

PERFECT SOLUTIONS IN TRAFFIC SYSTEMS



### **Products**

Magnetic field sensors

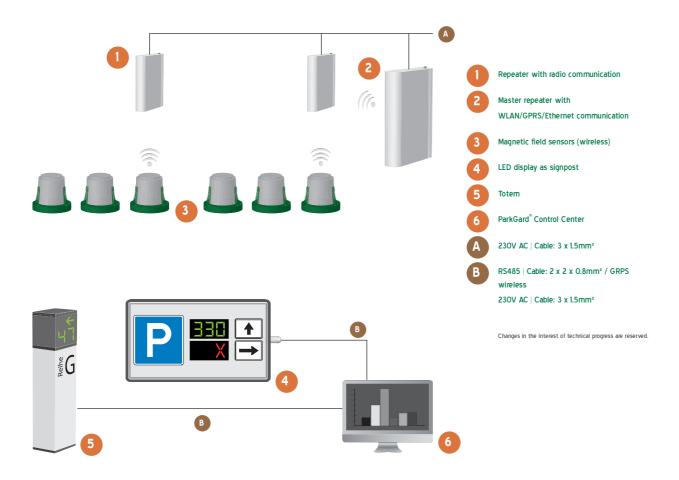






## System

Functional principle of the components





### **Outdoor parking**

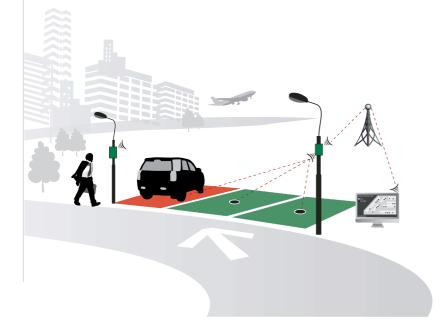
with innovative WLAN and magnetic field technology

#### Parking in the city centre with connection to the Smart City network

Drivers are guided to the next free parking space by the innovative magnetic field sensor technology from MSR-Traffic. The wireless magnetic field sensors are not sensitive to weather conditions, have very high detection accuracy and can be cast flush with the road surface. Therefore they are also protected against vandalism and resistant to snow ploughs.

If a parking space is occupied, the sensor detects the change in the magnetic field and forwards the signal by radio to the server. The evaluation subsequently takes place in combination with a car-park routing system, with pay-and-display machines or with a navigation system. The results can be used for efficient parking space management.

### Accurate detection and monitoring of all outdoor parking spaces



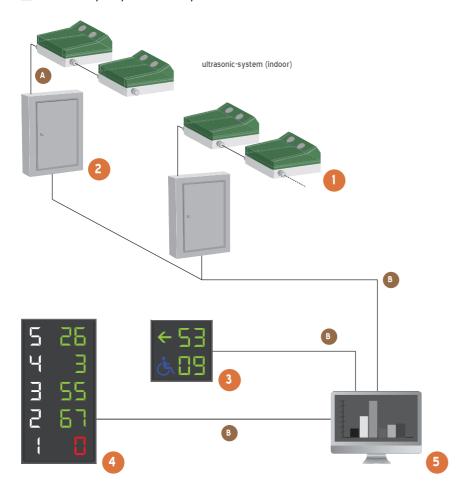
### **Products**

Ultrasonic sensor PU-02-4 with integrated luminaire



# System

Functional principle of the components



- Ultrasonic sensor
- Zone controller
- 3 LED display level
- 4 Main display at the car park entrance
- ParkGard® Control Center
- A RS485 | Cable: 2 x 2 x 0,8 mm² | 24V
- B RS485 | Cable: 2 x 2 x 0,8 mm² 230V AC | Cable: 3 x 1,5 mm²

Changes in the interest of technical progress are reserved.



## Indoor parking

Guidance, counting & single parking space detection and efficient gas detection

#### ■ Efficient multi-storey car park guidance from MSR-Traffic:

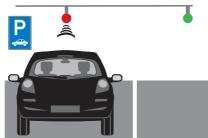
The ultrasonic sensors from MSR-Traffic with integrated parking space light detect the availability of the individual parking spaces from the aisle and transmit the signals (occupied/free) via a serial data link to the zone controller.

Vehicles can be counted by ultrasonic sensors or also with magnetic field sensors in the aisles or in the entrance and exit area. The display of the free parking spaces on each level on modern LED displays and the parking space lights for each parking space guide customers to the next free parking space.

That not only saves unnecessary searching and reduces traffic in the multi-storey car park, but also saves the customer valuable time. In addition, the complete guidance system can be displayed on a master computer and statistically evaluated. This way the operator can also lower ventilation costs through the optimum use of the parking spaces. The integration of a legally prescribed gas alarm system is also possible here.

#### Accurate detection and monitoring of all indoor parking spaces







# Dynamic displays

with innovative LED technology

#### MSR-Traffic solutions for the urban area

The dynamic LED displays from MSR-Traffic supplement the product portfolio and provide you with the possibility to procure all necessary systems for traffic guidance technology from a single supplier.

The numbers, arrows and symbols can be individually configured.

### **Products**

Displays



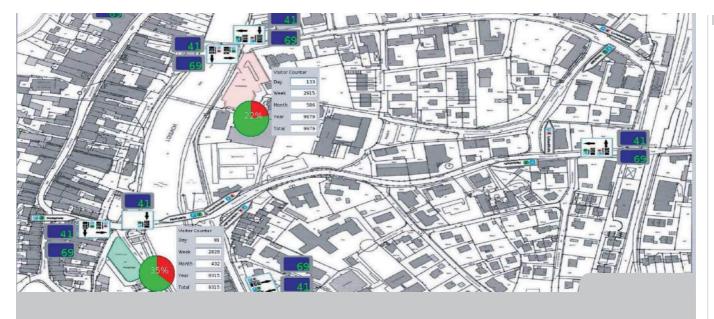




Totems







# ParkGard® Control Center

SCADA (indoor / outdoor)

#### MSR-Traffic solutions for extensive surveillance

With the ParkGard® Control Center you have every parking space in view at all times. Whether you're concerned with occupation statistics or profitability - the ParkGard® Control Center provides you with real-time access. Faster processing of individual requirements and the retrieval of all desired information in real-time with increasingly simple operability make the ParkGard® Control Center an effective and efficient instrument.

Apart from the statistics and analysis functions, the ParkGard® Control Center sensors and controllers can be used to control when parking spaces are reserved or if parking offenders are to be identified. Flexible integration of further applications, such as a gas alarm system, round off the extensive functionality of the ParkGard® Control Center.

#### Many possibilities with the ParkGard® Control Center:

- → visualisation of all parking spaces and displays in real time
- → monitoring of all sensors and displays
- → control of all sensors (parking space reservation)
- ightarrow control of all displays (display value, brightness value)
- → evaluation of all data (statistics, trend analyses, etc.)
- → timers for automatic and regular commands
- ightarrow possibility to export all data in a CSV file
- ightarrow possibility to integrate a gas alarm system (indoor)
- → recognition of parking offenders and long-term occupation
- → automatic error message for defective devices









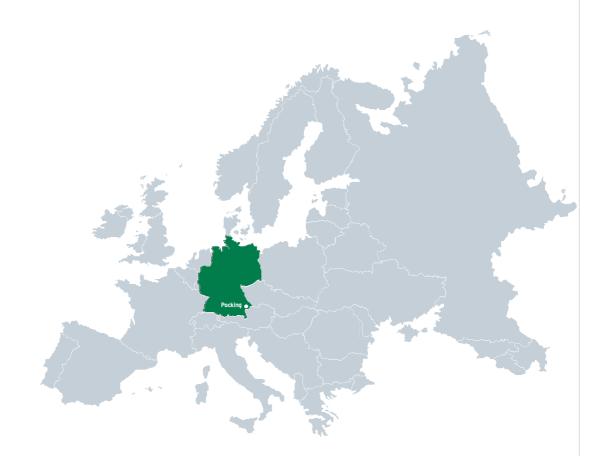
#### ■ MSR-Traffic GmbH

Würdingerstr. 27 & 27A | 94060 Pocking

Germany

Tel.: +49 8531-9004-0 Fax: +49 8531-9004-44

Mail: info@msr-traffic.de



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