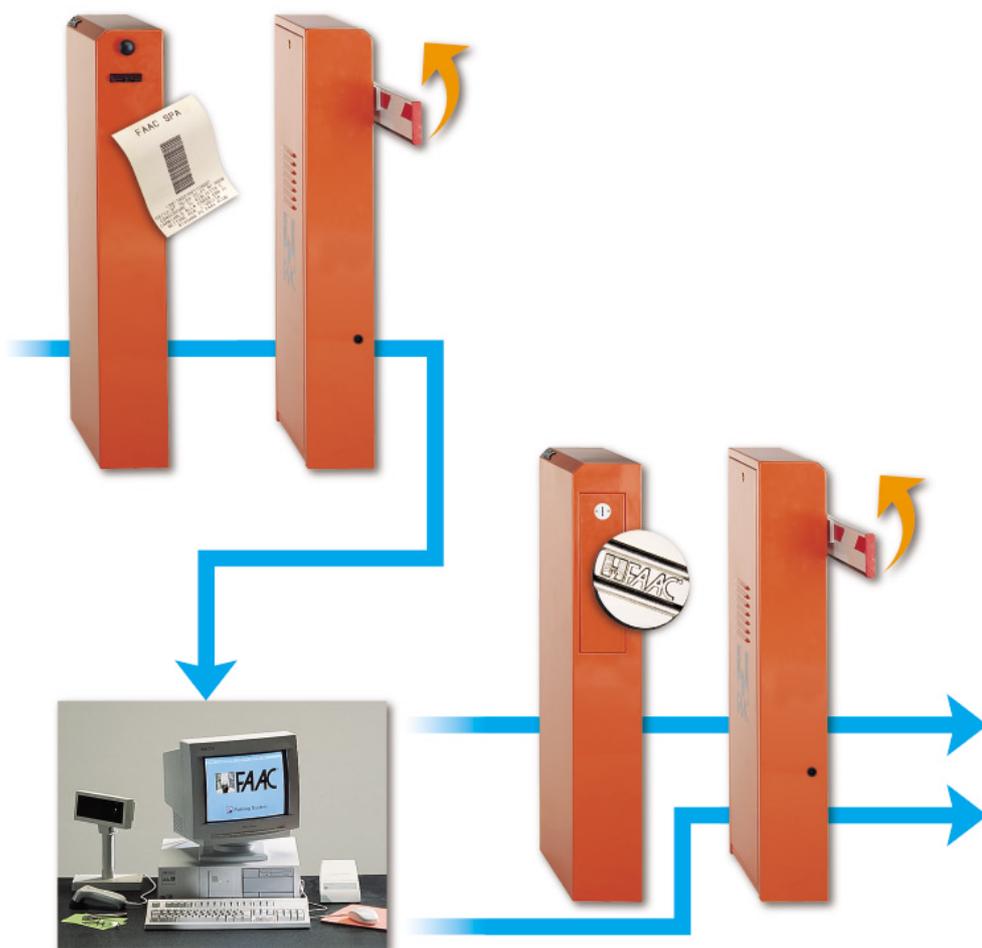


620 PLUS

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



Management, control and signalling of occupancy status

Entrance ticket with barcodes

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

Manual setting of ticket data

Automatic calculation of parking fees by optical scanner reading

Cash payment

Illegible or lost ticket functions

Receipt dispensing

General and shift end accounting summary print-outs

Display of entered/present/exited vehicles, paid tickets and alarms

Exit by token in case of remote toll-booth

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: ticket dispenser, manned toll-booth and token acceptor. 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 (T.D.) card
- 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

Ticket Dispenser 620 PLUS, 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 with ticket request button and ticket collection opening
- heating device piloted by a thermostat to ensure operation even in severe weather conditions
- barcoded ticket dispensing unit, fed by continuous paper strip and equipped with self-sharpening cutter
- high resolution thermal printer
- BARCODE 2/5 INTERLEAVED printing system
- ticket dimensions and weight : 86 x 60 mm - 75 gr.
- ticket dispensing capability: 3000 max per ticket roll
- ticket dispensing speed: 19/min max
- data coded on ticket: date/hour/minutes/seconds/ park code/ dispensing unit number/ticket type
- spare paper signal by optical sensor
- 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: 34 kg
- power supply: 230V/50Hz
- operating ambient temperature: -20° C + 50° C
- max absorbed power: 100 W.

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
- operating ambient temperature: -20° C +55° C
- absorbed power: 220 W.

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
- WINDOWS 3.11/95 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)
- power supply: 230V/50Hz

Optical scanner

- keyboard emulation CCD technology
- manual ticket processing
- powered by PC

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
- 24 Vdc power supply
- connection to PC via RS 232 serial port

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 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
- cash payment
- use as exit lane

Exit lane/s consisting of:

Token acceptor for exiting parking area with a token.

- Housing in steel sheet with protective cataphoresis treatment, painted with RAL 2004 polyester paint
- electro-mechanical equipment preventing insertion of token if no vehicle present
- token acceptance time: 2 s max
- vehicle presence detector, and barrier closure command
- weight: 22 kg
- operating ambient temperature: -20°C +50°C
- absorbed power: 12 W
- power supply: 24 Vdc.

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
- operating ambient temperature: -20° C +55° C
- absorbed power: 220 W.