



## PARAGON PARKING SYSTEM

The system for innovative and professional management of car parks

**FAAC**  
*Simply automatic.*

# PARAGON

## THE SYSTEM FOR AUTOMATION AND MANAGEMENT OF PARKING AREAS

On-going innovation in research and development, combined with the highest quality standards, have given the system all the requirements now necessary for professional management of a car park.

The system makes it possible to control a flat surface or multi-storey area, enabling access, control of vehicular flows, automatic or manual collection of payment, supplying the necessary accounting and administrative reports.

The system's flexibility makes it possible to enlarge the area, in terms of the number of vehicle gates, payment units, software performance and possible interfacing with external systems which improve the use of cities and the relevant services.

The application possibilities make it possible to connect several parking areas, manageable from a single remote station, thus centralising control and operational accounting.

PARAGON: a technological challenge, a comparison term, a reference standard.



## PARAGON IS THE IDEAL SYSTEM FOR ALL APPLICATIVE NEEDS

The system's flexibility allows applications in different sectors:

- Car park management companies
- Multi-service companies
- Hotels
- Airports
- Shopping malls
- Hospitals
- Leisure parks
- Sports resorts
- Trade fair structures



## THE SYSTEM'S ERGONOMICS AND DESIGN

- Modern, functional design for all the system's components
- Ticket column operates as entrance and exit
- Single illuminated 'slot' for acceptance of all transit tickets/cards
- User interface with display
- Assistance to user by local intercom or via telephone network
- Messages in vocal synthesis

## MAIN INNOVATION

The universal ticket handling module is common to all the devices:

- Entrance column
- Exit column
- Manual Cash Desk
- Automatic Cash Desk

## DATA CARRIERS

- Barcode tickets
- Magnetic tickets
- Magnetic cards
- Proximity cards in ISO or key-ring format
- Hands-free active transponders

## MEANS OF PAYMENT

- Cash in the manual and/or automatic cash-desks
- Set-value cards in the manual and/or automatic cash-desks
- Set-value cards in the exit lane
- Discountable value ticket in the manual and/or automatic cash-desks
- Credit cards in the manual and/or automatic cash-desks



## CORPORATE MISSION

On-going innovation.

Management of design and production stages according to ISO 9001 qualitative standards.



## DEVICES FOR ACCESS CONTROL AND VEHICULAR TRAFFIC MANAGEMENT

### TICKET COLUMN

*Issue of entrance tickets, and reading of paid tickets, treatment of all the system's tickets*

- Outdoor cabinet with front access
- Dimensions 1150x380x310 mm
- Heater with temperature control
- Intercom for local communication or via telephone network
- Tickets treated from a single lighted slot
- Read and write of barcode tickets
- Read and write of magnetic tickets
- Read and write of ISO 2 (thickness from 0,20 to 0,78 m)
- Read of proximity cards
- Interface with long range distance reader of transponders
- Ticket issuing stock: 5000 pcs.
- User display
- Illuminated anti break-in ticket request push-button
- Detection of vehicles by inductive metal detector
- Communication with data concentrator by RS485 network



### LONG RANGE READER OF ACTIVE TRANSPONDER

*Rapid, privileged access to car park and internal areas*

- Aluminium sheet case, with plastic front panel
- Transponder detection at frequency of 2.45 Ghz
- Operation combined with Paragon column for entrance/exit gates
- Operation with Multipass control unit for access to restricted areas without a ticket Column

### ACCESS READER TO DOORS AND RESTRICTED AREAS

*Opening of doors, gates, control of lifts and access to proprietary and VIP areas*

- Access with magnetic and proximity multi-function reader
- Access by typing in code (ticket and active transponder) on numeric keypad
- User interface with 16x2 character backlit display
- Operation with Multipass control unit



### RAPID BARRIER

*Quick, safe access to car park and internal areas*

- Steel sheet case treated with cataphoresis and polyester painted
- Dimensions 1080x360x170 mm
- Hydraulic activation with plunge piston cylinders
- Round-the -clock service 100%
- Opening time 2 sec
- Electronic slow-down
- An articulated beam can be installed for low ceilings



## PAYMENT DEVICES

### AUTOMATIC CASH DESK

*Quick and simple automatic payment by cash or cards*

Cabinet in stainless steel with front access

- Dimensions 1245x845x500 mm
- Raised base 560x845x500 mm
- Heater with temperature control
- Intercom for local communication or via telephone network
- Pentium 4 management computer
- Window XP Professional operating system
- Tickets treated from a single lighted slot
- Read and write of barcode tickets
- Read and write of magnetic tickets
- Read and write of ISO 2 (thickness from 0,20 to 0,78 m)
- Read of proximity cards
- LCD TFT 15" colour monitor, with multilingual instructions for all user procedures
- Informative anti-burglary push-button
- Communication with data concentrator by in LAN network
- Coin slot
- Banknote slot
- Self-refilling coin change dispenser (max 7 hoppers)
- Banknote change dispenser (1 denomination)
- Access to cash with differentiated keys
- Siren with vibrations sensor
- Software for configuration and control
- Software for managing payments and accounts



### MANUAL CASH DESK

*Operator-assisted payment by cash or cards*

*Cash desk module*

- Metal structure with plastic cover
- Dimensions 320x320x380 mm
- Tickets treated from a single lighted slot
- Read and write of barcode tickets
- Read and write of magnetic tickets
- Read and write of ISO 2 (thickness from 0,20 to 0,78 m)
- Read of proximity cards
- Communication with Computer by RS232

*Management system*

- Pentium 4 management computer
- Window XP Professional operating system
- Report manager software module
- Manual cash-desk software module

*User fee display*

- Back lit LCD display, 20x2 characters



## CONTROL AND MANAGEMENT DEVICES

### DATA CONCENTRATOR

*System control and configuration, data communication*

#### *Management system*

- Pentium 4 management computer
- Window XP Professional operating system
- Report manager software module
- Data concentrator software module



### MULTI-FUNCTION CONTROL UNIT

*Manual cash-desk and data concentrator*

#### *Cash-desk module*

- Metal structure with plastic cover
- Dimensions 320x320x380 mm
- Tickets treated from a single lighted slot
- Read and write of barcode tickets
- Read and write of magnetic tickets
- Read and write of ISO 2 (tickeness from 0,20 to 0,78 m)
- Read of proximity cards
- Communication with Computer by S232

#### *Management system*

- Pentium 4 management computer
- Window XP Professional operating system
- SQL database
- Report manager software module
- Manual cash-desk software module
- Data controller software module

#### *User fee display*

- Back lit LCD display, 20x2 characters



### REMOTE CONTROL UNIT

*Remote activations (opening of barriers, closure of lanes, etc)*

#### *Summary prints, tariffs and parameters change*

- Pentium 4 management computer
- Window XP Professional operating system
- Report manager software module



## APPLICATION SOFTWARE

Developed, with the latest criteria, in graphic ambient on Windows XP Professional platform, the PARAGON WP4 software is a mix of innovation and processing power. This system's motor is based on an SQL relational Database, able to manage millions of records.

### REPORT MANAGER SOFTWARE MODULE

*The system's control unit, information management*

- SQL Relational database
- Setting of operator access privileges
- Software for display and processing of user and cash-desk movements
- Export in text format for subsequent processing on Excel files for example
- Park Set-up Software for configuring functional parameters and tariffs
- Setting of 99 tariff profiles, each composed of 99 different tariffs
- Park Back-up Software for planning periodic saving of data



### CASH-DESK SOFTWARE MODULE

*Ticket office and stay payment, operational management of customer*

- Stay payment management for single stay users with ticket
- Management and issue of Value Tokens
- Sale of subscriber cards and prepaid set-value cards
- Payment procedures by cash, prepaid cards, value tokens, and credit cards
- Management of information messages to user via Display



### DATA CONCENTRATOR SOFTWARE MODULE

*System communication, control and configuration of peripheral units*

- Communication via RS485 to entry and exit columns
- Communication via LAN to manual and/or automatic cash-desks
- Configuration of all peripheral units
- Monitoring operation of peripheral units



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