

An Introduction to Wireless Parking Sensors



Making Parking Friendly[®]

IPsens designs, develops, and deploys state of the art parking guidance solutions that strive to Make Parking Friendly.

We're a Design-Build Parking Guidance Solutions Provider proudly representing Nedap SENSIT. IPsens provides the leading wireless parking detection system across multiple industries.

Our Mission is to generate and deliver valuable information to drivers to "Make Parking Friendly" while generating important new value-added functionality and data for our customers and parking operators in the process.

We are a company passionate about the idea of producing accurate and valuable management intelligence in the world of connected devices.





Parking Mobility Guidance



Installation of wireless sensors couldn't be easier! Sensors and Relay Nodes are battery powered and communicate wirelessly. Parking events are noted by the sensors and then passed along to the on-site Gateway(s) and then onto the Cloud software for processing.

All of this is tied together and backed by the parking industries most friendly and comprehensive software suite. Do you have more than one site, garage or parking structure? IPsens can also provide directional and occupancy signage, lot counting systems, management and reporting software, and even tie into third party hardware and software. IPsens has done the heavy lifting for you!

On-Site Hardware



Sensor

Sensors are placed in each parking bay, within the view of a relay node (135-164ft). Once a vehicle parks, the dual sensing technology sends the occupancy data to the closest relay node, which is then passed along to the onsite Gateway for deposit in the cloud. Sensors are battery powered, wireless, and each have their own unique ID.



Relay Node

Relay nodes pass parking event data from the sensors to the onsite Gateway and are often mounted to light poles (10-20ft High). These nodes allow you to expand your local wireless range and cover distances from relay to relay up to (328ft)! Relay nodes are battery powered, wireless, and have a unique ID as well.



Gateway

Gateways are the onsite hub for collecting data from the relay nodes and passing it to the cloud for processing. They are often pole or building mounted, powered via 110V or 12VDC, and connect to the cloud via Ethernet or cellular. Battery backup units are also available for the Gateway to keep your data flowing.







Surface Mount Sensor



Hardware Configuration Software

Easily enroll Sensor IDs along with their corresponding parking bay numbers into the configuration software. Upload a map of your site and then drag and drop sensors, relay nodes and gateways in their proper positions. Integrate to virtually any parking/traffic guidance or enforcement system, check performance and brag to your peers.

Ö	sensors
Present	50/50
More events than average	0
Battery low warning	0
Alerts	0

The configuration dashboard provides a quick snapshot of the system components, from local hardware to network and server performance, you'll know every item is online and running at top performance!

Pre-Installation Layout Tool



Need to plan a layout for a site or see wireless coverage areas of relay nodes? Use the layout tool software to paste maps or screenshots, set the proper scale, then insert relay nodes and gateways to get a real world visual of wireless communication.



Wireless Coverage



Show your parking availability in real-time with a wide array of signage.

Designed to be integrated both inside and outside of the garage structures in addition to operating as wayfinding solutions to a parking site.



Installation Simplified

Surface Mount Sensor

Adhesive Ladder or Lift Measurement Tools

Flush Mount Sensor

Mortar Core Drill Ladder or Lift Measurement Tools Generator + Water Supply Snow Plow Approved

Pro Tips:

- Order of Installation Gateway, Relay Nodes, Sensors
- Schedule electrician first for Gateway power (110V)
- Mount Relay Nodes 10-20' high and with clear view of sensors
- Cone off sections of the lot and allow enough dry time before open
- · Notate Sensor IDs and actual location on site very accurately
- Use the configuration handheld tool and phone to quickly enroll sensors later
- · Sign up for IPsens' certified technician training



Smart Dashboards & Reporting

Need real-time parking data?

Need to forecast parking volume?

Need to enforce overstays?

Or need to view this information while offsite?

IPsens has you covered. Our FuseParking dashboard enables you to make smart decisions about your parking operation.





Expanded Capacity

Leverage the IPsens FuseParking open API for integration to 3rd party services. This platform empowers users to connect to other valuable systems and services within the ecosystem of parking and transportation!

- PARCS Systems
- Mobile Parking
- Reservations
- Enforcement
- Permits

- Security Access
- Surveillance
- Visitor Management
- Facilities Management
- Transportation Systems

Ask your IPsens representative about the other devices we can use to capture data for you.

Overhead Sensors Vehicle Counters License Plate Recognition

Variable Message Signage Controlled and Automatic Gates Cameras



Contact Info



 \bigcirc

info@ipsens.net



1.888.705.1196

500 West Main St. Suite 303, Branson, MO 65616

Verticals

- Colleges & Universities
- Corporate Campuses
- Airports
- Parking Garages

- **Transportation DOT Parking**
- **Hospitals**
- Commercial Parking
- Logisitcs



