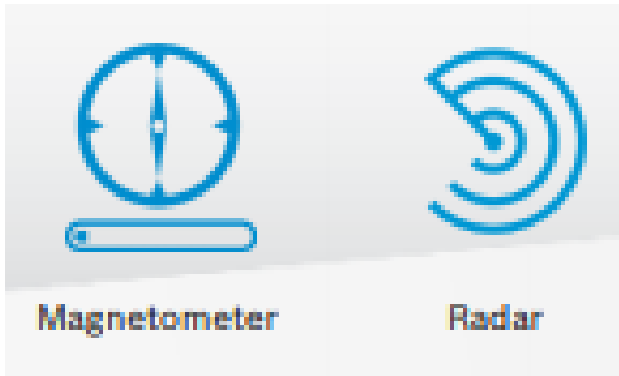


Wireless sensors detect and report parking space occupancy, thus enabling active parking lot management features, such as search, navigation, and reservation. The easy retrofit solution for parking lots is installed in minutes. It was designed for detecting with high reliability if a parking space is occupied or available.

TWO INDEPENDENT SENSORS PRINCIPLES



OPERATING CONDITIONS

Reference	Range
Operating temperature range	- 20... + 65 °C
Humidity range	0...95 %
Resistant to mechanical influences ² : snow-plough ³ , heavy goods vehicles (CV) (N1 - N3) ⁴ and high-pressure cleaning	

TARGET MARKETS AND CERTIFICATIONS

PLS Variant	
PARK-MOD IN	India (WPC/ETA)

COMMUNICATION

PLS Variant	LoRa Frequencies	Transmitting Power
PARK-MOD IN	865-867 MHz (IN865)	max. 14 dBm ERP

DEVICE SPECIFICATION

Reference	Specification
Weight	191 g
Power supply	Lithium battery (Li-SOCI2, 3.6V, 9000mAh)
Battery lifetime	Up to 5 years
IP class	IP68

Installation and Maintenance

Installation	Sensor to glue to different surfaces / screw in the ground ⁵
Maintenance	No maintenance needed
Replacement	Core exchangeable without removing the base from the ground

Performance Parameters

- Model based optimized parking state detection algorithm development with millions of data points from real parking events, adaptive algorithm ensures high detection reliability during the whole sensor lifetime.
- 96% average parking state change detection performance⁷ proven in field-tests with more than 2000 sensors and more than 46 different car types in real parking environments.
- Self-learning calibration during the first five parking events.
- Reporting of parking state changes within 35 sec.(typical).

COMPONENTS

Cover Cap

Colour	Yellow
Weight	250 g
Material	Confidential
Description	The cap is positioned on top of the sensor core to protect the screw

Sensor Core (TPS110)

Colour	Yellow
Weight	124 g
Material	Confidential
Description	the Sensor-Core contains the sensing unit. It consists of housing, integrated battery, electronics, O-rings. The core will be installed into the base.

Sensor Base

Colour	Yellow
Weight	65 g
Material	Confidential (plasma treated on the bottom side)
Description	the Sensor Base is the part that is mounted on the ground.