

LPWAN Ultrasonic Apparatus

PRODUCT DESCRIPTION

The LPWAN ultrasonic device is engineered for outdoor monitoring of water and liquid levels across diverse environments and applications. To guarantee optimal performance and reliability, a high-quality ultrasonic sensor has been chosen, and the housing is constructed to endure harsh conditions. This ultrasonic device operates on batteries, with two variants of battery holder types available to accommodate specific purposes and maintenance needs.

USAGE

- Water level monitoring in rivers and streams
- Level monitoring at water treatment facilities
- Water or liquid detection in a tank
- Occupancy detection – identification of available space, such as a parking spot.
- Static obstacle detection



FEATURES	PARAMETERS
Cover	IP68 protection, IP67 sensor
Power source	3.6V lithium batteries 14505(M)/2600mAh, up to 2 batteries permissible or D-size lithium batteries 17000mAh LS
Energy usage	<3.5 μ A in deep sleep / 80 mA transmission (Sigfox, LoRa) / 500 mA (NB-IoT)
Battery industry	Approximately 35,000 transfers at 2x14505 / over 100,000 at D size LS
Supported LPWAN Standards	Sigfox, LoRaWAN, NB-IoT, GSM (one of the chosen options on order)
Dimensions	Lid diameter: 92 mm, height: 122 mm, body width: 85 mm
Mass standard/radiation	260g
Ultrasonic apparatus	MAXBOTIX IP67, detection range of 20 cm to 765 cm
Accelerometer, tamper switch	Optional anti-theft protection.
Antenna/standard range	Helical, achieving 2.1 dBi/45 over a range of 110 km, contingent upon LPWAN technology.