

packetSENSE Ultrasonic Water Meter

The packetSENSE Ultrasonic Water Meter is a durable water measurement solution designed for enterprise, industrial, and residential applications. Using ultrasonic transit-time technology, it measures water flow without mechanical moving parts, supporting reliable measurement across a range of operating conditions.

Designed to support accurate measurement, including low-flow conditions, the meter is suitable for diverse water monitoring applications. Its solid-state measurement design minimizes mechanical wear and supports low-maintenance, long-term operation.

With wired and wireless communication interfaces, the packetSENSE Ultrasonic Water Meter can connect with data collection systems, concentrators, or network servers for remote meter reading and monitoring. This enables organizations to gain greater visibility into water consumption, identify usage patterns, and support more efficient water management and cost control.



Features

- **Self-diagnosis** and alarms for flow, temperature, overrange, and battery status.
- **Low power** design with over 6 years of battery life.
- **Optical interface** for direct infrared reading.
- **Optional 316L stainless steel** for potable water applications.
- **Bi-directional flow measurement** for forward and reverse flow.
- **Smart alerts** for abnormal water use with scheduled data uploads.

Applications

- **Smart Cities & Utilities** – Automated metering and analytics
- **Industrial & Commercial** – Process monitoring and cost control
- **Residential & Buildings** – Usage tracking and management
- **Environmental & Water Resources** – Reservoir and watershed monitoring
- **Public Infrastructure** – Leak detection and network efficiency

Technical Specification

Max. Working Pressure	1.6 MPa
Temperature Class	T30
Accuracy Class	ISO 4064, Accuracy Class 2, Optional Class 1
Body Material	Stainless Steel SS304 (opt. SS316L)
Power Supply	Battery life: >5 years (continuous operation)
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-digit LCD display – Shows cumulative flow (m³, L, GAL) and instantaneous flow (m³/h, L/min, GPM); also displays power alarm, flow direction, output, and system status.
Connection	Thread
Flow Profile Sensitivity Class	U5/D3
Data Storage	Retains frozen data for up to 24 months (approx. 2 years) and ensures permanent preservation even during power loss.
Frequency	1-4 times/second
Diameter	DN15–DN25
Range Q3/Q1	125, 160, 200, 250, 400, 500 (Default 250)
Q3	DN15: 2.5 m³/h, DN20: 4.0 m³/h

LoRa Alliance Member

packetworx
WE CONNECT THINGS

Packetworx IoT Technology Hub
G/F iSquare Building, 15 Meralco Avenue,
Ortigas, Pasig City, 1605, Philippines