

SENSORS



PrestoSense

VEHICLE DETECTION SENSOR

A better city center through a better management of on-street parking

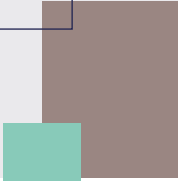
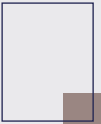
PrestoSense detectors are installed on on-street parking bays. They not only detect a vehicle's presence, but also the parking duration of a car. The information is forwarded to the parking operator. He uses the data to analyze the load and turnover rate of his car park and to optimize enforcement. The motorist uses the information directly on his smartphone. The city's traffic guidance system or the motorist's GPS system guide him to the next available parking bay.

PrestoSense is another tool to create dynamic, citizen friendly city centers. Motorists optimize their travel time and route to the next available parking bay in the inner city even before they start their journey. Additionally, an optimized enforcement increases the rotation on the sought-after parking bays in city centers and thus lead to more potential customers for retail shops in inner cities.





INNOVATIVE
PARKING
SOLUTIONS FOR
SMART CITIES



Dual detection sensors

As second generation detection sensors, PrestoSense operates with an IEM patented sensing technology, based on magnetic and ultrasonic measurement. When changing the magnetic field, resulting in the movement of a metallic mass in the space close to the sensor, this one activates the ultrasonic detection to verify the information and thus exclude any interference that could affect the result. This double detection allows a reliability rate of 99%.

ADDED VALUES

- Accurate and reliable detection of over 99%
- Fast installation without damage to the road
- Life span 8 years
- Use of the network LoRa designed for smart cities

APPLICATIONS

- Monitoring of parking spaces and parking time limit violations
- Map with available spaces
- Measure occupancy rate
- Measure turnover of spaces
- Data transfer to third party applications

Internet of Things technology

The sensors communicate via LoRaWAN (Low Power Wide Area) network, an open low cost telecommunications network, suitable for secure, low volume data transfer allowing multiple applications for smart cities. The life span of sensors is between 6 and 10 years depending upon the environment and the place of installation and configuration.

TECHNICAL INFORMATION

PrestoSense	
Size	Diam210 x H25 mm
Weight	560 g
Material	Resistant resin, withstanding constraints of urban streets
Power supply	Lithium battery
Detection technology	Magnetic and ultrasonic Detection distance : from 0 to 90 cm
Reliability	Life span 8 years Regular traffic, up to 10 tons Temperature : -30°C to +70°C Surface mounted
Protection	IP 67 Waterproof housing
Data	Data transmission to Parking Portal via LoRaWANTM classe A network Maintenance and data collection alarms in real time
Communication	Presto1000, PrestoPark



IEM SA

109 chemin du Pont-du-Centenaire
1228 Plan-les-Ouates
GENEVA, SWITZERLAND
Tel : +41 (0)22 880 0710
Fax : +41 (0)22 880 0717
contact@iemgroup.com

IEM SARL France

Immeuble Europa 2
310 avenue Marie Curie
74166 Saint-Julien-en-Genevois, FR
Tel : +33 (0)4 50 8776 72
Fax : +33 (0)4 50 8776 70
contact@iemgroup.com

WWW.IEMGROUP.COM