I N T R O D U C T I O N

TCA series

RBM8 SYSTEM

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What is CameTCA RBM8?

RBM8 is an integrated access-control system totally managed from a Personal Computer

The basic configuration is made up of two items of equipment: the **RBM8** and **PC30**, and of a proprietary software which is simply installed and easy to use on any computer with the Windows Disk Operating System.

The RBM8 board is the heart of the system, and can be installed at a distance from the computer (max. 1000 m) in that all the work of functions programming/modification/control, is managed by the software.

The PC30 instead must be installed close to the computer (max 5 m) because it is the essential tool for programming the code-command devices. The PC30 dialog indeed brings together all the decodings necessary for save the CAME-compatible command devices:

- radio-controls series **ATOMO**, **TAM** and **TOP**;

- keyboards **S5000**, **S6000** and **S7000**;

- Transponder-card readers **TSP00** (proximity) and Magnetic cards **LT001**.

These devices, which are present also simultaneously, must be quantified depending on the system set-up and are then supplied upon request.

The basic configuration can manage and test up to **8 access automations** (doors, gates, bars, etc) through **4 command devices** or; **8 digital entrances** are also available for uncoded devices (alarms, emergency blocks, sensitive boards, etc.) which broaden the functions applied to the access automations.

This configuration can support the addition of up to **32 REM expansion items**, which allow the system to expand its capacity of management and control up to **72 access automations** through **68 code-command devices** and **72 digital inputs**.

The REM is an expansion board designed to increase the capacity of RBM8 in terms of equipment and/or devices connected (not necessarily both); they are connected to each other by way of a serial cable the total length of which can be 1,000 m and where the RBM8 can be at the start (single-section connection) or in an intermediate position (two-section connection).

Where to apply the CameTCA RBM8

The RBM58 system is adaptable to all situations requiring accesses to be controlled with reference to:

- entry authorization
- entry/exit recording
- monitoring of entry/stay/exit
- enabling and selection of the entrances and exits
- times and costs of stay
- block/release of the system and/or of the authorisations in real time
- centralised system management

This means that the areas being use are extremely varied, and, among them, the main ones are:

PUBLIC CAR PARKS

PRIVATE CAR PARKS

COMPANY BUILDINGS AND CAR PARKS

PERSONNEL MANAGEMENT

HISTORIC TOWN CENTRES

SPORTS FACILITIES

PUBLIC HEALTH SERVICES

RECYCLING/RECOVERY PLANT

CEMETERY SERVICES

What the CameTCA RBM8 **can do**

For all these situations and for all other systems that have access and/or exit routes to authorise/ test/record/monitor, it offers the following functions:

> For the system as a whole

- The possibility of configuring, in the system, code-command devices of different types, also for the same automation: keyboards, radio-controls or transponder cards (magnetic or swipe-type)
- Enabling/disabling of the access automations
- Enabling/disabling of the digital entrances
- Definition of 8 uniform groups of users for collective enablings/disablings
- Setting of 4 traffic-light checks clear/busy, with a maximum number of places allowed and possible fixed booking/occupying
- Choice of the relay-function type, bistable/monostable (with setting of the monostable closing time)
- Choice of contact type, NO/NC, for all the digital entrances
- Programming of 8 different timebands according to day
- Enabling/disabling of the timebands
- Programming of hourly costs according to timeband and day
- Setting of 4 discount levels
- Programming of a minimum free stay
- Setting of the duration of timed AntipassBack
- Programmed opening and closing of the entrances
- Definition of "Blocked Days" - fully or partly - for the system as a whole
- Block/release of the whole system
- Saving/recording of 1500 different users with personal data and code of the assigned command device
- Printout of users list
- Printout or display of all movements of the total users per period

> For each individual user

- Association to a uniform group
- Enabling/disabling, modification or final cancellation of the user
- Definition of the access type: normal, prepaid depending on quantity or time limit, with subscription with calculation of validity in days
- Selection of AntipassBack type: normal or timed
- Setting of hourly costs or personalised credits
- Assigning the discounts and free stay
- Assigning the timebands according to day
- Monitoring of the current user status: if present, last entrance and last exit, total length of stay, total visits, remaining credits
- Printout of the user configuration
- Printout or display of the user's movements according to period

All the above mentioned functions may be enabled/blocked/changed at any time through the software; also, all the automations connected to the RBM8 and the REMs may be blocked/unblocked with the safety buttons connected to the digital entrances

C H A P T E R 1

RBM8 - hardware

CONNECTIONS

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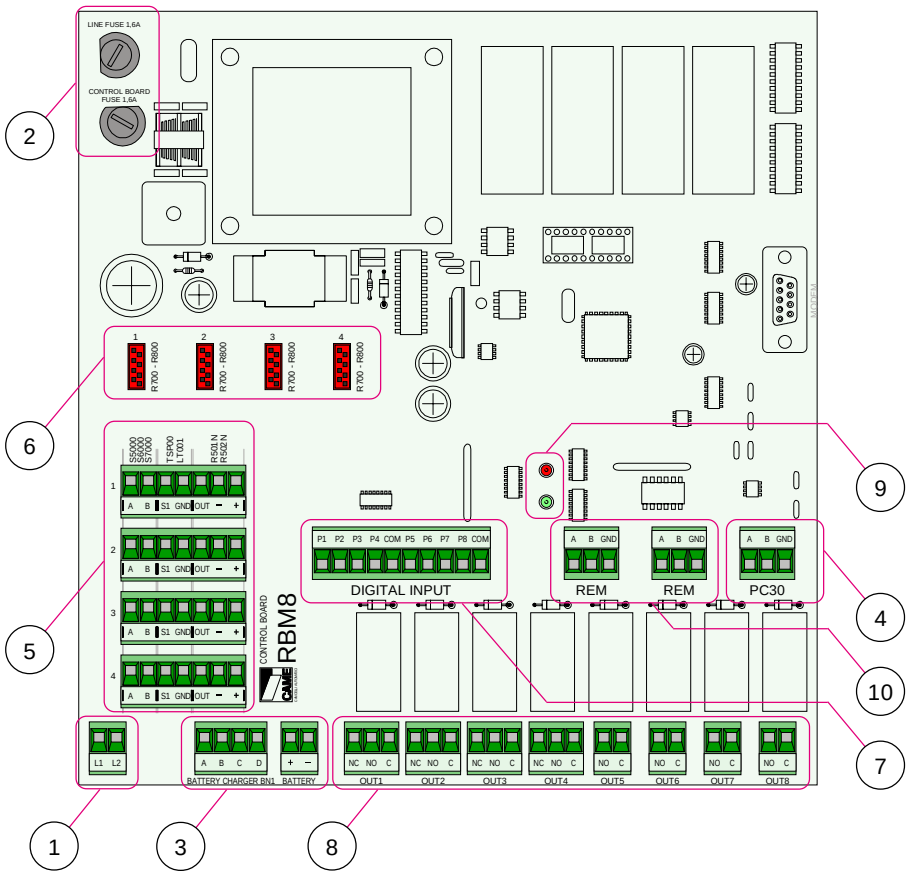
RBM8 Motherboard - description



1 - Terminals for powering 230V AC/DC board

2 - Power supply protection fuses (Line) and circuit (Control Board)

3 - Terminals for connecting the BN1 battery charger(optional)

4 - Terminals for connecting the PC30

5 - Terminals for connecting the sensors (radio-controls, keyboards, Card)

6 - Connectors for R700 and R800 boards

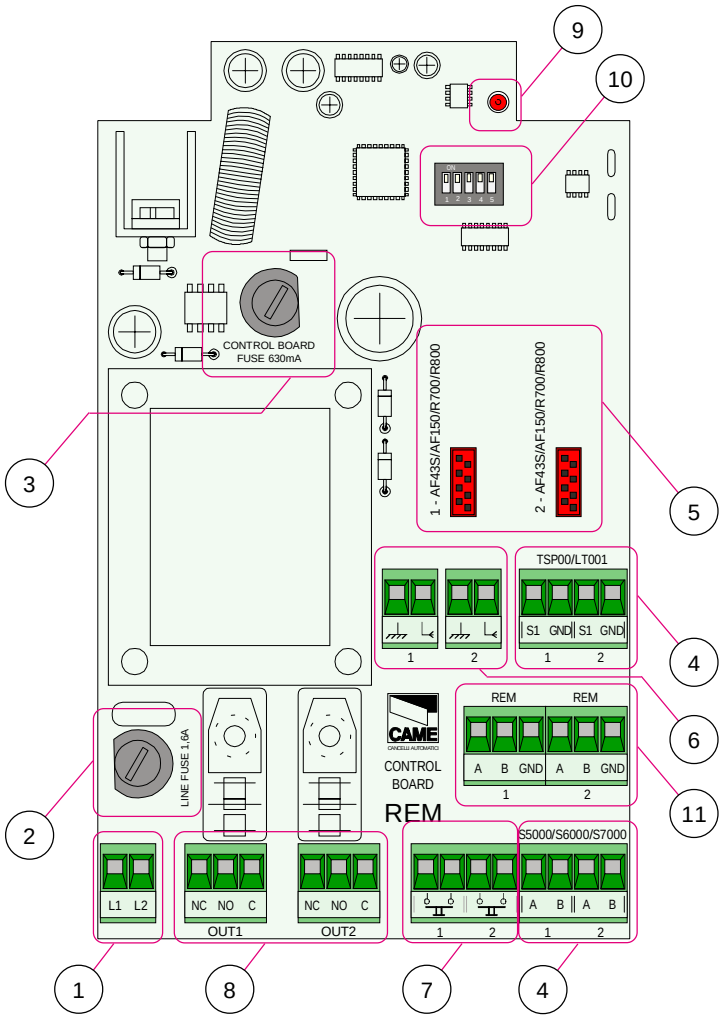
7 - Terminals for connecting the input digital devices

8 - Terminals for connecting the devices to control(automations, alarms, traffic lights, etc.)

9 - LED notifying "active circuit" and "communication in progress"

10 - Terminals for connecting the REM extensions

REM Motherboard - description



1 - Terminals for 230V ac/dc board powering

2 - Power supply protection fuse

3 - Circuit protection fuse

4 - Terminals for connecting the sensors (keyboards, Card)

5 - Connectors for signal decoding boards (for selectors and sensors) and frequency (radio-controls)

6 - Terminals for antenna connection

7 - Terminals for connecting the input digital devices

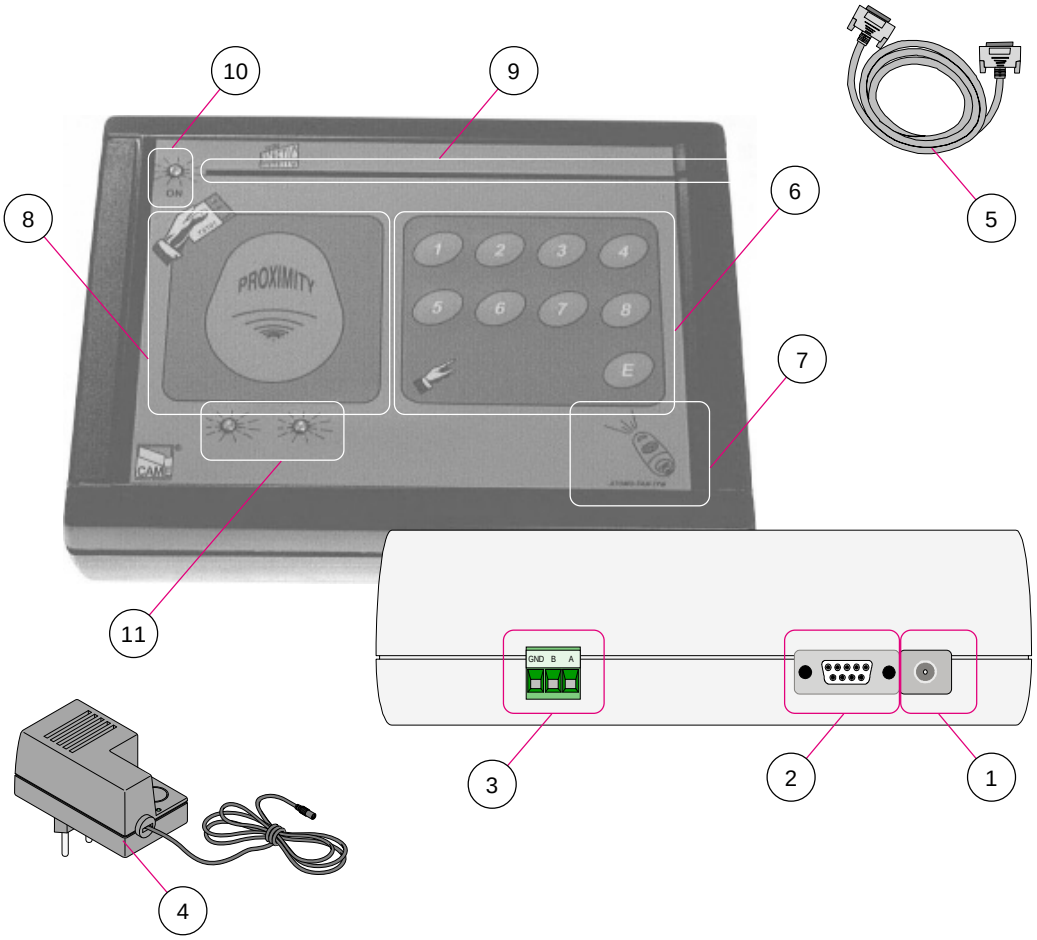
8 - Terminals for connecting the devices to control(automations, alarms, traffic lights, etc.)

9 - LED notifying "active circuit"

10 - REM address selector

11 - Terminals for connecting to the RBM8 and/or to another REM

PC30 - description



1 - Input power supply, 12/24V AC/DC

2 - 232 serial port for connecting to Personal Computer

3 - Terminals for connecting to RBM8 (RS485 serial port)

4 - 12V AC transformer

5 - Cable complete with 5 m 232 connectors

6 - Keyboard for saving S5000/S6000/S7000 selector codes

7 - Area for saving TOP/TAM/ATOMO transmitters

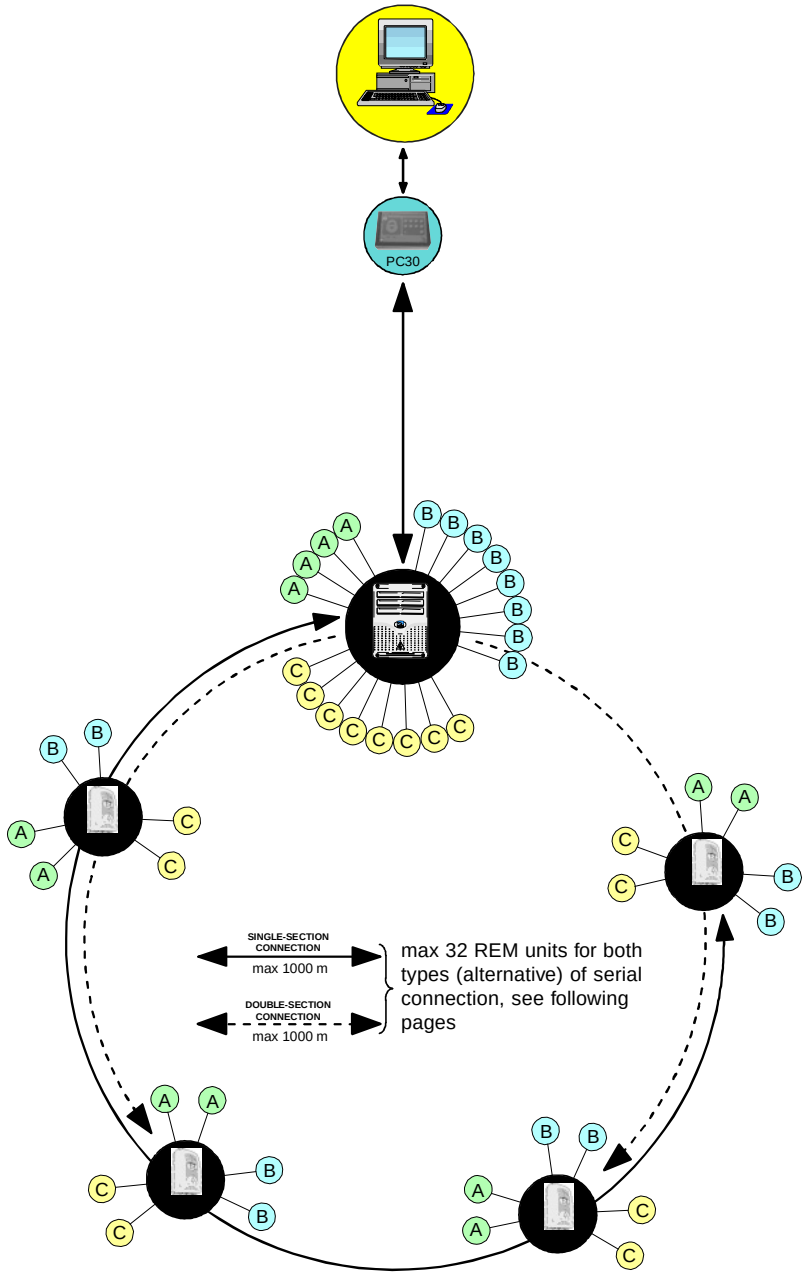
8 - Area for saving TST01 Card (proximity card)

9 - Area for saving TST02 Card (magnetic swipe cards)

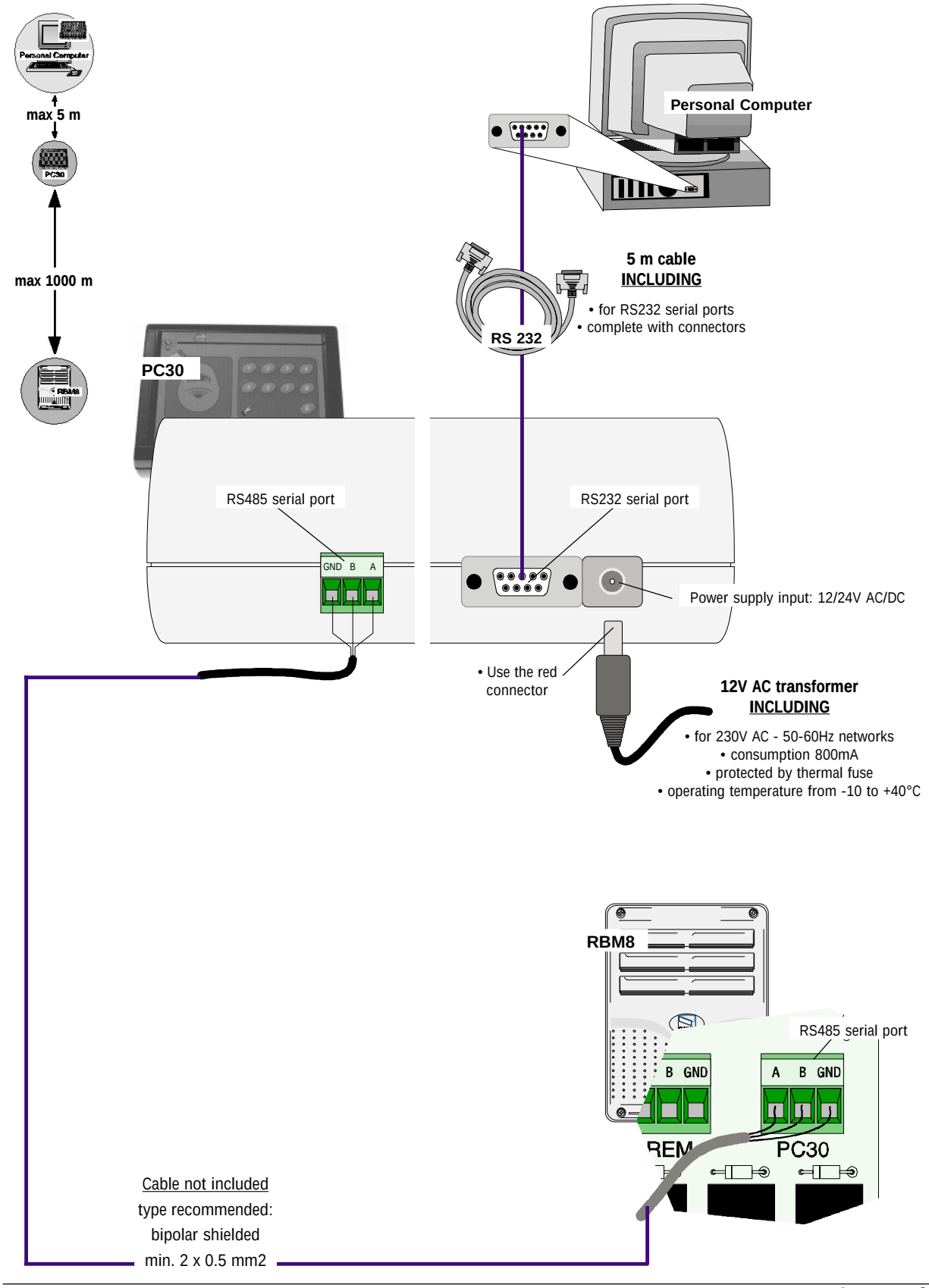
10 - LED notifying "power supply present"

11 - LED notifying "code registered" and "code already present"

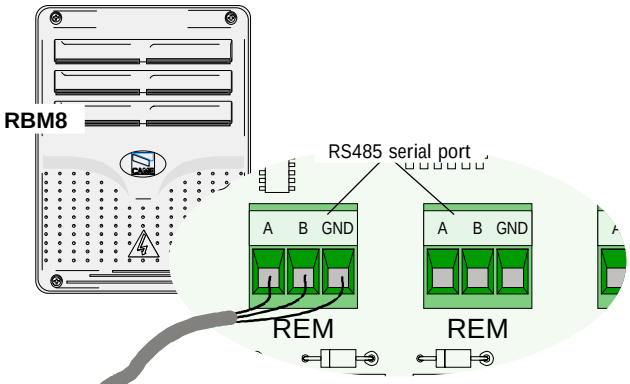
General layout of the RBM8 system



Connection: **RBM8** <----> **PC30** <----> **Personal Computer**

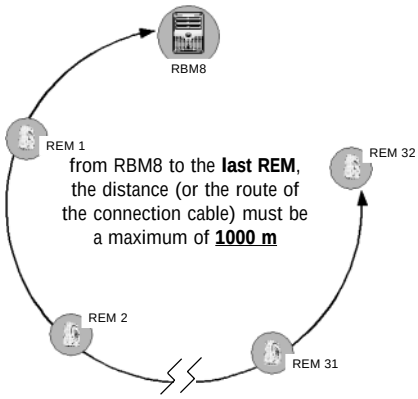


Connection: **RBM8** <----> **REM** (single section)

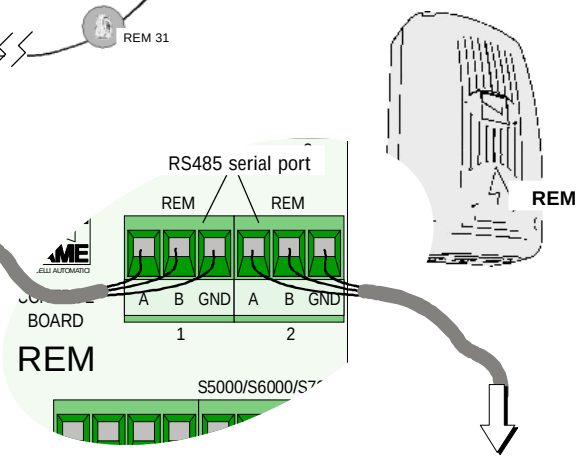


Cable not included
type recommended:
bipolar shielded
min. 2 x 0.5 mm2

SINGLE section connection: RBM8 is found at the end of the cables route

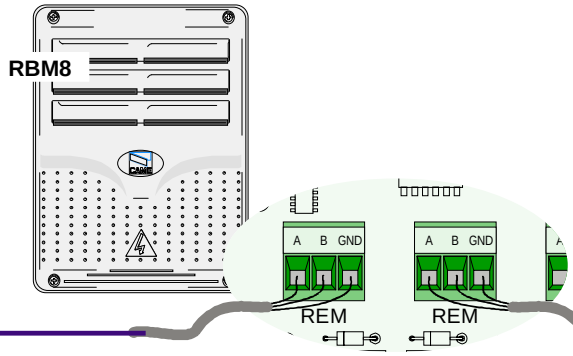


Each REM is identified by RBM8 by a sequential progressive numbering (from 1 to 32) independently of the position along the route of the connection cable; this number (called also address) must be set on the related 5 dip switches in the REM motherboard, see {§ 1.11 | p 14}



at the **subsequent REM**, for a maximum of 32 units
(INPUT AND OUTPUT CONNECTABLE IRRESPECTIVELY TO TERMINAL BOARD 1 OR 2)

Connection: **RBM8** <----> **REM** (two sections)

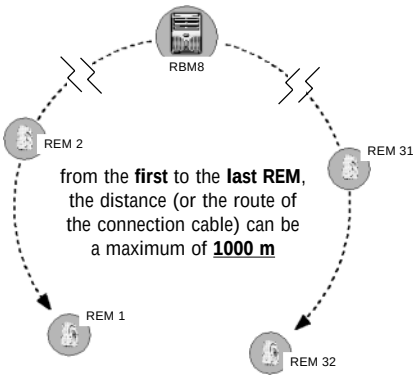


Cable not included
type recommended:
bipolar shielded
min. 2 x 0.5 mm2

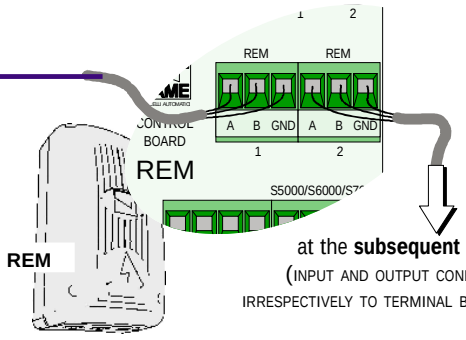
section A*

Each REM is identified by RBM8 by a sequential progressive numbering (from 1 to 32) independently of the position along the route of the connection cable; this number (called also address) must be set on the related 5 dip switches in the REM motherboard, see {§ 1.11 | p 14}

TWO section connection: The RBM8 can be found at any point of the cables route

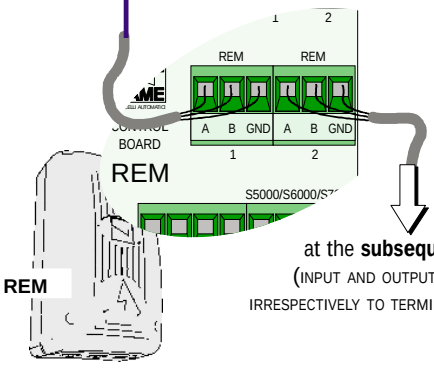


section B*



at the **subsequent REM*** (INPUT AND OUTPUT CONNECTABLE IRRESPECTIVELY TO TERMINAL BOARD 1 OR 2)

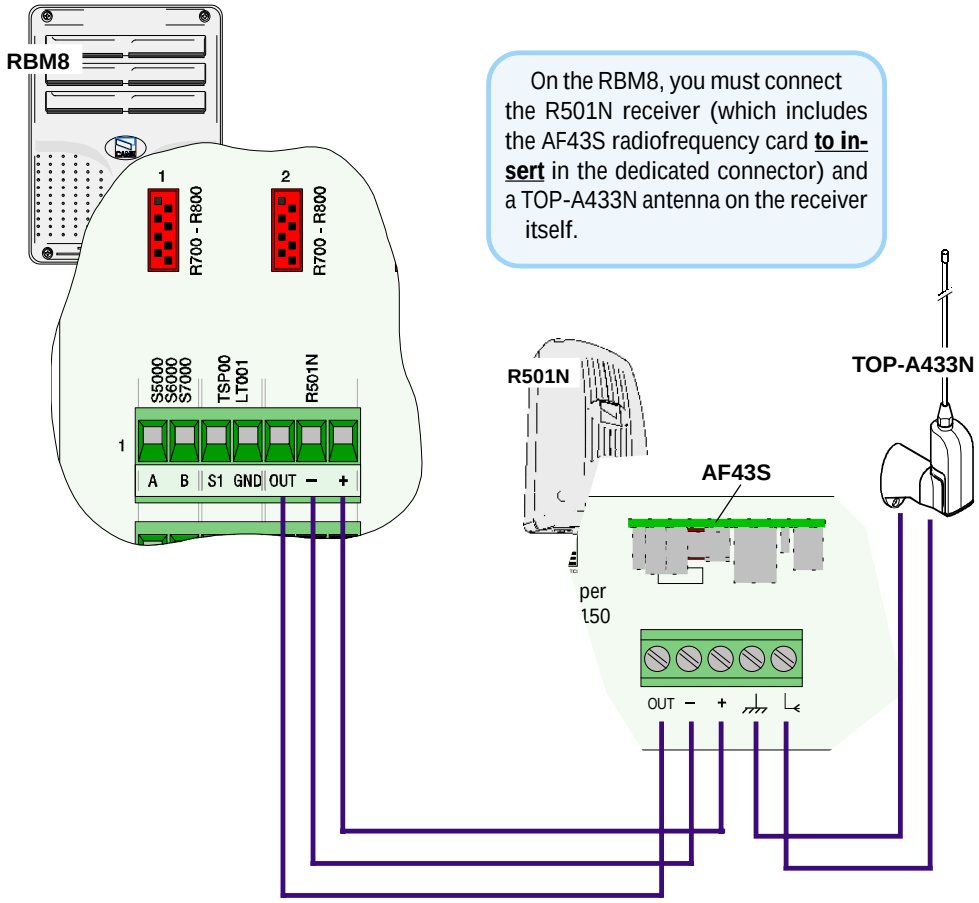
Cable not included
type recommended:
bipolar shielded
min. 2 x 0.5 mm2



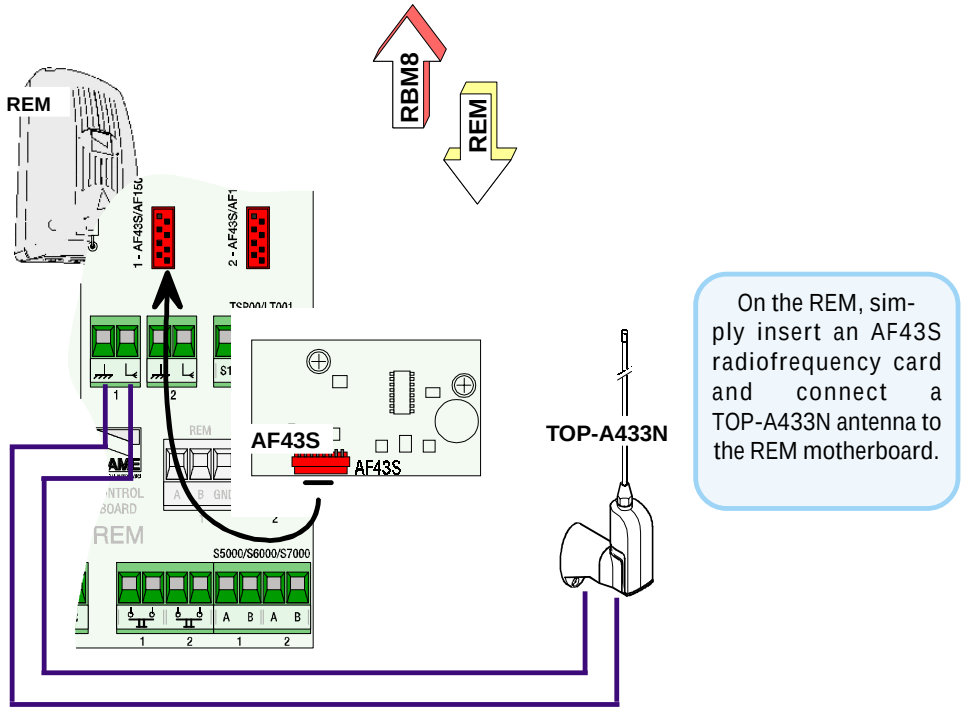
at the **subsequent REM*** (INPUT AND OUTPUT CONNECTABLE IRRESPECTIVELY TO TERMINAL BOARD 1 OR 2)

* the amount of the REMS in serial connection on the A+B section can be a maximum of 32 units

Connection: **RBM8/REM** <----> **REMOTE CONTROL** sensor



On the RBM8, you must connect the R501N receiver (which includes the AF43S radiofrequency card **to insert** in the dedicated connector) and a TOP-A433N antenna on the receiver itself.

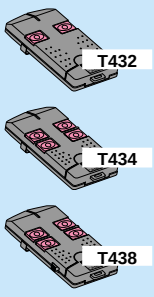


On the REM, simply insert an AF43S radiofrequency card and connect a TOP-A433N antenna to the REM motherboard.

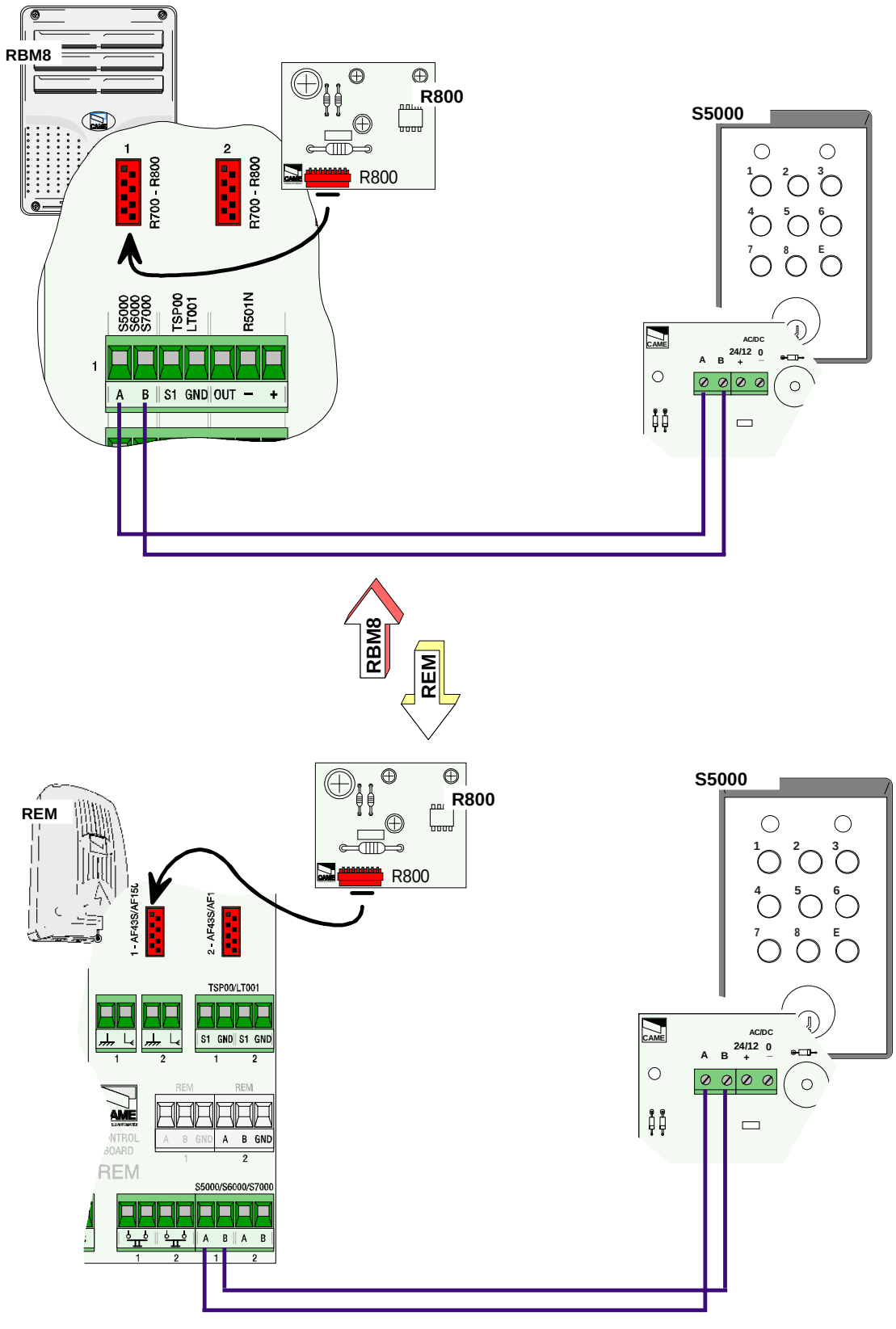
ATOMO series

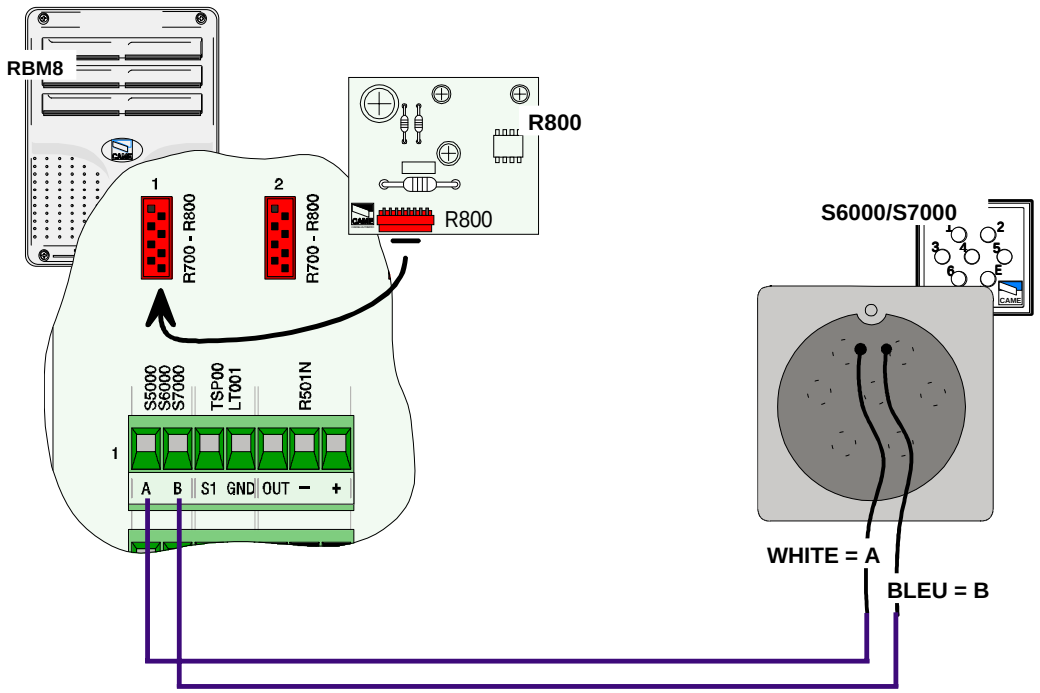
TOP series

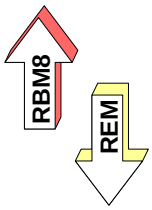
TAM series

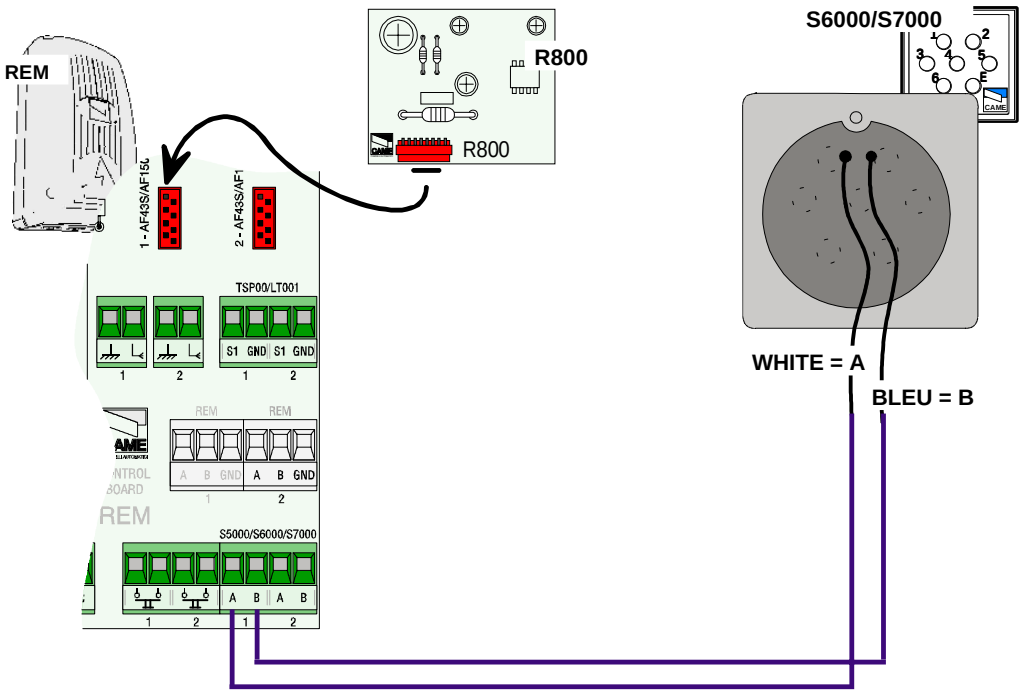


Connection: **RBM8/REM** <----> **KEYPAD** sensor

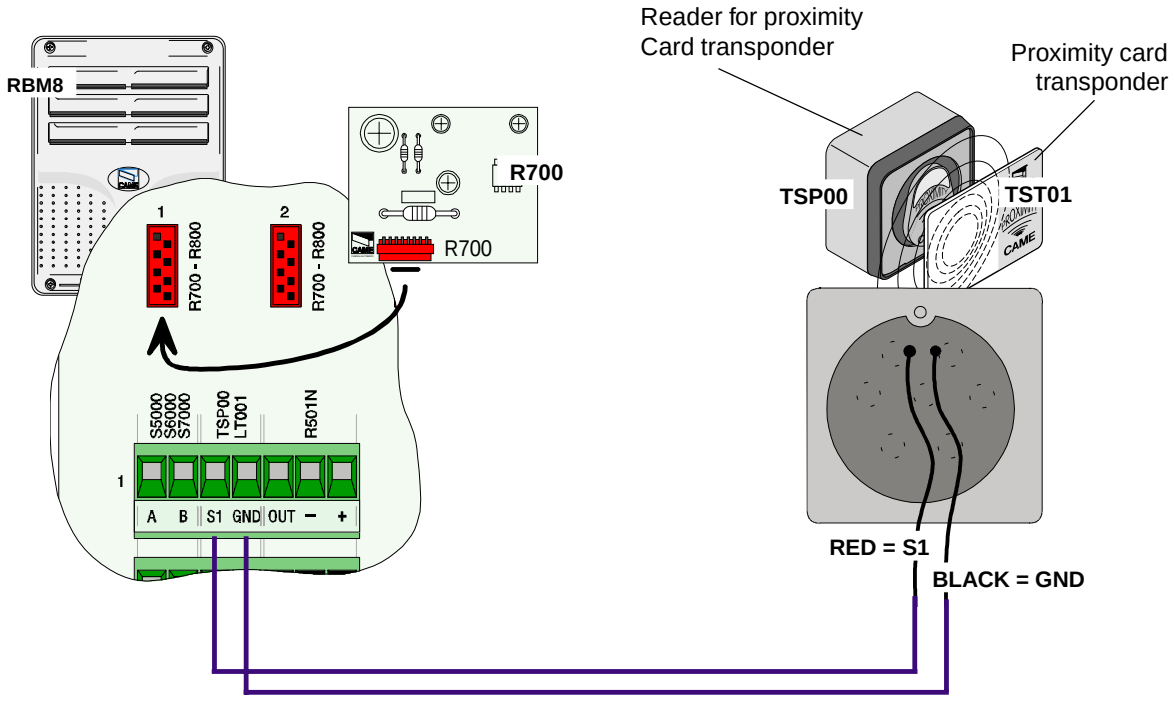


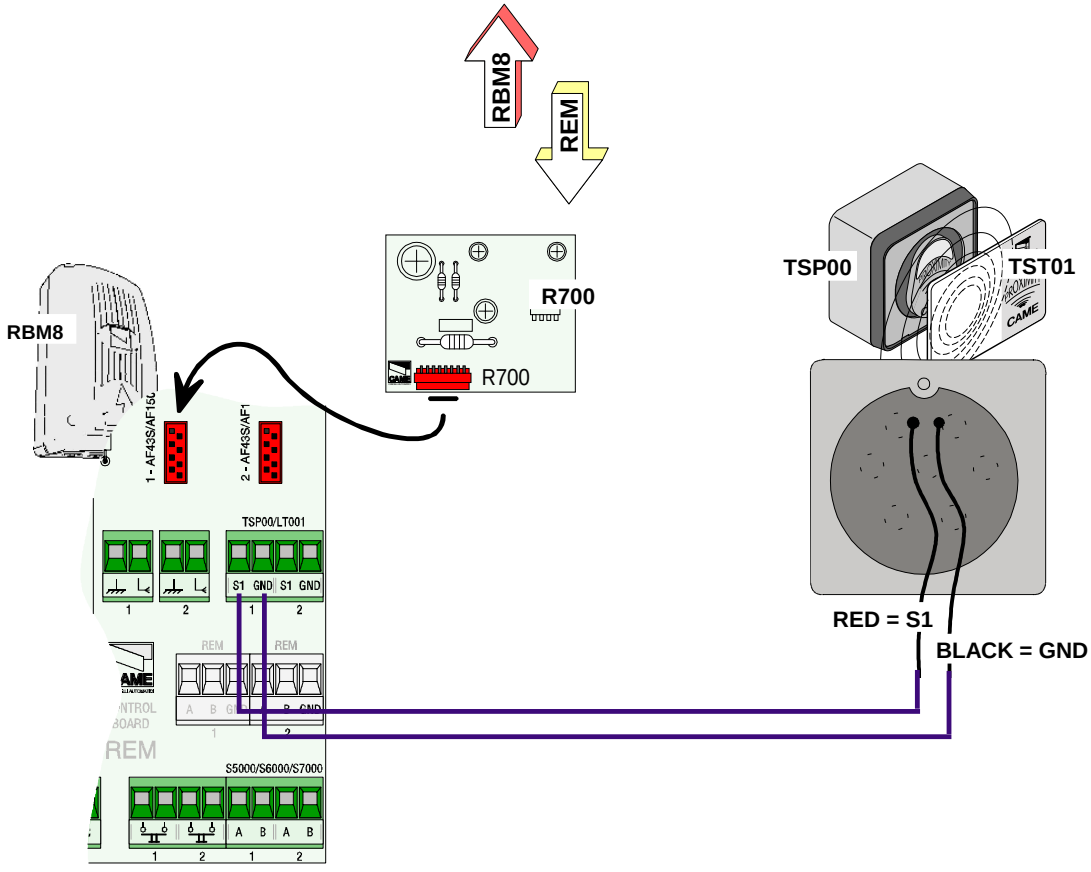

RBM8
R800
R800
1
2
R700 - R800
R700 - R800
S5000
S6000
S7000
TSP00
LT001
R501N
1
A
B
S1
GND
OUT
−
+
S6000/S7000
WHITE = A
BLEU = B

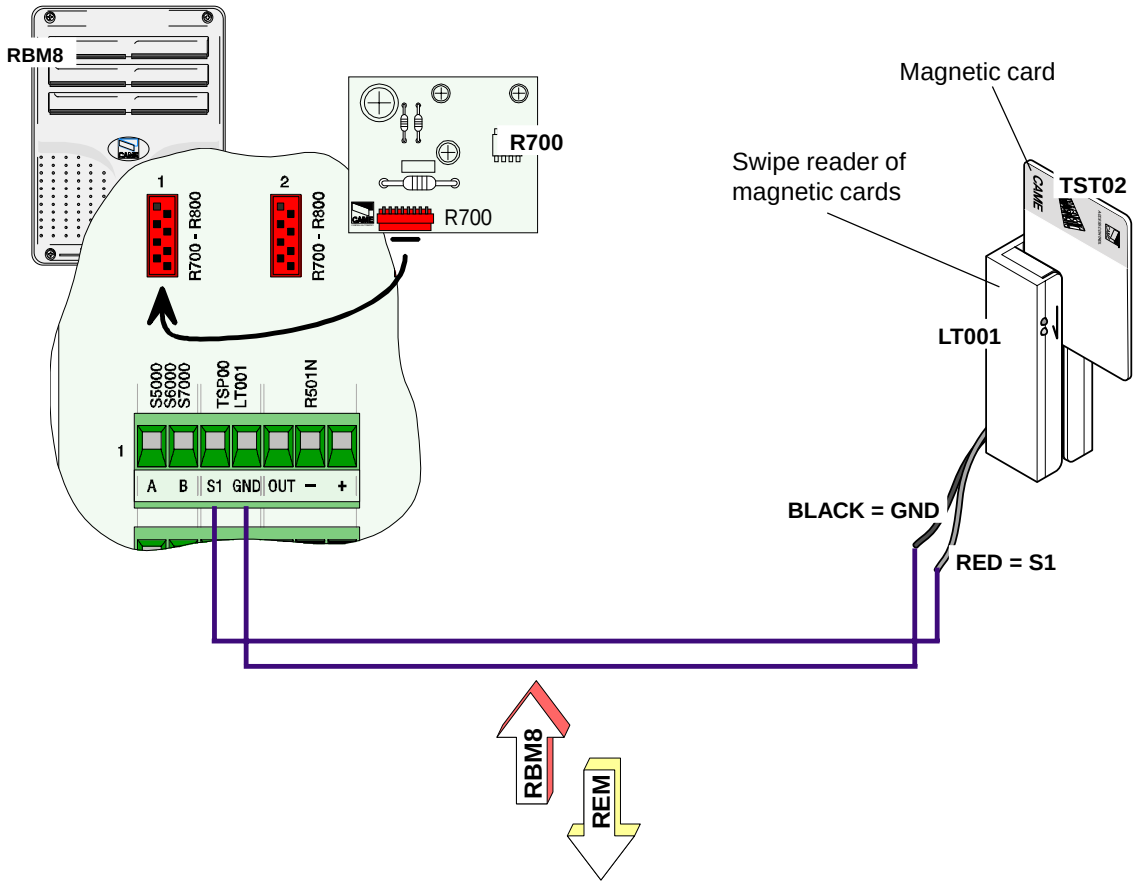

RBM8
REM

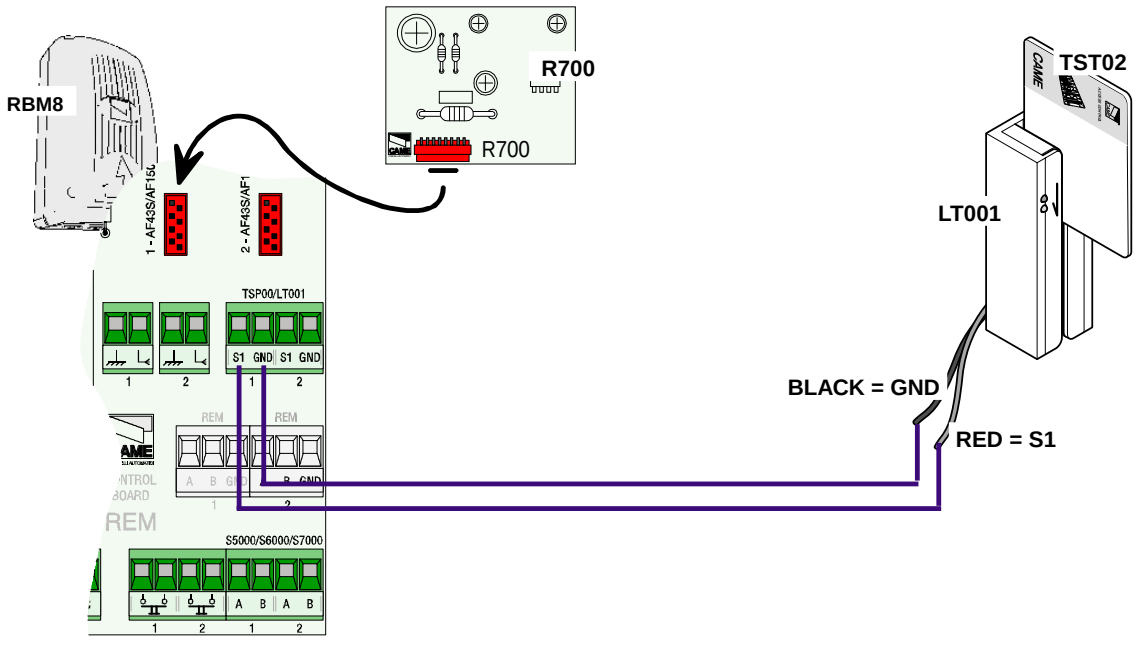

REM
R800
R800
1 - AF43S/AF150
2 - AF43S/AF1
TSP00/LT001
S1
GND
S1
GND
REM
REM
A
B
GND
A
B
GND
REM
S5000/S6000/S7000
A
B
A
B
S6000/S7000
WHITE = A
BLEU = B

Connection: **RBM8/REM** <----> **CARD READER** sensor

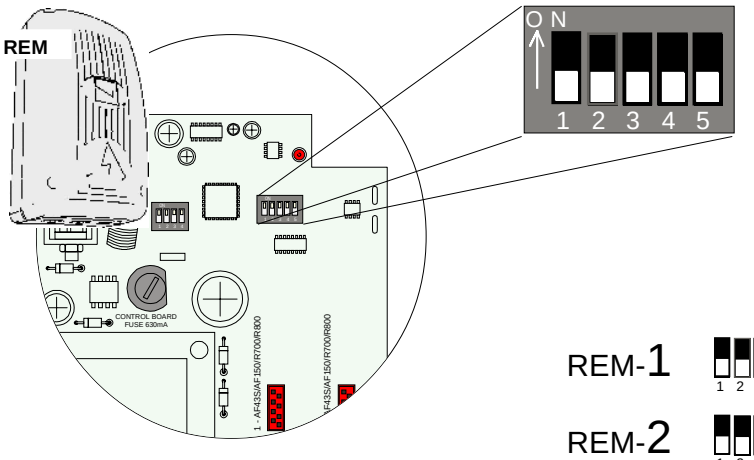


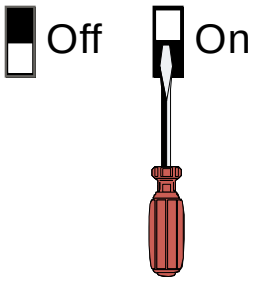



RBM8
R700
R700
1
2
R700 - R800
R700 - R800
S5000
S6000
S7000
TSP00
LT001
R501N
1
A
B
S1
GND
OUT
–
+
Magnetic card
Swipe reader of
magnetic cards
TST02
LT001
BLACK = GND
RED = S1


RBM8
REM
R700
R700
1 - AF43S/AF150
2 - AF43S/AF1
TSP00/LT001
S1
GND
S1
GND
REM
REM
REM
S5000/S6000/S7000
A
B
A
B
TST02
LT001
BLACK = GND
RED = S1

List **of REM addresses**





REM-1		REM-17	
REM-2		REM-18	
REM-3		REM-19	
REM-4		REM-20	
REM-5		REM-21	
REM-6		REM-22	
REM-7		REM-23	
REM-8		REM-24	
REM-9		REM-25	
REM-10		REM-26	
REM-11		REM-27	
REM-12		REM-28	
REM-13		REM-29	
REM-14		REM-30	
REM-15		REM-31	
REM-16		REM-32	

C H A P T E R 2

RBM8 - software

SYSTEM CONFIGURATION

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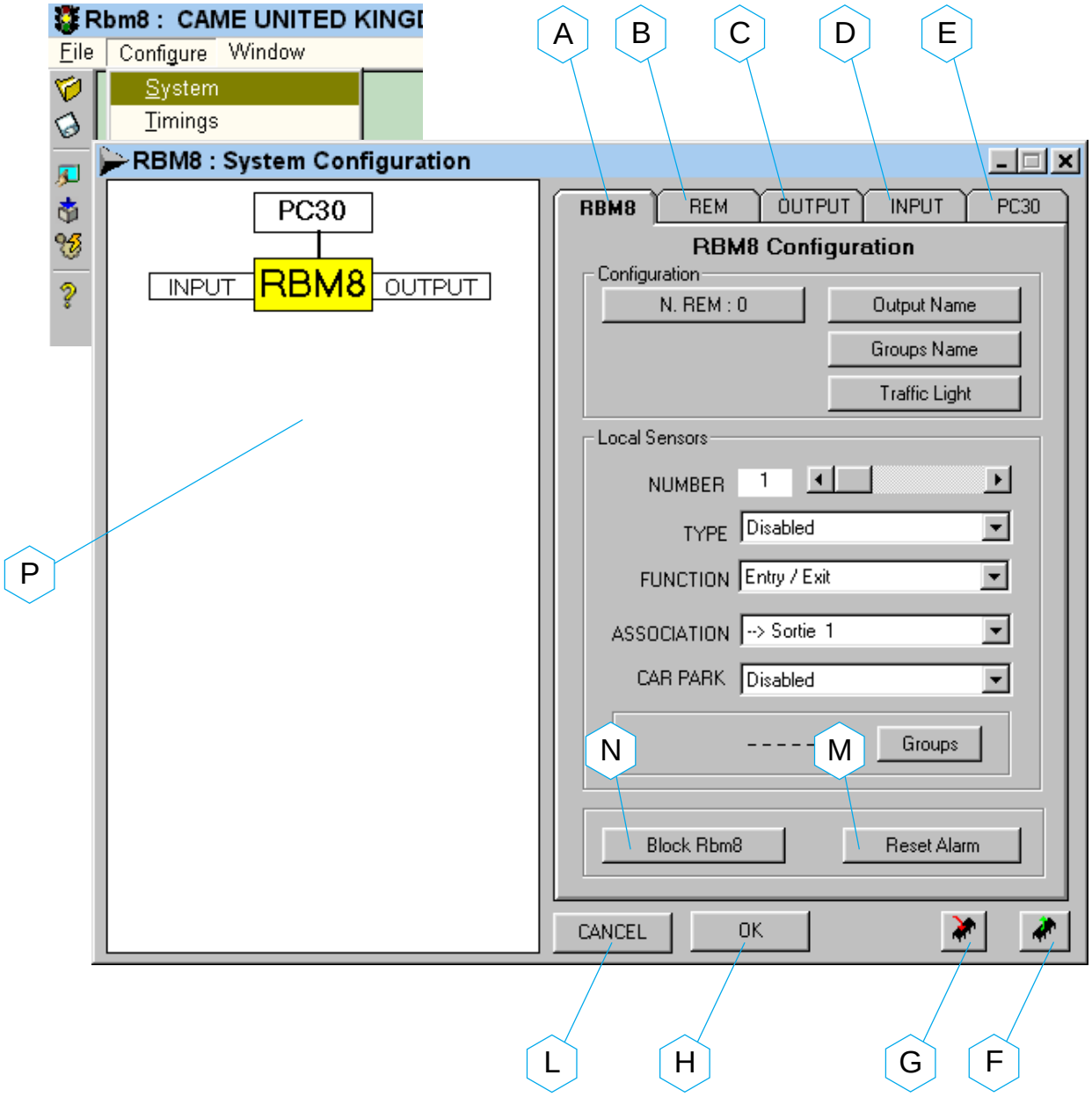
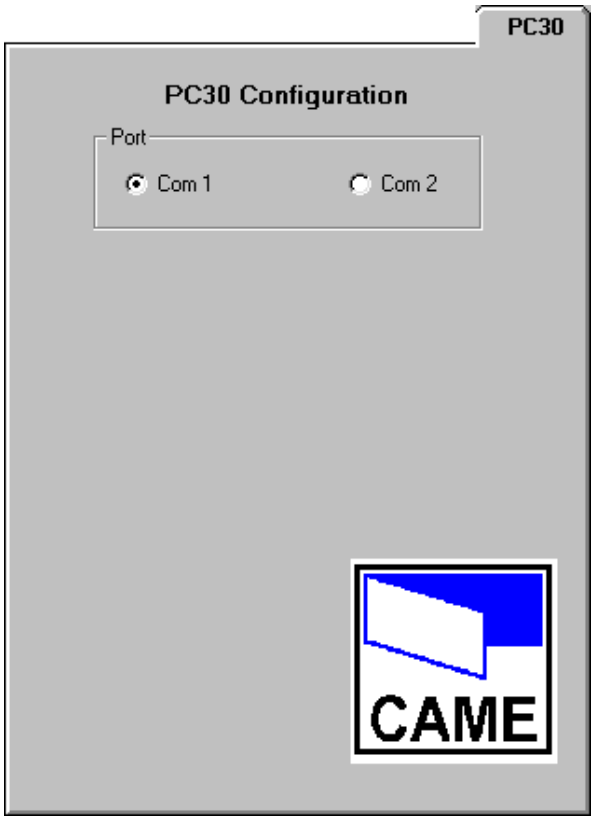
Activating the **exits** of the **REM**s 16
Relay function (REM) 17
Configuring the **digital entrances** of the **REM**s 18
Assigning the **digital devices** to an **exit** (REM) 18

System configuration window



A - RBM8 configuration dialog
B - REMs configuration dialog
C - RBM8 exits configuration dialog
D - RBM8 digital entrances configuration dialog
E - PC30 configuration dialog
F - Button for reading the programming saved on RBM8
G - Button for saving the programming on RBM8
H - Confirm button for all changes (always valid as confirmation during programming on the hard disk; does not affect the memory of RBM8)
L - Button to cancel with the same characteristics of H
M - Resets the alarm exit
N - Blocks all the system at any time
P - Graphical system representation window also showing - during programming - which parts of the system we are working on

Configuring PC30



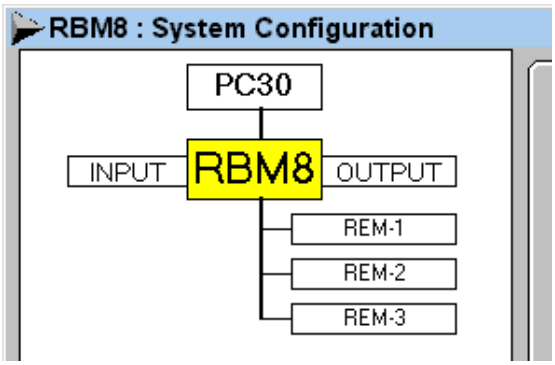
In the PC30 dialog, you must select the PC's port connection the PC30 will be connected to (normally COM1).

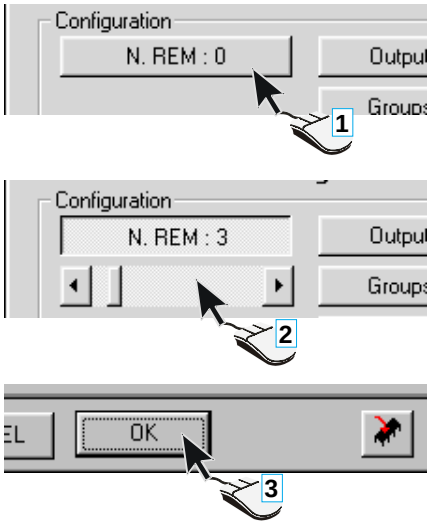
Caution! This operation should be performed before starting any programming and/or configuration operation described in the following pages or in the sections below, otherwise - at every request to update and/or save - the software will flag a COMMUNICATION ERROR.

RBM8 - USER MANUAL - **§ 2.3**

Selecting the **number of REMs** connected

In the dialog RBM8, ***Configuration*** area, set the number of REMs connected by clicking on the button [**No. of TERMINALS**] and by scrolling on the scroll bar



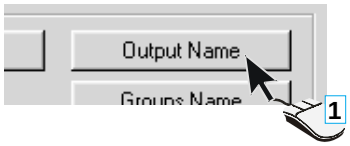


after confirming on [**OK**], the system-representing window will display the related layout

RBM8 - USER MANUAL - **§ 2.4**

Assigning a **name** to the **exits** connected to **RBM8** and **REM**s

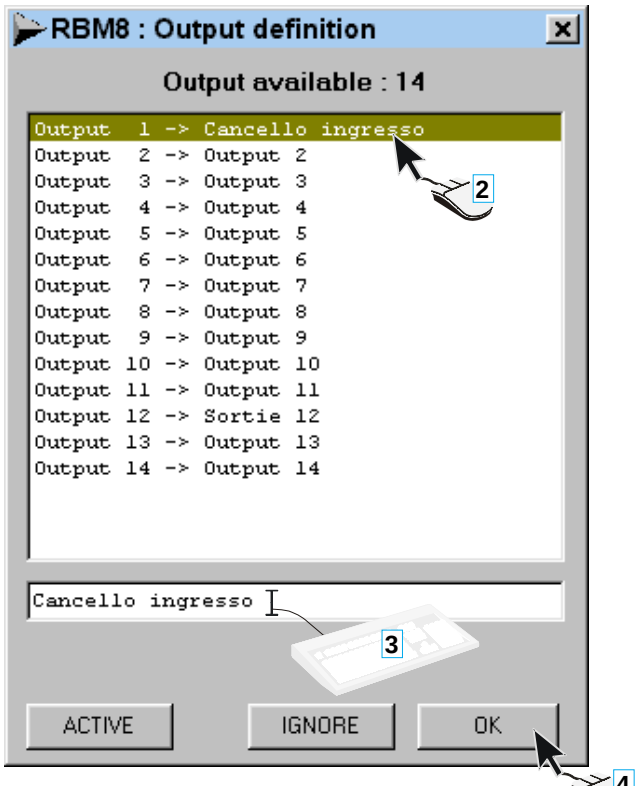
Click on [**EXITS NAME**] ...



... and type, in the window EXITS DEFINITION, the desired name for the exits connected both to RBM8 and to the REMScollegate sia a RBM8 che ai REM

This procedure is optional: as default, the system assigns a name to each exit available in the system (from "*Exit 1*" to "*Exit 72*").

It is recommended, however, that a name be given to all the exits as this makes subsequent configurations easier and safer.



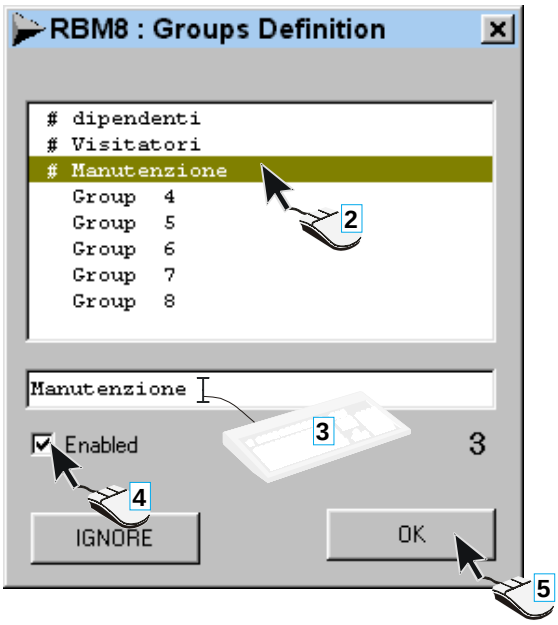
RBM8 - USER MANUAL - **§ 2.5**

Defining user groups

Click on [**GROUPS NAME**] ...

... and in the window GROUPS DEFINITION, type a name at your discretion for each group of users (max 8 groups) while also ticking the box ***Enabled*** to activate it (***N.B. it is compulsory to enable at least one group***)

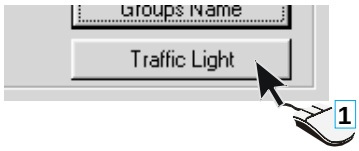
This procedure is optional; the system can manage the groups of users with a default name (*Group 1 ÷ Group 8*) but they must however be activated manually.



RBM8 - USER MANUAL - **§ 2.6**

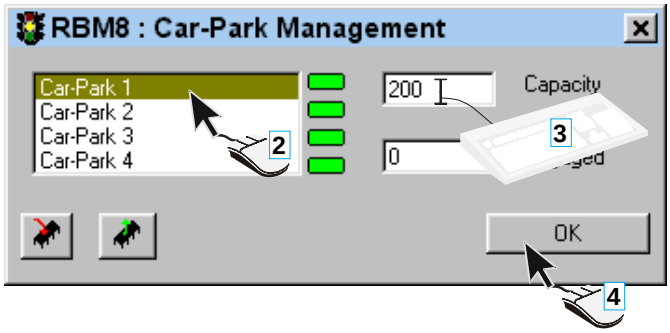
Establishing the **capacity** of sites with **traffic-light control**

Click on [**TRAFFIC LIGHT**] ...



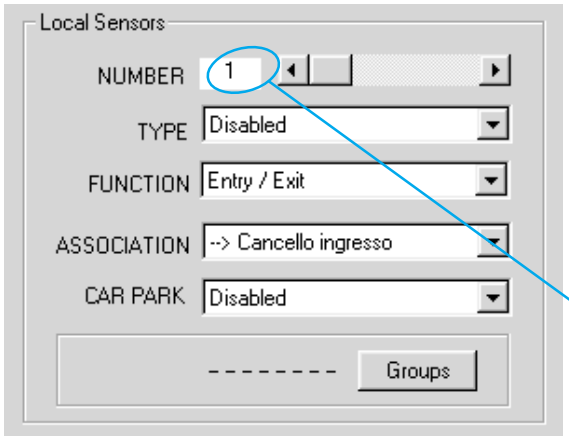
... and in the CAR-PARKS MANAGEMENT window, type in the capacity of each individual site governed by a traffic light.

The maximum management capacity of the entrances/stay-time is 1500 units, to be divided between the connected traffic lights.

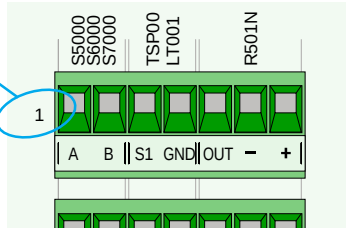


RBM8 - USER MANUAL - **§ 2.7**

Configuring the **control sensors** connected to **RBM8**



In the ***Local sensors*** area of dialog RBM8, you must configure the type, function and associations of each control device connected to RBM8.
The sensor number corresponds exactly to the sensor connected to the terminal board marked with the same number, see figure

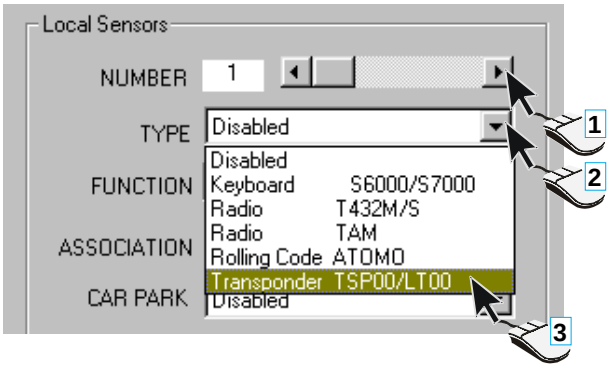


RBM8 - USER MANUAL - **§ 2.8**

Sensor Type

In the pull-down menu ***Type***, select the Sensor Type connected to:
- keypad S5000/S6000/S7000
- TOP, TAM or ATOMO-series radio commands
- TSP00/LT001 transponder

and confirm with [**OK**]

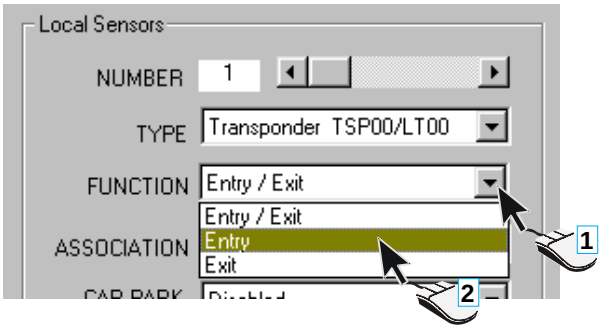


RBM8 - USER MANUAL - **§ 2.9**

Sensor function

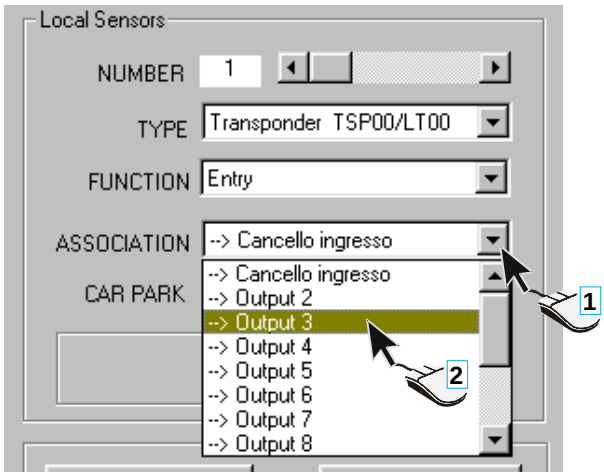
In the ***function*** pull-down menu, select the function of the sensor connected to:
- entry and exit
- entry only
- exit only

and confirm with [**OK**]



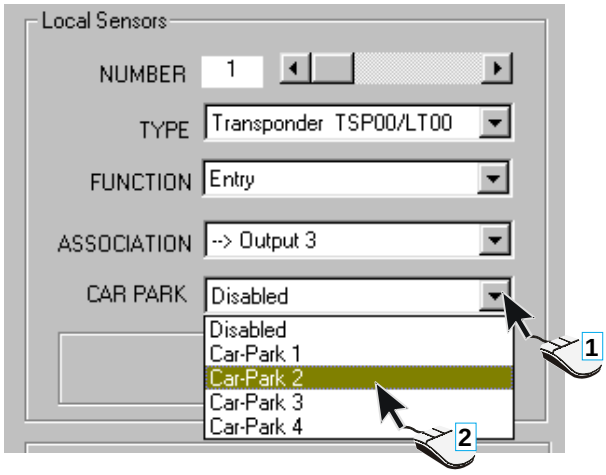
Associating the **sensor** to a connected **exit**

In the ***Association*** pull-down menu, select the match of the device to one of the connected exits and confirm with [**OK**]



Associating the **sensor** to a **traffic-light control**

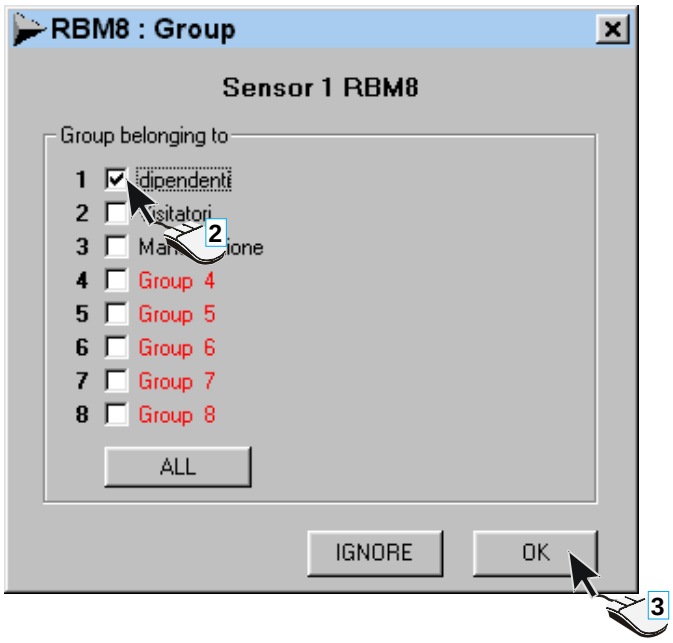
In the ***Car-park*** pull-down menu, select the match to an exit matched to the traffic-light control and confirm with [**OK**]



Associating the sensor to a group of users

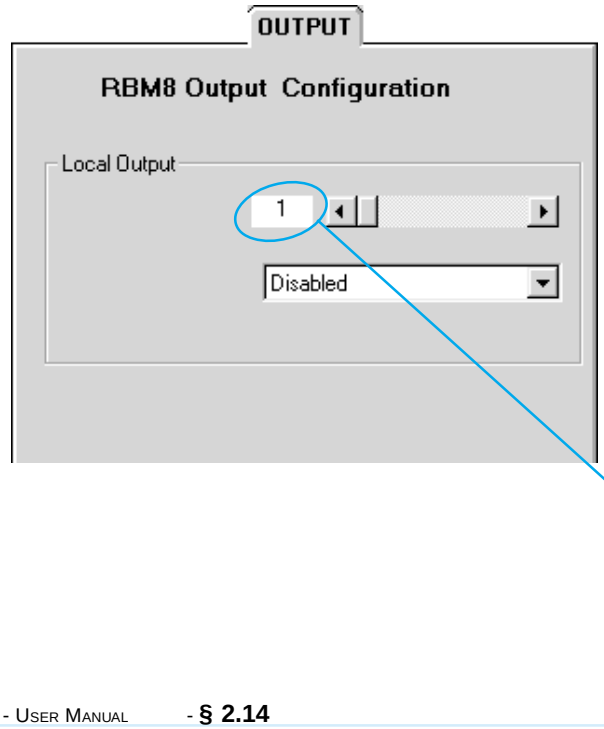
Click on the button [**GROUPS**] ...

... and in the GROUPS window, tick the group of users to associate the device with; then confirm with [**OK**]



This procedure is optional; the [**ALL**] button associates or disassociates all the groups of users to the device.
The groups in red are not enabled; to enable them, see Defining user groups {§ 2.5 | p 5}

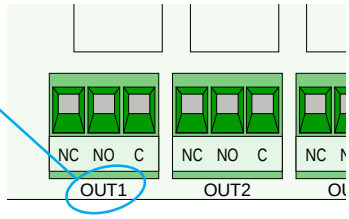
Configuring the exits connected to RBM8



In the EXITS dialog, the exits must be programmed connected to RBM8 with the type of function along with any activation interval of the related relays;

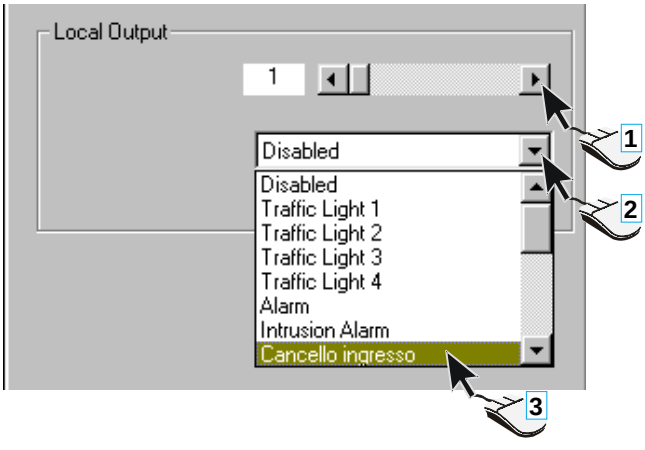
If there are no automations connected, select or leave "**Disabled**" as suggested by the menu.

The number of exit, corresponds exactly to the device connected to the terminal board, labelled with the same number, see figure



Activating the RBM8 exits

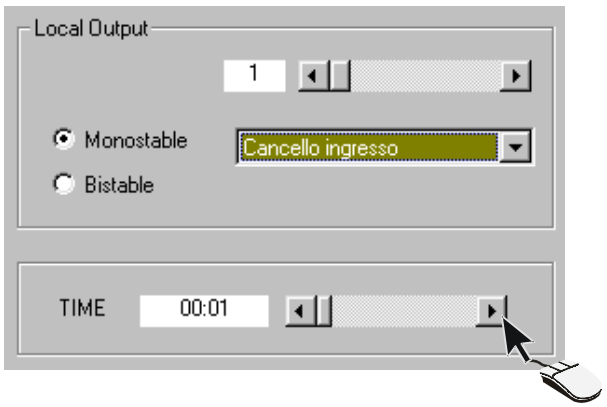
Select the exit (1÷8) and match it with one of the names/devices that appear in the pull-down menu.



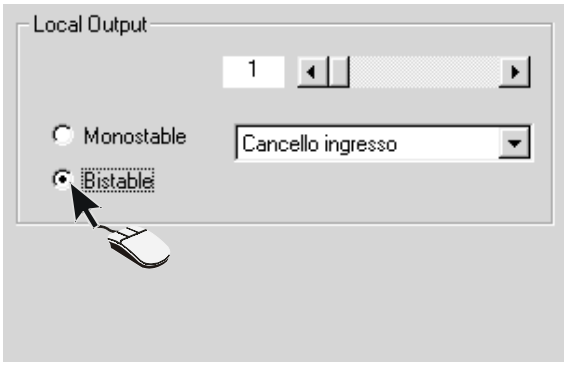
In the pull-down menu of the ***Local exits***area, the **four exits per traffic light** appear as default, and the normal exits defined in Assigning a name to the exits {§ 2.4 | p 4} plus an exit called **Alarm** and an exit called **Intrusion alarm**;
The exit/control device match is independent of the physical connection of the latter with RBM8 or REM.

Relay function

By default, the ***monostable*** function is proposed; then we can select the time taken to activate the relays by clicking on the scrollable scale



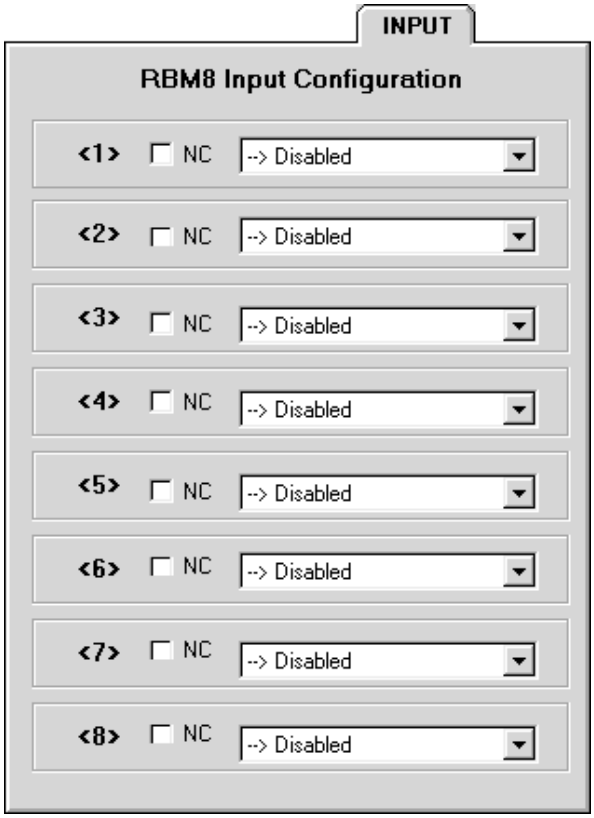
If instead we want the ***bistable*** function, click on the related box



The traffic-light controlled exits are only bistable

UPDATE

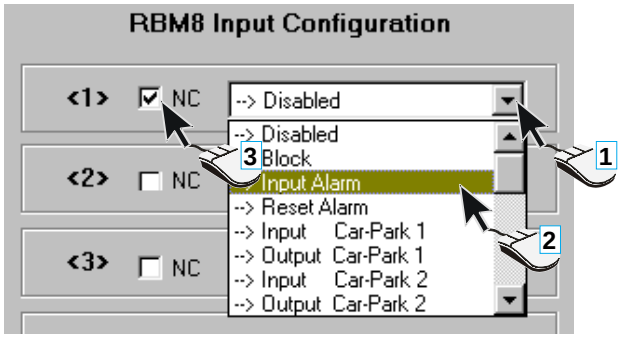
Configuring the digital entrances connected to RBM8



In the configuration dialog of the ENTRY digital entrances, all the supplementary command and control devices (for example safety buttons, sensitive footboards, alarms, etc.) must be programmed which we will connect to RBM8, and which will act on any one of the exits - of both the RBM8 and REMs.

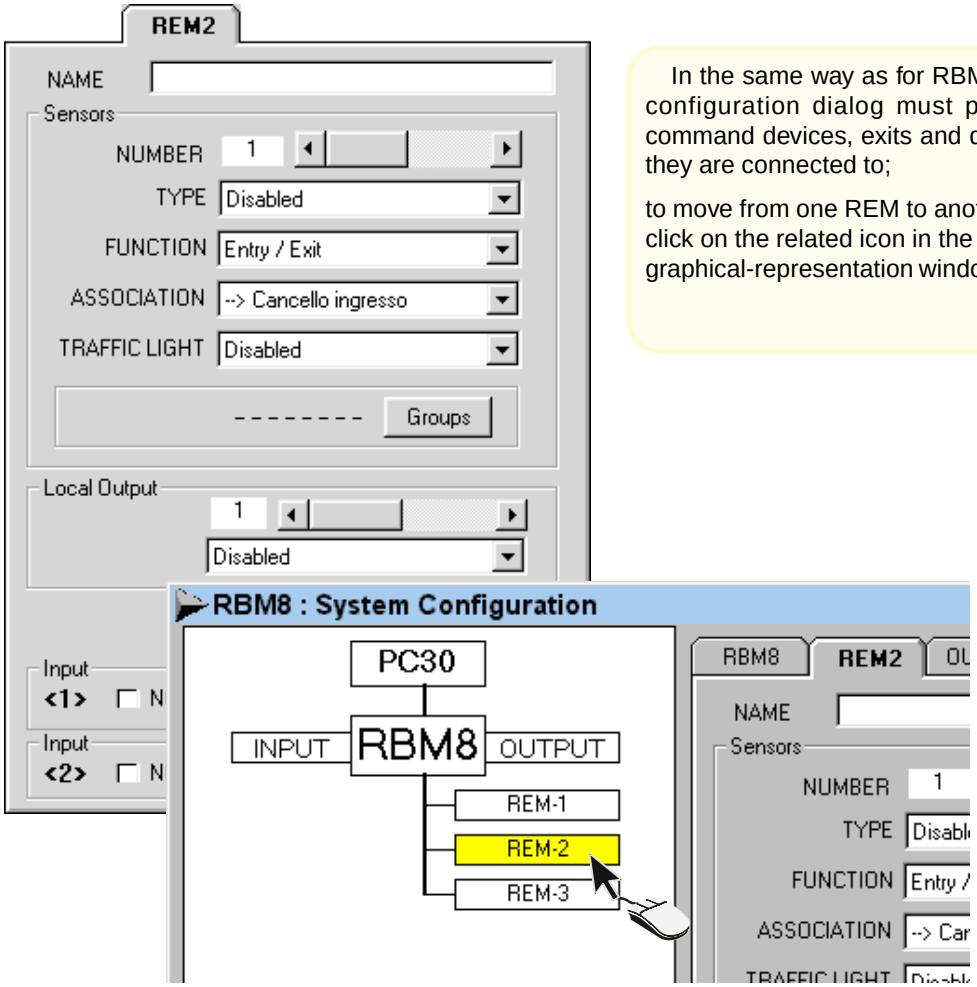
Associating the digital devices to the exits

For each entrance, select an exit/device this digital device is to work on; you must also tick the related box, if the device is the ***NC*** -type (normally closed)



In addition to the normal exits defined in Assigning a name to the exits {§ 2.4 | p 4}, the pull-down menu shows eleven **exits/ function** defined "**Block**", "**Alarm entry**", "**Alarm reset** " and "**Entrance**" + "**Exit**" for each traffic-light control;
The digital entry/exit match is independent of the physical position of the latter on RBM8 or REM.

Configuring the REMs



In the same way as for RBM8, the REMs configuration dialog must program all the command devices, exits and digital entrances they are connected to;

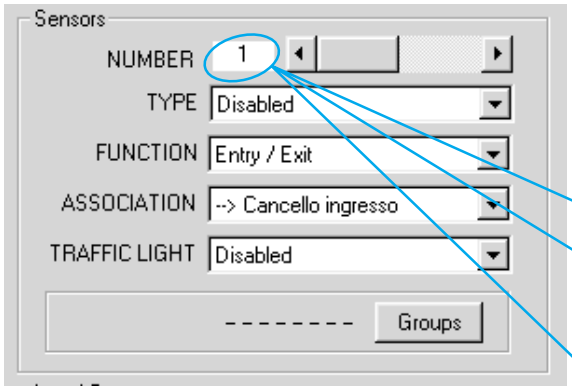
to move from one REM to another, simply click on the related icon in the system's graphical-representation window.

Assigning names to the REMs

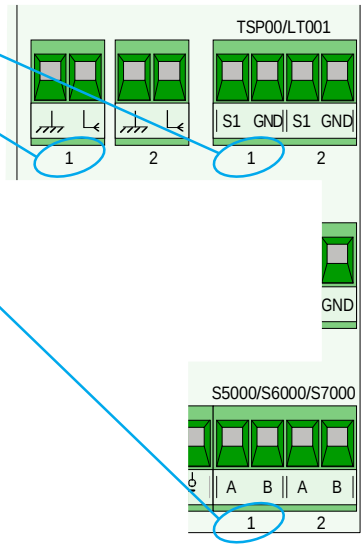
The name keyed in here only has a recognition function, and thus does not interact with the software.

RBM8 - User Manual - § 2.20

Configuring the **control sensors** connected to the **REM**s



In the ***Sensors*** area of the REM*n* dialog, you must configure the type, function and associations of both command devices connected to the REM. The sensor number corresponds exactly with the sensor connected to the terminal board labelled with the same number, see figure



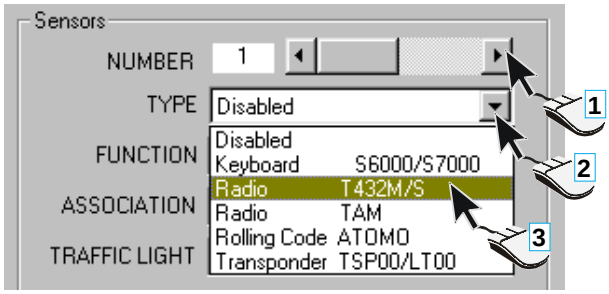
RBM8 - User Manual - § 2.21

Sensor Type (REM)

In the ***Type*** pull-down menu, select the connected sensor type:

- keypad S5000/S6000/S7000
- TOP, TAM or ATOMO-series radio commands
- TSP00/LT001 transponder

and confirm with [**OK**]



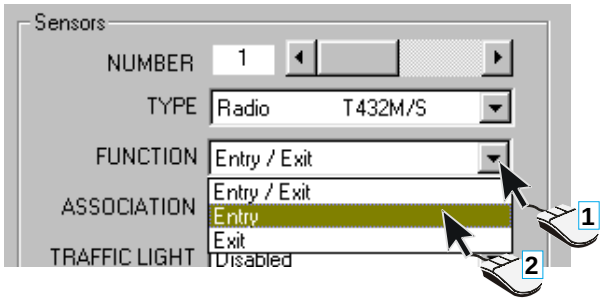
RBM8 - User Manual - § 2.22

Sensor function (REM)

In the ***function*** pull-down menu, select the function of the connected sensor:

- entry and exit
- entry only
- exit only

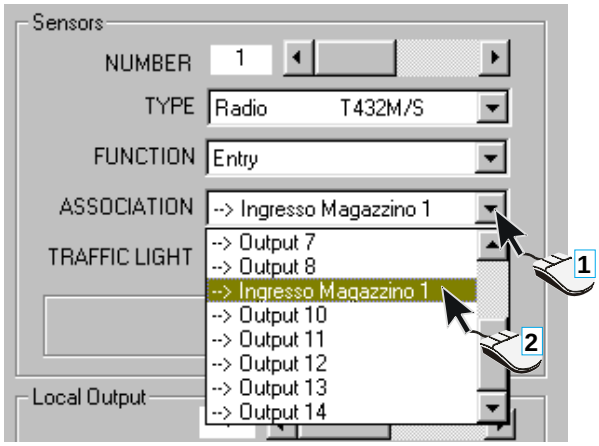
and confirm with [**OK**]



RBM8 - USER MANUAL - § **2.23**

Associating the **sensor** to a connected **exit** (REM)

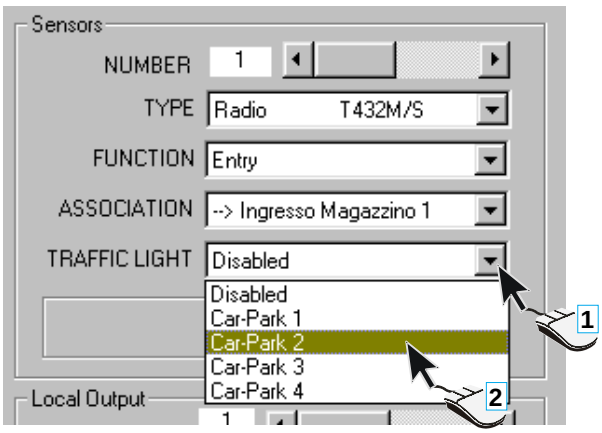
In the ***Association*** pull-down menu, select the match of the device to one of the exits connected and confirm with [**OK**]



RBM8 - USER MANUAL - **§ 2.24**

Associating the **sensor** to a **traffic-light control** (REM)

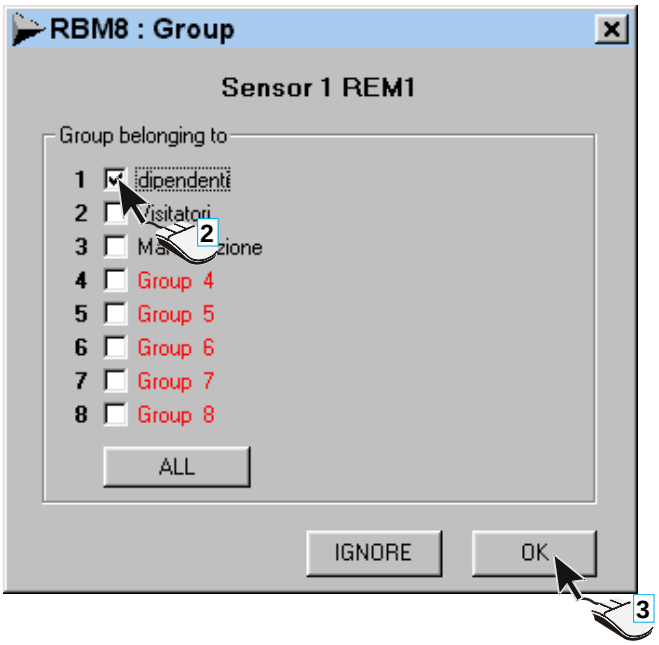
In the ***Car-park*** pull-down menu, select the match to an exit matched to the traffic-light control and confirm with [**OK**]



Associating the sensor to a group of users (REM)

Click on the button [**GROUPS**] ...

... and, in the window GROUPS, tick the group of users to associate the device with; then confirm with [**OK**]



This procedure is optional; the [**ALL**] button associates or disassociates all the groups of users to the device.
The groups in red are not enabled; to enable them, see Defining user groups {§ 2.5 | p 5}

UPDATE

RBM8 - USER MANUAL - § **2.26**

Configuring the **exits** of the **REM**s

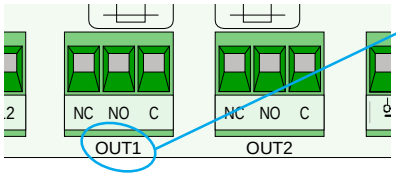
In the ***Local exits*** area of the REM*n* dialog, the type of function and any interval relays activation interval must be programmed for both the exits;

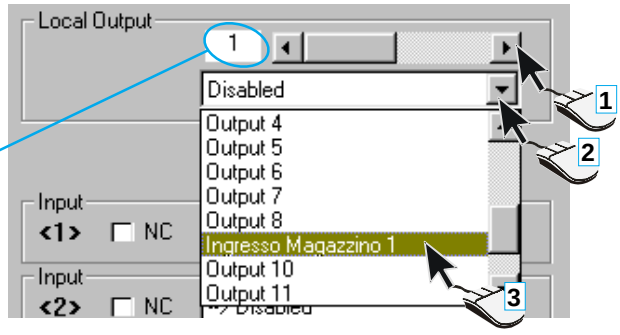
If there are no automations connected, select or leave "**Disabled**" as suggested by the menu.

RBM8 - USER MANUAL - § **2.27**

Activating the **exits** of the **REM**s

Select the exit and match it with one of the names/devices that appear in the pull-down menu





In the pull-down menu of the ***Local exits***area appear the **four exits per traffic light** as default and the normal exits defined in Assigning a name to the exits {§ 2.4 | p 4} plus an exit called **Alarm** and an exit called **Intrusion alarm**;
The exit/control device match is independent of the physical connection of the latter with RBM8 or REM. The exit number corresponds exactly to the device connected to the terminal board labelled with the same number, see figure

Relay function (REM)

By default the ***monostable*** function is proposed; then we can select the time taken to activate the relays by clicking on the scrollable scale

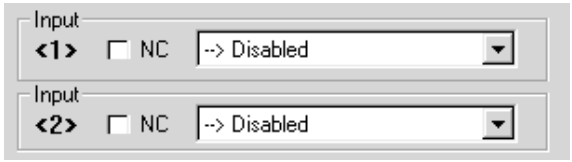
If instead we want the ***bistable*** function, click on the related box

The traffic-light controlled exits are only bistable-type

UPDATE

RBM8 - USER MANUAL - **§ 2.29**

Configuring the **digital entrances** of the **REM**s

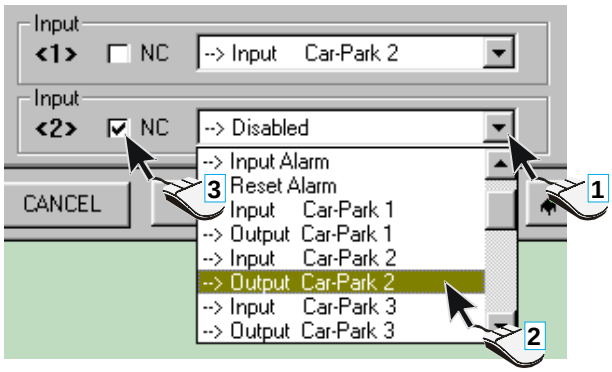


In the ***entrances*** area of the REM*n* dialog, we must program the supplementary command and control devices (for example safety buttons, sensitive footboards, alarms, etc.) which we will connect to the REM, and which will work on any one of the exits - both RBM8 and REMs.

RBM8 - USER MANUAL - **§ 2.30**

Assigning the **digital devices** to an **exit** (REM)

For each entrance, select an exit/device this supplementary digital device will work on; you must also tick the related box, if the device is the ***NC*** -type (normally closed)



In addition to the normal exits defined in Assigning a name to the exits {§ 2.4 | p 4}, the pull-down menu shows eleven **exits/function** defined "**Blocks**", "**Alarm entry**", "**Alarm reset**" and "**Entrance**" + "**Exit**" for each traffic-light control;
The digital entry/exit match is independent of the physical position of the latter on RBM8 or REMs;

C H A P T E R 3

RBM8 - software

TIMINGS CONFIGURATION

INDEX

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Configuration dialog of the **costs** 3

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Discount levels 4

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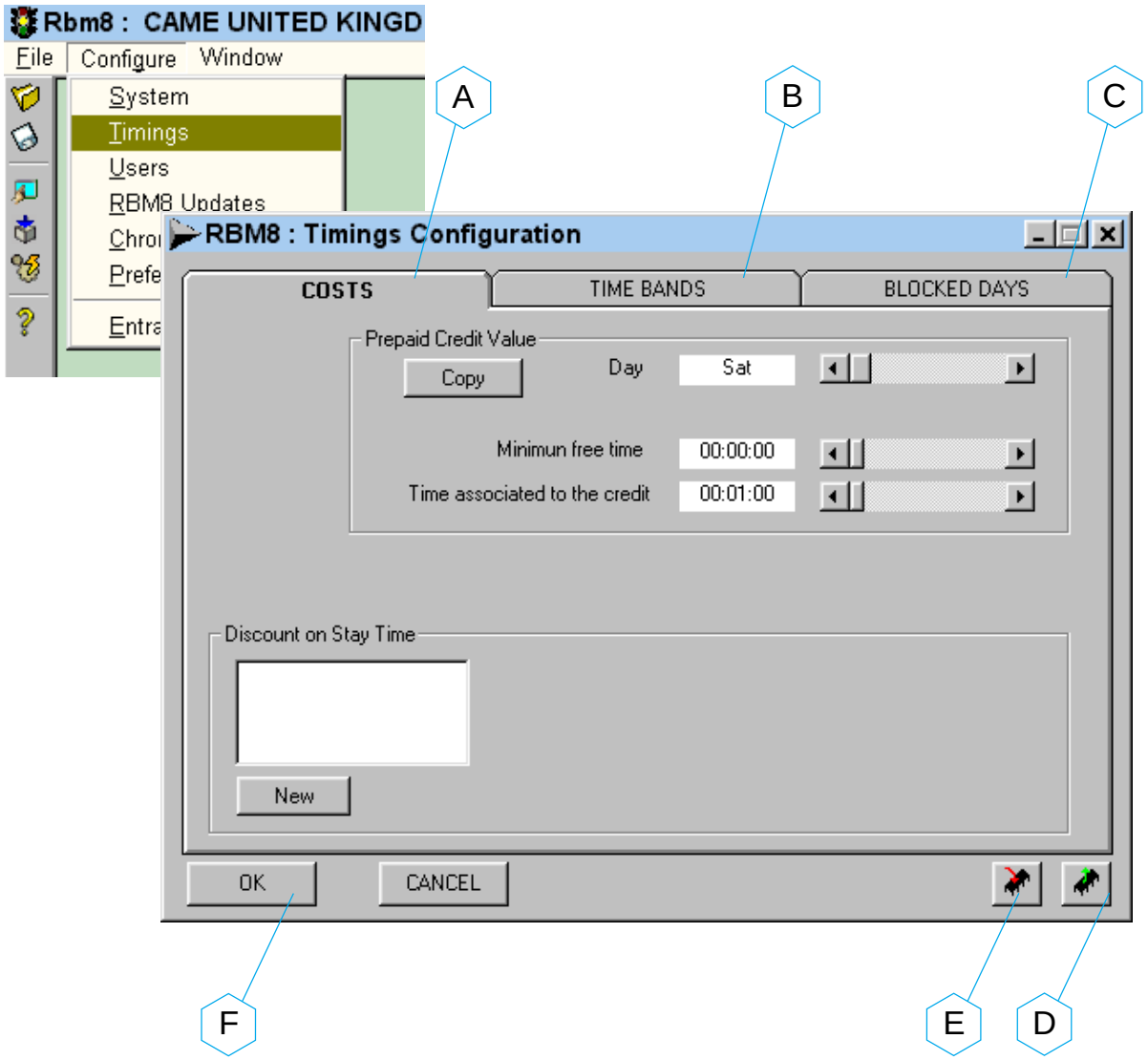
Configuration dialog of the **Blocked Days** 6

Configuring the **Planned openings** 7

Configuration window of the **timings**



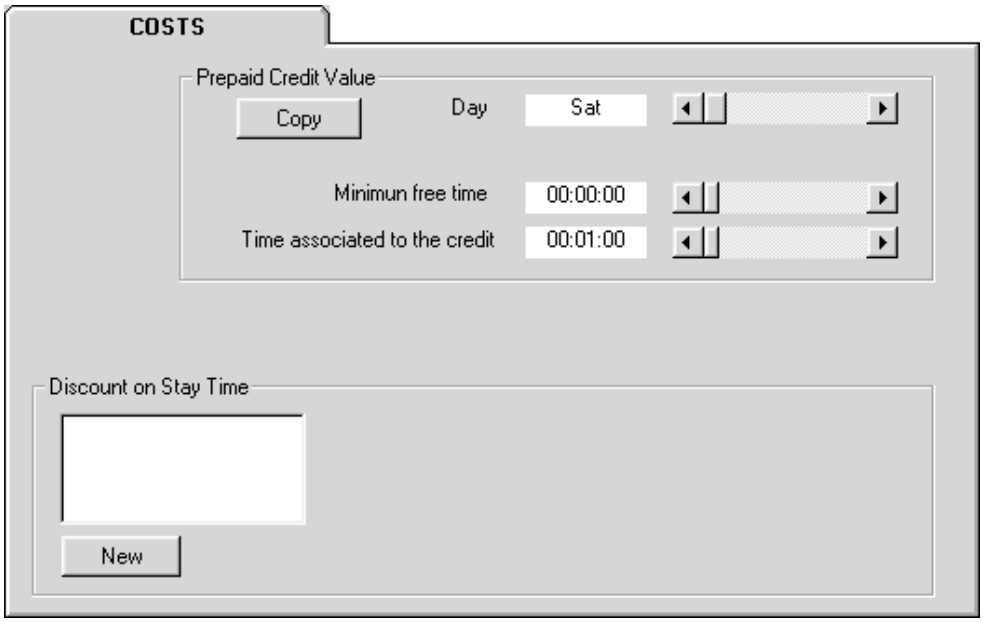
A - Configuration dialog of costs, credits and discounts
B - Configuration dialog of the time bands
C - Configuration dialog of blocked days and planned openings
D - Button for reading the current memory of the RBM8
E - Button for writing the current programming on RBM8
F - Button for cancelling for adding/changing data (valid as cancellation during programming on the hard disk; does not affect the current memory of RBM8)

RBM8 - USER MANUAL - **§ 3.2**

Configuration dialog of the **costs**

In the COSTS dialog the time may be set relating to single credits and a minimum free time, for all days of the week; it is also possible to define 4 discount levels.

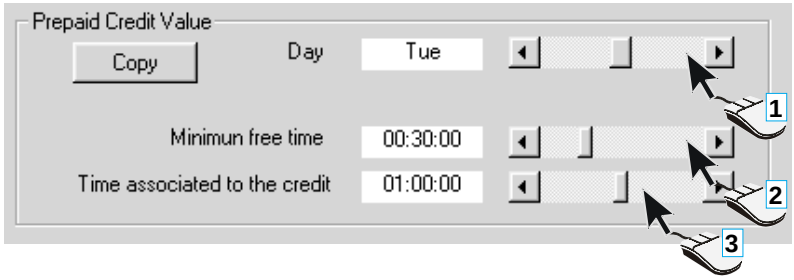
Notes *The **credits** represent only one unit of measurement, which becomes the multiplier of each type of currency (Euro, Pound sterling, US Dollar etc.) to calculated the related value.*



RBM8 - USER MANUAL - **§ 3.3**

Values for the **Prepaid**

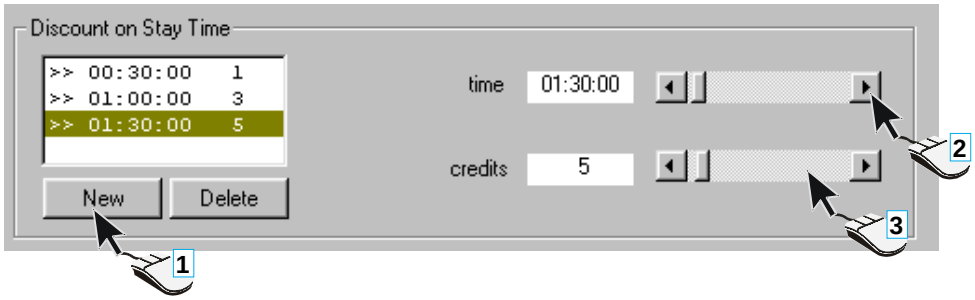
use the scroll bars to select the ***Day*** and the ***Time associated to the Credit*** (max 2 hours) and the ***Minimum free time*** (max 2 hours);
the [**COPY**] button copies the settings for all days of the week;



The ***Minimum free time*** is optional;
the default value of the ***Time associated to the Credit*** is 1 minute.

Discount levels

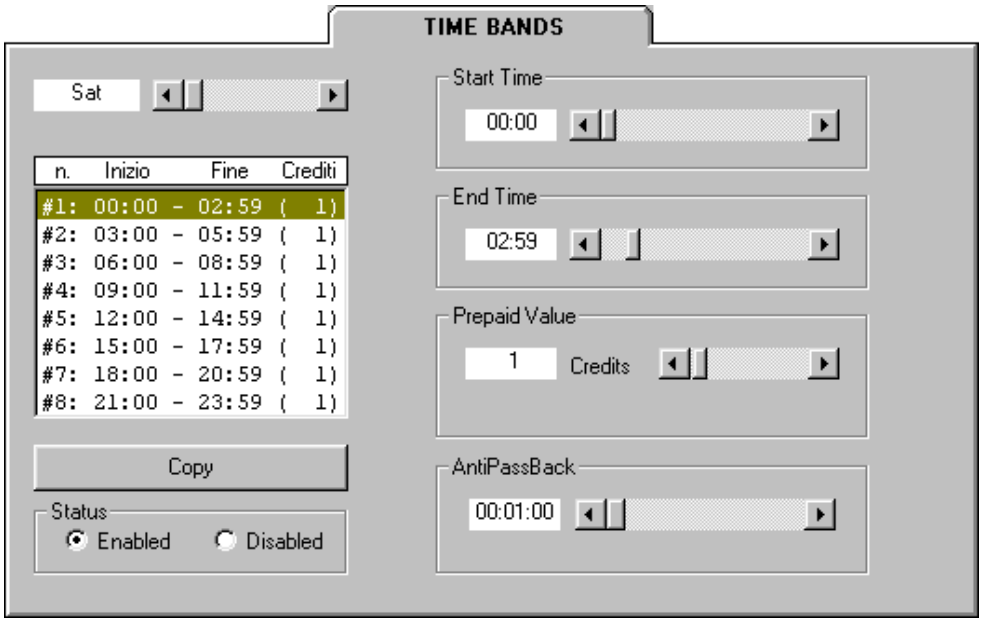
set up to 4 discount levels, prices according to time and credits.



This illustration shows 3 discount levels set; the user, after the first half hour has the right to 1 discount credit, after 1 hour, to 3 credits and after an hour and a half, to 5 discount credits.

At any time the discounts may be disables by using the [**ELIMINATE**] button.

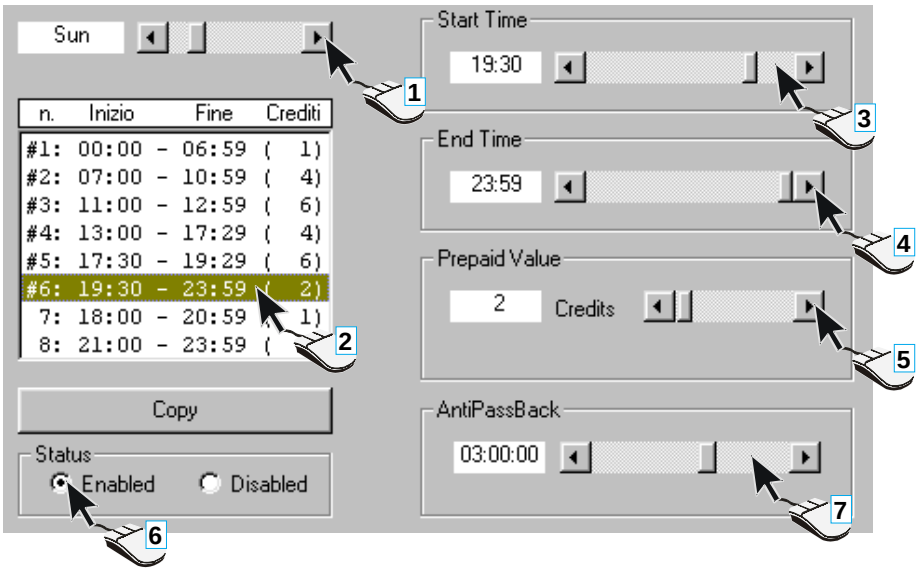
Configuration dialog of the **Time bands**



In the dialog TIME BANDS up to 8 time bands can be set for every day of the week along with related prepaid values; the AntipassBack time is valid for the total day.

Notes *The default settings are: number of bands = 8; time band length = 3 hours; prepaid value = 1 credit; AntipassBack time = 1 minute*

use the scroll bars to select the day and time band, and set the start and end time (***being sure not to overlap the bands***), define the credits per band and then enable it; Lastly, set the AntipassBack time (valid for the whole day);
the [**COPY**] button copies the settings for all days of the week;
Notes *The extra bands are to be neutralised by choosing* ***blocked***



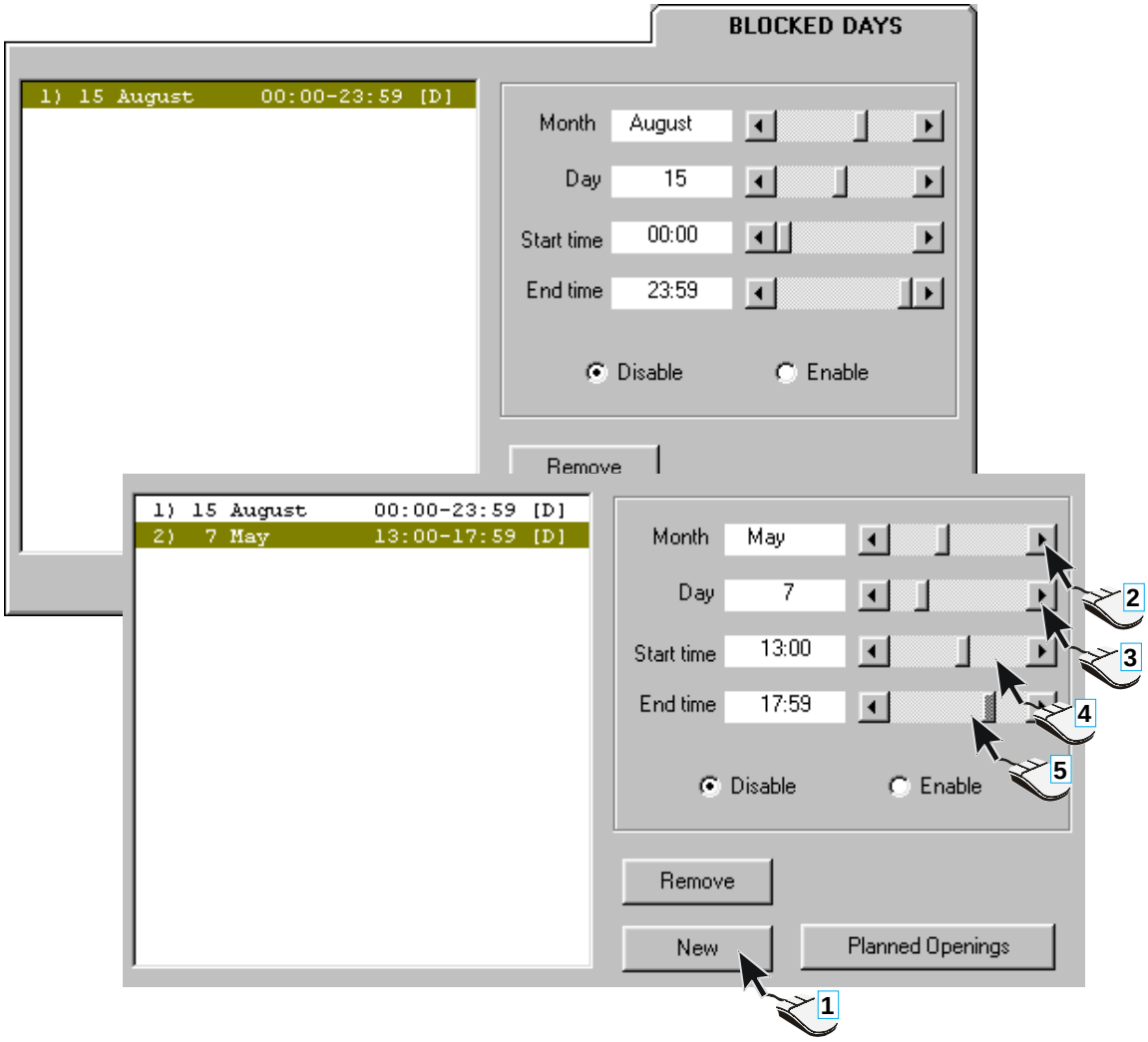
Configuration dialog of the **Blocked Days**

In the BLOCKED DAYS dialog the blocked or closed days can be set (max 60 days), also for part of the day, for any day on the year's calendar.

It is also possible to define two periods of planned opening for every day of the week.

At any moment the Blocked Days can be cancelled with the [**ELIMINATE**] button or temporarily cleared by selecting ***Clear***: this last option allows unrestricted access and without Credit debiting to the users, irrespective of any access configuration planned in Users Configuration>Access {c 4 | § 4.5 | p 9}

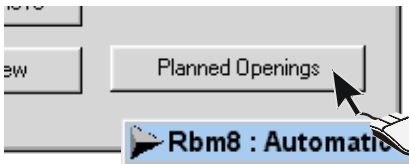
Notes *As default, the Blocked Days, for 24 hours, are Christmas Day and Italy's August Bank Holiday.*



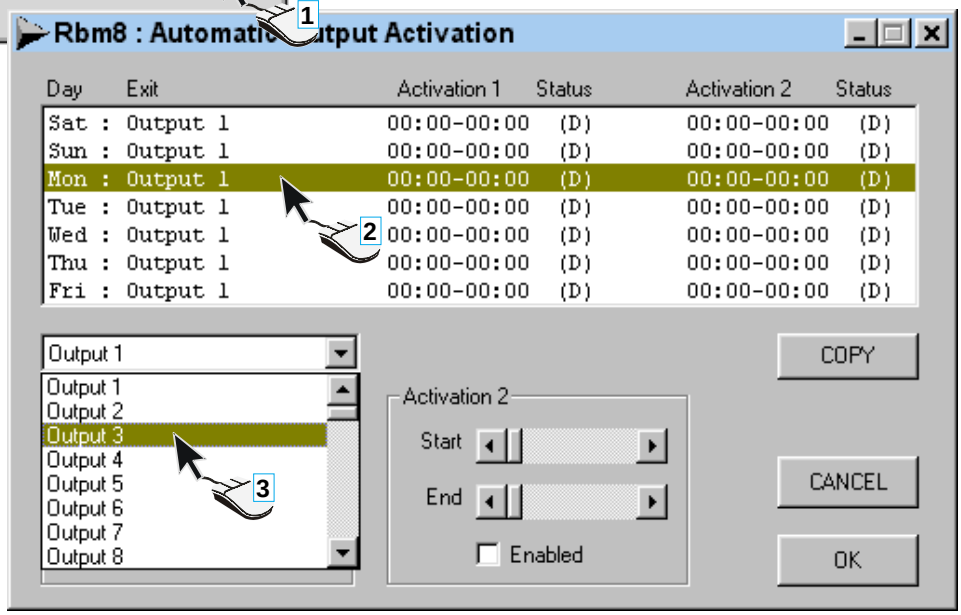
To insert another blocked day, click on the [**NEW**] button (by default, today's date appears) and use the scroll bars to select the month, day and, if desired, also set the time to start and end the block.

Configuring the **Planned openings**

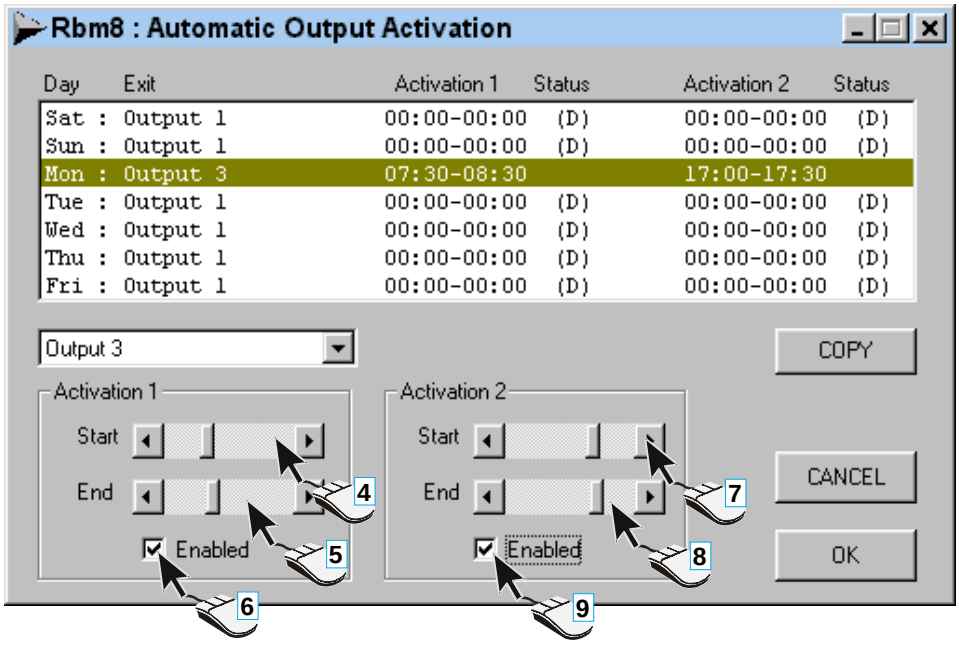
The planned openings - for example in a production unit where most entrances and exits of employees are concentrated into two periods - allows you to activate an exit for one or two time intervals during the day. After these intervals have elapsed the system resumes its normal functions as programmed.

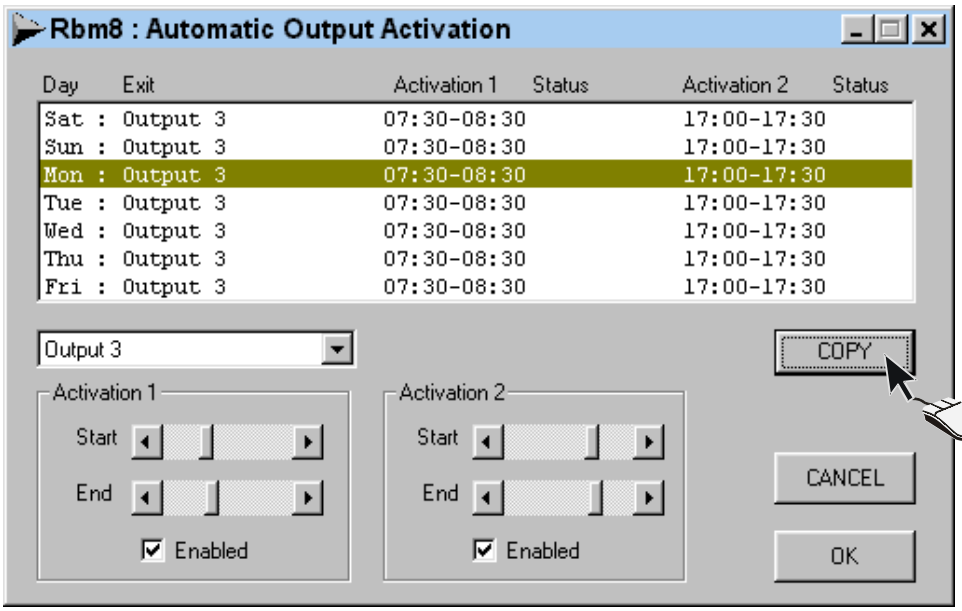


Using the button [**PLANNED OPENINGS**] of the BLOCKED DAYS dialog, you open the AUTOMATIC EXITS ACTIVATION window, where you can select the day and exit to which you can assign one or two periods of planned opening ...



... then activate the planned opening for the period/s desired with the scroll bars and by ticking the outlets as ***enabled*** ...





... if this planned opening is repeated for all days of the week, simply click the button [**COPY**], otherwise program the openings for each individual day.

The Copy button copies the latest programming made for all days, irrespective of the day it is made; to exclude certain days (for example Saturdays and Sundays), disable it in the appropriate box, or zero the opening start and end times. In the same way, at all times, you can temporarily suspend the planned opening (by disabling it), or cancel it always (by zeroing it).

C H A P T E R 4

RBM8 - software

USERS CONFIGURATION

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General **notes**

During the Users configuration operations we recommend frequently saving the selections made: this will speed up all the programming (thus avoiding frequent checks and reprogramming) and make programming itself safer.

To this end, use is made of

the [**UPDATE**] button

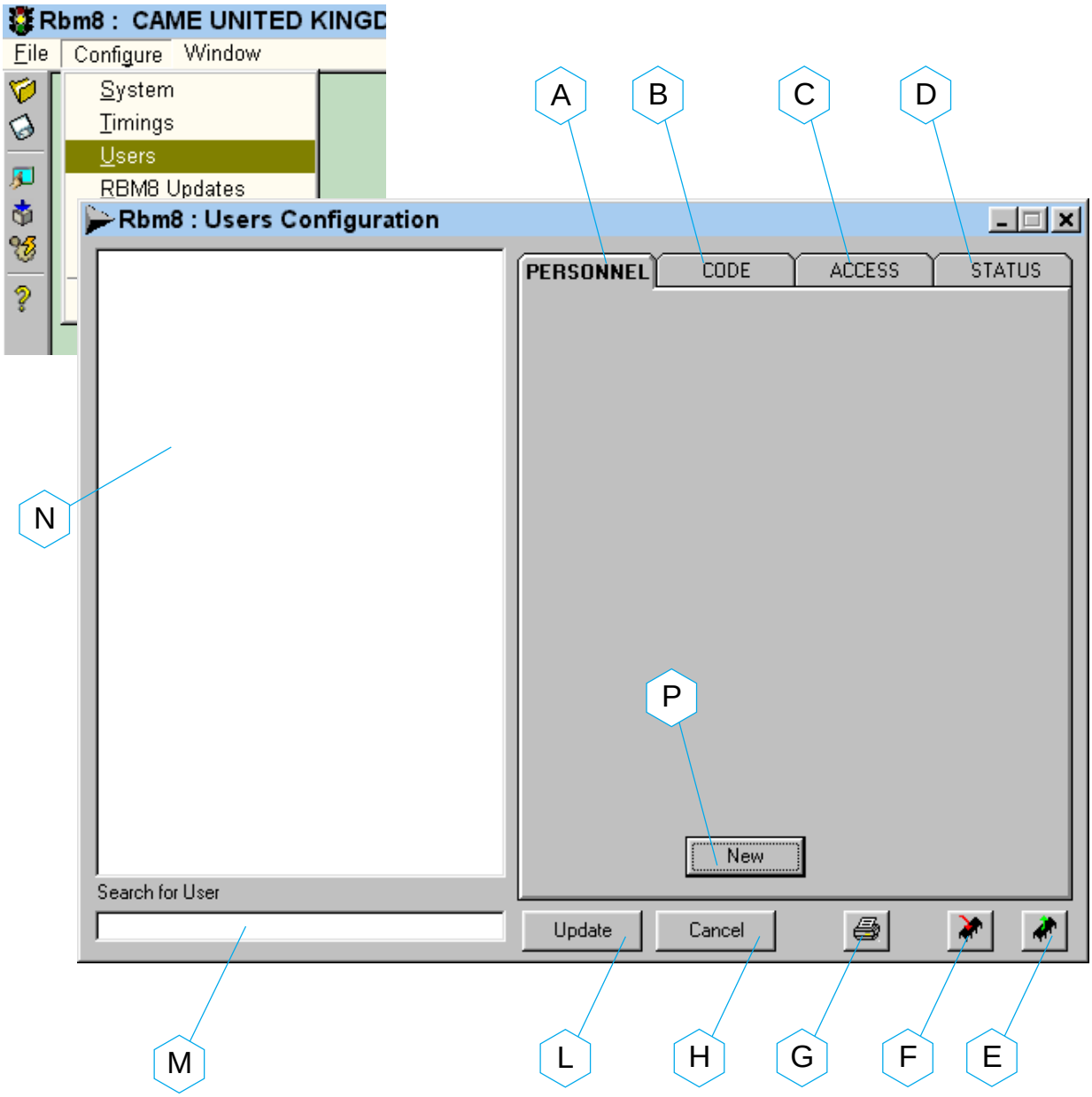

the [**SAVE USERS**]BUTTON


and the graphic button [**WRITE USER IN RBM8**]

which must be pressed in succession in the order described.
In the following pages, we will indicate the critical moments for saving with the following graphics:

During the operations of Users configuration, is also it worth keeping the Entrances display off so as to avoid problems of communication with RBM8.

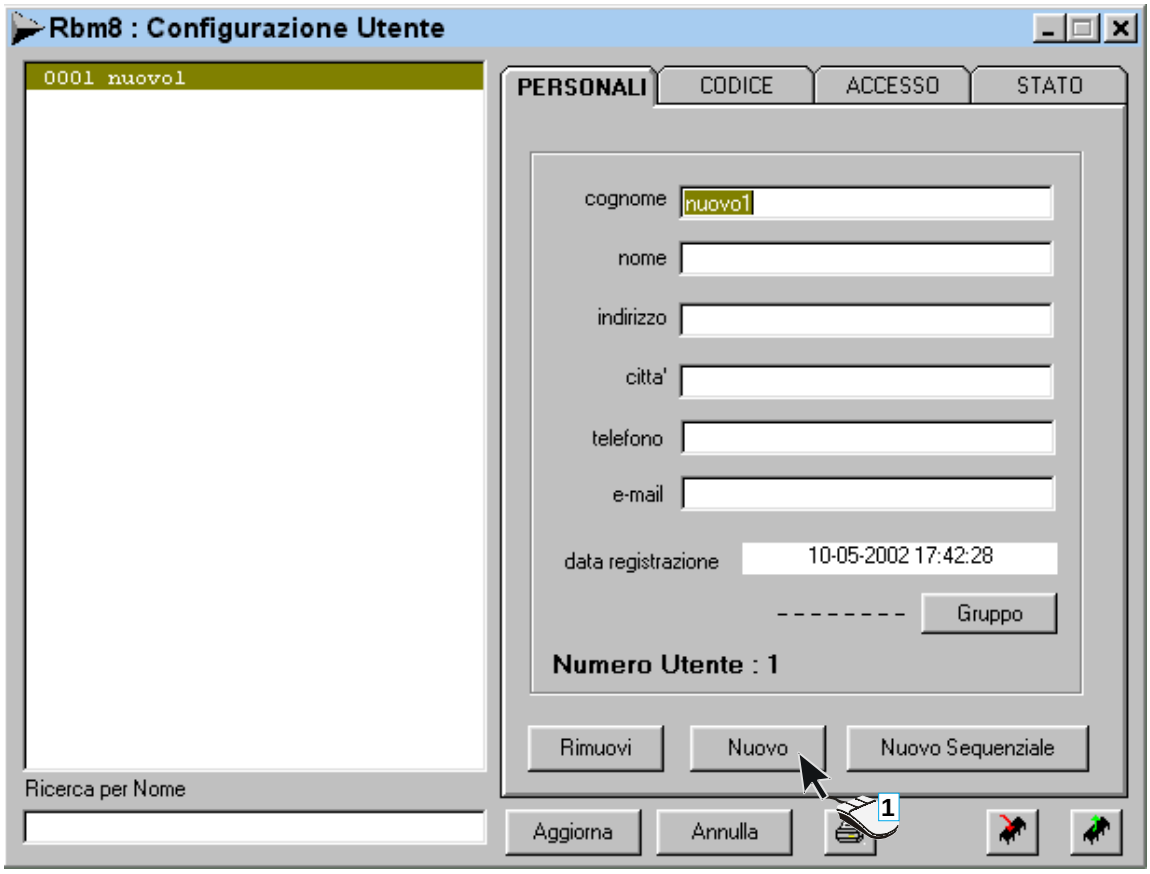
Configuration window of the users



A - Record sheet of the users' personal data
B - Saving dialog of the user codes
C - Configuration dialog of the access procedures for each user (times, costs, limitations, etc.)
D - Dialog of the current situation for each user
E - Button for reading the programming saved on RBM8
F - Button for saving the programming on RBM8
G - Button for printing the users list and the historic data registered according to system or user
H - Cancellation button for adding/changing data (same as 'cancel' during programming on the hard disk; does not touch the memory of RBM8)
L - Update button for adding/changing data (same as 'update' during programming on the hard disk; does not touch the memory of RBM8)
M - Window for searching for users by Name
N - Display window of users list
P - Button for accessing the users configuration procedures (the 4 sheets are empty if there is not at least one registered user

Register a **new user**

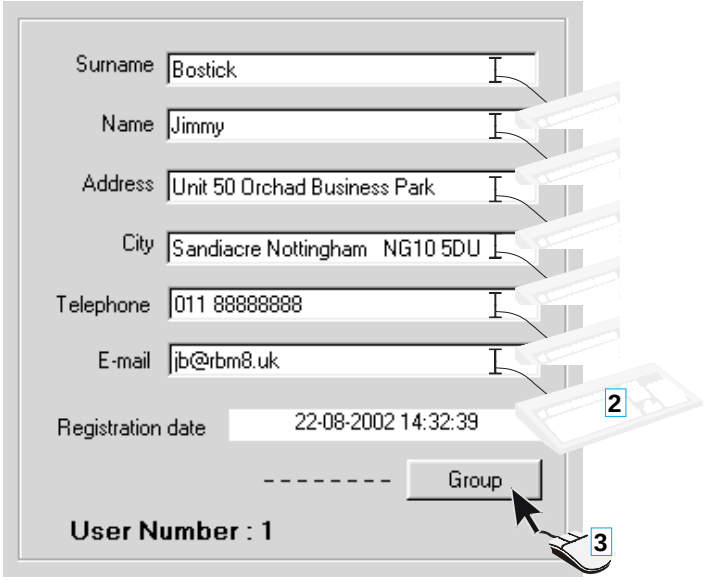
In the PERSONALISED dialog, the users' personal data may be registered such as name, addresses and group they belong to.
The [**NEW SEQUENCE**] button is used to generate a number "x" of users with the same type of code (or command device: Keyboard, Radio-control or Card) see {§ 4.10 | p 15}



Click on [**NEW**] and the fields will appear for adding the personal data ...

... key in the desired data ...

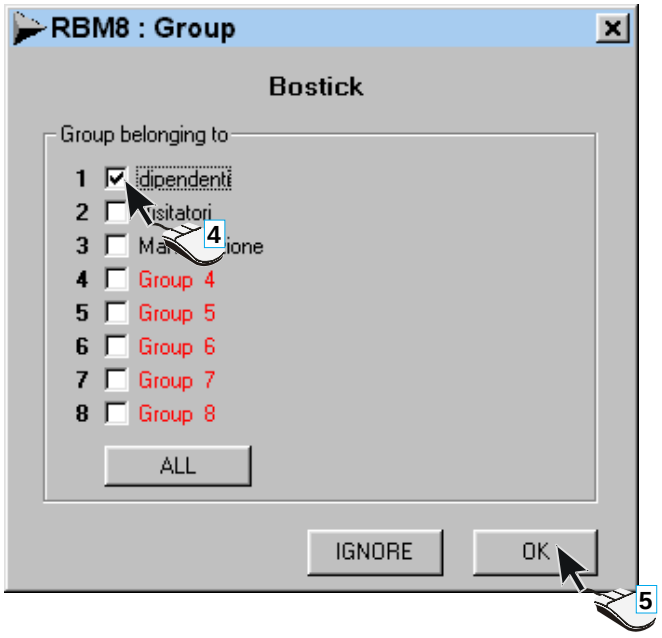
registration date appears automatically, whereas all the other data are optional



... click on the [**GROUP**] button ...

... tick the group you want to associate the user to; then, finally, click on [**OK**]

The [**ALL**] button associates or disassociates the user to/from all the groups.
The default selection is of “not belonging”.
The entrance/user group association

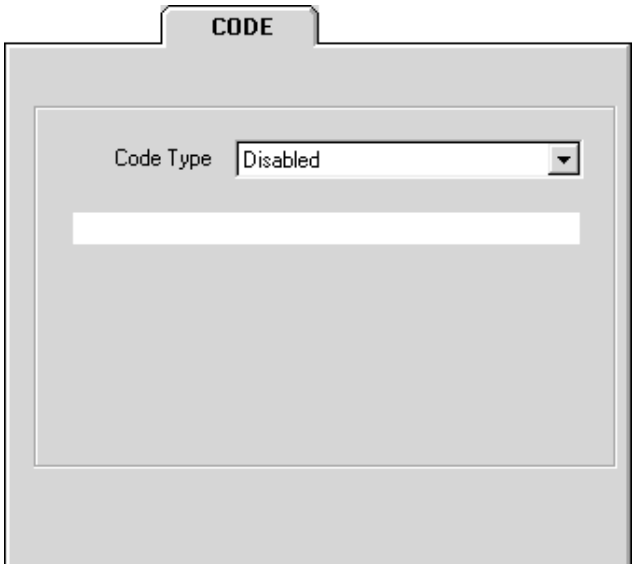


UPDATE

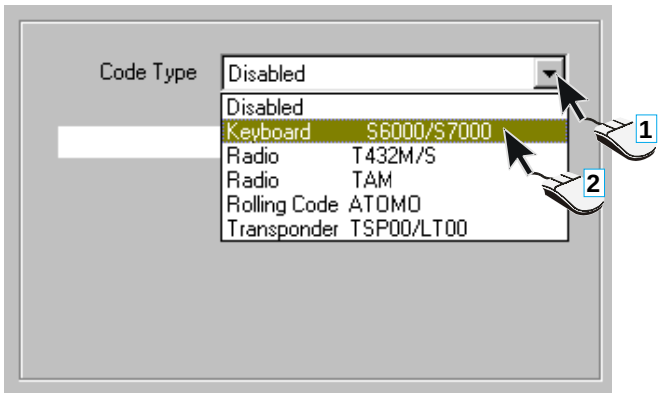
Allocation of the users to at least one Users Group is compulsory.
Becomes however indispensable in the systems in which there are several entrances destined to different user categories. The typical case is that of a company with entrances devoted to offices, the production units, suppliers etc, and where some users (for example the surveillance or maintenance personnel) must be able to access all of these entrances.

Saving the user **code**

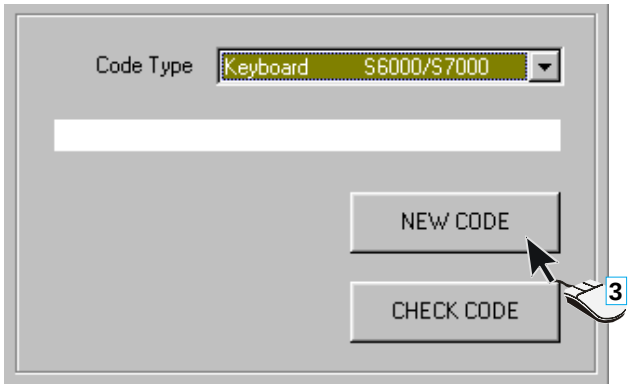
In the dialog CODE you must save the user code with the PC30 (or also directly by the software for the keyboards).
The [**CHECK CODE**] button is used to test whether there is a code saved, or for reading the code of a given device.



In the ***Code type*** pull-down menu, select the command device you want to save the code of, ...



... click on the button [**NEW CODE**] ...



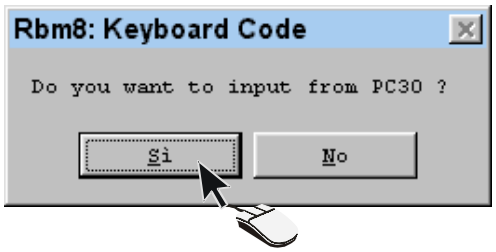
... and then, within 10 seconds

A- for the TOP, TAM and Atomo radio-controls, click the button to save by sending the signal to the dedicated zone on the front panel of PC30 or

B- for TSP00, bring the Card to save to the dedicated zone on the front panel of PC30 or

C- for LT001, swipe the Card to save through the dedicated slit on the front panel of PC30.

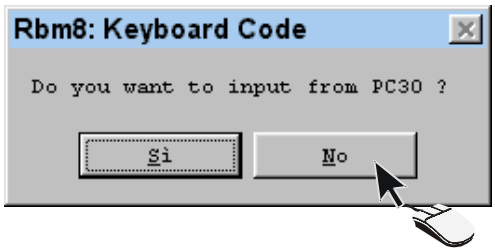
For the S5000, S6000 and S7000 keyboards instead, we are asked if we want to use PC30 to save the code; if not, saving should be made through the software (see next page)



... by pressing [**YES**], ...

D- key in the number code in the dedicated keypad on the front panel of PC30;

The operations for saving the code described above (A - signal sending, B- bringing the Card closer, C - swiping the Card or D - keying in the code) must take place before the graduated bar seen in the lower part of the main window scrolls completely (10")



by pressing [**NO**] ...

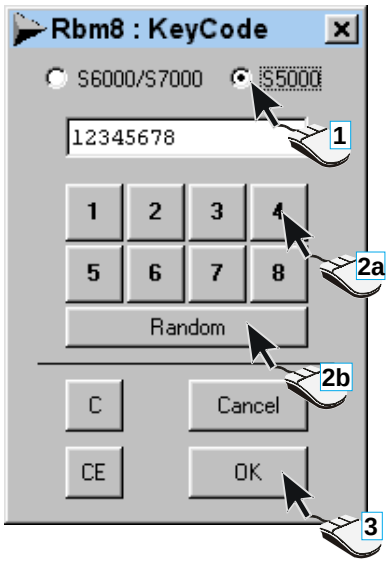
... the KEYCODE dialog opens, which allows for an advanced management of the number code.

First tick the box relating to the keypad model to code (change the code's numbers) ...

... then dial the number code by clicking on the numbered buttons ...

... or give the software the task of generating a random code by clicking on [**RANDOM**] ...

... and confirm with [**OK**]

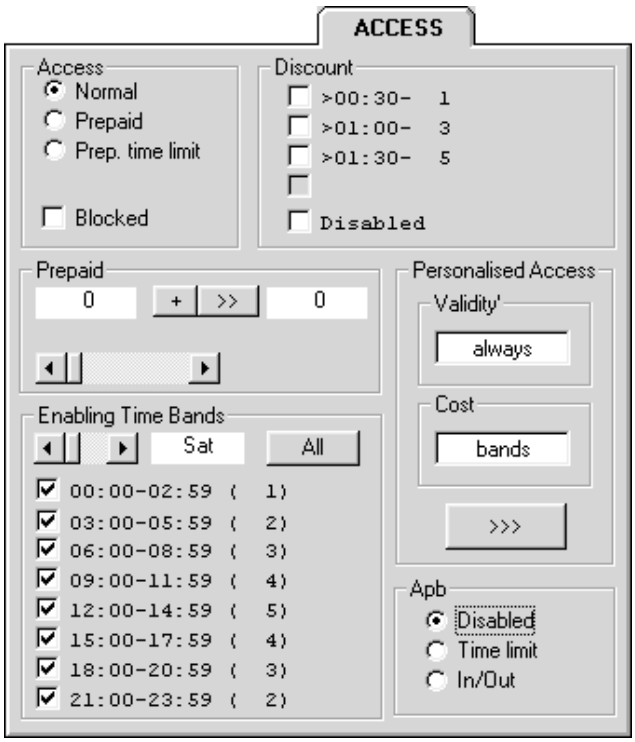


By using the KEYCODE dialog for generating/saving a keypad code this guarantees - if other users are present - that there are no codes with the same number; once generated or dialled, the code can be cancelled and changed - either wholly or partly - with the buttons [**C**] or [**CE**].

Configuring single-user access

In the ACCESS dialog, it is possible to program, for each user, different access procedures with or without costs; in particular:
- access type
- discount
- prepaid amount
- validity and access cost
- time-band access
- type of AntipassBack

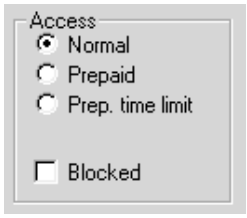
By default, the settings are: access ***type*** = NORMAL; ***Discount*** = NONE; ***Prepaid*** = ZERO; ***Timebands enabling*** = ALL; ***Validity*** of access = ALWAYS; ***Access*** cost = PREDEFINED of the system (see Timings Configuration>Time Bands {c 3 | § 3.5 | p 5}); AntipassBack ***Apb*** = DISABLED.

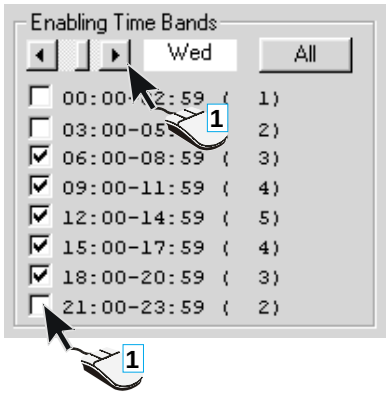


The default settings, in particular the NORMAL access type, are basically the settings predefined for accesses into systems other than the charged car-parks, where it is not necessary to evaluate the access costs while all the remaining management functions (surveillance, accesses time limit, chronologies print, etc.)are instead requested.

Normal access procedure

Leaving the default access at NORMAL, the ***Discount*** and ***Prepaid*** areas are not considered, whereas the definition of an access validity period is optional (in ***Personalised access*** see {§ 4.9 | p 14}), determine the access bands in ***Timebands enabling*** , select the type of AntipassBack in ***Apb***.



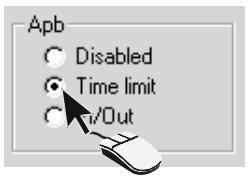


Select the desired access bands, and defined in {c 3 | § 3.5 | p 5}), all days of the week

The button [ALL] enables or disables all the bands

If the time band appears red, it means that it has been blocked (for all the users) in Timings>Time bands {c 3 | § 3.5 | p 5}

A disabled band stops access; if the user is already inside, the credit debits will be counted (as set on the following pages) but only for the “PREPAID” and “PREPAID WITH TIME LIMIT” modes.



Select the type of AntipassBack

The AntipassBack is used to stop the fraudulent use of the access devices, for example allowing more than one vehicle to enter or persons with only one Radio-control or Card.

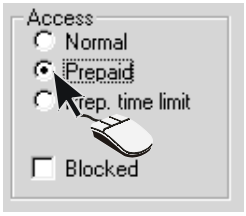
AntipassBack ***Time limit*** means that the user, after passing the entrance, cannot pass back again across the entrance way for all the time of AntipassBack defined in Timings>Time bands {c 3 | § 3.5 | p 5}.

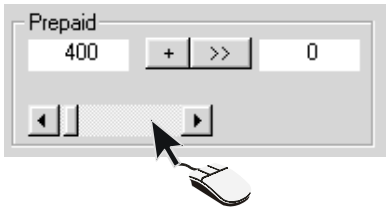
AntipassBack ***In/Out*** means that the user, after passing through the entrance, can only enter again after having left by way of the normal exit.

Prepaid access procedure

By selecting the PREPAID access, it is essential to define the ***Prepaid*** area whereas all the other areas are optional (see Normal Access {§ 4.6 | p 10} and Personalised Access {§ 4.9 | p 14} for the access validity)

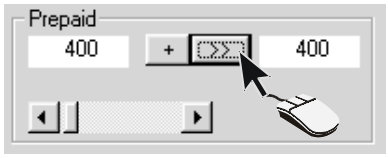
The term “Prepaid” means a number of credits purchased by the user having a value defined individually by each system manager (for example 1.20 Euro/dollar/pound sterling/etc for each credit): RBM8 does not calculate in currency terms, but only in number of credits.





Set the user-purchased Credits, which will appear in the left-hand box, ...

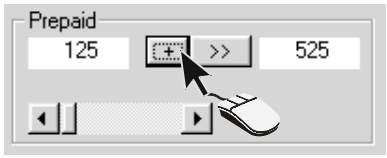
The left-hand box always represents the last purchase of Credits by the user.



... and transfer them into the right-hand box with the button [**>>**]

The right-hand box instead represents, the availability of Credits the user still has (i.e. after already subtracting the already-”spent” ones).

If, before “spending” all the credits, the user buys some more, to add them, click on the button**[+]**



At this point, we can select two very different settings for counting the credits.

In the first setting, which we will call PREPAID BY BANDS, we will leave the settings of the credits defined in Timings>Time bands {c 3 | § 3.5 | p 5}. In this way, the count will vary according the the band and access day.

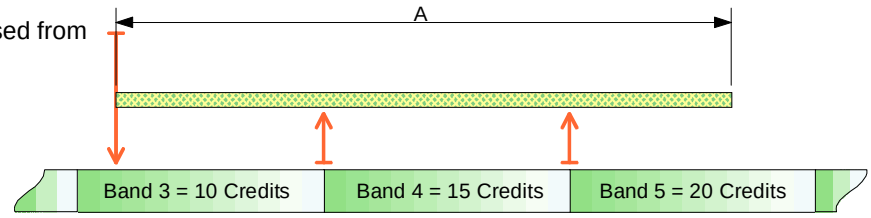
In the second, which we will call PREPAID BY ACCESS, we will vary the ***Number of credits applied*** in ***Personalised access***. This setting will debit only one number of credits for each access, irrespective of the time elapsing, the bands and the access day.

PREPAID BY BANDS

No additional selection to make: RBM8 sums the number of credits of the entry time band to the numbers of credits of each band that begins within the period between entry and exit.

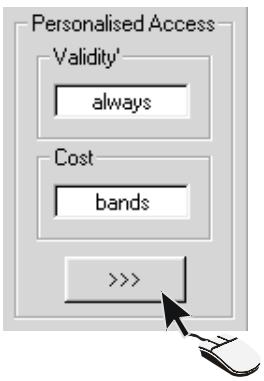
EXAMPLE OF CALCULATION FOR **PREPAID BY BANDS**

A = time elapsed from entry until exit

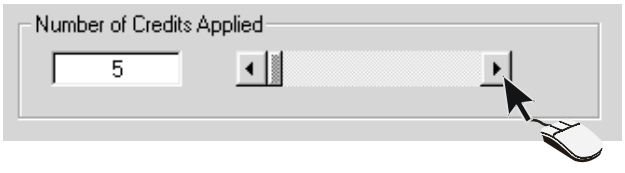


In this example, the user will be debited 10 + 15 + 20 credits

PREPAID BY ACCESS



Click on the button [**>>>**] in the area ***Personalised access***, set the number of credits to apply and confirm with [**OK**].



In this way, RBM8 will debit a fixed 5 credits for each user entry

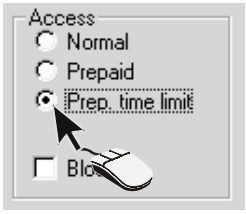
Prepaid time-limit access procedure

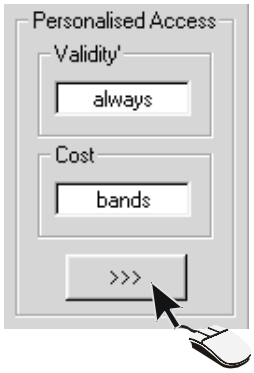
The PREPAID WITH TIME LIMIT mode is similar to the Prepaid mode and the areas to be defined are the same (to which we refer for the selection details);

The only difference is the way of calculating the credits to charge the user which, in this access type, is connected to a time interval (***Time associated to the Credit***, not to be confused with time band) defined in Timings>Costs {c 3 | § 3.2 | p 3}, and which determines the calculation scanning.

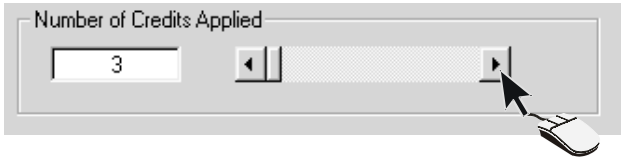
In this mode, in the area ***Personalised access*****, it is also necessary to set, at least 1 credit** in ***Number of credits applied*****.**

This setting replaces the default one in Timings>Time bands {c 3 | § 3.5 | p 5}, and **is valid for all the timebands**.





Click on the button [**>>>**] in the ***Personalised access*** area, set the number of credits to apply and confirm with the button [**OK**].

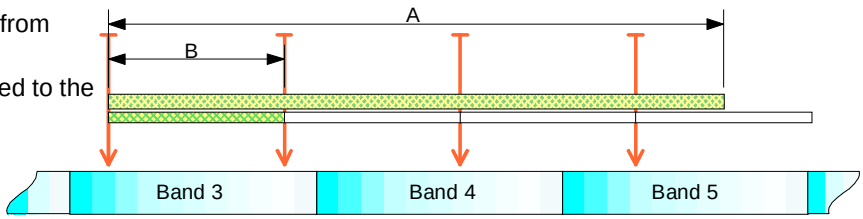


With the mode PREPAID WITH TIME LIMIT, RBM8 multiplies the number of credits set in ***Personalised access***, for each Time interval associated to the Credit, or fraction thereof, elapsing from entrance until exit.

EXAMPLE OF CALCULATION FOR **PREPAID WITH TIME LIMIT**

A = time elapsed from entry until exit

B = time associated to the credit

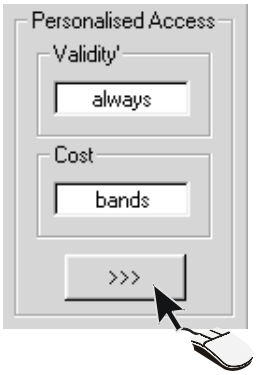


in this case, the user will be debited (No. of credits applied) x 4 time intervals

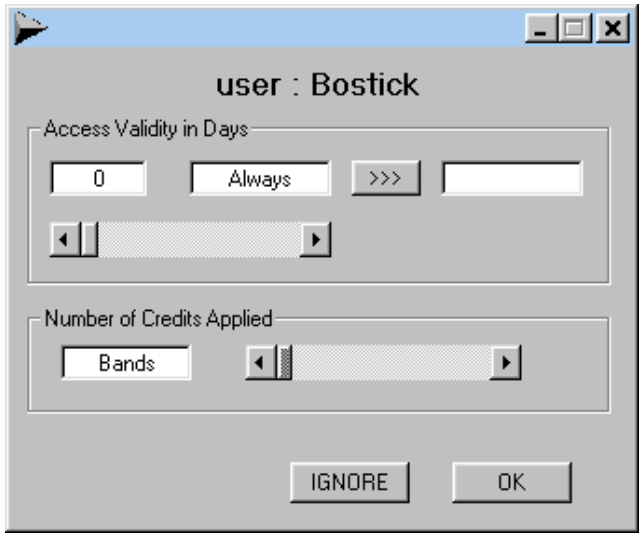
Personal access procedures

In the ACCESS dialog it is possible also to set, for all the three modes, a validity period for accessing (subscription type), irrespective of the credits purchased or remaining; this validity can be renewed at any time.

Also it is possible to select, for each individual user and for the modes PREPAID and PREPAID WITH TIME LIMIT, a different number of credits to the one set for the time bands (defined in Timings>Time bands {c 3 | § 3.5 | p 5}).

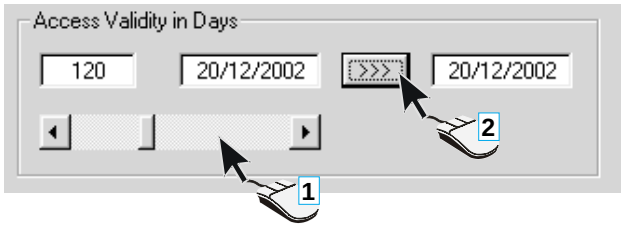


by clicking on the button [**>>>**] in the area ***Personalised access***, the dialog appears of ***Access Validity in Days*** (the default is "always") and ***Number of credits applied*** (pre-set to those of the timebands).



Set the validity of the access in days (that always start from the current date) and transfer it to the right box with the button [**>>>**].

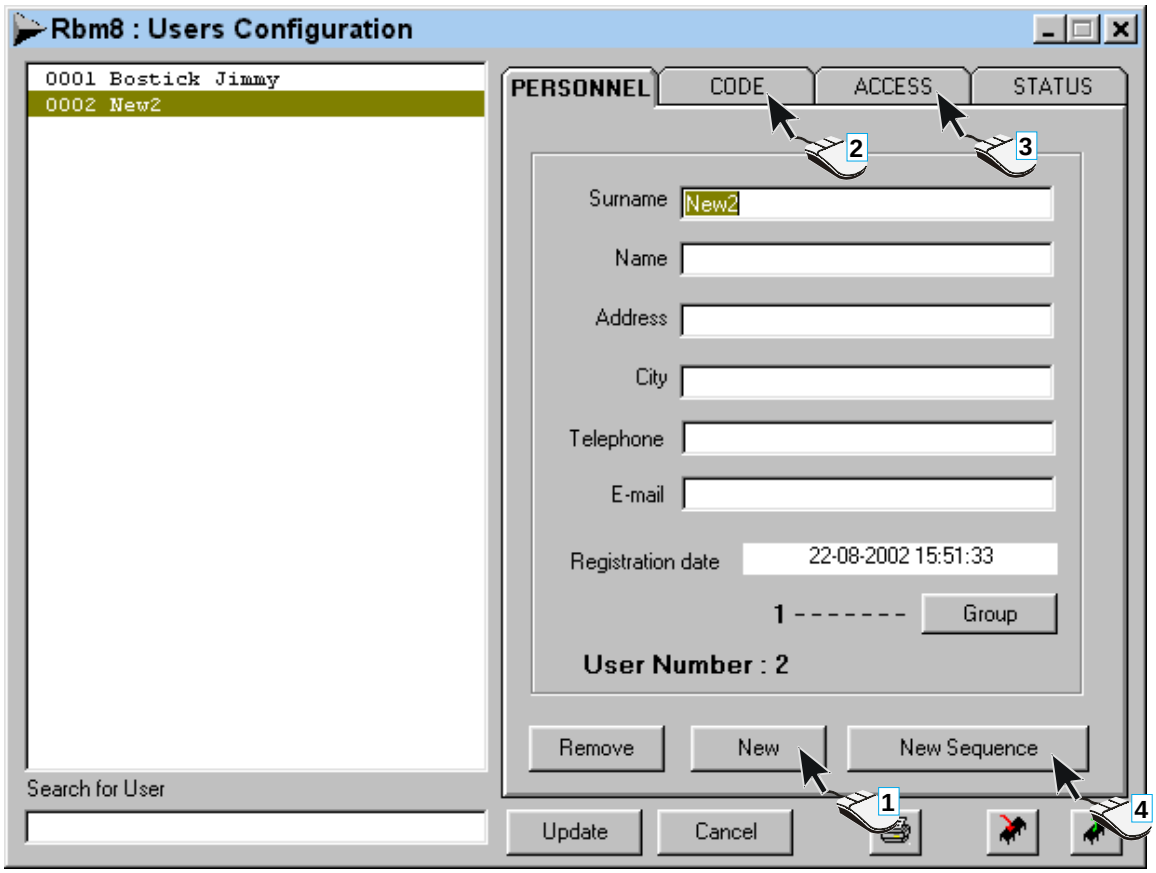
Confirm with the button [**OK**].



Upon expiry, **all accesses will be denied**, whatever type of authorization was provided for by para 4.6, 4.7, 4.8 and also if there are newly-purchased Credits to or residual ones to use up: to re-validate the access, you must set the validity to **always**; or else add some access days' validity (the remaining or purchased Credits will be made usable).

Add a certain number of **Users**

This procedure adds any number of users (up to the maximum number allowed by the system) with the same characteristics of code type (Keyboard, Radio-control or Card), access type and group belonging.
It is therefore necessary to configure a user with the desired characteristics, through the PERSONALISED, CODE and ACCESS dialogs, to then return to PERSONALISED and start up the



Click on [**NEW**] (it is not necessary to complete the data in this phase) ...

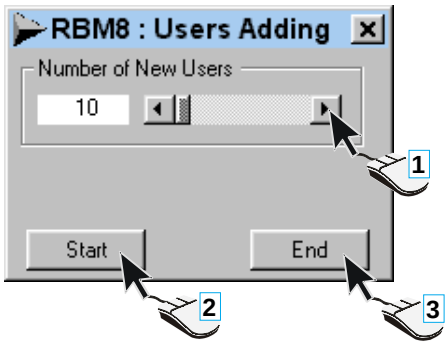
... go to the dialog CODE and save a code-type user (see {§ 4.4 | p 6}) ...

... go to the ACCESS dialog and save an access type (see {§ 4.5 | p 9}) ...

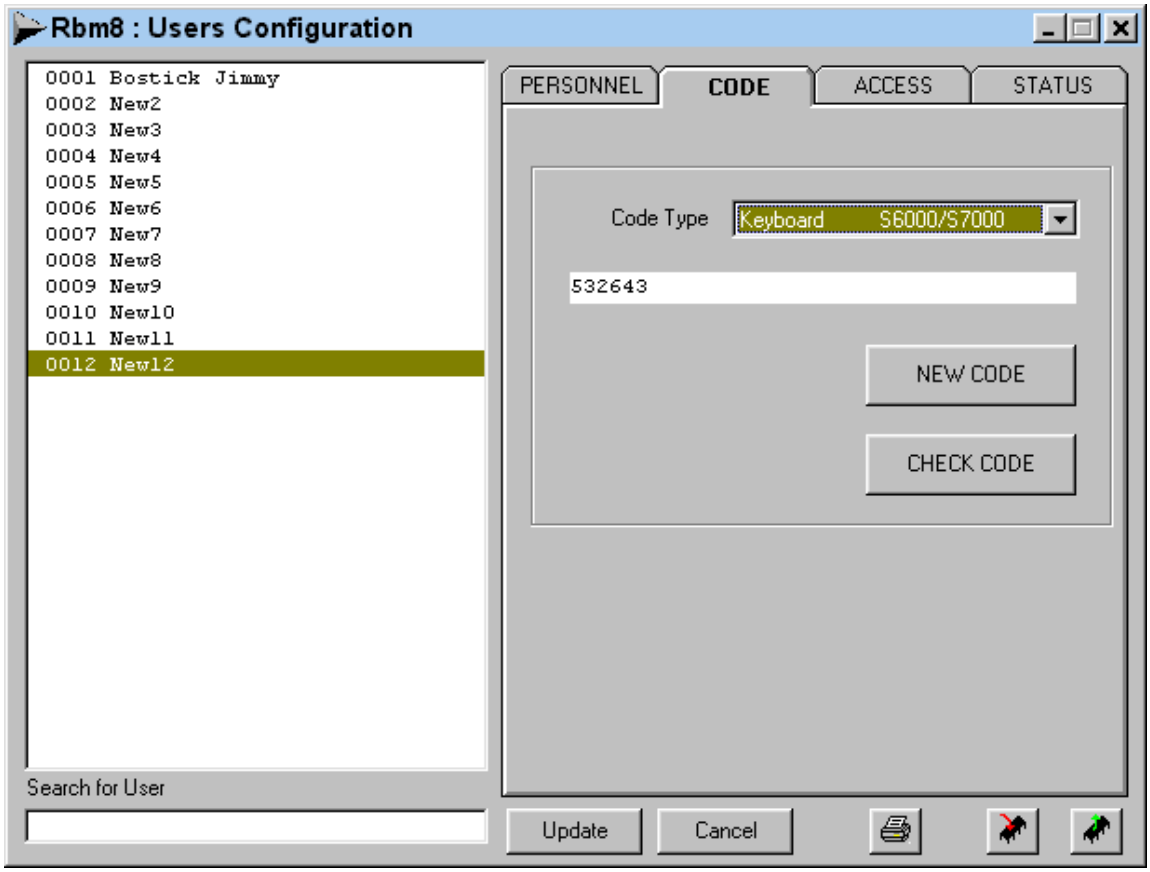
... then click on the button [**NEW SEQUENCE**] ...

If new user is not saved, the procedure will duplicate the last user that was entered (in the example, user 0001).

... select the number of users to add (10 users as default) and run the procedure with the button [**START**].

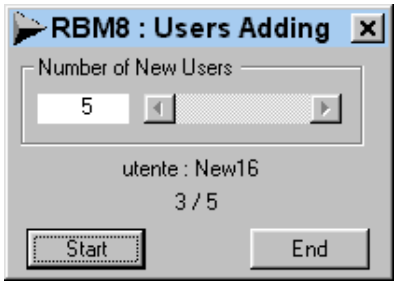


At this point, if the code type is **a Keyboard** ...



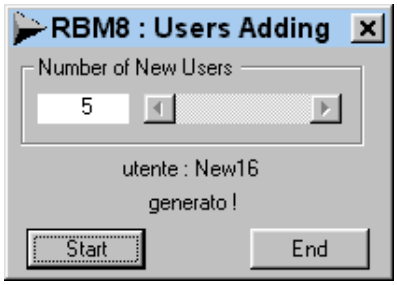
... the software will add them to the list of the users, by generating a different random code for each one; click the button [**END**] to terminate the procedure.

... if the code type is instead a **Transmitter** or a **Card** ...

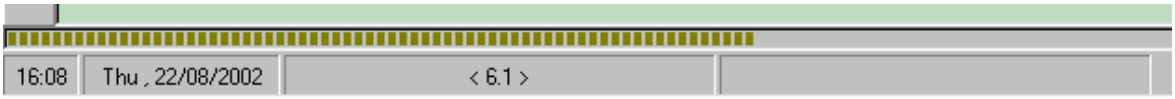


... after starting up the procedure ...

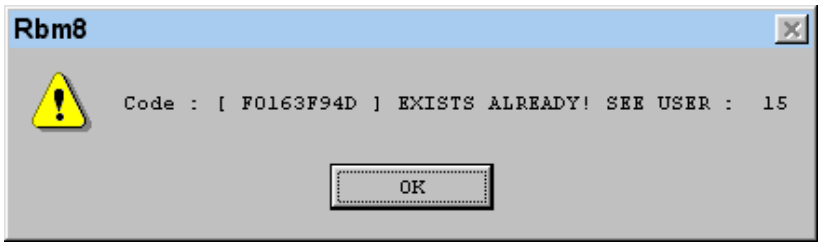
... you must save through PC30, for each device, the respective code ({§ 4.4 | p 6})



For each generation of new user, the graduated bar starts again while waiting for the next code.



... if the code we are saving is already present ...

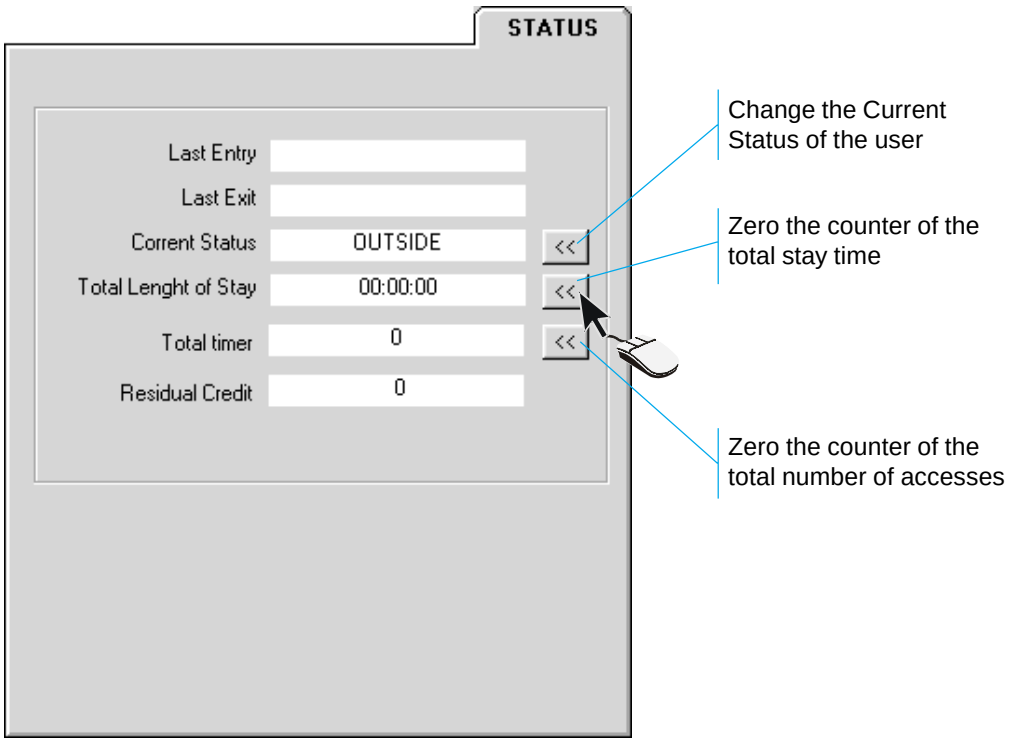


... you must click [**START**] again and save a valid code. Click the button [**END**] to terminate the procedure.

This applies also when, for whatever reason, you don't succeed in saving it within 10 seconds

Users' status check

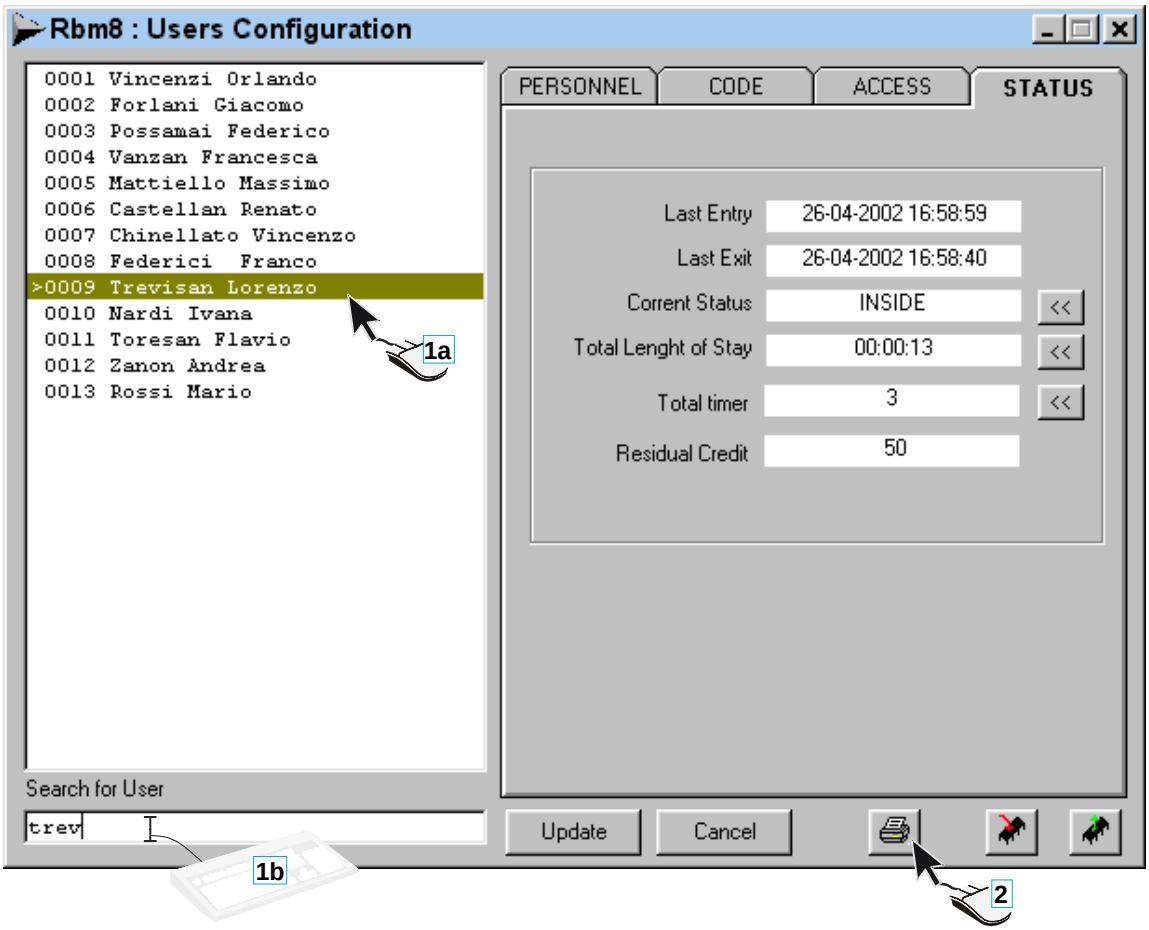
The STATUS dialog allows a test, in real time, of the status of each individual user with reference to:
- date and time of the last entry
- date and time of the last exit
- the presence or absence of the user within the system
- the total time spent inside the system
- the total number of accesses made
- The number of remaining Credits



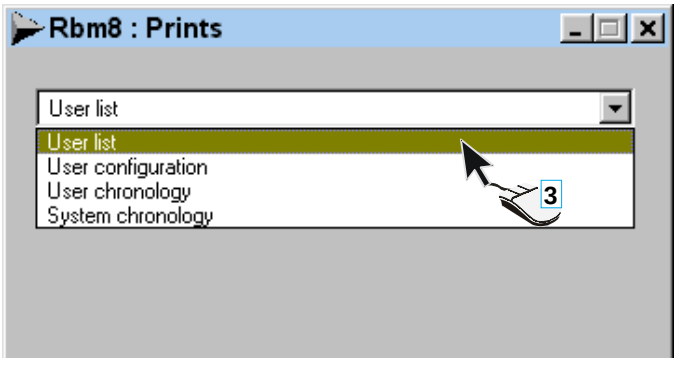
The Current status (if present or absent within the system) can be changed at any time, as also can be zeroed the Total length of stay and Total visits, using the respective buttons

Displays and **Prints** users' **data** and system **movements**

The button DISPLAY/PRINT allows for printing of the users list and the configuration of individual users; it also allows for the display and/or printing of the movements of single users or of all the movements registered by the system.
Caution! Before displaying and/or printing the desired lists, RBM8 must save all the data necessary that is normally stored in its memory on the PC; to do this, the Chronology management procedure must be carried out as per {c 5 | § 5.2 | p 3}

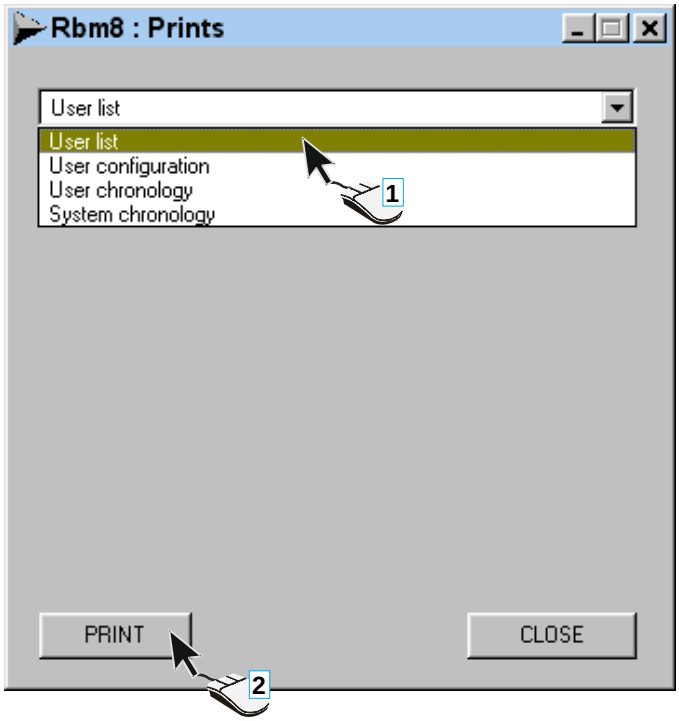


For the ***User configuration*** and ***User chronology*** it is first necessary to select the user we want to control; possibly use the dedicated box ***search by user*** to find it (type in the name in the ***surname*** box of the PERSONALISED dialog ({§ 4.3 | p 4})



Users list and ***User configuration*** proposes only the print.
User chronology and ***System chronology*** proposes instead the display and, possibly, the print.

To print a users list of the system ...



... select ***Users list*** and click on the button [**PRINT**].

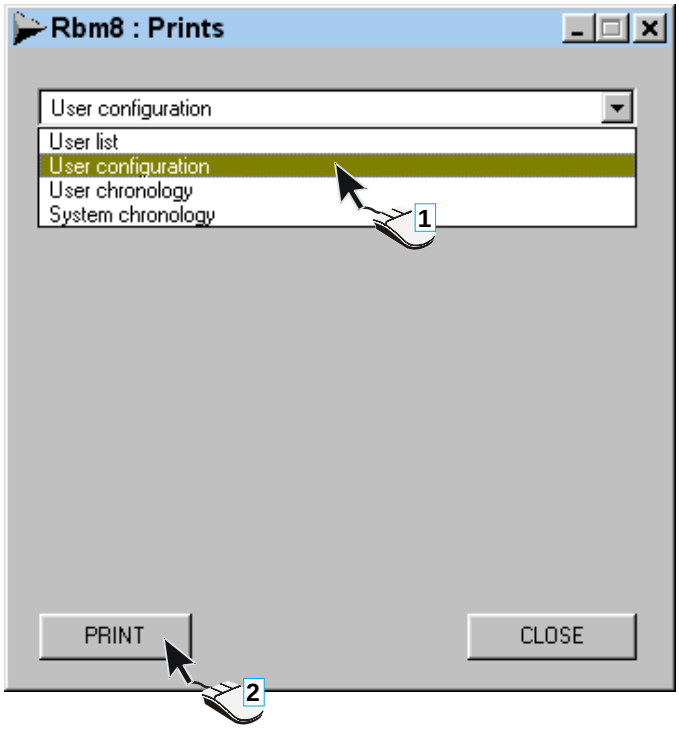
The software directs the print input to the default Windows printer, so you should test the status and the properties of the default printer; for the single-sheet printers (not continuous sheet), we recommend selecting an A4 Horizontal sheet and suitable margins in the printer properties.

Example of printout of the ***Users list***

```
    Installer :
         Date : 22-08-2002
   Print type : User list
       System : COLLAUDO_GB
  Total users : 13
         Page : 1
-------------------------------------------------------
  0001 Vincenzi Orlando
  0002 Forlani Giacomo
  0003 Possamai Federico
  0004 Vanzan Francesca
  0005 Mattiello Massimo
  0006 Castellan Renato
  0007 Chinellato Vincenzo
  0008 Federici  Franco
 >0009 Trevisan Lorenzo
  0010 Nardi Ivana
  0011 Toresan Flavio
  0012 Zanon Andrea
  0013 Rossi Mario
```

The symbol on the left of the progressive number signals the presence of the user in the

To print the configuration of the single user ...



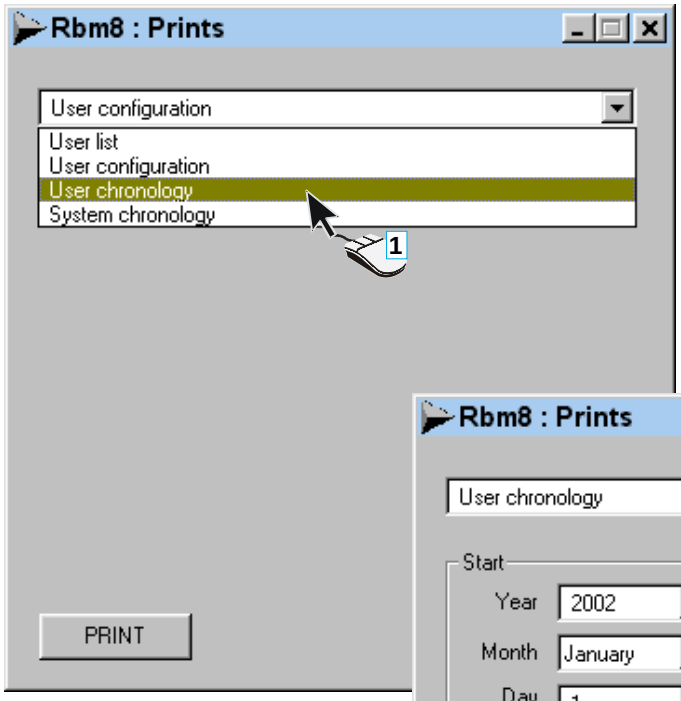
... select ***User configuration*** and click on the [**PRINT**] button.

Example of a print of the ***User configuration***

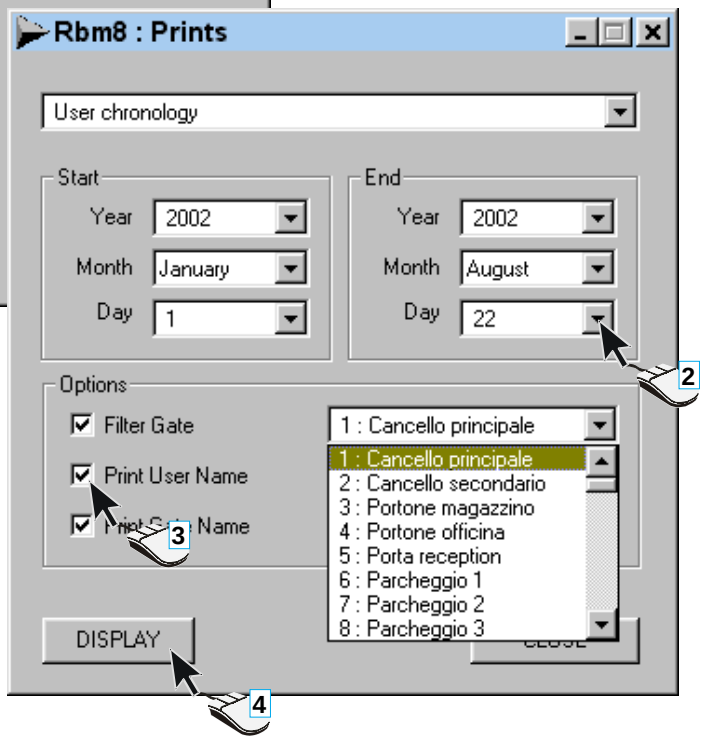
```
  Installer :
       Date : 22-08-2002
 Print type : User date
     System : COLLAUDO_GB
       Page : 1
-----------------------------------------------------------------
         User Number : 9

              Surname : Trevisan
                 Name : Lorenzo
              Address : Via Tarquinio
                 City : Treviso
            Telephone : 0422564512
               E-mail : @libero.it
         Registration : 15-03-2002 17:28:27
            Code type: Transponder  TSP00/LT00
                 Code : F017B361F
                Group : - - 3 - - - - -

           Last Entry : 26-04-2002 16:58:59
            Last Exit : 26-04-2002 16:58:40
               Status : INSIDE
Total lenght of stay : 00:00:13
         Total visits : 3
      Residual credit : 50
```

The print also includes the current status of the user as is also displayed in the STATUS dialog described to the {§ 4.11 | p 18}

To view/print the chronological movements of a single user ...



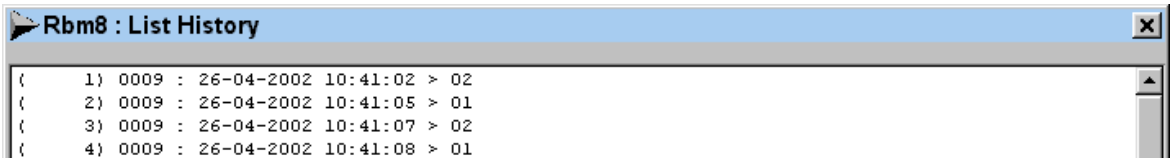
... select ***User Chronology*** ...



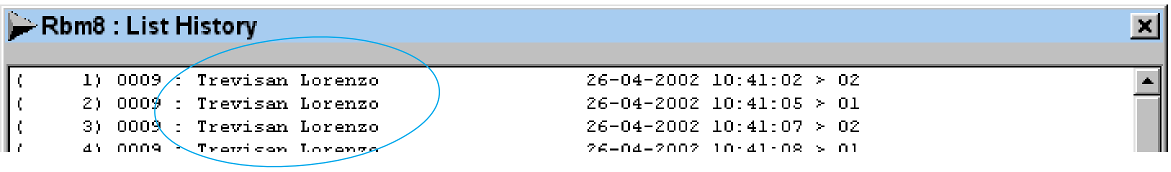
The ***Filter gate*** option allows selection of the movements relating only to one given entrance; the options ***Print user name*** and ***Print gate name*** adds them to the display and the print (see the following examples)

... select the period, day, month and start year and period end you want the detail for ...
... select the appropriate options ...
... and click on the button [**DISPLAY**] ...

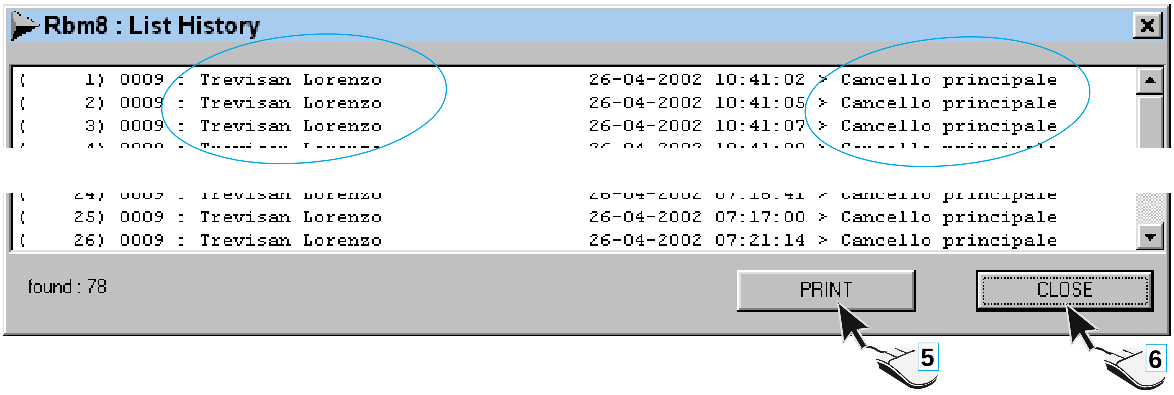
Example of display **without** options ***Print user name*** and ***Print gate name*** select



Example of display **with** only the option ***Print user name*** selected



Example of display **with** the options ***Print user name*** and ***Print gate name*** selected

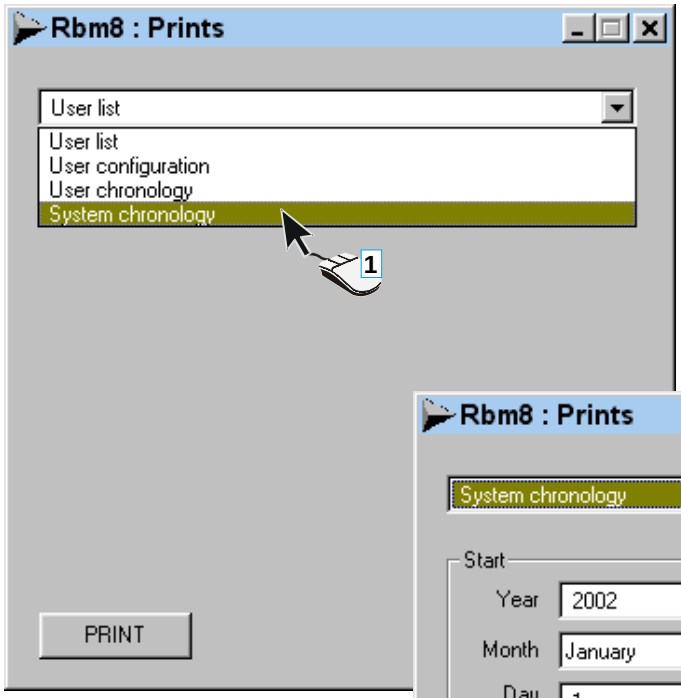


... and, if necessary, click on the button [**PRINT**], then on [**CLOSE**] to proceed.

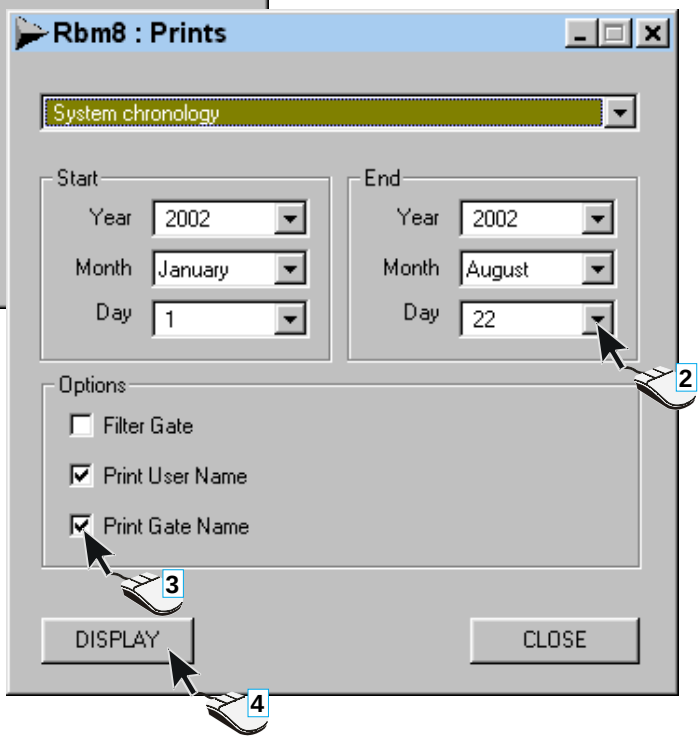
Example of printout of the registry ***User chronology***

```
      Installer :
           Date : 22-08-2002
     Print type : User chronology
         System : COLLAUDO
           page : 1
----------------------------------------------------------------------------------------
                User name                        Last access              Port
----------------------------------------------------------------------------------------
(      1) 0009 : Trevisan Lorenzo                26-04-2002 10:41:02 > Cancello principale
(      2) 0009 : Trevisan Lorenzo                26-04-2002 10:41:05 > Cancello principale
(      3) 0009 : Trevisan Lorenzo                26-04-2002 10:41:07 > Cancello principale
(      4) 0009 : Trevisan Lorenzo                26-04-2002 10:41:08 > Cancello principale
(      5) 0009 : Trevisan Lorenzo                26-04-2002 10:44:22 > Cancello principale
(      6) 0009 : Trevisan Lorenzo                26-04-2002 10:45:39 > Cancello principale
(      7) 0009 : Trevisan Lorenzo                26-04-2002 10:46:03 > Cancello principale
(      8) 0009 : Trevisan Lorenzo                26-04-2002 10:46:27 > Cancello principale
(      9) 0009 : Trevisan Lorenzo                26-04-2002 10:47:30 > Cancello principale
(     10) 0009 : Trevisan Lorenzo                27-04-2002 10:47:50 > Cancello principale
(     11) 0009 : Trevisan Lorenzo                27-04-2002 10:52:10 > Cancello principale
(     12) 0009 : Trevisan Lorenzo                28-04-2002 10:58:49 > Cancello principale
(     13) 0009 : Trevisan Lorenzo                26-04-2002 11:04:44 > Cancello principale
(     14) 0009 : Trevisan Lorenzo                27-04-2002 11:06:47 > Cancello principale
(     15) 0009 : Trevisan Lorenzo                27-04-2002 11:08:08 > Cancello principale
(     16) 0009 : Trevisan Lorenzo                26-04-2002 11:11:07 > Cancello principale
(     17) 0009 : Trevisan Lorenzo                26-04-2002 12:11:40 > Cancello principale
(     18) 0009 : Trevisan Lorenzo                26-04-2002 11:12:26 > Cancello principale
(     19) 0009 : Trevisan Lorenzo                26-04-2002 12:12:57 > Cancello principale
(     20) 0009 : Trevisan Lorenzo                26-04-2002 11:13:52 > Cancello principale
(     21) 0009 : Trevisan Lorenzo                26-04-2002 11:15:13 > Cancello principale
(     22) 0009 : Trevisan Lorenzo                26-04-2002 12:15:38 > Cancello principale
(     23) 0009 : Trevisan Lorenzo                26-04-2002 07:16:17 > Cancello principale
(     24) 0009 : Trevisan Lorenzo                26-04-2002 07:16:41 > Cancello principale
(     25) 0009 : Trevisan Lorenzo                26-04-2002 07:17:00 > Cancello principale
(     26) 0009 : Trevisan Lorenzo                26-04-2002 07:21:14 > Cancello principale
(     27) 0009 : Trevisan Lorenzo                26-04-2002 11:23:40 > Cancello principale
(     28) 0009 : Trevisan Lorenzo                26-04-2002 07:24:30 > Cancello principale
(     29) 0009 : Trevisan Lorenzo                26-04-2002 11:24:57 > Cancello principale
(     30) 0009 : Trevisan Lorenzo                26-04-2002 07:35:09 > Cancello principale
(     31) 0009 : Trevisan Lorenzo                26-04-2002 11:35:36 > Cancello principale
(     32) 0009 : Trevisan Lorenzo                26-04-2002 14:14:26 > Cancello principale
(     33) 0009 : Trevisan Lorenzo                26-04-2002 15:34:06 > Cancello principale
(     34) 0009 : Trevisan Lorenzo                26-04-2002 15:34:13 > Cancello principale
```

To view/print all the chronological movements of the system ...

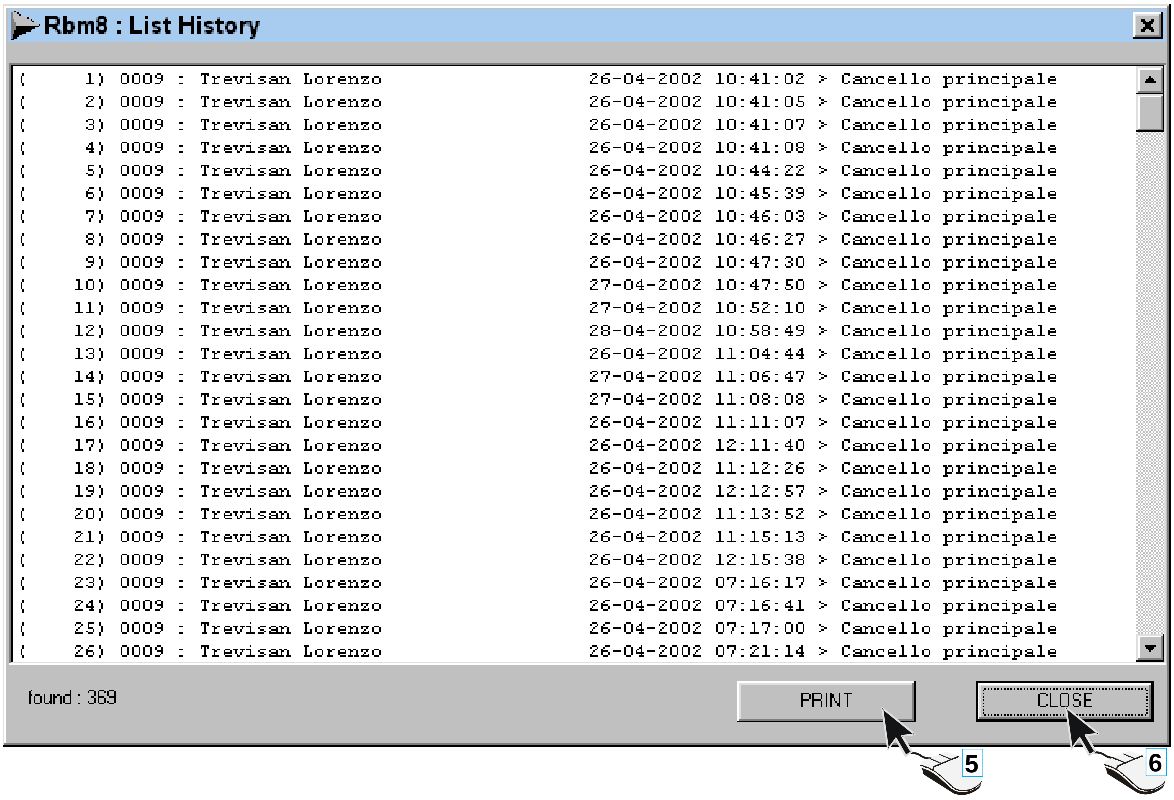


... select ***System chronology*** ...

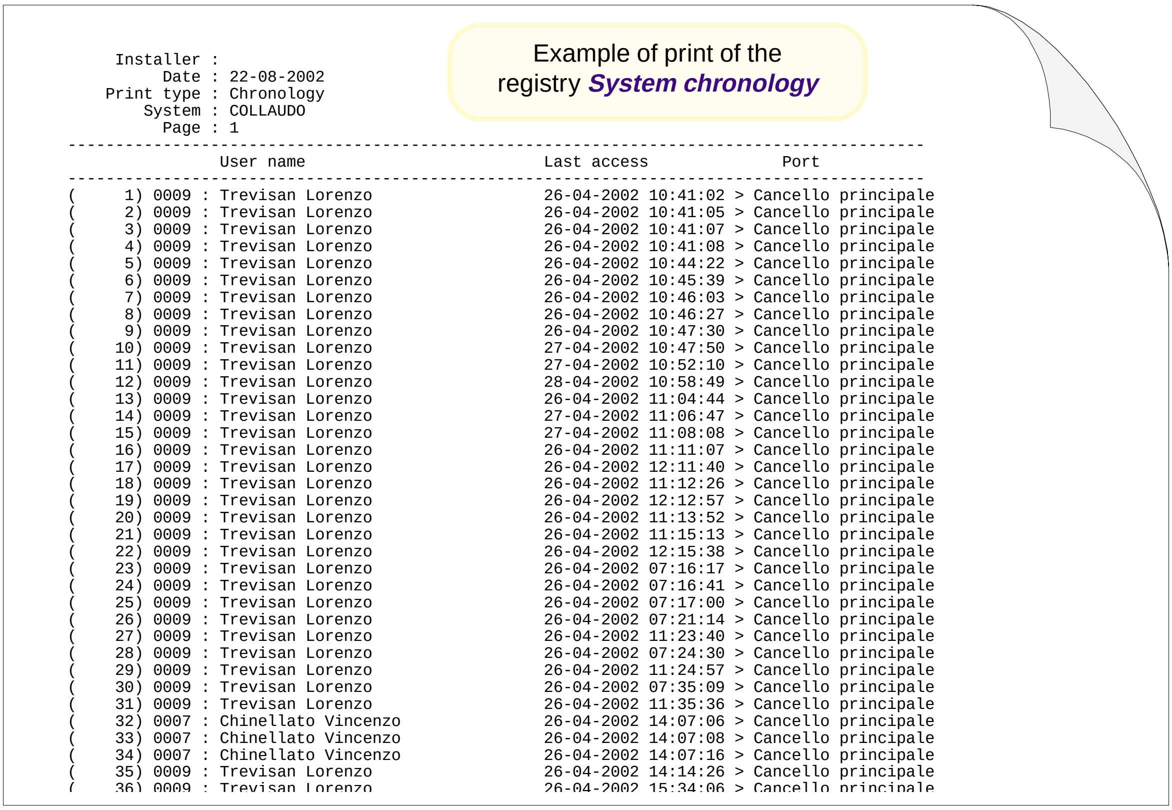


The ***Filter gate*** option allows selection of the movements relating only to one given entrance; the options ***Print user name*** and ***Print gate name*** adds them to the display and the print (see examples on previous pages)

... select the period, day, month and start year and period end you want the detail for ...
... select the appropriate options ...
... and click on the button [**DISPLAY**] ...



... and, if necessary, click on the button [**PRINT**], then on [**CLOSE**] to proceed



Example of print of the registry ***System chronology***

```
Installer :
     Date : 22-08-2002
Print type : Chronology
   System : COLLAUDO
     Page : 1
-----------------------------------------------------------------------------------------
              User name                          Last access              Port
-----------------------------------------------------------------------------------------
(     1) 0009 : Trevisan Lorenzo                 26-04-2002 10:41:02 > Cancello principale
(     2) 0009 : Trevisan Lorenzo                 26-04-2002 10:41:05 > Cancello principale
(     3) 0009 : Trevisan Lorenzo                 26-04-2002 10:41:07 > Cancello principale
(     4) 0009 : Trevisan Lorenzo                 26-04-2002 10:41:08 > Cancello principale
(     5) 0009 : Trevisan Lorenzo                 26-04-2002 10:44:22 > Cancello principale
(     6) 0009 : Trevisan Lorenzo                 26-04-2002 10:45:39 > Cancello principale
(     7) 0009 : Trevisan Lorenzo                 26-04-2002 10:46:03 > Cancello principale
(     8) 0009 : Trevisan Lorenzo                 26-04-2002 10:46:27 > Cancello principale
(     9) 0009 : Trevisan Lorenzo                 26-04-2002 10:47:30 > Cancello principale
(    10) 0009 : Trevisan Lorenzo                 27-04-2002 10:47:50 > Cancello principale
(    11) 0009 : Trevisan Lorenzo                 27-04-2002 10:52:10 > Cancello principale
(    12) 0009 : Trevisan Lorenzo                 28-04-2002 10:58:49 > Cancello principale
(    13) 0009 : Trevisan Lorenzo                 26-04-2002 11:04:44 > Cancello principale
(    14) 0009 : Trevisan Lorenzo                 27-04-2002 11:06:47 > Cancello principale
(    15) 0009 : Trevisan Lorenzo                 27-04-2002 11:08:08 > Cancello principale
(    16) 0009 : Trevisan Lorenzo                 26-04-2002 11:11:07 > Cancello principale
(    17) 0009 : Trevisan Lorenzo                 26-04-2002 12:11:40 > Cancello principale
(    18) 0009 : Trevisan Lorenzo                 26-04-2002 11:12:26 > Cancello principale
(    19) 0009 : Trevisan Lorenzo                 26-04-2002 12:12:57 > Cancello principale
(    20) 0009 : Trevisan Lorenzo                 26-04-2002 11:13:52 > Cancello principale
(    21) 0009 : Trevisan Lorenzo                 26-04-2002 11:15:13 > Cancello principale
(    22) 0009 : Trevisan Lorenzo                 26-04-2002 12:15:38 > Cancello principale
(    23) 0009 : Trevisan Lorenzo                 26-04-2002 07:16:17 > Cancello principale
(    24) 0009 : Trevisan Lorenzo                 26-04-2002 07:16:41 > Cancello principale
(    25) 0009 : Trevisan Lorenzo                 26-04-2002 07:17:00 > Cancello principale
(    26) 0009 : Trevisan Lorenzo                 26-04-2002 07:21:14 > Cancello principale
(    27) 0009 : Trevisan Lorenzo                 26-04-2002 11:23:40 > Cancello principale
(    28) 0009 : Trevisan Lorenzo                 26-04-2002 07:24:30 > Cancello principale
(    29) 0009 : Trevisan Lorenzo                 26-04-2002 11:24:57 > Cancello principale
(    30) 0009 : Trevisan Lorenzo                 26-04-2002 07:35:09 > Cancello principale
(    31) 0009 : Trevisan Lorenzo                 26-04-2002 11:35:36 > Cancello principale
(    32) 0007 : Chinellato Vincenzo              26-04-2002 14:07:06 > Cancello principale
(    33) 0007 : Chinellato Vincenzo              26-04-2002 14:07:08 > Cancello principale
(    34) 0007 : Chinellato Vincenzo              26-04-2002 14:07:16 > Cancello principale
(    35) 0009 : Trevisan Lorenzo                 26-04-2002 14:14:26 > Cancello principale
(    36) 0009 : Trevisan Lorenzo                 26-04-2002 15:34:06 > Cancello principale
```

C H A P T E R 5

RBM8 - software

UPDATES, CHRONOLOGY, PREFERENCES

INDEX

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RBM8 **Updates** 2

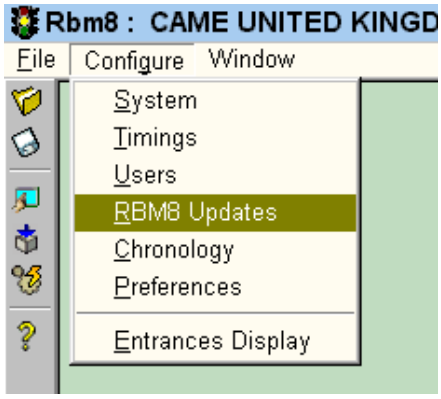
Chronology management 3

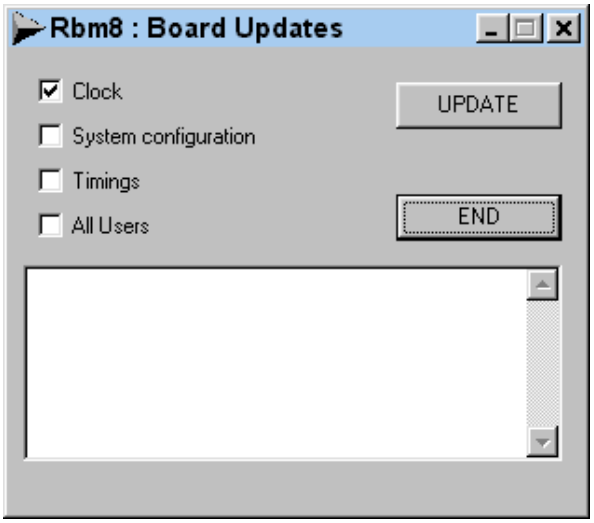
Preferences 4

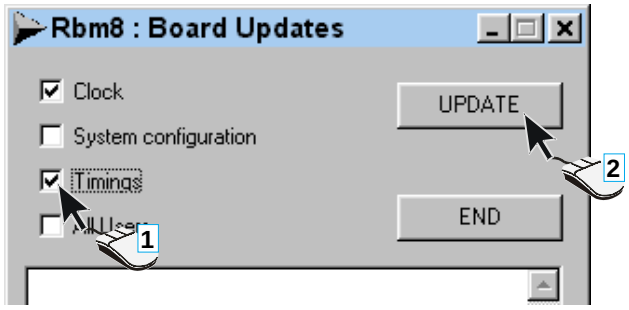
RBM8 **Updates**

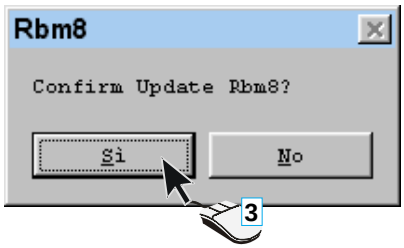
The UPDATES dialog is used to update, simultaneously or individually, the three key sections of the *configuration*: *System*, *Timings* and *Users*.
It also presents as default the update of the system clock.

Before starting up the update procedures, you must have saved all the changes made previously; to this end, we recommend pressing the buttons indicated here, at least at the end of every configuration section indicated above.



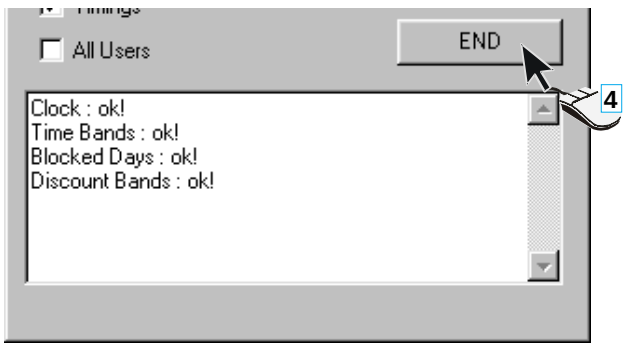






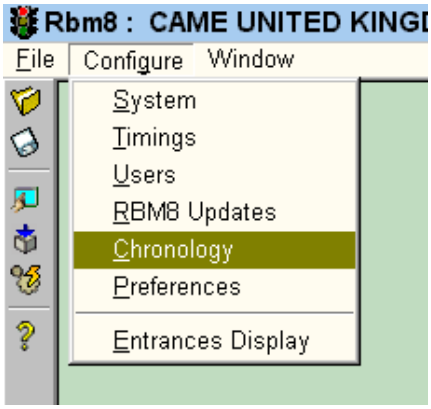
Tick the section to update and click on [**UPDATE**], [**YES**] to confirm the update ...

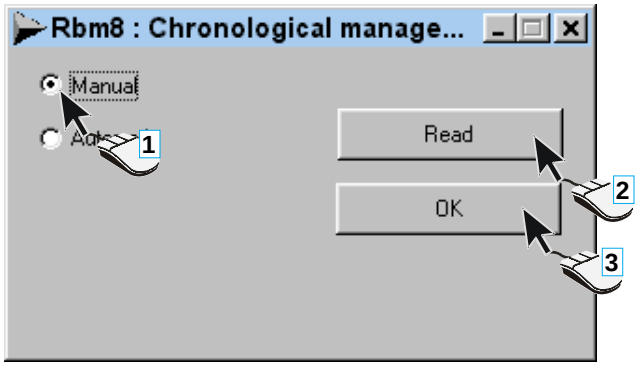
... and wait for the graduated bar - found in the lower part of the main window - to scroll; then click on the button [**END**]



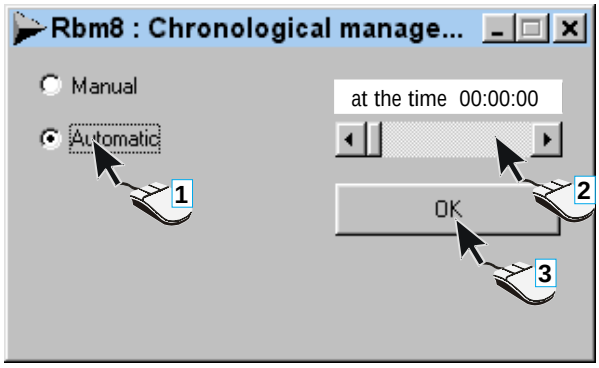
Chronology management

The dialog CHRONOLOGY MANAGEMENT is used to save the record of all the system's movements onto the hard disk.





To manually update the file, select ***Manual***, click on [**READ**], then close with [**OK**]



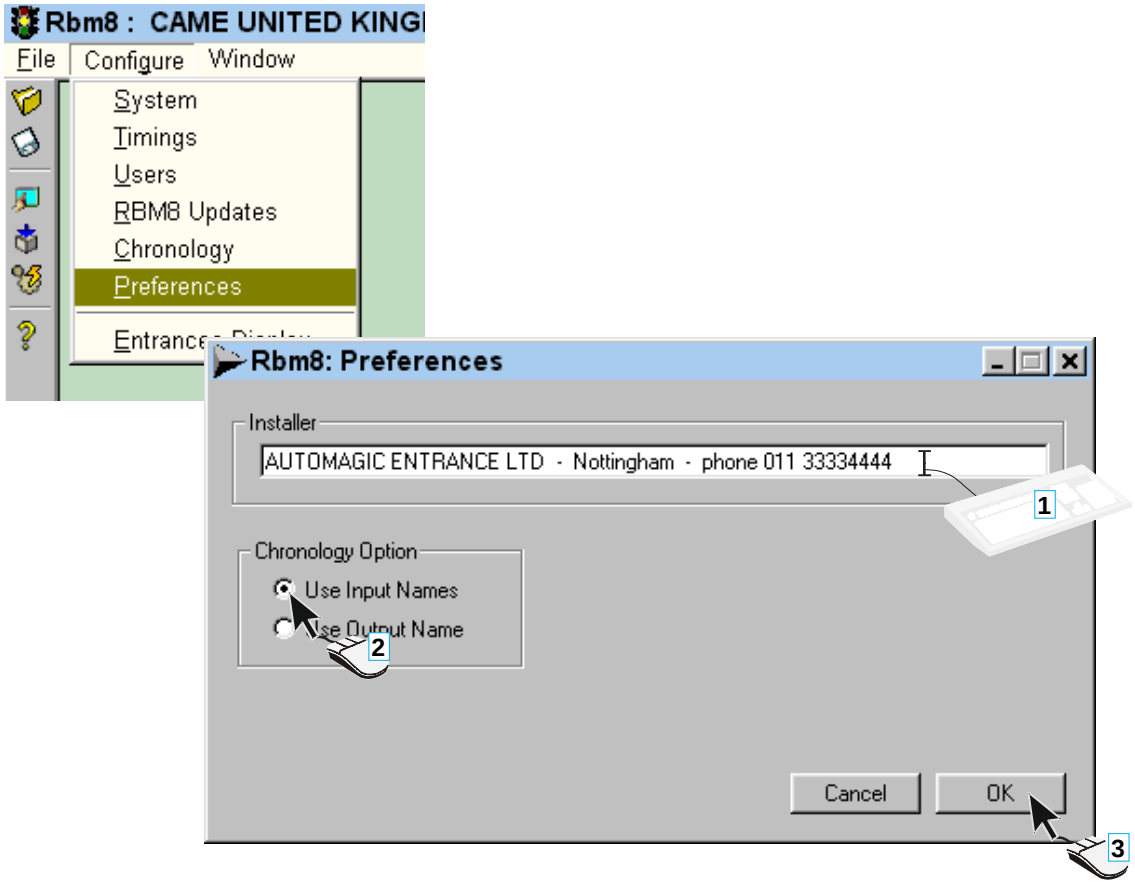
To automatically update the file, select ***Automatic***, select the time when you want the update to be made, then close with [**OK**]. Every day, at the time indicated, the procedure of creation/updating will be managed automatically by the computer.

Every day, at the time indicated, the procedure of creation/updating will be managed automatically by the computer. **Caution!** To make sure this happens, the PC must be on and the RBM8 software active (also reduced to an icon), so we recommend adding a link to RBM8:8.exe under the "Start>Programs>Automatic start-up" folder (see the MSWindows documentation).

RBM8 keeps up to 30,000 movements stored in its memory: to have a chronological record of the system's movements, it is therefore necessary to run this procedure preferably in automatic mode and, in any case, to run it manually before every check reading/print as mentioned in {c 4 | § 4.12 | p 19}

Preferences

The PREFERENCES dialog is used to save the name of the system's installer (optional) which will appear in the printouts, and determine how the names of the devices connected to the system are to be indicated in the various system check displays/prints



With ***Use Entrances Name*** RBM8 shows the number of the related sensor (for example ***Rbm8 sens 4*** for an RBM8 exit, or ***Rem 12 sens 2*** for an exit of one of the connected REMs).
With ***Use Exits Name*** RBM8 shows the names assigned by the manager in *System Configuration* {c 2 | § 2.4 | p 4} (for example ***Entry gate***).

These names are displayed/printed in the User Chronology and System Chronology of *Users Configuration* {c 4 | § 4.12 | p 19}, and in the last 8 accesses display in the *Entrances Monitor* {c 6 | § 6.1 | p 2}.

C H A P T E R 6

RBM8 - software

ENTRANCES MONITOR

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Entrances display - description 2
Displaying the **digital entrances status** 3
Displaying the **REMs status** 4
Displaying the **system-controlled blocks** 4
Displaying the **traffic-lights status** 4
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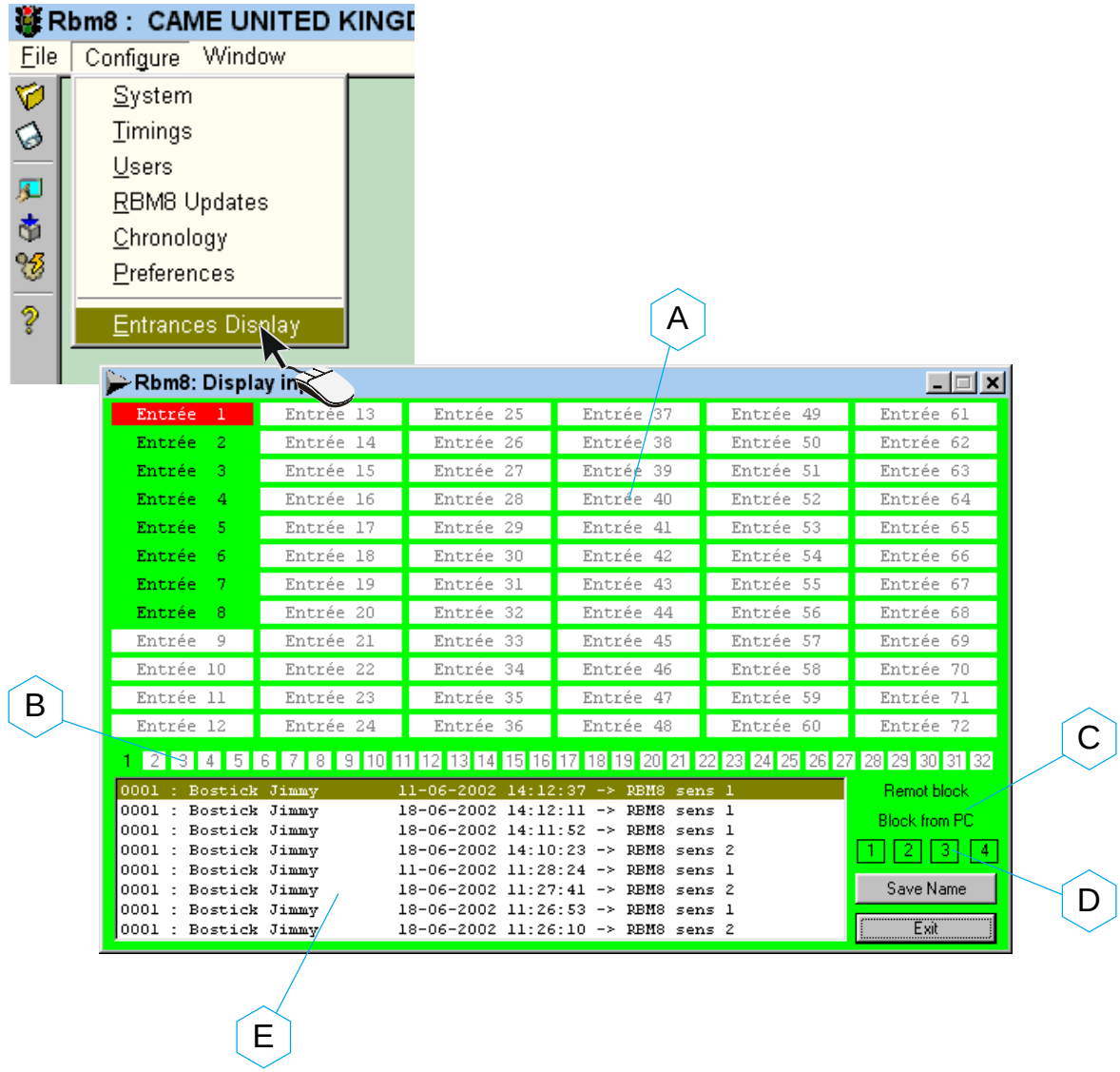
Entrances display - description

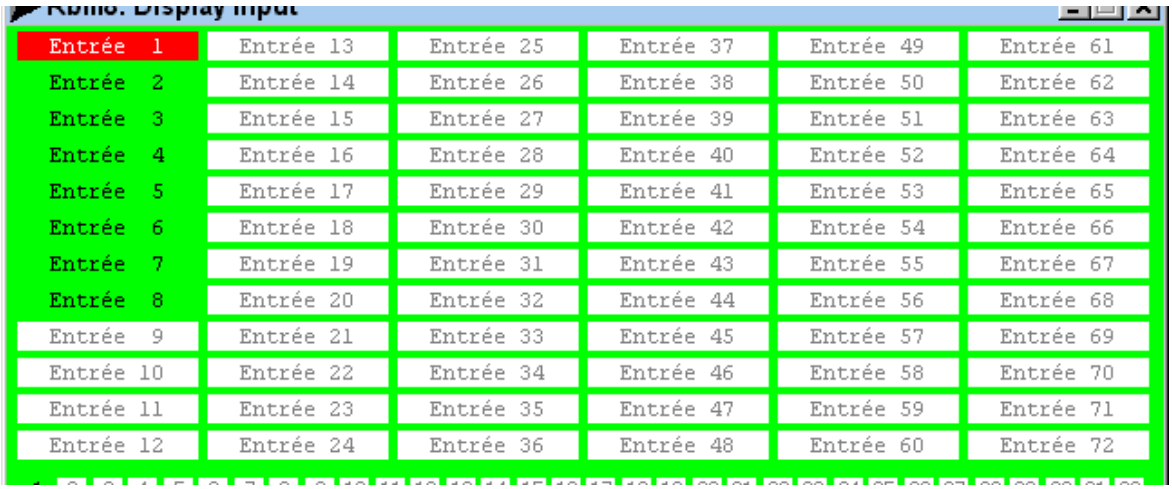
The ENTRANCES MONITOR dialog is a utility designed for those systems for which a constant surveillance of the entrances functioning is required.

Caution! When configuration changes or other operations are made from the software, the entrances monitor *must be off* (use the button [OK]), because when it is active, it makes exclusive use of the communication channel between the PC and RBM8 (precisely to ensure continuous surveillance of the system's status), and thus hinders the updates and the changes by software.



A - Display area of the digital entrances status
B - Display area of the REMs status
C - Display area of the system-controlled blocks
D - Display area of the traffic-lights status
E - Display area of the last 8 accesses to the system

DISPLAY AREA OF THE DIGITAL ENTRANCES STATUS



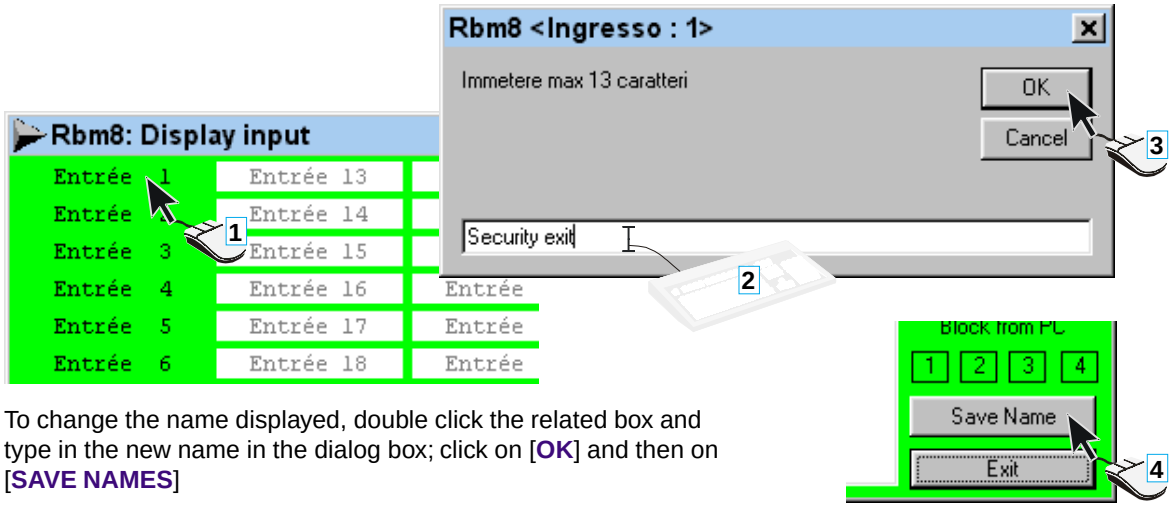
The digital entrances with white background, are not connected or enabled;

The digital entrances with **green** background are **connected**, enabled and **inactive**;

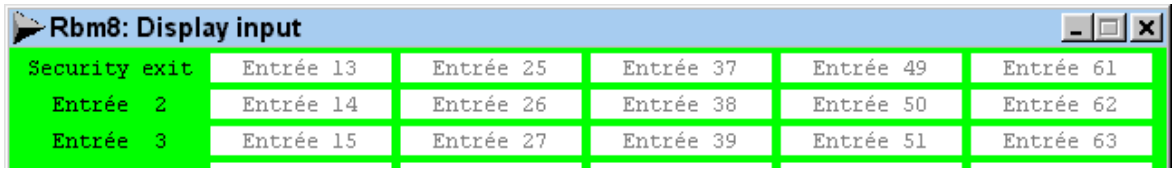
The digital entrances with **red** background are connected, enabled and are **working**;

For example, if we have connected a “gate open” sensor of the safety exit on the digital entrance 1, the red background warns us that, at this moment, it is open and will change to green only when it is closed.

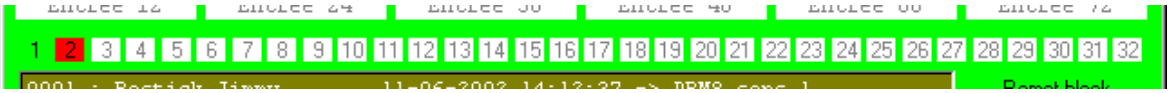
The labels of the connected entrances may be renamed as desired (max. 13 characters) and will only appear in this display.



To change the name displayed, double click the related box and type in the new name in the dialog box; click on [**OK**] and then on [**SAVE NAMES**]



DISPLAY AREA OF THE REMS STATUS



The REMS with a white background, are not connected or configured (see {c 2 | § 2.18 | p 12});

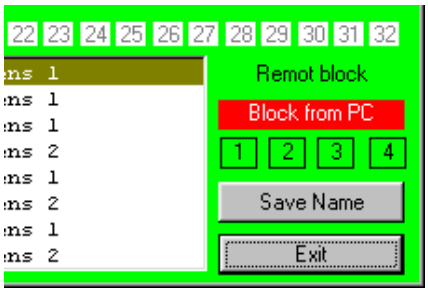
The REMS with a **green** background, are **connected** and **are working correctly**;

The REMS with **red** background, are not working correctly due to **hardware problems** (board components need replacing, connections to check, etc., which however do not depend on the configurations);

Caution! If more REMS appear to be connected (with green background) than those we know are present in the system, this means that, during connection, they were not correctly defined with the dedicated selector in their motherboard (see {c 1 | § 1.11 | p 14}).

For example, if, in a system with 3 REMS, one of them is defined with the number 6 (i.e. a logical software address, see previous references), RBM8 will display 6 REMS connected; this does not however prejudice the system's working but simply that REMs 4.5 and 6 will appear with a red background.

DISPLAY AREA OF THE SYSTEM-CONTROLLED BLOCKS

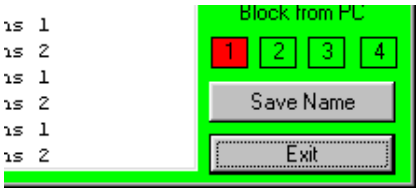


Remote block will appear green if a device is connected in a digital entrance (for example an emergency button) that is aimed at voluntarily blocking the system: if activated, the box will turn red, thus signalling the block.

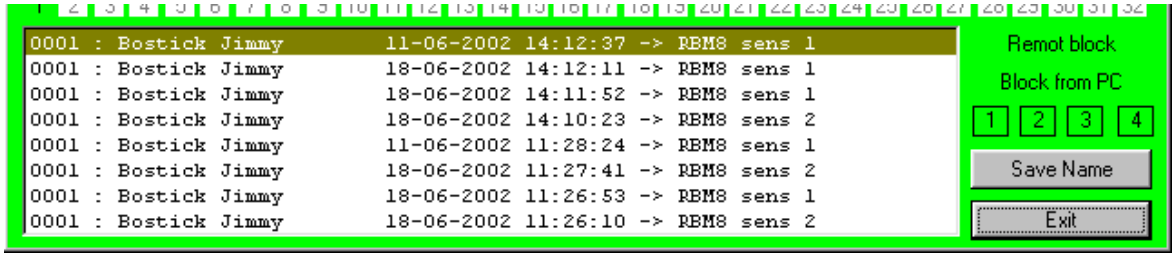
Block from PC, instead, is always green because it is a software block and turns red when the related button is intentionally pressed [BLOCKS RBM8] in *the System Configuration* {c 2 | § 2.1 | p 2}

DISPLAY AREA OF THE TRAFFIC-LIGHTS STATUS

The 4 traffic lights connectable to RBM8 will appear red when the maximum capacity is reached (375) or else the possibly-modified capacity (less than 375) in the *System Configuration* {c 2 | § 2.6 | p 5}



DISPLAY AREA OF THE LAST 8 ACCESSES TO THE SYSTEM



This area shows the last 8 users that have used any entrance of the system (the name of the entrance depends on the selection made in the PREFERENCES {c 5 | § 5.3 | p 4})