



packetSENSE **Ultrasonic Proximity** Level Sensor 4M

packetSENSE Ultrasonic Proximity Level Sensor 4m is a high quality LoRaWAN® device integrated with an ultrasonic proximity sensor. It is noncontact, highly reliable, cost-effective, easy to install, and maintains a distance measurement instrument. It is used to measure objects from 20cm-400cm. It allows users to remotely monitor the level, distance, volume, and height of objects. It has a backup battery that provides an emergency voltage source in the event of power loss. The device will provide notification to its users when it gets disconnected and will store the status of the device before it turns off. It is designed to operate for indoor and outdoor installations.

packetSENSE Ultrasonic Proximity Level Sensor 4m has a wide range of applications. They are most commonly used on cars to sense nearby cars or objects to avoid collision. It also finds applications in the retail industry they can detect motion and the correlation between the customer and product they might be interested in. A user is immediately notified of discounts and special offers of nearby products. They are also used for parking availability in places such as malls, stadiums or airports. Other use cases are assembly lines of different industries like food, chemical, machine tools and many others.

Technical Specification

Data Communication Supported

Input Voltage Rating

Technology

Frequency

Tx Power

Electricals

Features

- LoRaWAN® compatible Level Monitor
- Sensors Integrated
- Precision Weather Resistant, Ultrasonic Range Detector
- Notification when unit gets disconnected to power source
- Battery backup LiFePO4
- Fit for outdoor installation

Applications

- Water Level Measurement
- Proximity Zone Detection
- People Detection
- Long Range Object Detection
- Height Monitors
- Auto Sizing
- Automated Factory Systems
- Flood Monitoring

Operating Current 3.3V – On-board Electronics Operating Voltage Power Source 5.0V DC input, USB Adapter and Internal Battery Battery Type Battery Capacity LiFePo4 1500mAh/configurable Sensor Specification Operating Temperature Range | -20°C to +70°C JSN-SR04T V2.0 Operating Voltage | DC 3.0-5.4 Operating Current | 8mA Measurement Range | 20-400cm Accuracy | ±1cm Operating Temperature Range | -40°C to +65°C Operating Voltage | 2.7V to 5.5V Operating Current | 2.3mA at 3.3V, and 3.1mA at 5V HRXL-MaxSonar Measurement Range | 50cm to 10m Accuracy | ±1mm Ingress Protection | P67 compatible Operating Temperature Range | -20°C to +60°C Operating Voltage | DC 24V Suzhou, Gerr Operating Current | 20mA Analog Output | 4-20mA Measurement Range | 0.65cm to 20m Accuracy | ±1mm

LoRaWAN®

50mA (max)

25dBm

EU868/AS923-3

5.0V, 24VDC for the 20m product

Mechanical

	Dimension	62.08mm x 111.00mm-(4m/10m product)
		and Mounting Bracket for 20m product
	Mounting	Two Mounting Holes/Mounting Bracket for 20m product
		Outdoor Installation: Aluminum Shroud attachment

Ingress Protection | IP65 compatible



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

(+632) 7971-9211 | (+63) 917-189-7613