

# TBS-201 LoRaWan Dual Mode Parking Sensor

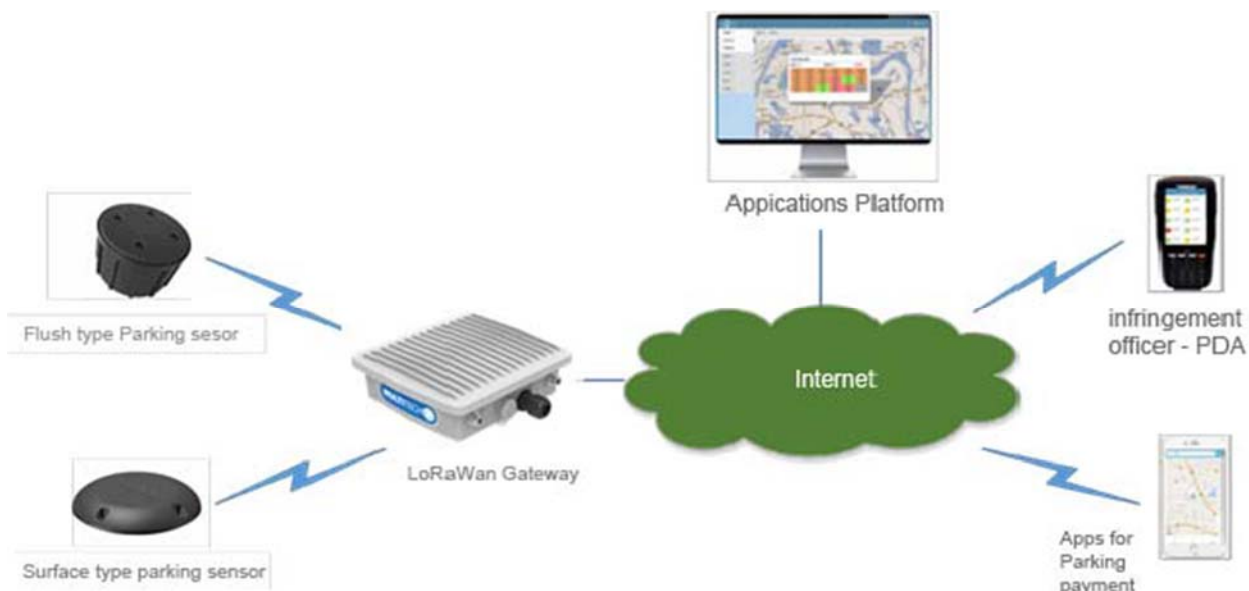
**TBS-201 Wireless Vehicle Detector** is a parking space status sensor that supports LoRaWAN long-distance wireless standard. It integrates microwave radar and geomagnetic detection technology. It adopts advanced signal detection algorithm to accurately realize the functions of parking space occupancy detection and parking time statistics. It can transmit parking occupancy information to the cloud service platform, which has wide application prospects in smart transportation, smart community, intelligent parking and other fields.

## Feature:

- **High reliability:** The accuracy of dual-mode detection is 99%. Using microwave radar and geomagnetic dual-mode detection technology, the parking space detection accuracy rate can reach 99%;
- **LoRaWan Wireless communication,** built-in battery, no wiring required, easy to install, shorten installation time
- **Easy maintenance:** detachable sleeve structure design.  
The detector has extremely low power consumption and can work for more than 7 years  
It does not require frequency maintenance and upgrades. It supports Bluetooth wireless upgrade and calibration, detachable structure design supported easy after-sales maintenance.



## System structure



**Model** TBS-201

### Specification

**Detection accuracy** > 99%

**Detection algorithm** Dual mode -Three-axis joint detection algorithm and Radar

**Installation Method** Flush Type

**Upgrade Method** Remote Wireless upgrade

**State Monitor** Low voltage alarm, disturbance alarm

**Power Supply** Built-in 3.6V Lithium battery

**Power switch** Use Bluetooth to activate

**Life Duration** 7-10 years (based on 10-25 vehicle per day)

### Radio Parameters

**Operation frequency** AS923 /NA915 / EU868/AU915 Order by request

**Spreading factor** 125 kHz ~ 500 kHz

**Radio standard** LoRaWAN

**Max output power** 20 dBm

**Sensitivity** -135 dBm (SF12, 125kHz)

**Transmission distance** 500m -1km (Depends on environment)

### Physical parameters

**Protection level** IP68

**Operation Temperature** -40°C ~ 85°C

**Dimension** D: 130mm, H: 87mm

**Weight** 800g

**Resistance** 10 tonnes

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## Applications



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