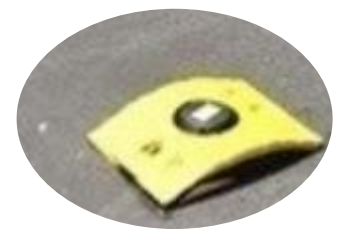


Parking Space Detection - Ultrasonic plus Geomagnetic LoRaWAN Sensor

PS102-USGM-LR-BT8-SB

The PS102-USGM-LR-BT8 Dual-detection parking occupancy sensor can accurately detect the occupancy status of parking space(s) by dual Ultrasonic and Geomagnetic sensors. When a vehicle pulls into or out through the parking space, the sensor reports status via LoRaWAN technology to LoRaWAN gateway WR322GR-EC-LORAWAN. It supports multiple LoRa band CN470, EU868, AS923, AU915, USS915, KR920, IN865, RU868 for different region. The sensor is powered by ER26500 lithium battery 8000mAh 3.6v and can work for 2-3 years depending on work mode. The enclosure is IP67 weather protected, and operation temperature is from -20~70C. The PS102 series are ideal for Smart Parking System Solution.



Features & Benefits

Detection Technology	Ultrasonic + Geomagnetic
Accuracy	99%
Ultrasonic Range	10~60cm
Enclosure	IP67 ABS
Installation	Surface mount
Dimension	115*115*50mm
Wireless	LoRaWAN Class A EU868,AS923,US915,USS915,CN470
Wireless Sensitivity	137dbm@292bps (RX), 5~20dbm(Tx)
Wireless Distance	3KM line of sight
Weight	150g
Operating Temperature	-20 to 70°C
Battery	Non-recharged ER26500 lithium battery 8000mAh 3.6v
Battery Life	Up to 3 years(6 transactions per day)



Features & Benefits

✓ LoRaWAN to Cloud

The LoRaWAN sensors forwards parking space vacancy to WR312/322 LoRaWAN gateway and the LoRaWAN gateway sends all sensor data to cloud platform via MQTT with encryption. The LoRaWAN gate support 4G LTE / WiFi or WAN port with programmable NodeRED tool for the collected data.



Ordering Information

Model	Description
PS102-USGM-LR868-BT8-SB	LoRaWAN Ultrasonic and Geomagnetic Parking Sensor, 8000mAh Battery, Surface Mount, Black, LoRaWAN 868MHz * LR433 / LR915 / LR923 / LR470 by request
WR322GR-EC-LTE-LORAWAN-EU868	Industrial LoRaWAN Gateway, 2GbE+2COM, LTE 2SIM, FDD B1/3/7/8/20/28A, LoRaWAN 868MHz
WR312GR-EC-LORAWAN- EU868	Industrial LoRaWAN Gateway, 2GbE+2COM EU868: 863-870MHz * LR433 / LR915 / LR923 / LR470 by request
ThingsMaster OTA Parking-100	Annual Fee- ThingsMaster OTA 100 Parking Nodes on public server
	Package List
	Product Unit x 1
	Ground Screws x 3
	Test Magnet Tool x 1
	QIG