

packetSENSE Ultrasonic Proximity

The **packetSENSE Ultrasonic Proximity** integrates practical functionality into a very robust form factor, designed for precise object distance or level detection in challenging environments. This device is an ideal solution for holistically monitoring levels in tanks, water bodies, or detecting objects remotely.

The device is capable of measuring and reporting distances, with ultra-wide-distance data transmission, and is equipped for long-term operation with its extended battery life and durable IP67 enclosure.



Features

- Object **distance or level detection** without touch
- **Ultra-wide-distance** transmission up to 10km line of sight
- **IP67** waterproof enclosure for harsh environment applications
- **Equipped** with NFC for easy configuration
- **Compliant** with standard LoRaWAN® gateways and network servers

Applications

- **Water level** monitoring
- **Flood** monitoring
- **Level/depth** monitoring in tanks
- **Manhole cover** monitoring

Technical Specification

Wireless Communication Supported

Technology	LoRaWAN®
Frequency Band	AS923-3 (915 MHz to 918 MHz)
Transmit Power	+20 dBm
Class	Class A
Range	up to 10 km

Power Configuration

Power Source	Battery
Battery Type	Li-SOCl ₂
Battery Voltage	3.6 V
Battery Capacity	19,000 mAh

Sensor Performance

Range	0.5 m to 10 m
Accuracy	±(3 + 0.3%*S) cm, S = distance
Resolution	0.001 m

General Specifications

Operating Temperature	-15 °C to +60 °C
Relative Humidity	0% RH to 80% RH (non-condensing)
Ingress Protection	IP67
Enclosure Material	ABS + PC Plastic
Dimension	156.1 mm × 71 mm × 69.5 mm
Mounting/Installation	Pole, wall or DIN Rail Mounting

Approvals

Regulatory	FCC, ISSED, TELEC
Environmental	RoHS

LoRa Alliance Member

packetworx
WE CONNECT THINGS

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