CHAPTER 1

Hardware –connections

Eletrical Connections

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Topic



System Layout Diagram

RBMP1 - Installation manual



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Dimensions and securing basesPSE/PSU4000

RBMP1 - Installation manual





Basic card for RBMP1 - description

RBMP1 - Installation manual



- 1 Line fuse 315mA
- 2 Circuit safety fuse 630mA
- 3 (not connected)
- 4 (not connected)
- 5 Terminal for battery and battery charger connection (optional BN1)
- 6 Terminal to power the card
- 7 Terminals for connecting controlled devices (automated devices, alarms, traffic lights, etc.)
- 8 Terminal for connecting the PC30.
- 9 Terminals for connecting the PSE/PSU units.
- 10 Terminals for connecting incoming digital devices.
- 11 Led signalling 'circuit on' and 'communication underway'
- 12 Modem connection.

Base card for PSR1 (PSE4000 - PSU4000) - description

RBMP1 - Installation Manual



- 1 Terminals for connecting to the transformer
- 2 5A safety fuse for the coin acceptor
- 3 5A safety fuse from power source and from heating element
- 4 Terminals for power supply to the 230V a.c. card
- 5 Power supply terminals for heating element
- 6 Thermostat contact for heating element control
- 7 24V a.c. Ouptut
- 8 Power supply for coin acceptor motor
- 9 Micro-switch for motor control
- 10 Terminals for connecting controlled devices (automations)
- 11 Token request push- button contact
- 12 Loop connection terminals
- 13 Keyboard selector connection terminals
- 14 Terminals for connecting to RBMP1 or other PSR1 or other RFM
- 15 "Token in" sensor connection
- 16 Connection to the TSP00 sensors
- 17 Token quantity control contact
- 18 R700 R800 signal decoder cards' connections
- 19 "Circuit On" Led indicator
- 20 Dip switch selector
- 21 1A circuit protection safety fuse

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PSCA1 Card (Automatic Cashier)-description

RBMP1 - Installation manual



- 1 230V a.c. control board power supply terminals
- 2 Power supply and heating element safety fuse
- 3 (Control Board) Circuit safety fuse
- 4 "Circuit On" signal LED
- 5 Dip switch selector
- 6 Signal decoding card plug
- 7 Terminals for connect ing to RBMP1 or other PSCA1 or PSR1

- 1 12V a.c. Power input
- 2 RS232 Serial port for connecting Personal Computer
- 3 Terminals for connecting RBMP1 (serial port RS485)
- 4 12V a.c. transformer
- 5 1.5 m Cable complete with RS232 plugs
- 6 Keyboard for memorising S5000/S6000/S7000 selector codes
- 7 TST01 (proximity cards) memorisation area and GET token reading
- 8 "Power on" signal LED
- 9 Code signal or proximity card reading LED

- 1 Power source safety fuse
- 2 230V a.c. control board power supply terminals
- 3 (Control Board) Circuit safety fuse
- 4 PSC1 unit connection terminals
- 5 "Circuit On" signal LED
- 6 RS232 plug for connecting to RBMP1 card

8 -Display

4 -

5 -

7 -

The PSC1 unit is an auxiliary cashier that can enable the exit of occasional visitors. It is widely used in shopping malls or supermarkets because it allows for several units to be installed and the parking area to be managed in discounted or complimentary fashion for those doing their shopping at said locations.

RBMP1 - Installation manual

- 1 230V a.c. card power terminals
- 2 Fusibile di protezione dall'alimentazione
- 3 PSI01 card safety fuse
- 4 Terminals for connecting to RBMP1 or other PSI01
- 5 Terminals for connecting to digital devices (loop coils, photocells...)
- 6 Dip Switch selector
- 7 "Relay on" signal LED
- 8 Terminal for connecting controlled devices
- 9 "Communication Up" signal LED
- 10- "Card powered" signal LED

When setting up a parking system the following is necessary:

- take into account the space needed by cars to turn when entering: there needs to be enough space for the vehicles to comfortably access the cashier and collect the token or have their cards validated. We suggest keeping a distance of 2.5m between the PSE4000 and the barrier. In any case, please check the shape and size of the system so as to prevent collisions or dangerous manoeuvres.

- See to delimiting distinct zones or areas with the proper vertical and horizontal signage. This serves to prevent accidents and render pedestrian exiting operations faster and more composed as well as to facilitate vehicular access and parking.

- to avoid any potentially dangerous situations for the people in the parking area, for example: height differences, moving parts, low visibility zones, etc..

Any risk must be reduced to a minimum, using coloured striping, mirrors, photocells and additional lighting.

Connection to Display

RBMP1 - Installation manual

Please Note: Be careful about the order of the wires, the colour on the display must correspond to the colour on the RBMP1 (A B GND).

Connections for RBMP1 <--> PSR1 (PSE/PSU) e PSCA1(automatic cashier)

RBMP1 - Installation manual

Connections for PSM4000 (RBMP1) <--> Traffic lights

RBMP1 - Installation manual

"Partial traffic lights" associated to different levels or sectors, up to a maximum of 16, controlled by the software supplied.

Connections for PSM4000 (RBMP1) <--> digital inputs

RBMP1 - Installation manual

The digital inputs are used for connecting the magnetic loop coils which provide immediate counts of the number of vehicles in the car-park. These command the traffic lights independently of the (PSE/PSU4000) entrance and exit units.

They are widely used in multi-level car-parks, having only one entrance and one exit. Thus, they allow the exact count of the vehicles present on each level, and the consequent number of available spaces left on each level.

RBMP1 - Installation manual

Connections for the PSM4000 (RBMP1) <--> PSIO1

RBMP1 - Installation manual

VI V2 V3 V4 V5

5

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8

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1234567891011

С

PSE/PSU4000 connections Barrier or other automation

RBMP1 - Installation manual

RBMP1 - Installation manual

CAME 20

Connections for the PSE/PSU4000 <---> TSP00 transponder sensor

RBMP1 - Installation manual

If the LED indicator inside the TSP00 is GREEN this means the reader has not been set properly. If the LED is RED this means it has been set properly.

DIP SWITCH

RBMP1 - Installation manual

To enable communication to take place between the RBMP1 and the PSR1 (PSE/PSU) or rather between the RBMP1 and the PSI01 you must set the DIP Switch, by assigning one address to each additional card. Please refer to the explanation in the following pages.

The DIP Switches on the various cards are usually in position n. 1

List of addresses PSR1(PSE4000/PSU4000) and PSIO1

List of DIP Switches to configure the PSE/PSU4000 units

RBMP1 - Installation manual

LIST OF DIP SWITCHES TO CONFIGURE THE PSE/PS04000 UNITS OF DIP SWITCH											
PSE4000						1	234567	8 9 10			
Switch °	1	2	3	4	5	6	7	8	9	10	N°PSI01
	OFF	ON	OFF	OFF	N°1						
	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF	N°2
	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF	N°3
	OFF	OFF	OFF	ON	ON	OFF	OFF	ON	OFF	OFF	N°4
	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	N°5
	OFF	OFF	ON	OFF	ON	OFF	OFF	ON	OFF	OFF	N°6
	OFF	OFF	ON	ON	OFF	OFF	OFF	ON	OFF	OFF	N°7
	OFF	OFF	ON	ON	ON	OFF	OFF	ON	OFF	OFF	N°8
	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	N°9
	OFF	ON	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF	N°10
	OFF	ON	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF	N°11
	OFF	ON	OFF	ON	ON	OFF	OFF	ON	OFF	OFF	N°12
	OFF	ON	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	N°13
	OFF	ON	ON	OFF	ON	OFF	OFF	ON	OFF	OFF	N°14
	OFF	ON	ON	ON	OFF	OFF	OFF	ON	OFF	OFF	N°15
	OFF	ON	ON	ON	ON	OFF	OFF	ON	OFF	OFF	N°16
PSU4000											
Switch °	1	2	3	4	5	6	7	8	9	10	N°PSI01
	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	N°1
	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF	N°2
	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF	N°3
	ON	OFF	OFF	ON	ON	OFF	OFF	OFF	ON	OFF	N°4
	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	N°5
	ON	OFF	ON	OFF	ON	OFF	OFF	OFF	ON	OFF	N°6
	ON	OFF	ON	ON	OFF	OFF	OFF	OFF	ON	OFF	N°7
	ON	OFF	ON	ON	ON	OFF	OFF	OFF	ON	OFF	N°8
	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	N°9
	ON	ON	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF	N°10
	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF	N°11
	ON	ON	OFF	ON	ON	OFF	OFF	OFF	ON	OFF	N°12
	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	N°13
	ON	ON	ON	OFF	ON	OFF	OFF	OFF	ON	OFF	N°14
	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	OFF	N°15
	ON	ON	ON	ON	ON	OFF	OFF	OFF	ON	OFF	N°16

List of DIP Switches to configure the PSCA1 cards

Switch °	1	2	3	4	5	6	7	8	9	10	N°PSCA1
	OFF	N°1									
	ON	OFF	N°2								
	OFF	ON	OFF	N°3							
	ON	ON	OFF	N°4							
	OFF	OFF	ON	OFF	N°5						
	ON	OFF	ON	OFF	N°6						
	OFF	ON	ON	OFF	N°7						
	ON	ON	ON	OFF	N°8						

List of DIP Switches to configure the PSI01 cards

Switch °	1	2	3	4	5	6	7	8	9	10	N°PSI01
	OFF	N°1									
	ON	OFF	N°2								
	OFF	ON	OFF	N°3							
	ON	ON	OFF	N°4							
	OFF	OFF	ON	OFF	N°5						
	ON	OFF	ON	OFF	N°6						
	OFF	ON	ON	OFF	N°7						
	ON	ON	ON	OFF	N°8						

3-insert the tokens

4-Close the token slot-unit

Token unloading procedure

RBMP1 - Installation manual

3- Remove the tokens from the container, then close door.

2- Open the door

Token issuing procedure

Token issuing procedure:

Position the vehicle on top of the SMA loop coil.

Press the red token acceptor button, and retrieve the token from the dispenser.

The token must be turned in to the cashier before picking up the vehicle, to get the cost reading and be cleared for exit.

Please note: if the token has not been cleared for exit, when inserted into the PSU4000 unit, it will be rejected and returned for further clearance.

To replace the printer paper in the serial printer and the automatic cashier, please refer to the attached manuals.

CHAPTER 2

RBMP1 - Software

System configuration

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Software installation

Insert the CD into the apposite drive, wait for the installation window to come up on screen, and then select the desired language. Follow the instructions.

Initial screen when program opens

2 Parking Contro File Anguinge Too	el System 16 de Windows				
2	1	-	• • 1	-	S 11 0/0
Subscriber	2	6-	0 2		2: 0/0
	3	0-	0 3		8 3: 0/0
Accesses	4		4		
1	5		5		
System	P 6		6 P S		
14	E 7		7 U		
Permiter	0 8		0 8		
	0 9		9 0		
Day CD	11		11		
Denninge	12		12		
2	13		13		
100	14		14	4	
100	16		15		
	16		16		De OPI
N. EVENT	(u	SCR CHTRY	TIME	AMOUNT	PLACES
1 EDITAR	INSTALACION M	ASTER	21/08/2906 14:2	5	obscriber Total
i.				1	Iccasional User Icial Places

- 1 PSE4000 status window
- 2 PSU4000 status window
- 3 Traffic light status window
- 4 System Locked/Open button
- 5 System Occupancy readout window
- 6 Light indicating communication up between the PC and RBMP1 (works only if all the windows are closed and this screen is up)
- 7 Window detailing last four events
- 8 Password entering window
- 9 Update date and time window (synchronised with those on the PC)
- 10 Window to activate "Modem administration"
- 11 Window to activate "System history"
- 12 Window to activate "Daily history"
- 13 "Occupancy management" window
- 14 "System Configuration" window
- 15 "Access payment options" window
- 16 "Account holder administration" window
- 17 Bar for language selection, window closure and control, plus run-backup.

System configuration – Main window

- 4 PSE4000 Configuration window
- 5 PSU4000 configuration window

- 6 I/O card (if included) configuration window
- 7 Traffic light (if included) configuration window

MODEM

V

Selection of installed components

Using the mouse select the number of PSE4000s to configure, installed in the system (up to a maximum of 16)

Using the mouse select the overall number of PSU4000 and PSR1s to configure, installed in the system (up to a maximum of 16)

Using the mouse select the number of I/O cards (if included) up to maximum of 8.

The I/O cards serve to manage any additional elements, such as loop coils, traffic lights, lights, signage of sorts, etc..

Using the mouse select the number of installed traffic lights, up to a maximum of 16.

In the event of multiple traffic lights do not count the overall number of traffic lights, because it already has a dedicated control.

Update

Using the mouse select the number of PSCA1 Cashiers (if included) up to a maximum number of 8.

Configuration of RBMP1 digital inputs and outputs

Input and output functions

Inputs

DISABLED	No function assigned
SYSTEM BLOCK	Means all of the car-park's function are blocked.
ALARM INPUT	Stands for a warning signal which may be activated by button or contact.
RESET ALARM	Disabled the alarm signal
ENTRANCE LOOP COIL TRAFFIC LIGHT N.	A loop coil is associated to a specific traffic light

Outputs

DISABLED	Nothing commanded.
CAR-PARK FULL	Warns when all the parking spaces are full, and controls the general traffic light.
SYSTEM BLOCKED	Activates a contact when the system is blocked
GENERAL ALARM	Activates a contact when the alarm is on.
INTRUSION ALARM	The relay is activated by passing non-cleared cards or tokens over the sensor
TRAFFIC LIGHT N.	Selects which traffic light to control

Clicking this button, opens the setting- programmed-exits window. Programmed exits means control of one or more relays, which are used to manage certain machinery (for example: lighting) which need to work during a predetermined time interval.

💀 Programmed Exits -Day Num Ora Inizio **Ora Fine** Porta Stato Saturday 1 06:41:00 10:56:00 AUX 2 Enabled 2 00:00:00 00:00:00 Disabled C Sunday 3 00:00:00 00:00:00 Disabled C Monday 4 00:00:00 00:00:00 Disabled C Tuesday Wednesday START 4 Enabled Thursday C

- 1 Setting the relay activation-time
- 2 Setting the relay-deactivation time
- 3 Programs the exit (the relay that will activate)
- 4 Enables the action
- 5 Select the day for the action (by pressing the Copy button the settings for that particular day are assigned to all the other days)

Cashier peripherals configuration

This field shows the currency of the place the system is installed.

- 1 Selecting the "display installed payment" item activates the additional display for amount-readout.
- 2 Input the heading to appear on all printouts.
- 3 Selecting the "Enable load cashier token" item clears the token independently from the PSE4000 entrance unit.
- 4 Establish the secondary payment amount for the auxiliary cashiers in the Paid 2 field.
- 5 Selecting the "Currency with decimals" item to move from amounts with decimals to decimal- free amounts (for e.g. from 10,30 to 1030).

Enabling the account-holders APB function, activates the Anti-Pass Back function for all account-holders. In case of a black-out or other problems, it is advisable to select the Synchronise function which enables proper resetting of the system to take place (if the account-holders APB function is selected).

the PSE4000	
PSE4000	
1	
PSE4000 - 1 Vumber	name PSE4000 1
Variation cost	Associated Traffic Disabled
	Auxiliary Sensor Disabled
) PSE4000	Using the moure calent the DSE 4000 year wish to get
	(the overall number of PSE4000s has already been esta
PSE4000 - 1 Number PSE4000 - 1 PSE4000 - 2 PSE4000 - 3	blished).
name Estata 1	Assign a name to the PSE4000 unit depending on requi
	ments and structure of the car-park
PSE4000 - 1 Number	If present, allows associating the PSE4000 unit to a spe
PSE 4000 - 2 PSE 4000 - 3	traffic light
Auxiliary Sensor Trasponder Disabled Trasponder Keypad	If present, it allows an auxiliary sensor to be turned on.
	This command allows the cost on each single PSE4000
+20%	be changed in percentage terms. For example: in car-pa
	with indoor and outdoor areas, you can assign a higher
The second se	to the indoor areas.
Update	Applu Save Write

11 CAME

Setting the PSU4000

1			PSU4000/PSR1
PSU4000 - 1 None	Number	Senso Using (the or	the mouse select the PSU4000 you want to set verall number of PSU4000s has already been
		inpute	d)
Sensor 2 Function Associated Traffic Light	Trasponder Disabled Trasponder Keypad Disabled	•	If present, it allows an auxiliary sensor to be turned on.
Sensor 2 Function Associated Traffic Light	Disabled PSU4000 PSU4000 SUBSCRIBER ENTRY SUBSCRIBER EXIT Automatic Payment Token Load SUBSCRIBER PASSAGE		Defines the function of the PSU4000 exit unit
Associated Traffic Light	Disabled Disabled Traffic Light 1 Traffic Light 2 Traffic Light 3 Traffic Light 3 Traffic Light 5 Traffic Light 6 Traffic Light 7	▼ <	If present, it allows the PSU4000 unit to be assi- gned to a specific traffic light.
name Uscit	a 1]		Provide a name for the PSE4000 unit depending on the requirements of the parking facility
Update			Apply Save

PSU4000 Functions

PSU4000	Standard function of an exit unit
ACCOUNT-HOLDERS' ENTRANCE	This unit is only used with an entrance sensor for account-holders
ACCOUNT HOLDERS' EXIT	This unit is only used with an exit sensor for account holders
AUTOMATIC PAYMENT	By running the token over the sensor, the latter is automatically cleared for exit without having to go through the PC.
LOAD TOKEN	By running through the not-yet-cleared token, the latter is loaded within the system.
ACCOUNT HOLDER TRANSIT	Allows the entrance and exit of account-holders, for instance from a pedestrian area, without debiting any prepaid credit.

PC30	BBMP1	│ PSE4000 │	PSU4000/PSR1	PSI01	TRAFFIC LIGHTS
Number	Accesses 1	Disabled	- Exits	1 Disab	led 🗾
101 💌				``ab	led 🗾
10 1		Colort which 1/O cond	luar de la set	ab	led 🗾
103		Select which I/O card	you wish to set	ab	led 🗾
				ab	led 🗾
	6	Disabled	-	6 Disab	led 🗾
	7	Disabled	-	7 Disab	led 🗾
	8	Disabled	<u> </u>	8 Disab	led 💌
	1				

Assigns a certain function to a digital input number (Block system, Alarm entrance, etc.) which in turn excites an exit relay. (please go to page 8 for the functions)

Set the exit relay number that needs to activate, along with the function assigned to it. (please go to page 8 for the functions)

14

Update

In the first field set the number of vehicles associated to this traffic light; in the field below set the number of occupied or reserved parking places. By selecting "Employ Loop Coil" the increase or decrease of vehicles will take place through the action of the magnetic loop coil.

CHAPTER 3

RBMP1 - Software

Accesses and methods of payment

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General Occasional

RBPARK Software ~ Installation manual

Clicking on this button opens the accesses and payment- methods setting window.

"General occasional" means the system's temporary settings, for occasional customers that use tokens, that is, unregistered non-cardholders.

🧐 Entry Mode	
GENERAL OCCASIONAL TIME BANDS	SPECIAL DAYS PAYMENT
Installations activity SATURDAY Copia	Time of Vehicle Retrieval for Exit (1) 00:10:00
Installations Aperture 07:00:00 Chiusura Impianto	Time of Vehicle Retrieval for Exit (2) 01:00:00
20:00:00	Automatic Payment
Start of Entry Interval	Free Waiting Time 00:15:00
20:00:00	
Save Wite Read	EURO

- 1 Set day
- 2 System opening and closing times

Update

- 3 Possible occasional customers entrance and exit times
- 4 Vehicle exit time (between payment and exiting the car-park)
- 6 Select default vehicle retrieval time
- 7 Free time interval (when vehicle enters and exits without parking)
- 5 Second vehicle exit time

Warning! For the changes to be valid, you need to update after each series of operations.

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2

Write

Time frames

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Warning! The time frames must absolutely be set when selecting "Use time frame" in the payment window..

Please note: you can set up to a maximum of 4 time frames per day

- 1 Day to be set (to apply the same settings for all the days press Copy)
- 2 Select and visualise the time frame
- 3 Frame box for setting the time frame (to apply the same settings for all the days press Copy)
- 4 Free time frame setting table

Update

Please note: free time frame means a time interval in which parking costs are not applied. Warning! For the changes to be valid, you need to update after each series of operations.

Cap.3

Save

Write

3

CAM

Apply

Special Days

Special days means holidays such as Christmas Day, Mid-Summer's Day, as well as free days when the car-park is not operational (or unmanned).

Holidays:

On holidays access is granted only to account holders.

GI	ENERAL OCC	CASIONAL TI	ME BANDS SPE		PAYMENT
F	Holidays No.	Day	Starting time	Ending time	
F	Free	1	7		
	<u>No.</u>	Day	Starting time	Ending time	
	giovedi :	31 agosto 2006 💌		Holidays	
	START	J	00:00:00 23:59:00 Update	new	× Delete

1 - Provides a visual display of Holidays

2

4

Box frame to set the holidays

Special days

Free Days:

In free days, free entrance and exit is granted to all customers provided that this take place during the established time frame.

10000	OPTI			~	
GE	VERAL OCCA	ASIONAL	TIME BANDS	SPECIAL DAYS	PAYMEN'
	1° 1				
	olidays				
	NO.	Day	Starting time	Ending time	
	1				
	1				
F	ree				
	No.	Day	Starting time	Ending time	
	11				
$(\square$					
	giovedi 3	1 agosto 2006 _	<u>.</u>	Free days	
	START 4		N 00:00:00		XI
	END 4		▶ 23:59:00 Update	new	Delete
	(H) (H)	1			
0					

1 - Provides a visual display of free days

Box frame to set the free days 2

(1

Payments

RBPARK Software ~ Installation manual

This is the main window to set the payment methods for occasional customers and account-holders with prepaid cards (time cards are not valid here)

🧐 Entry Mode		
GENERAL OCCASIONAL	TIME BANDS	SPECIAL DAYS PAYMENT
OCCASIONAL	ROUNDING None	SUBSCRIBER © Use Time Bands © Use Only Cost Only Cost VALUE UNIT 15 min Calculate Per Time Units Fixed Cost Costo Massimo Nessuno Nessuno
Save Write Read	EURO	×
frame box shows all the pay		This frame box shows the paym
nt methods available for occas	sio-	method settings for account hole
customers (tokens)		(prepaid cards)

Options

RBPARK Software ~ Installation manual

In this window you can select whether to enable the VAT amount separately from the total cost.

Entry Mode			943)
GENERAL OCCASIONAL	TIME BANDS	SPECIAL DAYS	
IVA			
42			
1			
	3	EURO	🔶 🗡

RBPARK Software ~ Installation manual

Occasionals/Time frames:

OPTION		
GENERAL OCCASIONAL	TIME BANDS	\neg
- OCCASIONAL		
Use Time Bands	R	OUNDING
C Use Only Cost	None	-
O Use Progressive Cost		
C Use Daily Fixed Cost		
F Apply free time band		
📕 🗖 Apply costo fisso giornaliero dopo 2	4 ore	
Progressive Cost		
First Period 15 min	• 0,00	

To enable the time frames select "Use time frames" (for settings see page 3)

Occasionals/Single Cost:

Update

🧒 Entry Mode		
OPTION]	
GENERAL OCCASIONAL	TIME BANDS) s
OCCASIONAL OUse Time Bands Use Only Cost Use Progressive Cost Use Daily Fixed Cost Apply free time band Apply costo fisso giornalier Progressive Cost End Dailed The Standard Standard	R(None o dopo 24 ore	
Sccessive 15 mir		<u> </u>
- Only Cost 15 min Calcola per unità di time	3,00 Fixed Cost)

Setting the Single Cost, also sets: - the time frame;

- the assigned cost;
- the crediting method.

Normally the credit is detracted by computing the actual staying time; if, contrarily, the "Compute-by-Time- Units" item is selected, then the credit is detracted by calculating the time intervals of stay (fractions of time are considered as units).

For example, as the shown in the diagram, if the stay amounts to 20 minutes, in the first instance (actual time) a cost of $3(\in, \$, \pounds, ¥ ...)$ / 15' x 20' = 4 ($\in, \$, \pounds, ¥$...) is computed; in the second instance (time units) the time interval is computed twice, thus the cost will be of 6 ($\in, \$, \pounds, ¥$...).

Occasionals/Progressive Cost:

🤹 Entry Mode	
OPTION]
GENERAL OCCASIONAL	TIME BANDS
OCCASIONAL	
🗢 Use Time Bands	ROUNDING
C Use Only Cost	None
Use Progressive Cost	
C Use Daily Fixed Cost	$\langle \rangle$
Apply free time band	
Apply costo fisso giornaliero	o dopo 24 o e
Progressive Cost	
First Period 15 min	n 🔻 0,00
Sccessive 15 min	n 💌 0,00

The progressive cost payment method allows two different price brackets. (It does not take into account the time interval)

Occasionals/Fixed Daily Cost:

Update

The fixed daily cost payment method requires a rate to be set, which is applied to each access on a daily-basis (from 00:01 to 24:00). For example, if entering on the afternoon of a particular day, and exiting the morning after the rate is applied twice.

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CAME

RBPARK Software ~ Installation manual

Occasionals/Free time frame:

🧐 Entry Mode	
GENERAL OCCASIONAL	TIME BANDS
OCCASIONAL © Use Time Bands	ROUNDING
C Use Only Cost C Use Progressive Cost	None
Use Daily Fixed Cost	
Progressive Cost	o 24 ore
-2023 STATES AND AND AND A 12	

Selecting this function, sets a maximum expense figure; once this is reached no other increment will take effect.

Occasionals/Applies the fixed daily cost after 24 hours have elapsed:

Selecting this fucntion, applies a fixed daily cost;

And then selecting "Apply fixed daily cost" after 24 hours, then a fixed rate will be applied after 24 hours of parking.

Occasionals/Maximum cost

osto Massimo	5 W 9	
4	•	Nessuno

Selecting this function, sets a maximum expense figure; once this is reached no other increment will take effect.

Occasionals/rounding off:

Update

In this window you can set the required rounding off for currencies with decimals (\in , $, \pm$, ...), and will be applied to all payment methods

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Account-holders/Time Frames:

	SPECIAL DAYS	To enable the time frames, select "Use time frames" (see settings on page 3)
ROUNDING None	SUBSCRIBER Use Time Bands CUse Only Cost CUse Daily Fixed Cost VALUE VALUE UNIT	
5 min 1 0,00	Calculate Per Time Units Fixed Cost	

Account holders/Single cost:

IAL DAY	S	ſ	P/	YMENT
IBSCRIB	ER			
0	Use Time	Bands		
<u> </u>	Use Unly	Lost		
Jolu Cos	use Daily F	Fixed	LOSI	
VA	LUE [0,00	
		11		-
		1.5.		
1	11	5 min		_
Гс	alculate P	er Time	e Units	
ixed Co	st			
•11	•	IF	0,00	
-	G			
	ROUN	DING	None	•
osto Ma	ssimo			
		KI		
	, a	Nessun	10	

Update

- Setting the Single Cost, also sets:
- the time frame;
- the assigned cost;
- the crediting method.

Normally the credit is detracted by computing the actual staying time; if, contrarily, the "Compute-by-Time- Units" item is selected, then the credit is detracted by calculating the time intervals of stay (fractions of time are considered as units).

For example, as the shown in the diagram, if the stay amounts to 20 minutes, in the first instance (actual time) a cost of $3(\in,\$,\pounds,\Downarrow)$ / 15' x 20' = 4 ($\in,\$,\pounds,\updownarrow$...) is computed; in the second instance (time units) the time interval is computed twice, thus the cost will be of 6 ($\in,\$,\pounds,\circlearrowright$...).

CAM

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Account Holders/Fixed Daily Cost:

SUBSCRIBER	
C Use	Time Bands
C Use (Only Cost
🕑 Use I	Daily Fixed Cost
Only Cost	
VALUE	0,00
UNIT	15 min 💌
🗐 Calcula	ate Per Time Units
F 10 1	
- Fixed Lost	
	• 0,00
RC	JUNDING None -

The fixed daily cost payment method requires a rate to be set, which is applied to each access on a daily-basis (from 00:01 to 24:00). For example, if entering on the afternoon of a particular day, and exiting the morning after the rate is applied twice.

Account Holders/ Roundings Off:

CIAL DAYS	PAYMENT
UBSCRIBER	
Use Tim	e Bands
🕥 Use Onlj	y Cost
🔿 Use Dai	ly Fixed Cost
Only Cost	Contraction of the
VALUE	0,00
	15 min 💌
Calculate I	Per Time Units
Fixed Cost	
<u>•</u>	
RUUN	IDING None 💌
Costo Massimo	

In this window you can set the required rounding off for currencies with decimals (€,\$,£,¥ ...), and will be applied to all payment methods

Account holders/maximum cost:

CAPITOLO 4

RBMP1 - Software

Gestione abbonati

SOMMARIO

argomento

Personali	2
Accesso	3
Stato	4

pagina

Cliccando su questo pulsante, si apre la finestra per la "Gestione degli Abbonati"

Cliccando su questo pulsante, si attiva la schermata per l'inserimento dell'abbonato.

	+		Nuo	vo Utente 1)
cognome	Belli					
nome	Alvaro					
indirizzo	Via rossi n°12					
citta'	Mogliano					
CAP	31021	_				
Provincia	TV	-				
telefono	041/22222222	-				
P.Iva	belal764fdtx	-				
e-mail	bellial@came.it					
	Annotazioni					
10		-				4
				Totale	Abbonati	1
PERSONALI	ACCESSO	STATO				
				-		$ \longrightarrow $
		2	3 8			×

- 1 Finestra dati possessore tessera
- 2 Pulsanti di comando
- 3 Finestra lista utenti

Software-Gestione abbonati

Accesso

- 1 Box per la lettura codice tessere e relativa associazione all'abbonato (si possono associare fino a nove
 - tessere ad ogni singolo utente)
- 2 Visualizzazione e possibilità di selezione delle fasce orarie
- 3 Selezione della tipologia contratto e durata dello stesso
- 4 Box per la gestione del credito nella tessera

N.B.: Se le fasce orarie non coprono l'intervallo di tempo della sosta verrà utilizzato in automatico il costo fisso giornaliero.

Se selezioniamo il contratto Normale basterà decidere il tempo di attivazione, senza impostare tipologie di pagamenti.

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Questa finestra mette in evidenza informazioni del singolo utente, utili per il normale controllo dell'impianto.

CHAPTER 5

RBMP1 - Software

System activity read out

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Occupancy

Software RBPARK ~ Operating Manual

Clicking this button opens the "Occupancy" window which shows the customers in the car-park (it does not come up when the car-park is empty).

1 Delin Alvano 21/06/2006 13:37:33 2 Alussa Marce 30/08/2006 11:32:37 3 Rossi Paolo 30/08/2006 11:33:06 4 Marchesi Giacomo 30/08/2006 11:34:01	No. name 1 D-Withham	Entry date and time
3 Rossi Paolo 30/08/2006 11:33:06 4 Marchesi Giacomo 30/08/2006 11:34:01	2 Alusias Marco	21/08/2006 13:57:53
4 Marchesi Giacomo 30/08/2006 11:34:01	3 Rossi Paolo	30/08/2006 11:33:06
Emove Read Clos		×
	imove Read	

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Daily

Events

ACCOUNT HOLDER EN- TRANCE	Account holder entrance means access by card-holder (registered customer)
ACCOUNT HOLDER EXIT	Account holder means exit by card-holder (registered user)
ERROR: APB	The APB function (Anti-Pass Back) precludes the use of a card by another customer when the original customer is still present in the facility
ERROR: CONTRACT	Contract errors warn of attempted accesses by customers not cleared for en- trance at that particular moment.
ERROR: CREDIT	Credit errors warn of attempted accesses by customers with insufficient credit.
ERROR: TIME FRAME	Time frame errors warn of attempted accesses by users not cleared for that particular time frame.
ATTEMPTED ACCESS	This means access has been attempted using an invalid card.
ERROR: BLOCKED	The blocked error warns of an attempted access, when system is blocked, either by occasional customers or account-holders.
NEW ENTRACE	New entrance means a new occasional entrance has taken place
EXIT	This item warns of the exit from the car-park of either an occasional customer or card holder.
PAYMENT: MANUAL	This shows payment made in manual mode (manned cashier).
PAYMENT: AUTO	This payment made in automatic mode (automatic cashier).
MANUAL OPENING TO- KEN	Shows manual opening of the entrance barrier.
MANUAL OPENING TERM.	Shows the manual opening of the exit barrier.
LOAD TOKEN	Shows manual loading of token (token is cleared).
RECHARGE ACCOUNT	Shows recharging of card.
MODIFY SYSTEM	Shows a change in the setting of the system (displayed only after password is inserted)
MODIFY ACCESS	Shows a change in the system's mode of access (displayed only after pas- sword is inserted)
MODIFY ACCOUNT HOL- DERS	Shows a change in the handling of account-holders (displayed only after pas- sword is inserted)
ACCOUNT HOLDER PAS- SING	Shows the passing of an account holder.
PAGAMENTO CASSA AUTOMATICA	Shows payment made at an automatic cashier by an occasional customer
AUTOMATIC RECHARGE	Shows a recharge made at an automatic cashier by an account-holder.

Daily		Software RBPARK ~ Operating Manua
OPEN SHIFT	Shows the opening of a work shift by an operator.	
CLOSE SHIFT	Shows the closing of a work shift by an operator.	
REMOVE TOKEN	Shows removal of an occasional customer by an op	erator.
MANUAL EXIT OF AC- COUNT HOLDER	Shows manual exit (made by operator) of an accour	nt holder.
Customers		
ONLY OCCASIONALS	Search is run only on occasional customers	
ONLY ACCOUNT HOL- DERS	Search is run only on account-holders	
CUSTOMER NAME	Running a search for a single registered customer is	s possible. This can display

OPERATOR NAME Running a search for a single operator is possible. This can display date on changes made on the system or other parameters of the car-park (displayed

only after password is inserted) By selecting among EVENTS and CUSTOMERS you can run an advanced search to remove useless

data and quickly find the required information.

To respect privacy laws: enable the system password so that all account holder traffic may only be viewed the system administrator (holding the master password).

Cap.5

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Historical data

Software RBPARK ~ Operating Manual

The EVENTS and ACCOUNT HOLDERS items are the same as those described in pages 4 and 5.

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CHAPTER 6

RBMP1 - Software

Password Management

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Administrator password

RBPARK Software ~ Installation manual

Operators password

- 1 Operators password activity summary window
- 2 Select operator status
- 3 Button to remove operators
- 4 Select operator authorisations
- 5 Operator name input field
- 6 Save button
- 7 Apply button
- 8 Close button
- 9 Operator password input field

CHAPTER 7

RBMP1 - Software

Modem

<u>Topic</u>

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Modem-administration software

Connecting from a remote PC

RBPARK Software ~ Installation manual

Please note: the following HATES standard modems can be used: GSM and PSTN.

The communication takes place among the PC, the transmitting modem, the receiving modem and the RBMPARK; when connection is up, you can change any parameter, and read any information. However, non new account-holders may be created.

1-Select the system configuration

Modem-administration software

Connecting from a remote PC

RBPARK Software ~ Installation manual

1-Select remote connection

Modem-administration software

Remote connection window

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Once the remote connection window is up, you need to:

- assign a name and number to the modem that will be called
- have the system detect the modem (the one connected to your PC)
- save changes
- Initiate the call by pressing on the Connect button
- once the system is connected you may shut the remote connection window, and use the RBMpark.