

PARKING SYSTEMS-ACCESS CONTROL









PLANT BOLOGNA THE ហ Ľ ш

Since 1965, year of foundation, the company's headquarters and production plant are in Zola Predosa, in the industrial area of Bologna. Here, the operators for automating accesses aredesigned, built and tested.

FAAC is organised in keeping with the model of leading modern industrial companies, and its internal architecture too meets space functionality needs. A highly developed IT system manages all important aspects - technical, production, administrative and control - thus increasing overall response capacity and individual efficiency. The plant system, with its modern organisation, provides output



capacity of over six hundred thousand operators per year. FAAC's research in mechanics, hydraulics, and digital electronics enables it to implement on-going technical and technological renewal, assuring its undisputed position at the forefront of its sector.

Plastic model headquarters expansion

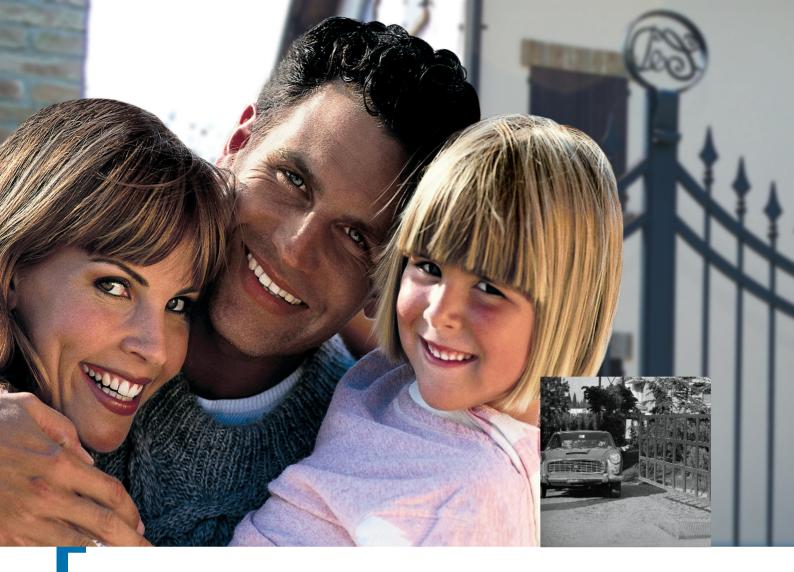


Ζ FAAC ELECTRONICS Ltd is based ហ Í, ECTRONIC in Dublin, Eire. Here, its modern Ш plant is addressed to research, design and production of electronic equipment on the Ζ leading-edge of technology. FAAC ELECTRONICS Ltd became Ш E an integral part of the FAAC ∢ group at the end of the Eighties, FAAC specialising in the production of electronic access control units: Δ microprocessor control Ê HΗE equipment, infra-red ray photocells, radio controls and coded opening systems. Close co-operating between the Bologna

and Dublin design and research departments enables FAAC to offer systems with maximum integration of components and products, thus further enhancing overall quality and reliability.

More then 600 employees and workers, two production plants, WORL two electronic and one mechanical research departments, nine foreign ШH associated companies, plus sixtyfive distributors in as many countries: FAAC is the undisputed DVER leader in automated systems for opening gates and garages, and is a very important company in the European industrial system. ۷ 60% of the production is allocated to the foreign markets. ப

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FAAC has always given maximum attention to accident prevention and safety for gate and door automated systems. This awareness is proven by our

FETY

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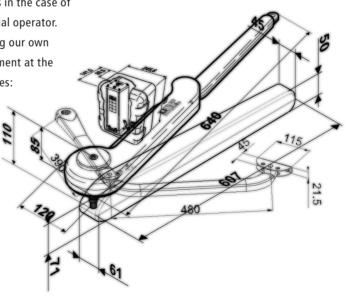
"historic" choice of hydraulic technology, defined as the safest, and by conformity of our products to very latest European norms and regulations for the CE mark.

Before putting the CE mark on its products, FAAC arranged for an independent laboratory to test them, not just individually, but in all their possible combinations in an installation. This means that, in FAAC's case, observing the European standards is not just paying lip-service through mere self-declaration, but something evaluated by a recognised organisation.

In 1965 we introduced hydraulics Ζ **INNOVATIO** in the gate opening sector, and, through the years, we have perfected this technology, adapting it to a multiplicity of needs. Today, FAAC automated systems satisfy both intensive use - just think of the millions of Δ manoeuvres per year of Z motorway barriers - and economic use, as in the case of SIGN the 402 residential operator. We began making our own L electronic equipment at the Δ end of the Eighties: these include

control equipment, radio controls, as well as safety and signalling systems.

FAAC is always a step ahead in electronics too: we were the first to use microprocessors in control units, SMT technology as well as simplified self-learning in radio controls.





- **()** We have a very wide range of products:
- operators for swing-leaf gates
- ۵ - gearmotors for sliding gates
- operators for up-and-over doors Ľ
- barriers ۵
- automatic doors Ш
- parking systems
- Ξ - access control systems
 - operators for window shutters
 - concealed traffic bollards
 - alarm systems

Z FAAC has strengthened itself through the years also in terms of refresher courses covering the ZATI in-house organisation, with the aim of guiding and anticipating the development of the company, GANI through its evolving organisation structure.

- Ř The lay-out of company divisions/posts and the creation
 - of integrated company policies derive from various factors, which include: development of complex sales networks in over

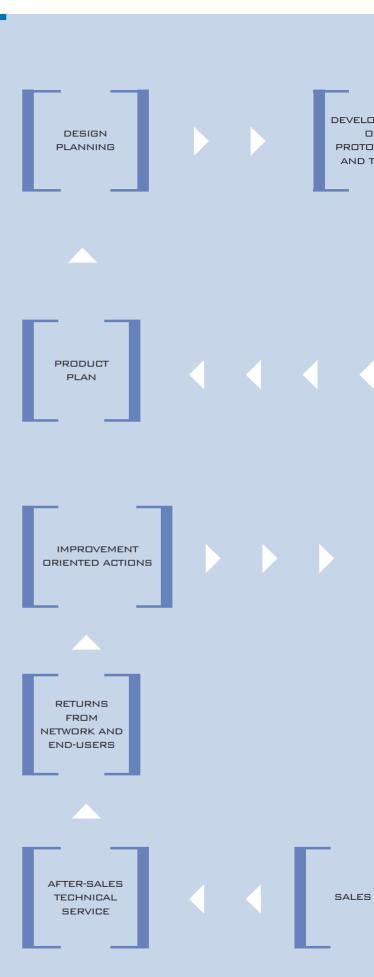
seventy countries, formation and complete range of products, applications and standards for installers, commercial investments in communication.

Quality is the bottom-line of FAAC's philosophy. In February 1996, FAAC obtained UNI EN ISO 9001 certification. Having the certificate means we have taken on a continuing commitment to achieve increasingly ambitious client-satisfaction aims, by producing at competitive prices within planned time.



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PARKING SYSTEMS

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PARKING SYSTEMS

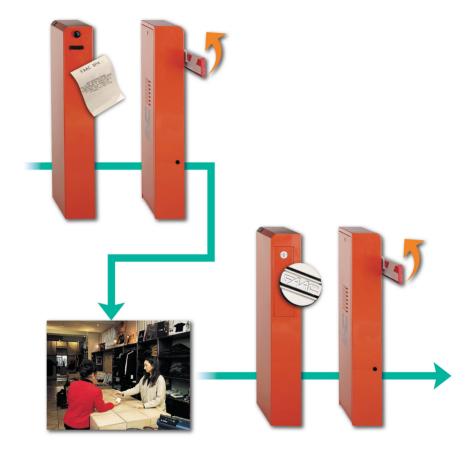
PAY PARKING AREAS

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FREE

620 STANDARD

free or pay parking areas with single-stay user management



CE

- Max configuration 4 entrance and 4 exit lanes
- Management, control and signalling of occupancy status
- Entrance ticket with date and time in alphanumeric characters
- Parking parameters configured by CTM 170 programming unit
- Manual calculation of parking fees
- Display and printing of entered/present/exited vehicles plus alarm display.
- Printing of daily statistical data
- Exit by token in case of remote toll-booth
- Operating system in five languages (I GB F D ES)/non standard languages (optional)

Entrance lane/s consisting of:

"Spaces/full" panel signalling the occupancy status. Management with CPU (T.D.) card

Structure in stainless steel (double-face) and aluminium (one-face) Plexiglas panels

Luminous, double-face and one-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, designed for issuing tickets with alphanumeric characters.

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 Alphanumeric ticket dispensing unit, fed by continuous paper strip and equipped with self-sharpening cutter

High resolution thermal printer

Ticket dimensions and weight : 86 x 60 mm - 75 gr/sqm

Ticket dispensing capability: 3000 max per ticket roll

Ticket dispensing speed: 19/min max

Data coded on ticket: date/hour/minutes/dispensing unit number/ticket sequential number

Spare paper signal by optical sensor

Electronics controlled by a microprocessor, designed for connection to CTM170

Operational parameters under buffer battery

Optoisolated interfacing with lane elements (traffic lights, barriers, detector)

Vehicle presence detector, and barrier closure command

Weight: 34 kg

Power supply: 230V/50Hz

Max absorbed power: 100 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

CTM 170 programming console

For configuring parking area parameters and displaying certain data in real-time

Functions

Configuration and display of number of vehicles in parking area/total number of vehicles entered in parking area/maximum capacity of parking area/date and time/ticket dispenser number/ticket heading/with or without title

Language selection

Alarms display: jammed ticket/ticket requested but uncollected/ spare roll of thermal paper/ clock battery discharged

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

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Weight: 73 kg

Power supply: 230V/50Hz

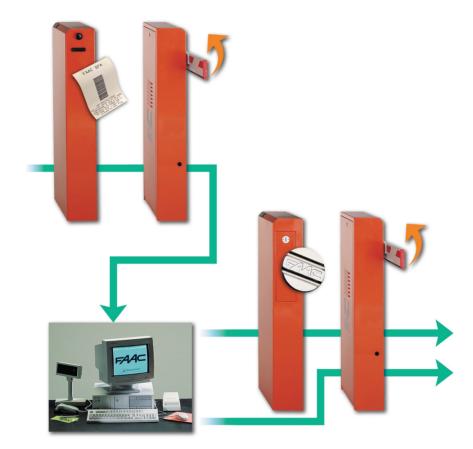
Max absorbed power: 220 W

Operating ambient temperature: -20° C +55° C.

PAY PARKING AREAS

620 PLUS

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



CE

- Max configuration 4 entrance and 4 exit lanes
- 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
- 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)

Entrance lane/s consisting of:
"Spaces/full" panel signalling the occupancy status.
Management with CPU (T.D.) card
Structure in stainless steel (double-face) and aluminium (one-face)
Plexiglas panels
Luminous, double-face and one-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./sqm
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**

Pc Celeron 1,5 Ghz min WINDOWS ME operating system Hard disk 30 Gb Floppy disk 1,44 Mb 3"1/2 - Cd Rom 52X

4" SVGA colour video tandard keyboard (102 keys) erial ports: RS 232 (No.2) onverter: RS 232 - 422 (No.1) arallel ports: CENTRONICS (No.1) ower supply: 230V/50Hz ptical scanner eyboard emulation CCD technology lanual ticket processing owered by PC P 24 desk printer mpact printer (8 needles) onnection to PC (Centronics) ispensed ticket: user's receipt/accounting summaries bsorbed power: 30W - Power supply: 230V/50Hz perating ambient temperature: 0°C +45°C /eight: 1 Kg ser display luorescent technology 0 characters x 2 lines upport pedestal bsorbed power: 2W - 24 Vdc power supply onnection to PC via RS 232 serial port ata 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 oll-booth software functions single-stay user payments illegible or lost ticket functions cash payment use as exit lane Exit lane/s consisting of:

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ousing in steel sheet with protective cataphoresis treatment, painted ith RAL 2004 polyester paint

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ydraulic automation device with control unit and plunger pistons

alancing spring with adjustable compression y-pass valves for adjusting opening and closing torque

se frequency: 100%

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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.

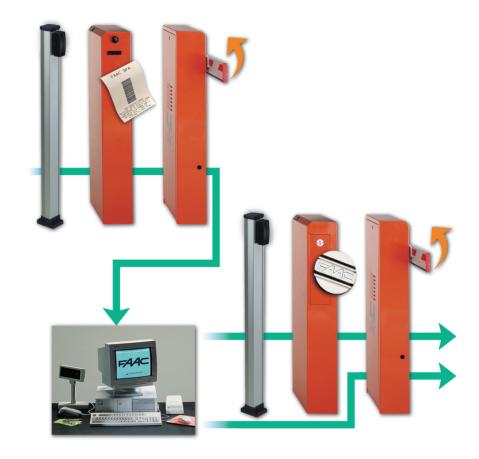
Weight: 73 kg

Power supply: 230V/50Hz Operating ambient temperature: -20° C +55° C Absorbed power: 220 W.

PAY PARKING AREAS

620 DIGIPLUS

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



- Max configuration 4 entrance and 4 exit lanes
- 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
- 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
- Users archive management
- Card users validity management
- Anti pass-back card management
- Operating system in five languages (I-GB-F D-ES)/non standard languages (optional)

Entrance lane/s consisting of

Entrance lane/s consisting of:
"Spaces/full" panel signalling the occupancy status.
Management with CPU (T.D.) card
Structure in stainless steel (double-face) and aluminium (one-face)
Plexiglas panels
Luminous, double-face and one-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./sqm
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 along operation in case of a fault on the data controller or
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.
Swipe magnetic reader DIGIPASS 100
Cabinet for outdoor use
Swipe reader
Magnetic coding system: ISO2
Magnetic coding system: ISO2 Signaling LED red/green
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Manned toll-booth/Data controller

Used for configuring all hardware and software parameters of the par-king system, in addition to executing all payment operations. The system's equipment: Central unit Pc Celeron 1,5 Ghz min

WINDOWS ME operating system	
Hard disk 30 Gb Floppy disk 1,44 Mb 3″1/2 - Cd Rom 52X	
14" SVGA colour video	
Standard keyboard (102 keys)	
Serial ports: RS 232 (No.2)	
Converter: RS 232 - 422 (No.1)	222
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 padactal	
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 pla-	
ces, etc.	
- configuration of system software parameters: tariff tables, tolerances,	
lists, etc. - transmission of parameters to peripheral units: date, time, tariffs, ope-	
rating 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	
 single-stay user payments 	
- single-stay user payments - illegible or lost ticket functions	
- illegible or lost ticket functions - cash payment - use as exit lane	
- illegible or lost ticket functions - cash payment	
- illegible or lost ticket functions - cash payment - use as exit lane	L
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PAY PARKING AREAS

BC

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



WP3

- 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 tollbooth/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 exit receipt with franchise time
- 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)
- WP3 software management under Windows 2000 Professional environment with SQL database

Entrance lane/s consisting

Entrance lane/s consisting of:	Motorised barcoded ticket dispensing unit, fed by continuous paper
"Parking available /full" panel signalling the occupancy status.	strip and equipped with self-sharpening cutter BARCODE 2/5 INTERLEAVED printing system
Management with CPU card (Entrance unit)	Ticket dimensions and weight : 86 x 60 mm - 140 gr./sqm
Structure in stainless steel (double-face) and aluminium (one-face) Plexiglas panels	Ticket dispensing capability: 3300 max per ticket roll
Luminous, double-face and one-face	Data coded on ticket: punched day/hour/minutes/seconds/ park code/dispensing unit number/ticket type
Traffic lights with two lights: one red (car park full) and one green	Data printed on ticket: date/hour/minutes (entrance)/date-hour-minutes-
(parking available)	seconds (payment)/amount payable
Power supply: 230V/50Hz Wall-mounted or on a support pole	Absorbed power: 40W - Power supply: 230V/50Hz
BC entrance control unit , designed for issue of barcoded tickets, it	Operating ambient temperature: 0°C +45°C Weight: 17 Kg
functions on the data network by means of a personal computer.	User display
Housing in steel sheet with protective cataphoresis treatment, painted	Fluorescent technology
with RAL 2004 polyester paint Front panel in stainless-steel equipped with ticket request push-button,	20 characters x 2 lines Support pedestal
ticket collection opening, information display for users, and intercom	Absorbed power: 2W
device with call key	24 Vdc power supply
Thermostat piloted heat-ventilation device able to operate in severe weather conditions.	Connection to PC via RS 232 serial port
Motorised barcoded ticket dispensing unit, fed by a continuous paper	Intercom control unit Power supply: 230V/50Hz
strip and supplied with self-sharpening cutter.	6 user channels with selection key (12 channels optional)
High resolution thermal printer BARCODE 2/5 INTERLEAVED printing system	Data controller software function
Ticket dimensions and weight : 86 x 60 mm - 140 gr./sqm	 configuration of system hardware parameters: type, capacity, free places, etc.
Ticket dispensing capability: 3300 max per ticket roll	- configuration of system software parameters: tariff tables, tolerances,
Ticket dispensing speed: 19/min max	lists, etc.
Data coded on ticket: punched day/hour/minutes/seconds/ park code/dispensing unit number/ticket type	 transmission of parameters to peripheral units: date, time, tariffs, aparating mode, etc.
Data printed on ticket: date/hour/minutes/number of dispensed	operating mode, etc - peripheral units alarm management
ticket/dispensing unit number/title	- management and monitoring of occupancy status
Spare paper signal by optical sensor Information display for users LCD 16x2 characters	- management of client details database
SOS intercom device, with talk-listen facility and call push-button	 management of parking operator priority levels printing of general and shift end accounting summaries
Microprocessor controlled electronics, designed for connection to	- printing of user movement reports
network	Toll-booth software functions
Operational parameters under buffer battery Optoisolated interfacing with lane elements (traffic lights, barriers,	- single-stay user payments
detector)	 illegible or lost ticket functions payment by cash, value coupons or credit card (optional)
Stand-alone operation in case of a fault on the data controller or	- dispensing of exit receipt with franchise time
interruption on connecting line Vehicle presence detector, and barrier closure command	 dispensing of stay ticket and value coupon
Weight: 62 kg	 ticket checking and re-enabling procedures printing of shift end accounting summaries
Power supply: 230V/50Hz	
Max absorbed power: 350 W Operating ambient temperature: -20° C + 50° C	Exit lane/s consisting of:
Lane traffic lights, to manage vehicle flow (vehicle stop or go)	BC exit control unit, designed for reading barcoded tickets, it functions
Structure in polycarbonate with two lights: red/green, 200 mm diameter	on the data network by means of a personal computer.
Incandescent lamps 70W/230V	Housing in steel sheet with protective cataphoresis treatment, painted
Wall-mounted or on a support pole 620 Rapid barrier for parking area access control	with RAL 2004 polyester paint Front panel in stainless-steel equipped with receipt request push-
Housing in steel sheet with protective cataphoresis treatment, painted	button, ticket reading opening, information display for users, and
with RAL 2004 polyester paint	intercom device with call key.
Hydraulic automation device with control unit and plunger pistons Balancing spring with adjustable compression	Thermostat piloted heat-ventilation device able to operate in severe
By-pass valves for adjusting opening and closing torque	weather conditions Motorised barcoded ticket reading unit with franchise time check facility (record)
Use frequency: 100%	Barcode type: 2/5 INTERLEAVED
Opening time: 2-3 s Cooling fan piloted by thermal probe	Information display for users LCD 16x2 characters SOS intercom device, with talk-listen facility and call push-button
Travel-limit electronic deceleration	Microprocessor controlled electronics, designed for connection to network
Electronic control equipment with microprocessor	Operational parameters under buffer battery
Aluminium beam (max length 4 m) painted white, with red reflective strips, and impact-proof rubber profile on lower edge.	Optoisolated interfacing with lane elements (traffic lights, barriers,
Weight: 73 kg	detector) Stand-alone operation in case of a fault on the data controller or
Power supply: 230V/50Hz	interruption on connecting line
Max absorbed power: 220 W Operating ambient temperature: -20° C + 55° C	Vehicle presence detector, and barrier closure command
	Weight: 62 kg Power supply: 230V/50Hz
Manned toll-booth/Data controller	Max absorbed power: 350 W
Used for configuring all hardware and software parameters of the	Operating ambient temperature: -20°C + 50°C
parking system, in addition to executing all payment operations.	Lane traffic lights, to manage vehicle flow (vehicle stop or go) Structure in polycarbonate with two lights: red/green, 200 mm diameter
The system's equipment:	Incandescent lamps 70W/230V
Central unit Pc Celeron 1,7 Ghz min	Wall-mounted or on a support pole
Windows 2000 Professional operating system	620 Rapid barrier for parking area exit control
Hard disk 30 Gb	Housing in steel sheet with protective cataphoresis treatment, painted with RAL 2004 polyester paint
Floppy disk 1,44 Mb 3"1/2 Cd Rom 48X 15" colour video (17" optional - LCD - Touch Screen)	Hydraulic automation device with control unit and plunger pistons
Standard keyboard (102 keys)	Balancing spring with adjustable compression
Serial ports: RS 232 (No.4)	By-pass valves for adjusting opening and closing torque
Converter RS 232 - 422 (No. 1) ISDN Modem	Use frequency: 100% Opening time: 2-3 s
Parallel ports: CENTRONICS (No.1)	Cooling fan piloted by thermal probe
Power supply: 230V/50Hz.	Travel-limit electronic deceleration
Optical scanner	Electronic control equipment with microprocessor Aluminium beam (max length 4 m) painted white, with red reflective
Keyboard emulation CCD technology Manual ticket processing	strips, and impact-proof rubber profile on lower edge.
Powered by PC	Weight: 73 kg
Toll-booth module	Power supply: 230V/50Hz Max absorbed power: 220 W

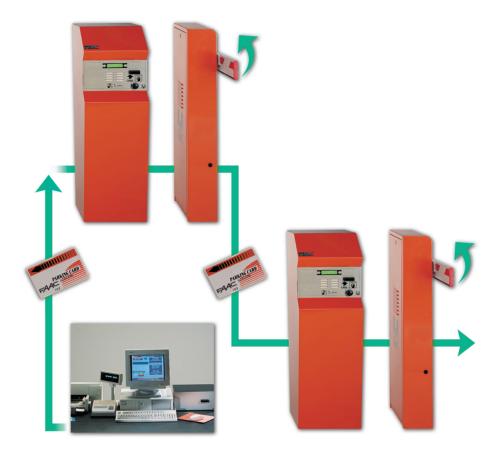
Exit ticket dispensing

High resolution thermal printer

PAY PARKING AREAS

BM

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



WP3

- Management, control and signalling of occupancy status
- Configuration of parking parameters and setting of tariffs from mannedn 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 and pre paid card
- 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)
- WP3 software management under Windows 2000 Professional environment with SQL database

Entrance lane/s consisting of:	User display
"Spaces/full" panel signalling the occupancy status.	Fluorescent techno
Management with CPU card (Entrance unit)	20 characters x 2
Structure in stainless steel (double-face) and aluminium (one-face)	Support pedestal Absorbed power: 2
Plexiglas panels	Power supply: 24V
Luminous, double-face and one-face	Connection to PC
Traffic lights with two lights: one red (car park full) and one green	Intercom control
(parking available)	Power supply: 230
Power supply: 230V/50Hz	6 user channels wi
Wall-mounted or on a support pole	Data controller s
BM entrance control unit, designed for reading magnetic cards, it	 configuration of
functions on the data network by means of a personal computer.	places, etc.
Housing in steel sheet with protective cataphoresis treatment, painted	 configuration of
with RAL 2004 polyester paint	lists, etc.
Front panel in stainless-steel equipped with magnetic card acceptance	 transmission of p
opening, information display for users, and intercom device with call key	operating mode,
Thermostat piloted heat-ventilation device able to operate in severe weather conditions	 peripheral units
Motorised card reader (front insertion)	- management an
Magnetic coding system: ISO STANDARD track 2	- management of
Information display for users LCD 16x2 characters	- management of
SOS intercom device, with talk-listen facility and call push-button	- antipass-back ar
Microprocessor controlled electronics, designed for connection to	 printing of gener printing of user
network	Toll-booth softwa
Operational parameters under buffer battery	- pre paied card
Optoisolated interfacing with lane elements (traffic lights, barriers,	 payment by cash
detector)	- coding of subscr
Stand-alone operation in case of a fault on the data controller or	congress particip
interruption on connecting line	- ticket checking a
Vehicle presence detector, and barrier closure command	 printing of shift
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)	BM exit control u
Structure in polycarbonate with two lights: red/green, 200 mm diameter	on the data netwo
Incandescent lamps 70W/230V	Housing in steel sl
Wall-mounted or on a support pole	with RAL 2004 po
620 Rapid barrier for parking area access control	Front panel in stai
Housing in steel sheet with protective cataphoresis treatment, painted	opening, informat Thermostat pilote
with RAL 2004 polyester paint	weather condition
Hydraulic automation device with control unit and plunger pistons	Motorised card rea
Balancing spring with adjustable compression	Magnetic coding s
By-pass valves for adjusting opening and closing torque	Information displa
Use frequency: 100%	SOS intercom devi
Opening time: 2-3 s	Microprocessor co
oCooling fan piloted by thermal probe Travel-limit electronic deceleration	network
Electronic control equipment with microprocessor	Operational paran
Aluminium beam (max length 4 m) painted white, with red reflective	Optoisolated inter
strips, and impact-proof rubber profile on lower edge.	detector)
Weight: 73 kg	Stand-alone opera
Power supply: 230V/50Hz	interruption on co
Max absorbed power: 220 W	Vehicle presence o
Operating ambient temperature: -20° C + 55° C	Weight: 62 kg
· · · · · · · · · · · · · · · · · · ·	Power supply: 230 Max absorbed pov

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** Pc Celeron 1,7 Ghz min Windows 2000 Professional operating system Hard disk 30 Gb Flopp disk 1,44 Mb 3"1/2 - Cd Rom 48X 15" SVGA colour video (17" - LCD - Touch Screen optional) Standard keyboard (102 keys) Serial ports: RS 232 (No.4) Converter RS 232 - 422 (No.1) ISDN modem Parallel ports: CENTRONICS 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

ology lines 2W Vdc

via RS 232 serial port unit

0V/50Hz

vith selection key (12 channels optional) software function

- system hardware parameters: type, capacity, free
- f system software parameters: tariff tables, tolerances,
- parameters to peripheral units: date, time, tariffs, , etc
- alarm management
- nd monitoring of occupancy status
- client details database
- parking operator priority levels
- nd black-list controls
- eral and shift end accounting summaries
- movement reports

are functions

- sh, pre paid card or credit cards (optional) cription cards, set-value cards, tokens, visitors and ipators, passe-partout
- and re-enabling procedures end accounting summaries

Exit lane/s consisting of:

unit, designed for reading magnetic cards, it functions ork by means of a personal computer.

sheet with protective cataphoresis treatment, painted olyester paint inless-steel equipped with magnetic card acceptance

tion display for users, and intercom device with call key ed heat-ventilation device able to operate in severe

eader (front insertion)

system: ISO STANDARD track 2

ay for users LCD 16x2 characters rice, with talk-listen facility and call push-button ontrolled electronics, designed for connection to

meters under buffer battery

erfacing with lane elements (traffic lights, barriers,

ration in case of a fault on the data controller or

onnecting line

detector, and barrier closure command

0V/50Hz

wer: 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

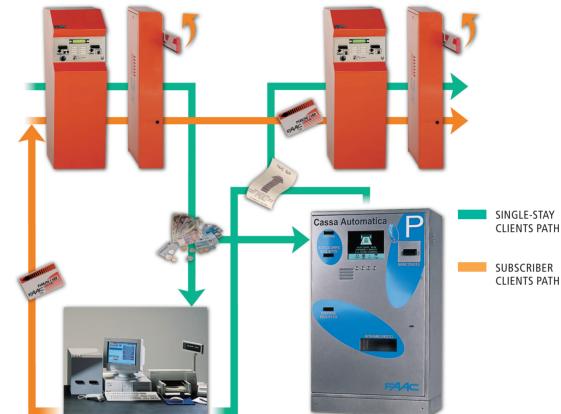
Operating ambient temperature: -20° C + 55° C

AREAS

PAY PARKING

BCM

pay parking areas for single-stay users and magnetic card holders management (remote or in-lane manned toll-booth)



CE

WP3

- 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 tollbooth/data controller
- Automatic calculation of parking fees by optical scanner reading
- Antipass-back and black-list controls
- Card coding: set-value/time expiry subscription/token/visitors and congress participants/passe-partout/operator
- Payment by cash, pre paid card, 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 client details database and card archive
- Management of operator priority levels and shift changes
- Remote assistance and invoicing software (optional)
- WP3 software management under Windows 2000 Professional environment with SQL database

(parking available) Power supply: 230V/S0Hz Wall-mounted or on a support pole BCM entrance control unit, designed for dispensing of barcoded tickets and reading of 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 ticket request push-button, ticket collection opening, 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 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 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 issued ticket/dispensing unit number/ticket type Data printed on ticket: date/hour/minutes/number of issued ticket/dispensing unit number/ticket type Data printed on ticket: So 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: 63 kg Power supply: 230V/SOH2 - 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 totrol unit and plunger pistons Balancing spring with adjustable compression By-pass valves for adjusting opening and cl	Management with CPU card (Entrance unit) Structure in stainless steel (double-face) and aluminium (one-face) Plexiglas panels Luminous, double-face and one-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 BCM entrance control unit, designed for dispensing of barcoded tickets and reading of 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 ticket request push-button, ticket collection opening, 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 barcoded ticket dispensing unit, fed by continuous paper strip and equipped with self-sharpening cutter High resolution thermal printer BARCODE 2/S INTERLEAVED printing system Ticket dispensing apability: 3300 max per ticket roll Ticket dispensing apability: 3300 max per ticket roll Ticket dispensing apability: 3300 max per ticket roll Ticket dispensing unit number/ticket type Data roited on ticket: tarch/bour/minutes/scends/ park code/dispensing unit number/ticket type Data printed on ticket: disc/hour/minutes/number of issued ticket/dispensing unit number/ticket type Data printed electronics, designed for connection to network Operational parameters under buffer battery Optioslated and reader (front insertion) Magnetic coding system: ISO STANDARD track 2 Information display for users LCD 16A2 characters SOS intercom device, with talk-listen facility and call push-button Microprocessor controlled electronics, designed for connection to network 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 m	Entrance lane/s consisting of:
Structure in stainless steel (double-face) and aluminium (one-face) Plexiglas panels Luminous, double-face and one-face Traffic lights with two lights: one red (car park full) and one green (parking available) Power supply: 230V/50H2 Wall-mounted or on a support pole BCM entrance control unit, designed for dispensing of barcoded tickets and reading of 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 From panel in stainless-steel equipped with ticket request push-button, ticket collection opening, 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 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 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 issued ticket/dispensing unit number/ticket type Data printed on ticket: date/hour/minutes/number of issued ticket/dispensing unit number/ticket type Data printed on ticket	Structure in stainless steel (double-face) and aluminium (one-face) Plexiglas panels Luminous, double-face and one-face Traffic lights with vol lights: one red (car park full) and one green (garking available) Power supply: 230V/50Hz Mall-mounted or on a support pole BCM entrance control unit, designed for dispensing of barcoded tickets and reading of 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 ticket request push-button, ticket collection opening, magnetic card acceptance opening information display for users, and intercom device with call key Thermostar plioted heat-ventilation device able to operate in severe weather conditions Motorised 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 dispensing capability: 3300 max pper ticket roll Ticket dispensing capability: 3300 max pper ticket roll Ticket dispensing capability: 3300 max pper ticket roll Ticket dispensing unit number/ticket type Data printed on ticket: ider/hour/minutes/number of issued ticket/dispensing unit number/ticle Spare paper signal by optical sensor Motorised barcoded cickens cay classes control Magnetic coding system: ISO STANDARD track 2 Information display for uses ICD 16A2 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 (trafic lights, barriers, detector) Eada diverse of the parking area access control Weight: 63 kg Opening time: 2-3 s Control unit active apport pole 620 Rapid System Torol active evice that ponter Weight: 62 kg Opening time: 2-3 s Control equiper with more classes control Housing in theel sheet with protective cataphore	"Spaces/full" panel signalling the occupancy status.
Plexiglas panels Luminous, double-face and one-face Traffic lights with two lights: one red (car park full) and one green (parking available) Power supply: 2300/50Hz Wall-mounted or on a support pole BCM entrance control unit, designed for dispensing of barcoded tickets and reading of magnetic cards, it functions on the data network by means of a personal computer. Housing in steal 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, 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 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 dispensing capability: 3300 max per ticket roll Ticket dispensing capability: 3300 max per ticket roll Ticket dispensing capability: 3300 max per ticket roll Ticket dispensing apaped: 19/min max Data coded on ticket: punched day/hour/minutes/seconds/ park code/dispensing unit number/ticket type Data printed on ticket: touched day/hour/minutes/seconds/ park code/dispensing unit number/ticket type Data printed on ticket: tour loss 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: 63 kg Power supply: 2300/S0HZ - Max absorbed power: 350 W Operating ambient temperature: -20° C + 55° C Max absorbed power: 20 W Maneed toll-booth/Data controller	Plexiglas panels Luminous, double-face and one-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 BCM entrance control unit, designed for dispensing of barcoded tickets and reading of 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 ticket request push-button, ticket collection opening, 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 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 dispensing speed: 19/min max Data coded on ticket: apunched day/hour/minutes/seconds/ park code/dispensing unit number/title Spare paper signal by optical sensor 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 Optioslated 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: 63 kg 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 700V/230V Wall-mounted or on a support pole 620 Rapid barrier for parking area access control Housing in teel sheet with protective cataphoresis treatment, painted	Management with CPU card (Entrance unit)
Luminous', double-face and one-face Traffic lights with two lights: one red (car park full) and one green (garking available) Power supply: 230V/S0H2 Wall-mounted or on a support pole BCM entrance control unit, designed for dispensing of barcoded tickets and reading of 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 ticket request push-button, ticket collection opening, magnetic card acceptance opening information display for users, and intercom device with call key Thermostat piloted heat-ventilation device able to operate in sever weather conditions Motorised 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 dispensing apability: 3300 max per ticket roll Ticket dispensing apped: 19/min max Data coded on ticket: punched day/hour/minutes/seconds/ park code/dispensing unit number/title Spare paper signal by optical sensor 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 lectronics, designed for connection to network Operational parameters under buriter battery Optoisolated interfacing with lane elements (traffic lights, barriers, detector). Stand-alone operation in a support pole 20 Rapid Barrier for parking area access control Housing in steel sheet with protective cataphoresis treatment, painted with RAL 2004 polyseter paint Hydraulic automation device with control unit and plunger pistons Balancinde vice with protective cataphoresis treatment, painted Weight: 63 kg Power supply: 230V/S0HZ - Max absorbed power: 350 W Operating and barrier for paint with witer dereflective strips, and lampd-arbent prote Iravel-limit electronic	Luminous, double-face and one-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 BCM entrance control unit, designed for dispensing of barcoded tickets and reading of 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 ticket request push-button, ticket collection opening, 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 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 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 issued ticket/dispensing unit number/ticket type Data printed on ticket: date/hour/minutes/number of issued ticket/dispensing unit number/ticket type Data printed on ticket: date/hour/minutes/number of SOS intercom device, with talk-listen facility and call push-button Microprocessor controlled electronics, designed for connection to network Operational parameters under buffer battery Optioslated 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: 63 kg Power supply: 230V/SOHz - 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 lig	
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BARCODE 2/5 INTERLEAVED printing system Ticket dimensions and weight: 86 x 60 mm - 140 gr/sqm 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 issued ticket/dispensing unit number/title Spare paper signal by optical sensor 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: 63 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 Operating ambient temperature: -20° C + 55° C Max absorbed power: 220 W	BÅRCODE 2/5 INTERLEAVED printing system Ticket dispensing capability: 380 with a full of prisma and the system Ticket dispensing speed: 19/min max Data coded on ticket: punched day/hour/minutes/seconds/ park code/dispensing unit number/titket type Data printed on ticket: date/hour/minutes/number of issued ticket/dispensing unit number/titket type Data printed on ticket: date/hour/minutes/number of issued ticket/dispensing unit number/titket type Data printed on ticket: date/hour/minutes/number of issued ticket/dispensing unit number/titket type Data printed on ticket: date/hour/minutes/number of issued ticket/dispensing unit number/titket type Data printed on ticket: date/hour/minutes/number of issued ticket/dispensing unit number/titket type Data printer or 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: Ga 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 microproces	
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	Central unit Pc Celeron 1,7 Ghz min	
Central unit		Central unit
	Windoos (UU)) Brotossional energing system	
	Hard disk 30 Gb	Windoes 2000 Professional operating system

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-seconds (entrance)/date-hour-minutes-seconds (payment)/amount paid 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: 18 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 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
- single-stay user payments
 illegible or lost ticket functions
- payment by cash, magnetic cards, value coupons and credit cards (optional)
- dispensing of exit receipt with franchise time
- dispensing of stay ticket and value coupon
- coding of subscription cards, set-value cards, tokens, visitors and congress participators, passe-partout ticket checking and re-enabling procedures printing of shift end
- accounting summaries use on exit lane

Exit lane/s consisting of:

BCM exit control unit, designed for reading of barcoded tickets and reading of 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 receipt request push-button, tic-

ket reading opening, 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 barcoded ticket reading unit with franchise time check facility (record)

Barcode type: 2/5 INTERLEAVED 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: 63 kg Power supply: 230V/50Hz - Max absorbed power: 350 W Departing ambient temperature: -20° 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 Weight: 73 kg Power supply: 230V/50Hz Operating ambient temperature: -20° C + 55° C Max absorbed power: 220 W. Operating ambient temperature: -20° C + 55° C

High resolution thermal printer Motorised barcoded ticket dispensing unit, fed by continuous paper strip

Serial ports: RS 232 (No.4) Converter RS 232 - 422 (No.1)

Manual ticket processing Powered by PC Toll-booth module

Exit ticket dispensing

Parallel ports : CENTRONICS (No.1) Power supply: 230 V / 50 Hz Optical scanner

Keyboard emulation CCD technology

ISDN modem

and equipped with self-sharpening cutter BARCODE 2/5 INTERLEAVED printing system Ticket dimensions and weight : 86 x 60 mm - 140 gr./sqm

Hard disk 30 Gb Floppy disk 1,44 Mb 3"1/2 - Cd Rom 48X 15" SVGA colour video (17" - LCD - Touch Screen optional)

Standard keyboard (102 keys) - Note: Indicative values: 5 B1

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WP 3

the third generation of car park management software

The parking systems management software has reached its third generation.

WP3 is the new multitasking application system developed by FAAC, based on Windows 2000. Its maximum configuration modularity means it can satisfy the requirements of both large, complex and small car park management systems.

Connection capability to telecommunications systems such as modems, as well as local and

WP3 CASISA MANUALE Fie Amministratione Zoom [Chi Z] Diagnostica ?		geographic networks enables monitoring and remote management of parks. You can now easily do the following jobs either from the
Totale € 105,00 Pagato € 120,00 Resto € 15,00	SOSTA OCCASIONALE BIGLIETTO D'ENTRATA ENTRATO IL : 14/11/2002 ALLE ORE : 09.15 PAGATO IL : 14/11/2002 ALLE ORE : 15.55 CATEGORIA VEICOLO: Mattovetture TENPO SOSTA : 0.402 Importo sosta € 105,00	central control point of from an authorised point: update configurations and tariffs, view the system as a whole, and control economic situation as well as operational efficiency. You can also centralise takings and transactions received from a set of car parks in different places, or produce tickets and the like such as subscriber cards from a single remote manned point. Use of the software as a whole is facilitated by easy-to- understand graphics and by an on-line help function you can put into operation at any time.
Libologi	e di pagamento	
F1 Heb F2 Calcola resto F3	Scorito F4 Collega Anagiafica F5 Pagamento Posticipato	The WP3 system consists of four different application programs as described below:
F6 Annula F7 Fatturazione Immediata F8	Fatturscione Posticipata F9 Termina con ricevuta F10 Termina	WP3-Basic Module/Report Manager The Basic Module contains the system database - an SQL

sic Module/Report Manager

c Module contains the system database - an SQL reporting database.

It contains all the system data required for the operation and configuration of the car park.

The report manager resident in the module makes it possible to view, print and export transactions. WP3-Pay Station Module/Park Desk

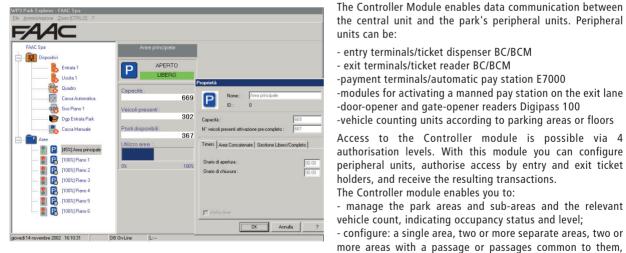
The Pay Station Module is used for managing the car park's pay station and, therefore, all the payment and interaction modes between cashier and Customer.

This module enables payment of occasional parking, or the sale of tickets and the like such as subscriber cards, prepaid set-value cards and value coupons.

Various types of payment are possible: cash, set-value cards, and credit cards.

Tariff management is highly configurable, with up to 99 different tariff profiles possible.

Moreover tariffs can be distinguished according to vehicle category, or parking area, e.g. car area, bus area



WP3-Controller Module/Park Explorer

and concentric sub-areas;

- view the operational status of the peripheral units in general and of the tickets management modules in particular, thus providing speedy information also during transactions with the Customer.

WP3-Invoicing Module/Invoice

The Invoicing Module is a completely new program introduced with WP3. It enables issue of immediate invoices for each sale or cumulative invoices deferred to end of month, i.e. referring to a series of transactions for the same requesting body or person.

This software can operate both as a stand-alone application for issuing invoices for any type of activity carried out by the Customer, and in integrated mode with WP3, for issuing invoices for tickets and cards linked to parking area management.

-WAR **JAR PARK MANAGEMENT**

FUNCTION CHARACTERISTICS OF THE WP3-INVOICE

Simultaneous management of several Companies - With WP3-Invoice, the same hardware and database can be shared for simultaneously managing several companies. By using separate parkcodes, all information concerning different parks (or other types of companies) can be kept separate.

Customer Management Functions - Customer management is based on a table shared with the other WP3 modules. Therefore, all information about Customers can be managed both from this module and from the others. A 'group-head' Customer can be associated with a Customer, and all invoices concerning the latter are attributed to the 'group-head'.

Management Functions for items/services and relevant parametering - The software manages the database for the available services/items. The following are indicated for each item/service: code, description, cost, VAT to apply, and three possible classification values, useful for producing periodic statistics. For example, a relevant cost centre, as well as a goods category and type can all be associated.

Furthermore, one or more input parameters, to be requested at invoice issue, can be defined. For example, if a 'car hire' service is concerned, the system can be set up so that, when the invoice is generated, the vehicle number plate and the driver's licence number are always requested.

User Management Functions - IThe software makes it possible to manage Users in line with the latest privacy regulations. In particular, System Users can be defined, and their relevant access 'level' to the system can be assigned. Furthermore, the most recently effected connections can be monitored so that Users who have not been connected for some time may be disabled.

> Invoicing of Transactions for issue of Tickets and the like- WP3-Invoice is able to invoice transactions for the issue of tickets and the like in two different ways.

> a) Immediate invoicing of transactions for issue of tickets and the like WP3: Invoice can be activated directly from the Pay Station management program in order to immediately issue and print the invoice for the current transaction.

> b) Deferred invoicing of transactions for issue of tickets and the like: Alternatively, the Pay station program can be used to just record the transaction and mark it suitably so that the relevant invoicing can be done at the User's request during a subsequent start of WP3-Invoice.

Invoicing of services and items - In addition to the transactions concerning the issue of tickets and the like, WP3-Invoice can also invoice further items and services. The program can of course be used even if there are no 'pending' transactions, and, therefore, it can be used also independently of park management. For each invoiced item, a percentage discount can be specified, in addition to the quantity of course.

> Invoice Numbering Management - The number of the invoice being issued is calculated to enable:

> · management of several series, for those with several accounting systems;

> a start of numbering digit other than number one, for those wishing to use the software during an accounting period already under way;

> • management of financial year closure at a date other than 31/12.

Bill-book and Reminders - Information is available at any time on which invoices are due or overdue, so that payment can be urged.

Payments crosscheck - WP3-Invoice manages settlement of invoices not paid immediately, to enable to crosscheck the relevant bank transfers (of other types of delayed payments). This also provides information, by means of statistics, about the status of receivables.

Invoice Printing/Reprinting - The issued invoices can be printed/reprinted by means of reports that can be customized by the User. The following are possible:

- · specify if you wish to input a heading or not;
- define the logo and the heading lines;

· correctly position the invoice recipient's name, to adapt the print format to the type of window envelope being used.

Periodic Statistics according to Customer/Period - WP3-Invoice is able to produce statistical reports summarising the invoice situation according to Customer and Period. You can specify if you wish to group data firstly per Customer and then per month or vice versa. You can also filter data, specifying a given period interval or just paid or payable invoices.

Periodic Statistics according to Category - The WP3-Invoice statistical reports summarise the invoices situation according to the specified re-classification (e.g.: Cost centre or goods area). You can specify if you wish to group data firstly per Category and then per month or vice versa. Data can also be filtered, specifying a given period interval.





AUTOMATIC PAY-STATION

E7000

automatic pay-station



- Acceptor for barcode type single-stay tickets
- Subscriptions renewal and recharging of set-value cards

CE

- Coin acceptor with automatic recharging of change giver devices
- Facility for wide-ranging configuration of solutions according to type of change to be given
- Lost ticket management
- Facility for expanding the machine configuration by optional modules (credit card acceptor, banknote readers, banknote change giver, coin change giver)



LCD graphic display, 9.4"



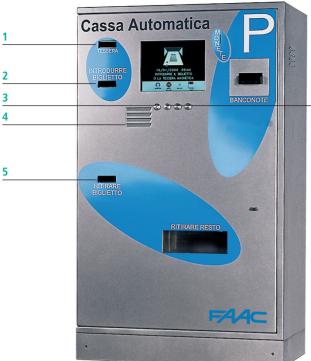
SRM coin selector

ETE BANCONOTE



SB banknote selector

Money collection tray



6	 4 Intercom 5 Exit ticket dispenser - EMIT 6 Multi-function push-buttons
Functions	E7000
User information	LCD graphic display,
messages	12,1" color
Basic	Language selection
function	Automatic reading of barcode ticket
	Parking fees calculation
	Payment by means of coins
	Operation cancelling facility
	Dispensing of exit ticket
Extra	Payment by banknotes
functions	Coin change givers from 1 to 8 coins; 4 of them are automatically self refilled
	Banknote change giver 1 denomination
	Set-value cards recharging
	Set-value cards finished
	credit card processing
	Subscriptions renewal (WP3 only)
	Lost ticket
Data councentrator	Occupancy status
functioning	Area opening - closing
(BC only)	Setting vehicles present
	Peripherals monitoring
	Barrier opening - closing
	Lists and parameters setting to peripheral
	System access by password
	Fee collection for illegible tickets
Operator	Fee collection for lost tickets
function	Recharging coin hoppers and banknotes
	Removing of coins-banknotes safe boxes
	Printing of shift statement

Technical specifications	E7000	
Power supply		
Absorbed power		
Cabinet		
	stainless steel sheet	(BC only)
Dimensions	Height 1245 mm	
	Width 800 mm	
	Depth 475 mm	
Weight	200 Kg min - 320 Kg max	
Operating ambient	+15 °C +50 °C without heater	0
temperature	-20 °C +50 °C with heater	Operator
Front panel	User interface by display	function
	Voice interface by intercom	
	3 multi-function push-buttons activated by	
	software	
	1 intercom push-button	
	Easy-to-understand symbols	Banknote selecto
LBO module	Motorised optical reader	Accepts 13 bankr
(basic configuration)	Decoded barcode, 2/5 interleaved	Acceptance rate:
-	86 x 60 mm tickets handling	Escrow capabilitie
	Ticket reading speed: 20 pcs/minute	Banknote selecto
EMIT module	High resolution thermal printer	Accepts 6 bankno
(basic configuration)	Barcode printed in 2/5 interleaved	Acceptance rate:
-	Self-sharpening cutter	Without escrow c
	Spare paper sensor	Indoor use only
	Basic ticket weight: 140 g/m2	Banknote selecto
	Ticket dispensing capacity: 3300 pcs. per	Accepts 7 bankno
	ticket roll	Acceptance rate:
SRM module	Selector handling up to 10 coins types	Without escrow c
(basic configuration)	Coin diverting to recharge hoppers	Banknotes selecti
	Coin safety box	Accepts 13 bankr
MAG module	Magnetic coder-reader/encoder	Acceptance rate:
(optional)	ISO standard cards handling	Without escrow c
	Card reading speed: 13 pcs/minute	Change-giver from
RM Module	Coin change-giver from 1 to 8 coins of	Banknotes chang
(optional)	which 4 are automatically self refilled	Base plinth
SB Module	Banknote selector for 4 to 13 different	Self-powered sire
(optional)	sizes	Heater
	4-ways reading	Magnetic reader/
		we also waite attacks alte

Escrow capabilities (up to 16 pcs.) Banknote safety cash collector

RB Module (optional)

Change giver of 1 banknote denomination

Banknote selector (TYPE A)
Accepts 13 banknotes in 4 ways
Acceptance rate: 97%
Escrow capabilities
Banknote selector (TYPE C)
Accepts 6 banknotes in 4 ways
Acceptance rate: 90%
Without escrow capabilities
Indoor use only
Banknote selector (TYPE D)
Accepts 7 banknotes in 4 ways
Acceptance rate: 90%
Without escrow capabilities
Banknotes selectro (TYPE E)
Accepts 13 banknotes in 4 ways
Acceptance rate: 97%
Without escrow capabilities
Change-giver from 1 to 8 coins (4 of them are automatically self refilled)
Banknotes change giver of 1 denomination
Base plinth
Self-powered siren with vibration detector
Heater
Magnetic reader/encoder for card handling (set-value cards
recharging/credit cards/subscriptions renewal)
Fan
5° to 8° change giver support

- 1 Coder/decoder for prepaid magnetic cards and credit cards - MAG
- 2 Entrance ticket barcode reader - LBO Intercom push-button



MANAGEMENT

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MANAGED TICKET

PARKING SYSTEMS > MANAGED TICKETS

G.S.O.

management unit for occupancy status of single parking areas and multi-tier parking sectors (BC - BM - BCM Systems)

MANAGED TICKETS

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entrance tickets, exit tokens, exit tickets with franchise time, magnetic cards (set-value cards, time expiry subscriptions, etc....)



Ticket with alphanumeric characters (620 STANDARD system)	Ticket dimensions: 8
Printed data: Date/Hour/Minutes/issuing unit number/ticket	Printing on high reso
sequential number	Barcode: 2/5 interlea
Ticket dimensions: 89 x 60 mm	Ticket weight: 75 g/r
Printing on high resolution thermal paper	(BC/BCM)
Ticket weight: 75 g	Paper roll with issuin
Paper roll with issuing capacity of: 3,000 tickets	3.300 tickets (140 g/
Customising facility	Customising facility
Token (620 STANDARD system)	Magnetic
Diameter: 22 mm	Magnetic coding sys
Customising facility	Customising facility

Customising facility



Occupancy status Multi-area management

Capacity: 9,999 car places

Memory with buffer battery

standard languages (optional)

Barcode Ticket (620 PLUS - DIGI PLUS - BC – BCM systems)
Coded data: Month/Day/Hour/Minute/Second/Park Code/issuing
unit number/ticket type
Ticket dimensions: 89 x 60 mm
Printing on high resolution thermal paper
Barcode: 2/5 interleaved
Ticket weight: 75 g/m2 (620 PLUS/DIGIPLUS) - 140 g/m2
(BC/BCM)
Paper roll with issuing capacity of: 3.000 tickets (75 g/m2)
3.300 tickets (140 g/m2)
Customising facility
Magnetic Card (DIGI PLUS - BM – BCM systems)
Magnetic coding system: ISO STANDARD track 2

G.S.O.

Piloting of traffic lights or "parking available /full" panel.

Equipped with RS 422 serial line for connection to data controller

Operating system in five languages (I – GB – F – D – ES)/non

Two-way count (with two magnetic loops)

Data set from keyboard or Personal Computer Installation of outside detectors (12 max)

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ACCESSORIES

light signalling, command and safety devices, plus installation accessories





Space full pannel		
Characteristics	Single face	Double faces
Case	Aluminium	Stainless steel
Pannel/s P Blu	Plexiglass back lit by neon lamp	Plexiglass back lit by neon lamp
Dimensions	650x1050x360 mm (wxhxd)	620x1100x590 mm (wxhxd)
Installation	Wall-mounted or on a support pale	Wall-mounted or on a support pale
Light	Spaces with green light	Spaces with 2 green lights
signalling	Full with red light	Full with 2 red lights
Space full inscription	In 5 languages (I, F, GB, E, D)	In 5 languages (I, F, GB, E, D)
Power supply	220/230 vac 50 Hz	220/230 vac 50 Hz

Lane traffic lights

Structure in polycarbonate with two lights: red/green, 200 mm diameter

Incandescent lamps 70W/230V

Other accessories

To complete the equipment in the parking systems, FAAC can offer a wide range of accessories to satisfy all requirements of clients. The accessories include safety and command devices, plus installation accessories, including: Safety photocells Control button-boards (for in-lane toll-booth PLUS or DIGI PLUS) BCM exit lane control unit Emergency release devices for barriers Articulated beams Skirt kit for beams Support poles for L/C panel and lane traffic lights

Foundation plates for columns and entrance/exit barriers

DIGIPASS 100 door opener readers and DIGIPASS management units

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STAY

DEVICE FOR MANAGING PARKING

PARKING METER HK

the HK parking meter is an efficient, cost-effective device for managing parking stay It issues a ticket to be placed inside the vehicle against payment that can be by coins, prepaid magnetic cards or chipcards.

Its design is innovative, using corrosion-proof materials. Access to the money collection and maintenance parts is rational and simple, with security keys.

Power can be obtained from 220 Vac mains, public lighting line, rechargeable battery or solar panels.

Complete reports including: totals cashed for the different tariff systems, coin or electronic card acceptance statistics, alarms or faults recorded by the system, as well as opening operations for technical or administrative purposes

Technical specifications	Parcometro HK		
Cabinet	Structure in 4 mm anodised aluminium		
	Base in 4 mm galvanised steel		
	Access compartment with 4-block security lock		
	IP 44 protection class		
Electronics	16-bit processor and real-time control clock		
	RAM 128 Kbytes		
	Lithium batteries for data protection		
	(8-year life)		
	Buzzer to sound during printing		
	6 serial interfaces for data transmission		
	1 parallel interface for memory card		
Display	Backlit liquid crystals		
	Time (15 mm) and amount (11 mm) indications		
LED indications	Red LED: Out of service		
	Orange LED: Battery low		
	Green LED: Paper low		
Function keyboard	Touch-sensitive, piezoelectric		
Printer	Thermal printer, 24 characters per line		
	Roll of neutral thermal paper sufficient for		
	about 6000 tickets		
Cutter	Self-sharpening, for total or partial cuts		
Coin insertion	Electronic selector for 16 different types of and		
collection	coin or token		
	Security shutter with coin recognition		
	inductive sensor		
	Preliminary coin-box for 30 pcs max.		
	Coin-box with capacity of 4000/4500 coins,		
	with shut-down device to prevent over-filling		
Power supply	220 Vac mains (+10% - 15%)		
to Parking meter	Public lighting line		
	Rechargeable batteries 12 V DC 65 Ah		
	Solar panel		
Operating	-20°C +60°C (max humidity 95%)		
temperature			
Weight	80 Kg		
Dimensions	1595 mm x 405 mm x 311 mm		
Optional items			
Prepaid service	Magnetic card readers		
management	Chipcard readers		





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ARMOUR

SECURCASH

armoured box for comfortable, secure electronically controlled cash management Has a front housing with compartments for orderly separation of banknotes, and a protected rear housing for inserting excess cash through a slit. Immediate access to front housing, but timed access to protected housing



Securcash does not require connection to the electrical mains. Operation is guaranteed by a 12V 1.9 Ah rechargeable lead battery, and Securcash is supplied with a stand-by function enabling longer charge life. When the battery is below a critical threshold, a message is shown on the display advising the user to recharge. Recharging is by a power feeder supplied as an accessory. To increase deterrent effect, Securcash is supplied with a sticker to be placed on the shop entrance.

·	be placed on the shop entrance.	
Power supply	Self-powered on rechargeable lead battery	
Operation mode	Stand-alone	
Operator interface	Alphanumeric LCD display	
	and 16-key keyboard.	
On-panel controls	Keyboard and LCD display	
and functions	with communication menu and buzzer	
Temporary functions	Can be activated by password (P.I.N)	
User levels	Two with primary code and cashier code	
Delay time	Programmable from 1 a to 99 min	
Type of delay	Electronic and mechanical	
Time lock	Can be activated with 0 to 99 minute	
	disabling time	
Paint	Powder paint with textured finish	
Colour	Grey RAL 7032	
Degree of resistance	2-3 mm thick steel reinforced	
	in critical points	
Banknote carrier	Extractable, with key-closing lid	
Weight	Kg 45	
Outer dimensions	Mod 600: L 600 x P480 x H 150 mm	
	Mod 500: L 500 x P600 x H 150 mm	
Accessories	Battery charging power unit 220 V	

Comfortable and secure cash management

Securcash is an anti-theft appliance consisting of an armoured box with two timed openings, with built-in control keyboard.

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Secure, practical and flexible, it is the ideal solution for handling and storing cash.

Anti-theft security

The armoured structure is in 2 and 3 mm thick steel, reinforced in the possible attack points, thus ensuring high resistance to any break-in attempt.

A special method for securing the box to the counter makes quick removal impossible.

Easy to install and ergonomic

Thanks to its special shape and compact size, it easily adapts to and fits in perfectly with any type of station.

ACCESS CONTROL

READER

MAGNETIC

MAG/MAG100

the MAG/MAG100 insertion magnetic card reader, makes it possible to create access control systems for both vehicles and pedestrians





MAG100

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Technical specifications	MAG	MAG100	
Enclosure	In ABS	Metal	
Power supply	12 Vdc (from manager	nent card Viper-Cobra)	
Magnetic track reading	Insertion type	Swipe	
Format	ISO STAND	ARD track 2	
Magnetic track reading	60% of track	100% of track	
Electrical connections	5 x 0,5 mm2 multi-pole shielded cable		
Distance max between reader and control	100 metres		
unit management (Viper-Cobra)	100 metres		
Operating ambient temperature	- 20° C ÷ + 55° C		
Installation	On-wall or on-column		
Heater	Managed by thermostat	Not present	
Signalling light	N.1 Two-colour multi-function LED		
Buzzer	Can be disabled		
Shutter	Mechanical	Not present	

Compatible with VIPER card or COBRA management unit

Use

Vehicle or pedestrian access control systems, including outdoor installations

PROXIMITY READERS

TAG10/TAG5/TAG3

TAG-10/TAG-5/TAG-3 proximity readers for passive transponders make it possible to create access control systems with an extremely high security level. They are easier to use thanks to long range detection and as they have absolutely no moving mechanical parts, they require virtually no maintenance

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Technical specifications	TAG10	TAG5	TAG3	
Enclosure	Plastic	Plastic	Parts in kit to built-in	
Power supply	1	2 Vdc (from management card)	
Reading distance	~10 cm	~5 cm	~3 cm	
Protection class	IP 54	(indoor type)	(indoor type)	
Electrical connections	5	5x0,5 mm2 shielded cable type)		
Max distance between reader		100 metres		
and management unit		roo metres		
Operating ambient temperatre		-20°C ÷ +55°C		
Two-colour multi-function LED	YES	YES	YES (can be disabled)	
Buzzer	YES (can be disabled)	YES (can be disabled)	NO	
Installation	On-wall or on-column	GEWISS cont.	Box 503	
Dimensions	70 x 95 x 44 mm (L x H x P)	46 x 45,5 x 23 mm (L x H x P)	see fitting dimensions	

Compatible with VIPER card or COBRA management unit

Use of TAG10

Vehicle or pedestrian access control systems, including outdoor installations

Use of TAG5

Access control systems, especially pedestrian, for indoor installations

Use of TAG3

Access control systems, especially pedestrian, for indoor installations

READER

MAGNETIC AND PROXIMITY

FRUTTO

these devices are composed by magnetic and proximity reader using the standard 503 box.

They are suitable for any civil constructions as houses, offices, hotels, schools, etc.

The available devices are the following:

Frutto-STR ISO magnetic card swipe reader (100% of track)

Frutto-INS ISO magnetic card reader by insertion (60% of track)

Frutto-INT ISO card presence detection only

Frutto-INT-PS ISO proximity card reader with card presence detection



FRUTTO-STR



FRUTTO-INS FRUTTO-INT FRUTTO-INT-PS

Description	STR	INS	INT	INT-PS
Device/reader	Swipe	Insertion	Card presence only	Proximity reader
	magnetic reader	magnetic reader		and card presence
	(100% of track)	(60% of track)		
Card type	ISO magnetic	ISO magnetic	ISO size card only	ISO proximity
Reading distance	No	No	No	Card inserted
Two colours LED	No		On front side	
Buzzer	Can be	Can be	Not provided	Can be
	silenced	silenced		silenced
Fixing		On box 503		
Wiring with management	Cable 5x0,5 mm	Cable 5x0,5 mm	Depend	Cable 5x0,5 mm
units Viper/Cobra	shielded	shielded	on the site	shielded
	(max 100 mt)	(max 100 mt)		(max 100 mt)
Power source	From manag.units	From manag.units	Non powered	From manag.units
	Viper/Cobra	Viper/Cobra		Viper/Cobra
Adsorbed current	Max 90 mA	Max 90 mA	None	Max 90 mA
Operating temperature		(Indoor type)		
Case		Gewiss Playbus		
Dimensions (mm)	44 x 75 x 58 (HxWxD)	44 x 75 x 58 (HxWxD) 44 x 75 x 90 (HxWxD)		

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ACCESS CONTROL > RESIST

RESIST

Resist range of readers and keyboards, has been conceived for both, pedestrian and vehicular gates. Metallic casing case structure with stainless steel front panel covered by polycarbonate layer. It consists of the following devices:

Resist-T	Numeric keyboard to digit PIN codes only
Resist-PS	Passive proximity reader
Resist-TPS	Passive proximity reader with Numeric keyboard
Resist-COL	Column support for all kind of Resist devices





RESIST-PS



RESIST-TPS

RESIST-COL

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Description	Resist - T	Resist - PS	Resist - TPS
Device/reader	12 keys keyboard	Proximity	Proximity and keyboard
Reading distance	-	Max 5 cm	Max 5 cm
Tag (125Khz) reading	-	Card/key ring	Card/key ring
Case structure		Casting aluminium	
Dimensions (mm)		100x100x42 (H x W x D)	
Front panel	Fiber glass with polycarbonate layer		
IP degree	IP 55		
Keys	Stainless steel mechanic keys – Stainless steel mechanic key		
Interface LED	Two colours 3 mm		
Buzzer	Can be silenced		
Power source	From management unit Viper		
Adsorbed current	Max 60 mA Max 100 mA Max 160 mA		
Operat. temperature	-10°C ÷ +55°C		
Fixing	To wall or supp. column		
Wiring	Cable 5x0,5 mm shielded (max 100mt)		

Description	Resist - COL
Case	Steel
Painting	Black powder coated
Dimensions	1100x100x100 mm

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RESIST-T

INTERFACE FOR PROGRAMMABLE RADIOCONTRO

DECODER TTR CE PROGRAMMABLE FOR 433 SLH

the DECODER TTR interface makes it possible to create access controlsystems using the FAAC 433 SLH radio control. The system is highly recommended for outdoor vehicle set-ups too since the user can remotely open the access while comfortably seated in the car



Technical specifications	PLUS 1 433	TML2 433 SLH	TML4 433 SLH	
Power supply voltage	20÷30 Vdc 24 Vac ±10%	12V Battery	12V Battery	
Work frequency		433,92 MHz		
Reading distance	1	~50 m	~50 m	
Protection class	IP 44	1	1	
Transmission channels	1	2	4	
Available codes	1	72 millions of billions		
Operating ambient temperature	-20°C ÷ +55°C	-10°C ÷ +55°C	-10°C ÷ +55°C	
Compatibility	with VIPER 400	with VIPER 400 card or COBRA 1500 - 5000 management unit		

DECODER TTR CE PROGRAMMABLE FOR 868 SLH



Technical specifications	PLUS1 868	T2/DL2 868 SLH	T4/DL4 868 SLH	TML2 868 SLH LR	TML4 868 SLH LR
Power supply voltage	20÷30 Vdc	2 lithium	2 lithium	12V	12V
	24 Vac ±10%	batteries 5V	batteries 5V	battery	battery
Work frequency	868,35 MHz				
Reading distance	1	~50 m	~50 m	~50 m	~50 m
Protection class	IP 44	1	1	1	1
Transmission channels	1	2	4	2	4
Available codes	/ 72 millions of billions				
Operating ambient temperature	-20°C ÷ +55°C	-10°C ÷ +55°C	-10°C ÷ +55°C	-10°C ÷ +55°C	-10°C ÷ +55°C
Compatibility	with VIPER 400 card or COBRA 1500 - 5000 management unit				

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VIPER 400

the VIPER 400 independent management card is designed for stand-alone mode (without personal computer) access control systems. It is the ideal solution wherever a simple, secure system is required



DECODER TTR or magnetic and transponder, etc.) managed by management unit **VIPER 400/COBRA** The **MIXER** card is supplied with a DIN-bar applicable support and is, therefore, compatible with Mod. E-L-LM racks.

VIPER 400

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ACCESS CONTROL

DARD

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TAG 10 SA

TAG-10-SA is an access control device able to store proximity cards. Manages door by controlling its status (open or closed). It may generates an alarm in case of not authorized opening. It works autonomously ("SA" means Stand Alone) with no external management board or programming PC. Cards archives, can be copied by a removable memory (option). TAG-10-SA (reader A, master) is able to be manage a second TAG-10 (reader B, slave). This configuration allows area management having one entry/exit gate with Anti-Pass-Back feature. Configuring and learning of cards are managed by self learning mode with Cards Kit



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READER

STAND ALONE

Technical specifications	TAG 10 SA	
Device/reader	Proximity	
Management unit	Built in	
Reading distance	Max 10 cm	
Tag reading (125 khz)	Card/key ring	
Case structure	Plastic	
Dimensions (mm)	95 x 70 x 44 (H x W x D)	
Front panel	Plastic	
IP degree	IP 54	
Interface Led (by three coloured LEDS)	a) programming	
	b) reading OK	
Buzzer	Codes recognising, error status	
Input	n.1 door status input	
	n.1 open door input	
Output	n.2 relay outputs	
	n.1 open collector output (alarm door status/tamper)	
Codes	500 cards	
Door control (one door)	n.1 master reader	
	n.1 slave reader	
Door control (two door)	n.1 master reader (door n.1)	
	n.1 slave reader (door n.2)	
	n.1 alarm door status (door n.1)	
	n.1 door status input (door n.1)	
Configuring and cards learning of codes	Self learning mode with Cards Kit	
Power supply	12/24 Vdc - 12/21 Vac	
Adsorbed current	Max 180 mA	
Operating temperature	-10°C ÷ +55°C	
Fixing	To wall or column	
Wiring master-slave (max 100 mt)	Cable 5x0,5 mm shielded	

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RESIST SA

RESIST-SA is an access control device able to store codes or/and cards. Manages door by controlling its status (open or closed). It may generates an alarm in case of not authorized opening. It works autonomously ("SA" means Stand Alone) with no external management board or programming PC. Codes/cards archives, can be copied by a removable memory (option).

RESIST-SA (reader A, master) is able to be manage a second RESIST (reader B, slave). This configuration allows area management having one entry/exit gate with Anti-Pass-Back feature. Configuring and learning of codes or/and cards are managed by keypad or/and self learning mode with Cards Kit



RESIST-T-SA



RESIST-PS-SA



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RESIST-TPS-SA

Technical specifications	Resist - T - SA	Resist - PS - SA	Resist - TPS - SA	
Device/reader	12 keys keypad	Proximity	Proximity and keypad	
Management unit		Built in		
Reading distance	-	Max 5 cm	Max 5 cm	
Tag reading (125 khz)	-	Card/key ring	Card/key ring	
Case structure		Casting aluminium		
Dimensions (mm)		100x100x42 (H x W x D)		
Front panel		Fiber-Glass		
IP degree		IP 55		
Keys	12 keys 0-9, Enter, Space (backlit)	-	12 keys 0-9, Enter, Space (backlit)	
Interface Led		a) programming		
(by three coloured LEDS)		b) reading OK		
Buzzer	Codes recognising,	Card recognising,	Codes/card recognising,	
	error status	error status	error status	
Input	n.1 door status input			
	n.1 open door input			
Output	n.2 relay outputs			
	n.1 open collector output(alarm door status/tamper)			
Codes	500 (cards / PIN codes)			
Door control (one door)		n.1 master reader		
		n.1 slave reader		
Door control (two door)		n.1 master reader (door n.1)		
		n.1 slave reader (door n.2)		
		n.1 alarm door status (door n.1)		
		n.1 door status input (door n.1)		
Configuring and learning of codes	By keypad	Self learning mode	By keypad or/and self learning	
or/and cards		with Cards Kit	mode with Card Kit	
Power supply		12/24 Vdc - 12/21 Vac		
Adsorbed current		Max 180 mA		
Operating temperature		-10°C ÷ +55°C		
Fixing		To wall or column		
Wiring master-slave (max 100 mt)		Cable 5x0,5 mm shielded		

READERS

STAND ALONE

READER

HAND

BIOMETRIC

BIOKEY

BIOKEY is the biometric hand reader that recognises hands geometry as unique characteristic for persons identification. 96 hand significant

characteristics are acquired from a digital camera, processed and compressed.

The reference shape (template) thus obtained is put on file archive. Identification is done by user code already registered and a new hand reading.

This new reading is compared to the one of template on archive with the evaluation of differences in between.

If such difference is on the set range (tuned according to needed



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security level), BIOKEY confirm identification enabling the output defined.

As alternative, the unit can be used in badge reader

emulation, by sending to central system, relevant infos

to local transaction in mag-stripe format.

BIOKEY is able to operate, in addition to reader

configuration with COBRA, with network 485 or LAN, in Master-Slave configuration, if there's a link on 2 or more BIOKEY. In this way, only once is needed to collect hands images from the master reader and then transfer them to remaining readers by simple command. User code can be sent by build in keyboard or by badge reader. BIOKEY is user friendly and reliable.

It makes an ideal unit for a lot of applications such

as, restricted area where high security level is required, time attendance, security revolving doors management, opening for safes, unlocking system for archives, enabling security alarm/anti intrusion systems, etc.

Technical specifications	BIOKEY
Reader	Biometric - Hand geometry
Data format	Magnetic stripe
Installation	On wall
Link to Cobra	Multiwire cable 5x0,5 mm with screen
Distance from reader to Cobra	100 mt max.
Power supply	12/24 V cc/ca (not supplied)
Case	Pre cast aluminium
Dimensions (HxWxD)	223x217x295 mm
Use	Pedestrian access control and time attendance

Applications	
Access to restricted areas	
Presence recording	
Multifunctional management of inner archives	
Management opening of safes and strongboxes	
Access and management of automatic archives	
Management and coordination of alarm systems	

FINGER

BIOMETRIC

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BIOFINGER

BIOFINGER reader recognises finger prints; it is compact and easy to install.

It checks the finger print by optical sensor.

The reader is in need of identification code that address the reader to recognise only a set finger print pre-stored on the memory.

It is recommended for use in restricted area.

The reader manages two finger prints for each user to grant an high level of security.

A special feature is available to exclude the finger print

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	8 9 F2
	(IR) Recognition Systems.
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recognition in case that is not possible or finger is injured.

A standard serial port is available for PC link as alternative to link with COBRA unit. In case of more readers on the same site, the self learning of fingers is done by one master unit and exported to slave readers (max 32), by serial link

Technical specifications		
Reader	Optical check of finger print after PIN addressing.	
Finger print image memory.	2 x 400 bytes	
Sensor	Optic	
Processing time	Less than 2"	
Memory capacity	50 users (can be improved)	
User PIN code	From 1 to 15 digits	
Output data format	Magnetic stripe	
Installation	On wall	
Electric wiring with Cobra unit	5x0,5 mm schielded	
Max distance from reader to Cobra	100 mt.	
Power supply	12 V cc (not provided)	
Ambient temperature (indoor use only)	0°C ÷ + 45°C	
Dimensions mm	128 x 135 x 78 (H x W x D)	

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DIGIMAG/DIGITAG CAR

the DIGIMAG and DIGITAG readers, supplied with keyboards and displays, are particularly suitable for pedestrian control with presence detection

Technical specifications	DIGITAG/DIGITAG-2	DIGIMAG	
Type of reader	passive proximity	magnetic swipe	
Format	1	ISO STANDARD track 2	
Reading distance	~10 cm	contact	
Numeric keyboard	16-key membrane		
Magnetic track reading	1	100% of track	
LCD display	16 x 2 character, back-lit		
Installation	on-wall		
Electrical connections	9x0,5 mm2 multi-pole shielded cable		
Power supply	by COBRA management unit		
Max distance between			
reader and management	40 metres		
unit			

N.B.: DIGITAG-2 enables the detections of entrance and/or exit thanks to 2 different readers in the same device.

Use

Access control systems (especially pedestrian) installed indoors and managed by COBRA UNIT and Personal Computer.

- The following can be input with the keyboard:
- codes associated with the card being used (double security)
- system activation codes
- justifying codes

- codes for activating-de-activating other systems (e.g. alarm system)

- The following information can be viewed on the display:
- calendar with date and time
- messages regarding cards being used (valid card, invalid card, off time band, etc.)
- messages concerning assigned codes
- information messages sent via Personal Computer

CAR SERIES

the CAR series control units are designed for vehicle systems, including outdoor installations

Technical specifications	CAR M	CAR P	CAR MP
Housing	steel sheet with cataphoresis treated, painted		
	with	RAL 2004 polyester p	aint
Rear door		key lock protected	
Front panel		in stainless-steel	
Reader of magnetic	YES	NO	YES
insertion cards	TL5		
Proximity reader for	NO	YES	YES
passive transponders	NO		
Reading distance	contact	~10 cm	contact
-			~10 cm
16x2 character back-lit	YES		
LCD display		TLJ	
Backlit keyboard	YES		
in silicon rubber	TES		
Intercom	YES		
"Traffic light" LED	YES		
Master versions	with pre-wired COBRA 1500 management unit		
Overall dimensions	Height 1250 mm, width 400 mm, depth 425 mm		
Designed to install	DETECTOR, DECODER TTR,		
	MIXER CARD		
Electrical supply	230 Vac (+6% -10%)		
Max distance between			
Master and Slave unit	40 m		
Operating ambient	-20°C ÷ +55°C		
temperature			



PROXIMITY

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DIGIMAG MAGNETIC

READER

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CAR/TAG

the CAR/TAG control reader is designed for vehicle accesses requiring long range detection. Thanks to an active transponder, it reads while the user sits in the car

Technical specifications	CAR/TAG	
Housing	Steel sheet cataphoresis treated,	
	painted with RAL 2004 polyester paint	
Rear door	Key lock protected	
Detection antenna	In tubular stainless-steel	
Electronic control equipment	For active transponder	
Reading distance	~120 cm	
Front panel	In stainless-steel	
LCD display	16 x 2 character, back-lit	
Keyboard	In silicon rubber	
Intercom	With call push-button	
Traffic light LED	YES	
Master versions	With pre-wired COBRA management u	
TAG	Active type, self-powered by lithium batte	
Overall dimensions	Height 1250 mm	
(without antenna)	Width 400 mm	
Designed to install	Depth 425 mm	
	DETECTOR, DECODER TTR, MIXER CARD	
Electrical supply	230 Vac (+6% -10%)	
Max distance between Master and Slave unit	40 m	
Operating ambient temperature	-20°C ÷ +55°C	



TAG ACTIVE TRANSPONDERS

AT-8

the AT-8 control unit is designed for identifying vehicles by reading TAGs active at 2.45 GHz, fitted by suction cup on the vehicle windscreen.

Double identification facility - vehicle and driver - by COMBI-BOOSTER reading

Technical specifications	AT-8	
Reading unit	For detection up to 8m	
Detection speed	Max 200 Km/h	
TAG reader	aActive at 2.45 GHz	
Structure	In stainless-steel on flexible support	
Installation	On-wall or on-rod	
Front panel	In plastic	
Overall dimensions	310 x 250 x 100 mm	
Weight	5 kg	
Operating ambient	-20°C ÷ +55°C	
temperature	-20 C ÷ +55 C	
Power supply	230 Vac~ (+6% -10%) 50 (60) Hz	
Absorbed current	125 mA	
Protection class	IP 65	
Compatibility	COBRA	
Interface	By RS232 or OMROM ISO 7811/2	
Identification signalling	Buzzer	



WINDOW TAG

Use

Designed for identifying vehicles by reading TAGs active at 2.45 GHz fitted by a suction cup on the car windscreen TAG powered by lithium battery (minimum 5 years)

Double identification facility (vehicle and driver) by COMBI-BOOSTER reading.

The COMBI-BOOSTER contains the vehicle activation active TAG and is designed to house a passive proximity card (125 KHz). The device transmits the card code at 2.45 GHz to enable detection by the AT-8 reader.

This solution is ideal for managing "fleets" of municipal agencies, hospital agencies, etc, where both vehicle and driver must be "recognised" (COMBI-BOOSER TAG code and PROXIMITY CARD code).

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READ

CONTROL

HIGH SPEED

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MANAGEMENT

COBRA

the COBRA management unit combined with WINCONTROL software makes it possible to create access control systems of all types and sizes; at the very top end over 500 readers can be connected to "WIN-NET". All reading technologies can be applied by the MAG magnetic reader, right up to the LONG RANGE AT-8 active transponder. Memory capacity of up to 65,000 users. Management of 999 time bands on weekly basis and of annual calendar including holidays





Technical specifications	COBRA 1500	COBRA 5000		
Access control system	Pedestrian and vehicle			
СРИ	16/32 bit			
Program memory	512 Kbyte Flash updatable via serial port containing all function variations			
Tables + transactions memory	Buffered 128 Kbyte RAM	Buffered 512 Kbyte RAM		
Serial ports	1 RS 232 Serial	1 additional RS 232 Serial		
	1 additional RS 232 Serial	1 RS 485 Serial 1 RS 485 serial		
	1 RS 485 Serial	for sub-network management		
Operation mode	Operates stand-alone if configured by a portable PC or on-network with a PC			
Reader management	Max 2 readers (4 with MIXER board)			
User (stand-alone)	Variable from 10 to 3,500	Variable from 10 to 15,000		
management	Pre-set at 1,500	Preset at 5,000		
Readings archive	Variable from 200 (3,500 cards)	Variable from 200 (15,000 cards)		
(stand-alone) management	to 12,000 (10 cards)	to 51,000 (10 cards)		
	Preset at 6,972 with 1,500 users	Preset at 34,189 with 5,000 users		
Hour band (stand-alone) management	255			
Parking lane	1 o 2 programmable			
Single door management	Entry reader			
	Exit push-button			
	Entry reader			
	Exit reader			
	Possibility of managing door status with alarm activation if necessary			
Double door management	Reader on gateway A			
	Reader on gateway B			
	Exit push-buttons and door plus alarm status management can be inserted on both gateways			
PIN management	By connection to a reader with display and keyboard (pin and pin+card)			
Inputs and outputs	6 inputs			
	1 anti-tampering			
	4 relay outputs			
Power supply	230 Vac (+ 6% ÷ 10%)			
voltage	50 (60) Hz			
Battery	12 Volt 1,2 Ah			

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SOFTWARE

PC-SOFTWARE

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HP Vectra 366 MHz or higher - RAM 32 MB or higher – 4.3 GB Hard Disk or higher 15" monitor WINCONTROL 1P management software for direct connection to RS 232 serial port of PC and a COBRA unit



Technical specifications	WINCONTROL
Operating System	Microsoft Windows
	(95/98/NT/2000/XP)
Access	Confidential password
Communication	Serial port
Identification	Transponder cards
	Magnetic card
	PIN code
User associations	Unlimited access level
Logistic controls	Enabled zones
	Movements
	Anti-pass back
	Typing in of amounts
Time controls	999 hour bands/week
Opening conditions	Accesses level
	Hour bands
	PIN codes
	Temporary disabling



RS 232/RS 485 INTERFACE CONVERTER (FOR ONE LINE)



WINCONTROL 1P MANAGEMENT SOFTWARE (FOR 1 COBRA) Can be connected directly to RS 232 serial port of a Personal Computer

WINCONTROL 5P MANAGEMENT SOFTWARE (FOR 2 COBRA) **Operates on WinNet** by means of a line converter

WINCONTROL 10P MANAGEMENT SOFTWARE (FOR 10 COBRA) Operates on WinNet by means of a line converter



WINCONTROL 255P MANAGEMENT SOFTWARE (FOR 255 COBRA) **Operates on WinNet** by means of a 4-line converter







RS 232/RS 485 INTERFACE CONVERTER (for four lines)

PERSONAL COMPUTER AND MANAGEMENT

SPECIFICATIONS

P PARKING SYSTEMS

620 STANDARD

The system essentially consists of a ticket dispenser and a token acceptor respectively on the entrance and exit lanes. The use of the CTM 170 programming console enables parking parameters to be configured. The system is completed with automatic barriers at entrance/exit, signalling devices such as "parking spaces/full" panel and lane traffic lights. If the lanes include pedestrian transit points, we advise installing safety photocells with FSW card.

620 PLUS

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

620 DIGIPLUS

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

BC

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) and floors counting unit G.S.O. (optional). The standard system is completed with automatic barriers at entrance/exit, signalling devices such as "spaces/full" panel and lane traffic lights. If the lanes include pedestrian transit points, we advise installing safety photocells with FSW card.

BM

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, floors counting unit G.S.O. (optional) and reader for pedestrian door/gate DIGIPASS 100 (optional). The standard system is completed with automatic barriers at entrance/exit, signalling devices such as "spaces/full" panel and lane traffic lights. If the lanes include pedestrian transit oints, we advise installing safety photocells with FSW card.

BCM

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), floors counting unit G.S.O. (optional) and reader for pedestrian door/gate DIGIPASS 100 (optional). The standard system is completed with automatic barriers at entrance/exit, signalling devices such as "spaces/full" panel and lane traffic lights. If the lanes include pedestrian transit points, we advise installing safety photocells with FSW card.

CONCEALED TRAFFIC BOLLARDS

OLLARD

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CONCEALED TRAFFIC

FAAC CITY

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concealed traffic bollard



We have solved the problem of accesses to old town centres or to restricted traffic zones

In cities, especially in old town centres, traffic is becoming more and more difficult to manage. FAAC launches a new range of devices specifically studied to offer solutions for this type of problem.

A valid city traffic controller

FAAC City is a metal cylinder with a piston mechanism enabling it to be raised and lowered by command. These cylindrical elements are highly

resistant

to impact and atmospheric agents. They are housed inside compartments set into road surfaces and dissuade traffic and/or parking. FAAC City offers help and an intelligent solution as an alternative to fixed stations, railings, barriers, chains and the like, by regulating entry of cars in given zones and preventing abusive parking.

The bollard therefore has a multiplicity of uses: it delimits pedestrian islands during the most crowded hour bands or permanently, it allows entry to certain zones to authorized vehicles only (tradespeople, residents, hotel or garage guests, taxis and chauffeured driven cars, holders of reserved parking permits), it delimits car parks, squares or pavements and can also be used as a safety protective device.

City mobility and respect for urban decor

FAAC City's strong point is that it best exploits available space, thanks to its mobile, concealed structure.

The bollard not only guarantees smooth pedestrian flow, but also manages vehicle traffic and restricted parking, with the following advantages:

- Does not disfigure the characteristics of the environment because it is a mobile, concealed element with minimum environmental impact.
- Ensures greater protection of pedestrian areas in old town centres.
- Allows access to authorized vehicles only.
- Reduces and optimises the use of human resources engaged in access control activities.
- Customisable colour selection for blending in with the urban context.
- Operation can be highlighted by buzzer or indicator light, according to position.
- Available with a large range of accessories.
- It is a deterrent



OLLARD

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CONCEALED TRAFFIC

FAAC CITY automatic

we advise installing FAAC City Automatic when many transits per day are necessary or expected.

It can be activated or disabled automatically by commands executed by authorized persons (holders of smart cards, remote controls, etc.) or by pre-set time-based automatic commands (hourly programmer). The device has double-acting hydraulic activation and a hydraulic unit (built into the device) to motorise the bollard



In its low position, it allows vehicle traffic



At the lifting stage



In its high position, it prevents vehicle traffic

Technical specifications FAAC CITY 275 AUTOMATIC	H 600	H 800
Motion criterion	Hydraulic	
Driven cylinder	Fe37 steel - thickness 6 mm	
Treatment of drive cylinder	Polyester powder paint, dark grey metallised colour	
Driven cylinder diameter	275 mm	
Driven cylinder stroke	600 mm	800 mm
Cylinder top part (head)	Anticorodal case hardened aluminium	
Cylinder surface treatment	Polyester powder paint, light grey metallised colour	
Descent time	9 sec	12 sec
Rise time	9 sec	12 sec
Hydraulic pump	Power supply 230 vac +6% -10% 50 Hz	
Protection class	IP 67	
Absorption	220 W	
Work frequency	Intensive use	
Refracting adhesive band	Standard height 80 mm	
Manual lowering operation	YES ^(*)	
Impact resistance	6,000 joule (FE steel - thickness 6 mm)	
Crashing resistance	75,000 joule (FE steel - thickness 6 mm)	
Dimensions of pit to be walled in	560x560x1020 mm	560x560x1220 mm
Standard length of connected cable	10 mt	

(*) The "Up" bollard position is guaranteed. Even in case of power failure, by the hydraulic lock integrated into the system. As optional, available an "Automatic release device" in case of lack of power.

Accessories



Integrated light



Reflective tape or customised painting for cylinder



Stainless steel cylinder



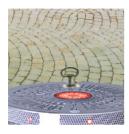
Acoustic intermittent device



DL4 868 SLH four-channel transmitter

FAAC CITY semiautomatic

this type of bollard should be used when accesses are restricted, or be combined with the Automatic version of FAAC City. It solves transit and/or parking problems without high costs and without the need for electrical energy. In fact, thanks to the singleacting gas actuator, automatic-manual lifting with the aid of a key is possible



Turn the key to activate the release command



Lower by lightly pressing downward



Turn the key to activate the release command



FAAC City lifts automatically

Technical specifications FAAC CITY 275 SEMIAUTOMATIC	Н 600	
Motion criterion	Single effect gas piston	
Cylinder	Fe37 steel - thickness 6 mm	
Treatment of cylinder	Polyester powder paint, dark grey metallised colour	
Cylinder diameter	275 mm	
Cylinder stroke	600 mm	
Cylinder top part (head)	Anticorodal case hardened aluminium	
Cylinder surface treatment	Polyester powder paint, light grey metallised colour	
Refracting adhesive band	Standard height 80 mm	
Manual lowering operation	YES	
Impact resistance	6,000 joule (FE steel - thickness 6 mm)	
Crashing resistance	75,000 joule (FE steel - thickness 6 mm)	
Dimensions of pit to be walled in	560x560x1020 mm	



Key operated push-button



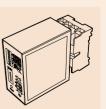
Radio keypad



Resit TPS-SA stand alone reader



CAR MP vehicle access control unit



Inductive metal detectors FG 2

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Rev. 10

FAAC S.p.A. Via Benini, 1 • 40069 Zola Predosa - (Bologna) Italy Tel. +39 051 61724 • Fax +39 051 758518 www.faacgroup.com 908310014 - Rev. 10 - Siaca - 1.000 - 09/2005 - The descriptions and illustrations contained in the present brochure are not binding. FAAC reserve the right to undertake product technical modifications without prior notice.

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