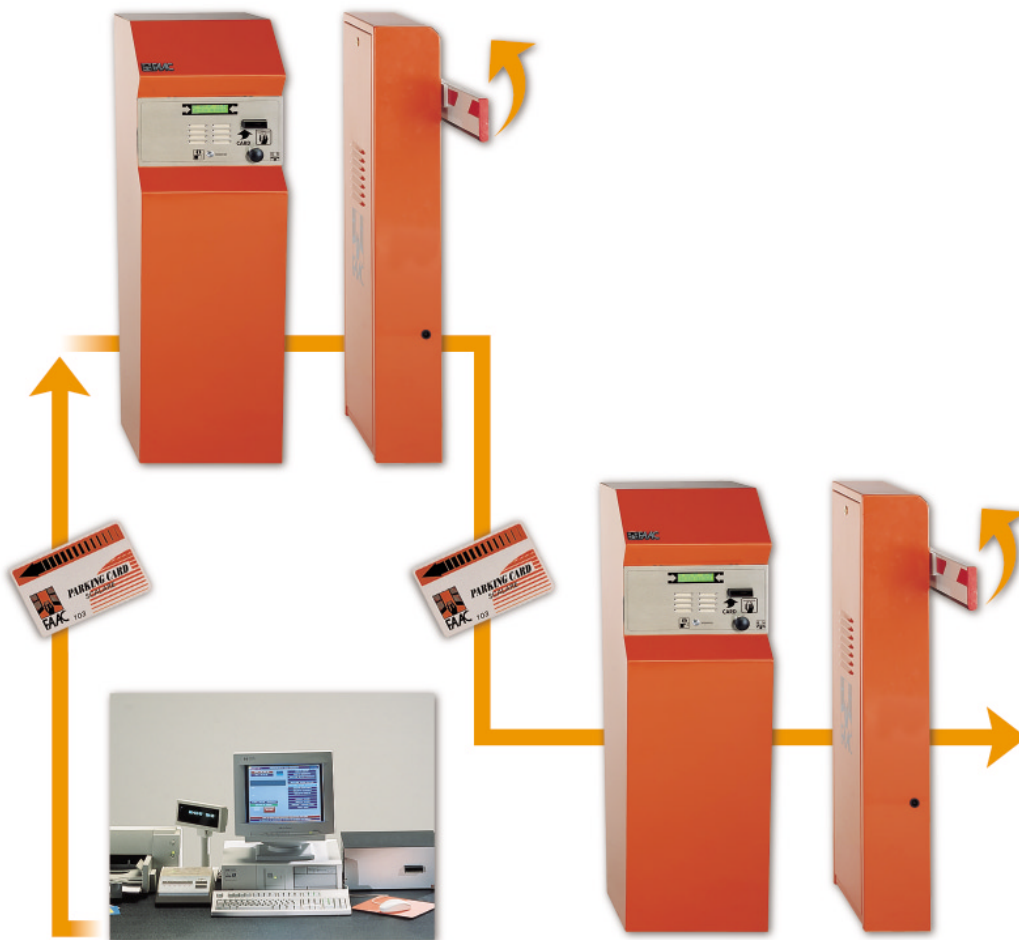


pay parking areas with magnetic card holders management (remote manned toll-booth)



Management, control and signalling of occupancy status

Configuration of parking parameters and setting of tariffs from manned toll-booth/data controller

Antipass-back and black-list controls

Entrance and exit columns with information display for users and intercom with call push-button

Card coding: set-value/time expiry subscription/token/visitors and congress participants/passe-partout/operator

Payment by cash or credit card (optional)

Printing of statistics plus general and shift end accounting summaries

Display of entered/present/exited vehicles and alarms

Management of client details database and card archive

Management of operator priority levels and shift changes

Remote assistance and invoicing software (optional)

Operating system in five languages (I-GB-F-D-ES)/non standard languages (optional)

SPECIFICATIONS

The system consists of a data controller enabling configuration of parking parameters and transmission via network to peripheral units. Peripheral units are: entrance /exit control units and manned toll-booth. The standard system is completed with automatic barriers at entrance/exit, signalling devices such as "parking available/full" panel and lane traffic lights. If the lanes include pedestrian transit points, we advise installing safety photocells with FSW card.

Specifications of individual components follow

Entrance lane/s consisting of:

"Parking available /full" panel signalling the occupancy status.

- Management with CPU card (Entrance unit)
- structure in stainless steel
- plexiglas panels
- luminous, double-face
- traffic lights with two lights: one red (car park full) and one green (parking available)
- power supply: 230V/50Hz
- wall-mounted or on a support pole

BM entrance control unit, designed for reading magnetic cards, it functions on the data network by means of a personal computer.

- Housing in steel sheet with protective cataphoresis treatment, painted with RAL 2004 polyester paint
- front panel in stainless-steel equipped with magnetic card acceptance opening, information display for users, and intercom device with call key
- thermostat piloted heat-ventilation device able to operate in severe weather conditions
- motorised card reader (front insertion)
- magnetic coding system: ISO STANDARD track 2
- information display for users LCD 16x2 characters
- SOS intercom device, with talk-listen facility and call push-button
- microprocessor controlled electronics, designed for connection to network
- operational parameters under buffer battery
- optoisolated interfacing with lane elements (traffic lights, barriers, detector)
- stand-alone operation in case of a fault on the data controller or interruption on connecting line
- vehicle presence detector, and barrier closure command
- weight: 62 kg
- power supply: 230V/50Hz
- max absorbed power: 350W
- operating ambient temperature: -20° C + 50° C

Lane traffic lights, to manage vehicle flow (vehicle stop or go)

- Structure in polycarbonate with two lights: red/green, 200 mm diameter
- incandescent lamps 70W/230V
- wall-mounted or on a support pole

620 Rapid barrier for parking area access control

- Housing in steel sheet with protective cataphoresis treatment, painted with RAL 2004 polyester paint
- hydraulic automation device with control unit and plunger pistons
- balancing spring with adjustable compression
- by-pass valves for adjusting opening and closing torque
- use frequency: 100%
- opening time: 2-3 s
- cooling fan piloted by thermal probe
- travel-limit electronic deceleration
- electronic control equipment with microprocessor
- aluminium beam (max length 4 m) painted white, with red reflective strips, and impact-proof rubber profile on lower edge.
- weight: 73 kg
- power supply: 230V/50Hz
- max absorbed power: 220 W
- operating ambient temperature: -20° C + 55° C

Manned toll-booth/Data controller

Used for configuring all hardware and software parameters of the parking system, in addition to executing all payment operations. The system's equipment:

Central unit

- HP VECTRA Pentium 133 MHz
- MS DOS operating system
- hard disk 1,2 Gb
- floppy disk 1,44 Mb 3"1/2
- 14" SVGA colour video
- standard keyboard (102 keys)
- serial ports: RS 232 (No.2) - RS 422 (No.1)
- parallel ports: CENTRONICS (No.1 + No.1 optional)
- power supply: 230V/50Hz

Toll-booth module

- motorised card reader (front insertion)
- magnetic coding system: ISO STANDARD track 2
- absorbed power: 40W
- power supply: 230V/50Hz
- operating ambient temperature: 0°C +45°C
- weight: 10 Kg

DP 24 desk printer

- impact printer (8 needles)
- connection to PC (Centronics)
- dispensed ticket: user's receipt/accounting summaries
- absorbed power: 30W
- power supply: 230V/50Hz
- operating ambient temperature: 0°C +45°C
- weight: 1 Kg

User display

- fluorescent technology
- 20 characters x 2 lines
- support pedestal
- absorbed power: 2W
- power supply: 24Vdc
- connection to PC via RS 232 serial port

Intercom control unit

- power supply: 230V/50Hz
- 6 user channels with selection key

Data controller software function

- configuration of system hardware parameters: type, capacity, free places, etc.
- configuration of system software parameters: tariff tables, tolerances, lists, etc.
- transmission of parameters to peripheral units: date, time, tariffs, operating mode, etc
- peripheral units alarm management
- management and monitoring of occupancy status
- management of client details database
- management of parking operator priority levels
- antipass-back and black-list controls
- printing of general and shift end accounting summaries
- printing of user movement reports

Toll-booth software functions

- payment by cash or credit cards (optional)
- coding of subscription cards, set-value cards, tokens, visitors and congress participators, passe-partout
- coding of operator cards
- ticket checking and re-enabling procedures
- printing of shift end accounting summaries

Specifications of individual components follow

Exit lane/s consisting of:

BM exit control unit, designed for reading magnetic cards, it functions on the data network by means of a personal computer.

- Housing in steel sheet with protective cathaphoresis treatment, painted with RAL 2004 polyester paint
- front panel in stainless-steel equipped with a second set-value card management push-button, magnetic card acceptance opening, information display for users, and intercom device with call key
- thermostat piloted heat-ventilation device able to operate in severe weather conditions
- motorised card reader (front insertion)
- magnetic coding system: ISO STANDARD track 2
- information display for users LCD 16x2 characters
- SOS intercom device, with talk-listen facility and call push-button
- microprocessor controlled electronics, designed for connection to network
- operational parameters under buffer battery
- optoisolated interfacing with lane elements (traffic lights, barriers, detector)
- stand-alone operation in case of a fault on the data controller or interruption on connecting line
- vehicle presence detector, and barrier closure command
- weight: 62 kg
- power supply: 230V/50Hz
- max absorbed power: 350 W
- operating ambient temperature: -20° C + 50° C.

Lane traffic lights, to manage vehicle flow (vehicle stop or go)

- Structure in polycarbonate with two lights: red/green, 200 mm diameter
- incandescent lamps 70W/230V
- wall-mounted or on a support pole

620 Rapid barrier for parking area exit control

- Housing in steel sheet with protective cathaphoresis treatment, painted with RAL 2004 polyester paint
- hydraulic automation device with control unit and plunger pistons
- balancing spring with adjustable compression
- by-pass valves for adjusting opening and closing torque
- use frequency: 100%
- opening time: 2-3 s
- cooling fan piloted by thermal probe
- travel-limit electronic deceleration
- electronic control equipment with microprocessor
- aluminium beam (max length 4 m) painted white, with red reflective strips, and impact-proof rubber profile on lower edge.
- weight: 73 kg
- power supply: 230V/50Hz
- max absorbed power: 220 W
- operating ambient temperature: -20° C + 55° C