



LPWAN Ultrasonic device

LPWAN Ultrasonic device has been designed for outdoor monitoring of water/liquid levels in different environments and purposes. To ensure very good performance and reliability, high quality of ultrasonic sensor was selected and also housing has been designed to survive in harsh environment. The ultrasonic device is battery operated and there are two versions of battery holder types available according intended purposes and request for maintenance.

Usage:

- ✓ Water level detection on rivers and creeks
- ✓ Level detection on water treatment stations
- ✓ Tank water/liquid detection
- ✓ Detection of occupation – free space detection e.g. parking place
- ✓ Solid obstacle detection



LPWAN Environmental device	Parameter
Protection	Housing IP68, sensor IP67
Power supply	3.6V lithium battery 14505(M)/2600mAh, 2 batteries possible or D size lithium battery 17000mAh LS
Power consumption	<3,5uA in deep sleep/80mA transmission (Sigfox, LoRa) / 500mA (NBLoT)
Battery lifetime	Aprox. 35k transmissions @ 2x14505 / over 100k @ D size LS
Supported LPWAN standards	Sigfox, LoRaWAN, NBLoT, GSM (one of selected upon order)
Dimensions	Lid Diameter 92mm, Height 122mm, Body width 85mm
Weight standard/radiation	260g
Ultrasonic sensor	MAXBOTIX IP67, detection range from 20cm to 765 cm
Accelerometer, tamper contact	Optional, antitheft protection
Antenna/typical range	Helical, gain 2.1dBi/45 to 110km depends on LPWAN technology

