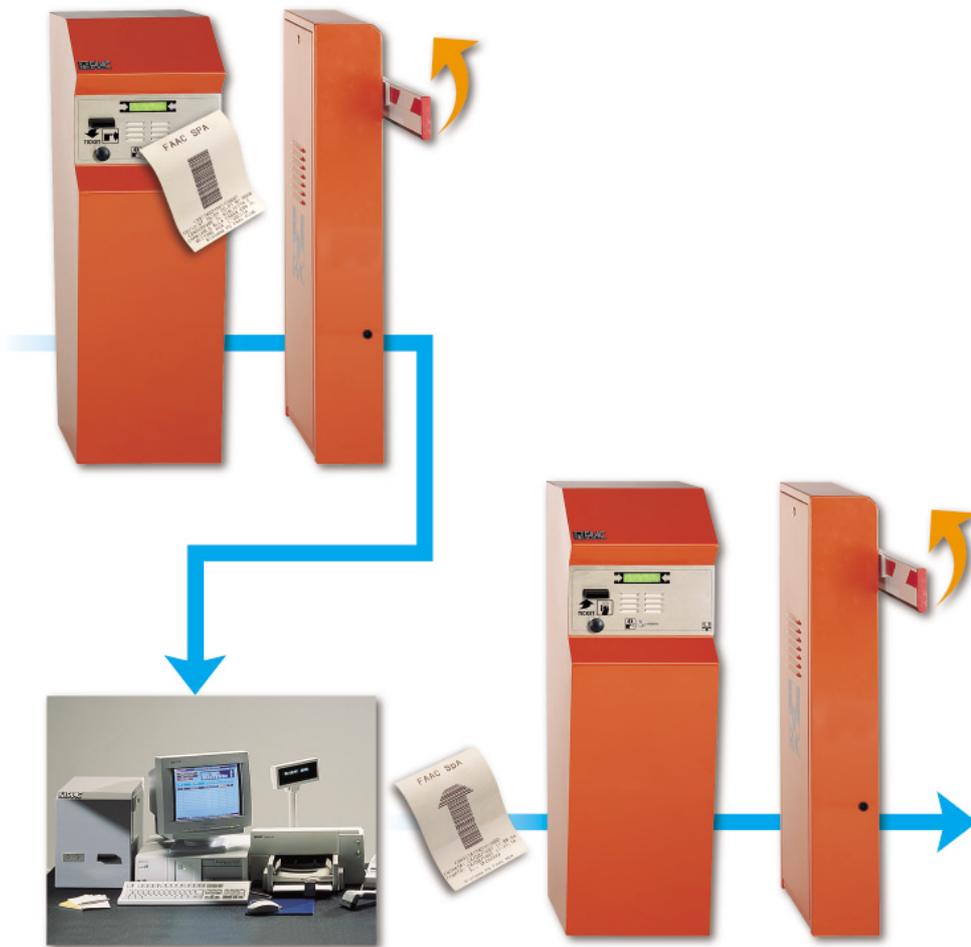


pay parking areas with single-stay user management (remote manned toll-booth)



- Management, control and signalling of occupancy status
- Entrance ticket with barcodes
- Entrance and exit columns with information display for users and intercom with call push-button
- Configuration of parking parameters and setting of tariffs from manned toll-booth/data controller
- Automatic calculation of parking fees by optical scanner reading
- Payment by cash, value coupons or credit card (optional)
- Fee collection by automatic pay-station (optional)
- Illegible or lost ticket functions
- Dispensing of exit receipt with franchise time
- Dispensing of value coupons
- Printing of statistics plus general and shift end accounting summaries
- Display of entered/present/exited vehicles, paid tickets and alarms
- 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, manned toll-booth and automatic pay-station (optional). 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

- BC entrance control unit**, designed for issue of barcoded tickets, 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 ticket request push-button, ticket collection opening, information display for users, and intercom device with call key
 - thermostat piloted heat-ventilation device able to operate in severe weather conditions.
 - motorised barcoded ticket dispensing unit, fed by a continuous paper strip and supplied with self-sharpening cutter.
 - high resolution thermal printer
 - BARCODE 2/5 INTERLEAVED printing system
 - ticket dimensions and weight : 86 x 60 mm - 140 gr.
 - ticket dispensing capability: 3300 max per ticket roll
 - ticket dispensing speed: 19/min max
 - data coded on ticket: punched day/hour/minutes/seconds/ park code/ dispensing unit number/ticket type
 - data printed on ticket: date/hour/minutes/number of dispensed ticket/dispensing unit number/title (3 lines)
 - spare paper signal by optical sensor
 - 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 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.

- Optical scanner**
- keyboard emulation CCD technology
 - manual ticket processing
 - powered by PC

- Toll-booth module**
- exit ticket dispensing
 - high resolution thermal printer
 - motorised barcoded ticket dispensing unit, fed by continuous paper strip and equipped with self-sharpening cutter
 - BARCODE 2/5 INTERLEAVED printing system
 - ticket dimensions and weight : 86 x 60 mm - 140 gr.

- ticket dispensing capability: 3300 max per ticket roll
- data coded on ticket: punched day/hour/minutes/seconds/ park code/ dispensing unit number/ticket type
- data printed on ticket: date/hour/minutes (entrance)/date-hour-minutes-seconds (payment)/amount payable
- absorbed power: 40W
- power supply: 230V/50Hz
- operating ambient temperature: 0°C +45°C
- weight: 17 Kg

User display

- fluorescent technology
- 20 characters x 2 lines
- support pedestal
- absorbed power: 2W
- 24 Vdc power supply
- 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
- printing of general and shift end accounting summaries
- printing of user movement reports

Toll-booth software functions

- single-stay user payments
- illegible or lost ticket functions
- payment by cash, value coupons or credit card (optional)
- dispensing of exit receipt with franchise time
- dispensing of stay ticket and value coupon
- ticket checking and re-enabling procedures
- printing of shift end accounting summaries

Exit lane/s consisting of:

- BC exit control unit**, designed for reading barcoded tickets, 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 receipt request push-button, ticket reading opening, information display for users, and intercom device with call key.
 - thermostat piloted heat-ventilation device able to operate in severe weather conditions
 - motorised barcoded ticket reading unit with franchise time check facility (record)
 - barcode type: 2/5 INTERLEAVED
 - 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 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