Self-diagnosis, Flow Sensor Alarm, Temperature Sensor Alarm, Over Range Alarm, and Battery Undervoltage Alarm functions
- Low consumption design, providing over six (6) years of battery life
- Optic electric interface for direct reading with hand-held infrared meter
- Optional stainless steel 316L for direct drinking water measurement
- Bi-directional measurement for both forward and reverse flows
- Intelligent alarms for abnormal water consumption through scheduled time data uploads

Applications

- Water consumption monitoring and management
- Leak detection and reduction
- Water conservation and efficiency programs
- Smart City water management
- Real-time water quality monitoring
- Industrial and commercial water monitoring
- Water reservoir

Technical Specification

Max. Working Pressure	1.6MPa
Temperature Class	T30
Accuracy Class	ISO 4064, Accuracy Class 2, Optional Class 1
Body Material	Stainless SS304 (opt. SS316L)
Battery Life	Up to 5 years
Power Supply	Battery-powered that can continuously work for over five (5) years
Protection Class	IP68
Environmental Temperature	-40°C to +70°C, ≤100%RH
Pressure Loss	ΔP25, ΔP40 (Based on different dynamic flow)
Climatic and Mechanical Environment	Class O
Electromagnetic Class	E2
Communication	M-bus, RS485, LoRaWAN®
Display	9 digits LCD display volume Cumulative flow (m³, L, GAL), Instantaneous flow (m³/h, L/min, GPM) Power alarm, flow direction, output etc.
Connection	Thread
Flow Profile Sensitivity Class	U5/D3
Data Storage	Can store frozen data for 24 months (about 2 years), and the data will be permanently saved after power failure
Frequency	1-4 times/second
Range Q3/Q1	Q3: 2.5m³/h, DN20: 4.0m³/h

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