PGUIDE

PARKING GUIDANCE SYSTEM

GENERAL CHARACTERISTICS

PGUIDE provides dynamic information, updated in real time, regarding the availability of free parking area, so it can dynamically guide the user (according to traffic conditions) along pre-established routes towards one or more of the closest parking areas. **PGUIDE** uses an App for smartphone and tablet, the Internet and specific indicator panels in order to assist the driver in seeking for a parking space and to supply public utility information.

PGUIDE has an open and modular architecture, and consists of: at local level, (circumscribed) MPARK 500 parking central control units and single stall presence sensors (non circumscribed street level parking); at peripheral level, variable and static message indicator panels; at central level, the M-PARK control and management software.

The central supervision unit is connected via a telecommunication system to the local units that communicate parking area occupation status, and to the variable message panels for the display of the number of free stalls and any other messages.

At central level, the web-based control and management software has a user-friendly dynamic graphic interface that provides real time display of the status of the field units and allows configuration operations.

PGUIDE offers parking management firms various operational, statistical and analysis functions, such as: structured access to information, parking use historical data; support in parking rates policies; comparison between real and theoretical proceeds.

The system provides operators with: real time information regarding stall occupation time; interfaces towards peripheral devices and sensors; sophisticated diagnostics for maintenance supporting systems (alarms); programmable commands to peripheral units.

Pguide offers users basic functions such as: real time indication of free parking stalls in the closest parking area, the most convenient access route, useful information (events, opening hours, etc.).

MAIN FEATURES

- Reduction in time spent looking for parking, reduction of parasite traffic, of acoustic and air pollution, of accidents
- Smarter cities at the service of citizens: environmental sustainability, «customer experience» real time communication, aperture, modernity and attractiveness
- Greater availability of parking areas and optimisation of human resources (traffic assistants)
- Reduction in operating costs (management of parking meters)

TECHNICAL CHARACTERISTICS

ARCHITECTURE
- Peripheral level: MPARK 500 local parking control central units; motion detectors; LED variable and static message panels
- Central level: M-PARK web-based integrated software platform; operations centre (workstations, DataBase, server, videowall - optional)

COMMUNICATION SYSTEM
- Ethernet; Wireless; FO (optional)
- Mobile GSM/GPRS/UMTS network

MPARK 500 PARKING UNIT
- Data detected: number of vehicles entering/exiting parking areas (including via pre-existing sensors)
- Keypad and display for local configuration and management of free stalls

STALL MONITORING SYSTEM
- Identification of stall occupation using magnetic induction technology
- Communication between wireless sensors
- Very high autonomy, easy maintenance, extremely durable and reliable, street level installation

ADDRESSING SYSTEM
- LED variable message panels

- Indicator group: modular combination of individual signs, each one for parking or area with multiple parking; variable messages
- Possibility of changing the composition of each indicator group according to changed project needs
- Elegant design suited to the urban décor of tourist and historically prestigious locations.

M-PARK SOFTWARE PLATFORM
- Web-based
- WebGIS (indication of system location on maps)
- Accessible from fixed and mobile devices (PC, tablet and smartphone)
- Operator functions: panel configuration, supervision, diagnostics, data analysis and storage, reporting
- User functions: real time identification of closest free parking stalls, fastest route, useful information

DATA ANALYSIS
- Parking occupation trend (hours in a month, year or peak hours, and parking filling/emptying trend;
- Average parking time