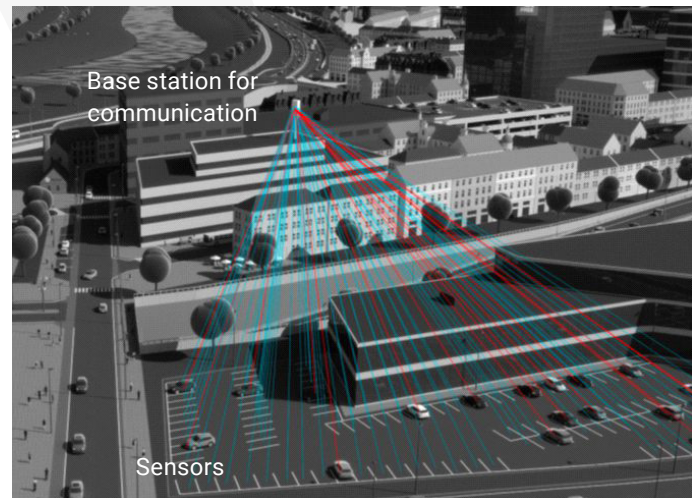


ParQSense Smart Sensor

- Dual detection technology for increased accuracy
- Battery operated wireless sensor
- Rugged design and easy installation
- Long-life sensor with up to 10-year lifetime



OVERVIEW

The ParQSense Smart Sensor is one of the most advanced Smart sensors on the market. Industry standard single technology sensors provide inaccurate parking data in certain conditions, as interference may negatively affect sensing accuracy. Utilizing dual detection technology (highly sensitive radar and magnetic field technology), the ParQSense Smart Sensor provides superior detection accuracy resulting in highly accurate data output.

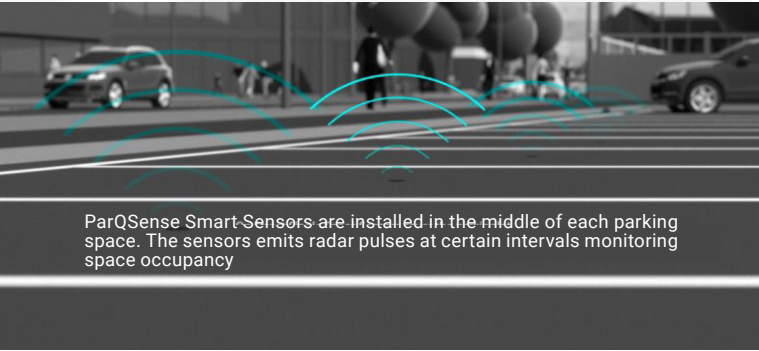
With its compact form factor, the ParQSense Smart Sensor is designed to require minimal in-ground installation efforts. New low-power technology ensures low current draw, enabling a device life-span of up to 10 years.

The ParQSense Smart Sensor signifies the latest development in the Q-Free ITS portfolio bringing proven sensing and guidance technology to the on/off-street market. Typical applications include surface lot/ on/off-street and truck parking, as well as Smart City initiatives.

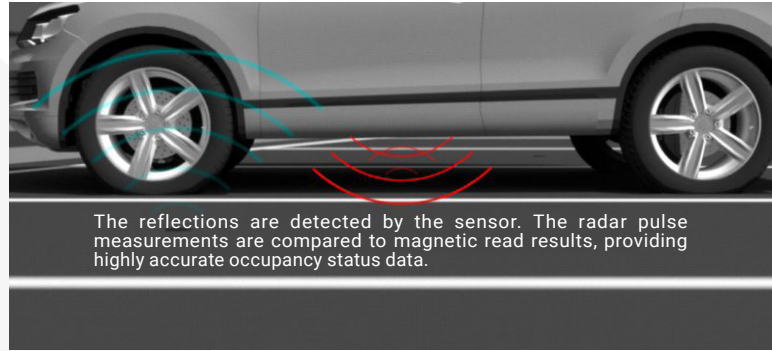
The ParQSense Smart Sensor is installed in-ground, flush to the surface using a fast curing sealant. Thousands of ParQSense Sensors can communicate to a single centrally located ParQSense Base Station. The cloud based Q-Free HUB is the central software engine for ParQSense monitoring projects. Access to the Q-Free HUB can be achieved through ParQ, a web-based user portal, or through the ParQSense API.



PRODUCT SHEET



ParQSense Smart-Sensors are installed in the middle of each parking space. The sensors emit radar pulses at certain intervals monitoring space occupancy



The reflections are detected by the sensor. The radar pulse measurements are compared to magnetic read results, providing highly accurate occupancy status data.

FEATURES

The ParQSense Smart Sensor is installed in the middle of parking spaces for Smart applications such as parking lots, on/off-street/truck parking, Smart City initiatives, etc.

ParQSense Smart Sensors require connection to ParQSense Base Stations for communication. The number of sensors per base station is not limited by volume as in traditional systems, but is determined by the topological conditions of the project location.

The ParQSense Sensors detect occupancy status through radar and magnetometer sensing technology. The status is wirelessly transmitted to ParQSense Base Stations, which communicate to the Q-Free HUB software engine.

Occupancy status can be transmitted to strategically placed way-finding signs, mobile/web applications, etc., guiding drivers quickly and efficiently to available parking. Valuable statistics can be obtained from the Q-Free HUB software engine enabling parking managers/operators to make the smartest and most informed parking decisions.

FUNCTION

TECHNICAL SPECIFICATIONS

Product code:	ITS-420
Operating frequency:	868 MHz EU, 915 MHz US, 921 MHz AUS
Detection :	Magnetometer and Radar
Sensing Technology:	Temperature sensor
Mounting :	Buried in the ground, flush with the surface
Snow plow resistant :	Yes
Load resistance :	Heavy traffic
Mounting dimensions :	Ø 110 mm / 4.33in
Weight :	550 g / 1 lbs
Protection :	IP67, completely sealed

Color :	Grey
Storage/Operating temp :	- 40 to +85° C / -40 to +185° F
Detection height :	0 to 90 cm / 0 to 35.5in
Communication range :	dense urban radius - 250m / 820 ft (line of sight) rural area radius - 2000m / 2100 yd. (line of sight)
Power supply :	Built-in lithium battery
Expected lifetime :	Up to 10 years*
Installation time :	estimated at 4 min/sensor*

*depending on site conditions

PRODUCT DIMENSIONS

