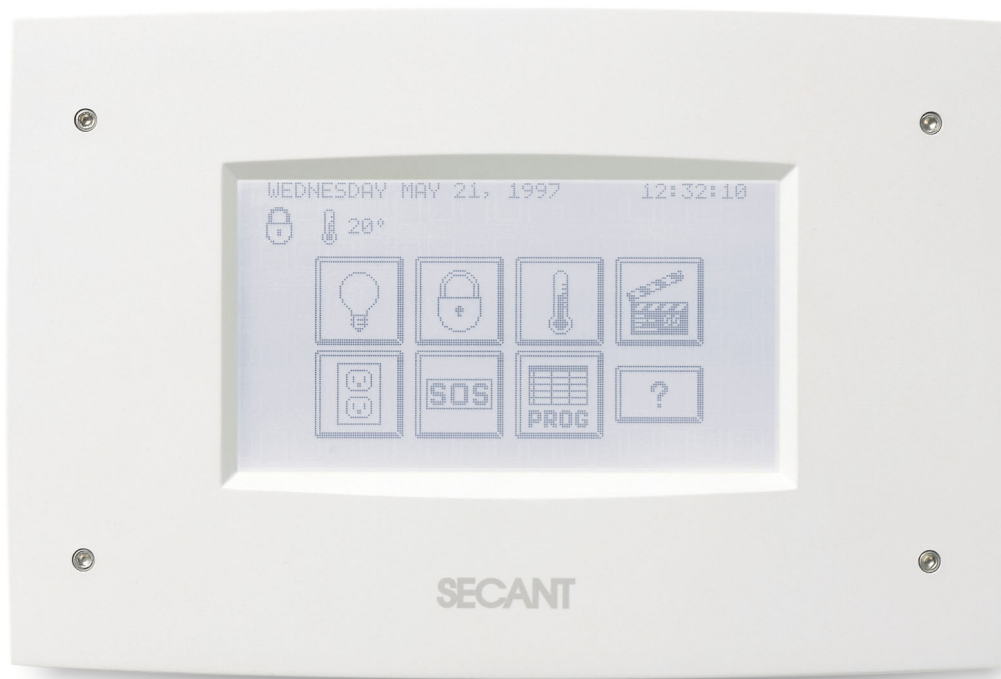


CARDIO IIé

SYSTEM VERSION 2.6xx



USER'S GUIDE

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Use of CARDIO

Introduction

The CARDIO home automation system enables homeowners to better manage such basic functions as heating/air conditioning, security, lighting and appliance control. Through the automation of some of these functions, CARDIO also ensures a higher degree of comfort and peace of mind. Additionally, the efficient management of heating/air conditioning and lighting brings tangible savings.

CARDIO has been designed to ensure an extremely user-friendly system. CARDIO can be controlled both from inside the home (through its touch screen or from any inside telephone) as well as from any location in the world. Your home, therefore, is always as close as the nearest telephone.

The commands used are easy to understand and are often identical to those used in well-known devices such as thermostats and alarm systems.

CARDIO's goal is therefore to help better manage the home environment. It works in the background to enhance the home, to make it more efficient but also more comfortable.

Important

CARDIO's touch screen offers user-friendly features unmatched by any mass produced electronic system. A light touch is all that is necessary to turn on the screen and execute the commands.

!WARNING!: Never apply any hard or sharp objects to the screen to avoid possible damage. As noted above, a light touch is sufficient.

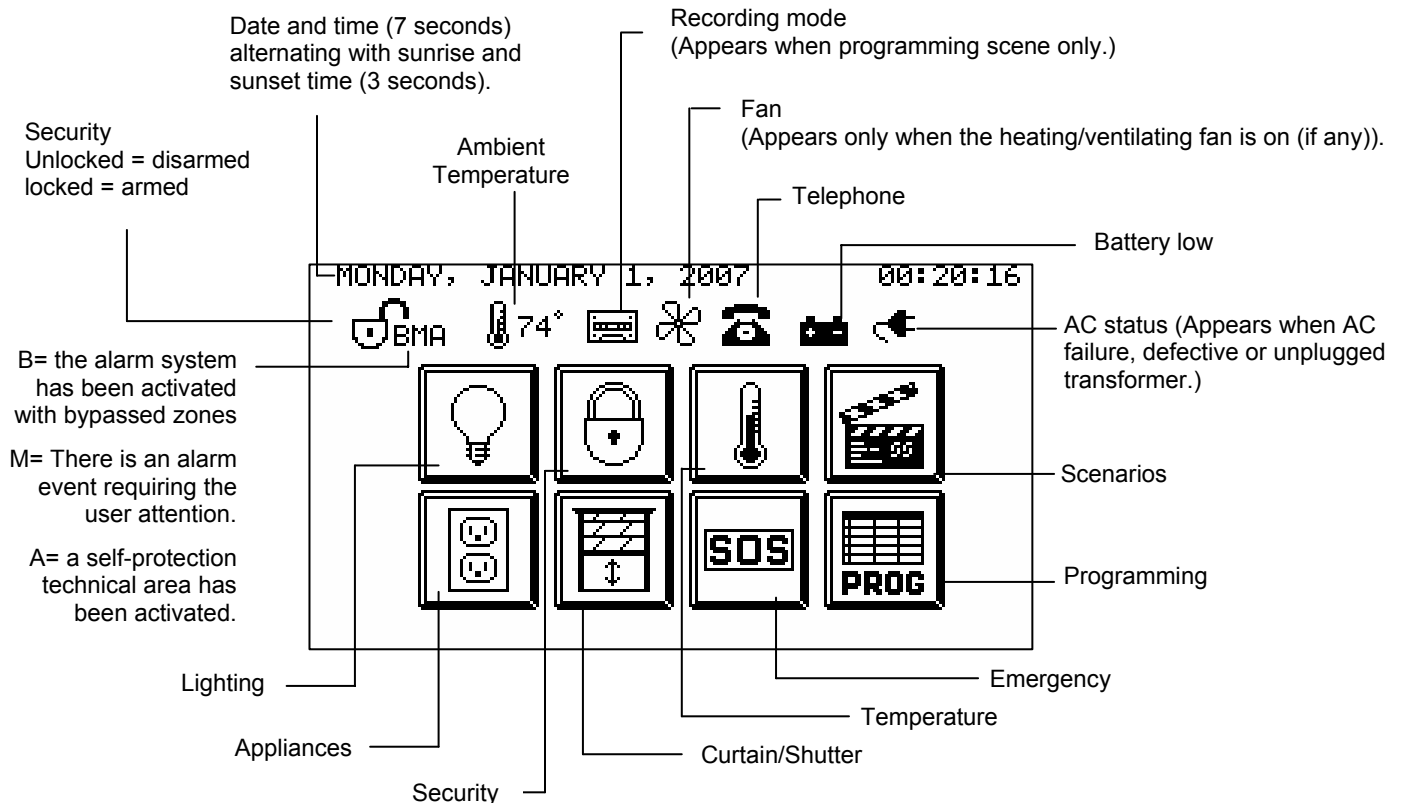
To clean your CARDIO touch panel, we recommend using LCD cleanser that can be purchased at any electronics store and a clean cloth. Get the cloth damp and then apply to the screen. Never splash the screen and try to wipe out the liquid.

ATTENTION!: Never use windows or house cleanser with ammoniac and/or any others commercial cleansers to clean the CARDIO screen. Also be caution to use a clean cloth as tiny, hard particles trapped in the fibers can scratch the surface of your screen.

Presentation of system CARDIO

CARDIO's screen shuts down after being idle for one minute. It is easy to reactivate by pressing anywhere on it and the basic screen as shown below will then appear. Besides giving information such as date and time as well as operating status (current temperature, security, etc.), this particular screen enables the user to directly control all of the basic functions that CARDIO manages. It also gives access to the programming section.

MAIN MENU





General

The method of navigation is virtually identical in all the menus and functions of CARDIO. The buttons particular to each function will be presented to you in their respective section.

Help

On all majors screens functions of the CARDIO system a HELP button gives a brief description of the purpose of the screen and its operation.

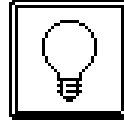
Press  to obtain assistance on the function in progress. Press  to come back.

On the main screen, the help feature is "hidden", just touch on the empty space on the right lower corner of the screen to bring up the main page help menu.

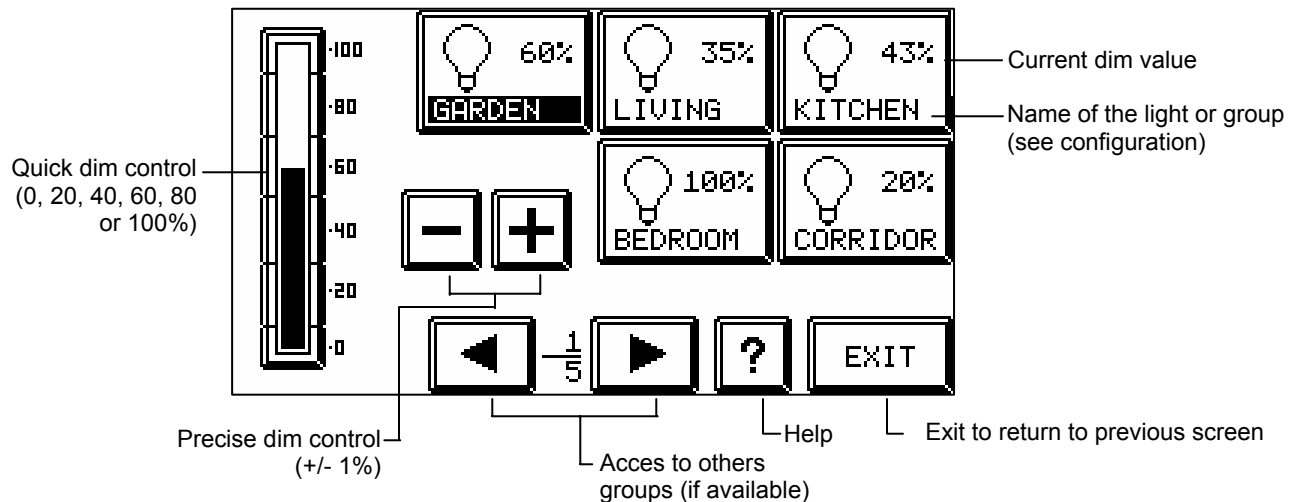
Lighting

Control groups of lights linked to CARDIO (ON/OFF, dim). Each group can be made up of many lights.

From the main menu press



The following screen appears:



Modification of the state of a lamp or a group of lamps:

Select a group of lights, the name turns black. By default, group 1 is picked by the system (GARDEN in the above example).

The current dim level appears both in the box (60%) and on the quick dim column.

Press the quick dim column to adjust the dim to 80%

Press 5 times on + to adjust the dim to 85%

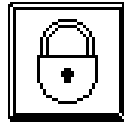
Dim will adjust automatically in the column and in the box

Repeat the above instructions to modify other groups of lights

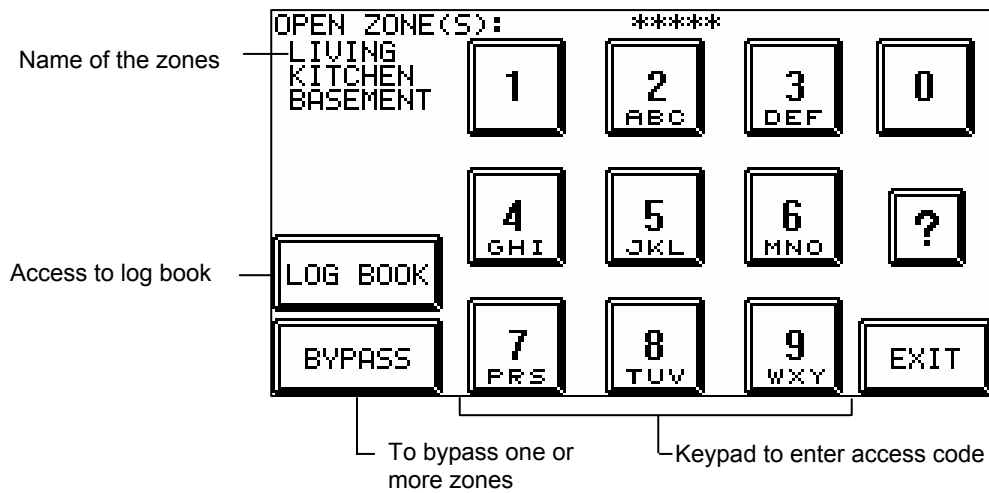
Security


Controls the arming and disarming of the alarm system.

From the main menu press

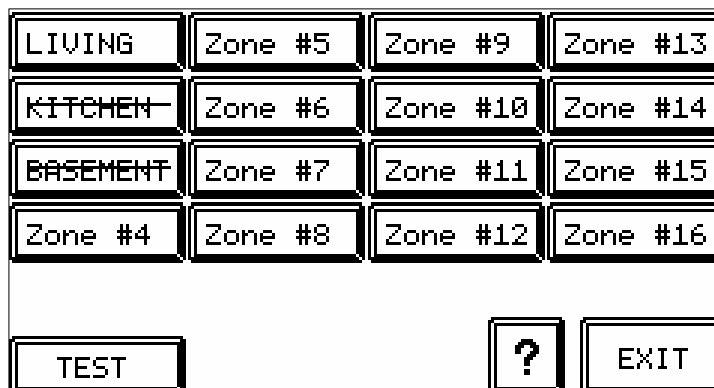


The following screen appears:




Press  to bypass zones if necessary.

The following screen appears



To bypass zones, simply press the zones to be ignored (these zones are now crossed out)

Press  to return to the preceding screen (zones are still crossed out)

To test the siren, press the  button, the siren will start for 3 seconds.

Make sure that all zones are ready to disarm except for bypassed zones. The system cannot be armed as long as zones are still open (open zones appears in left column). Once this column is blank the system is ready to be armed.

Use the keypad to enter the access code; * asterisks appear in the upper corner of the screen to validate each number entered. If the code utilized is not valid, the message "INVALID CODE OK" appears. Press OK, then re-enter the valid code.

A beep indicates that the alarm system has been armed (except for the bypassed zones). Exit the house within the time delay pre-programmed during installation.

To disarm the alarm system (a beep sounds for the duration of the entrance time delay) enter a valid access code. Another beep will sound and the message "SECURITY DISARMED" shows that the alarm system has been disarmed.

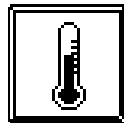
To disarm the alarm system, CARDIO automatically brings up the keypad shown on page 6, and waits for the valid access code to be entered. If the code is invalid, the message "CODE INVALID OK" appears. Press anywhere on the screen and re-enter the correct code.

NOTE: *It is strongly recommended to test the correct operation of the security system on a regular basis.*

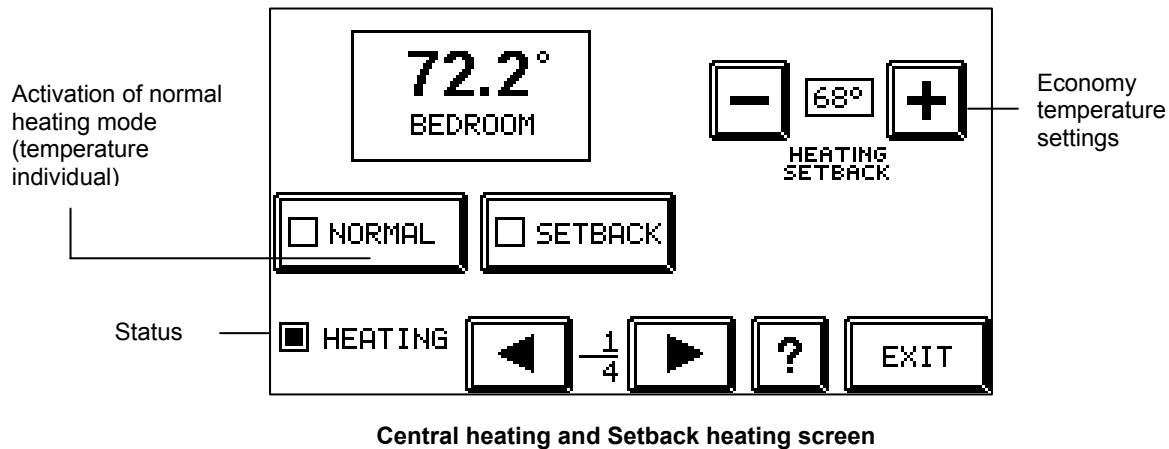
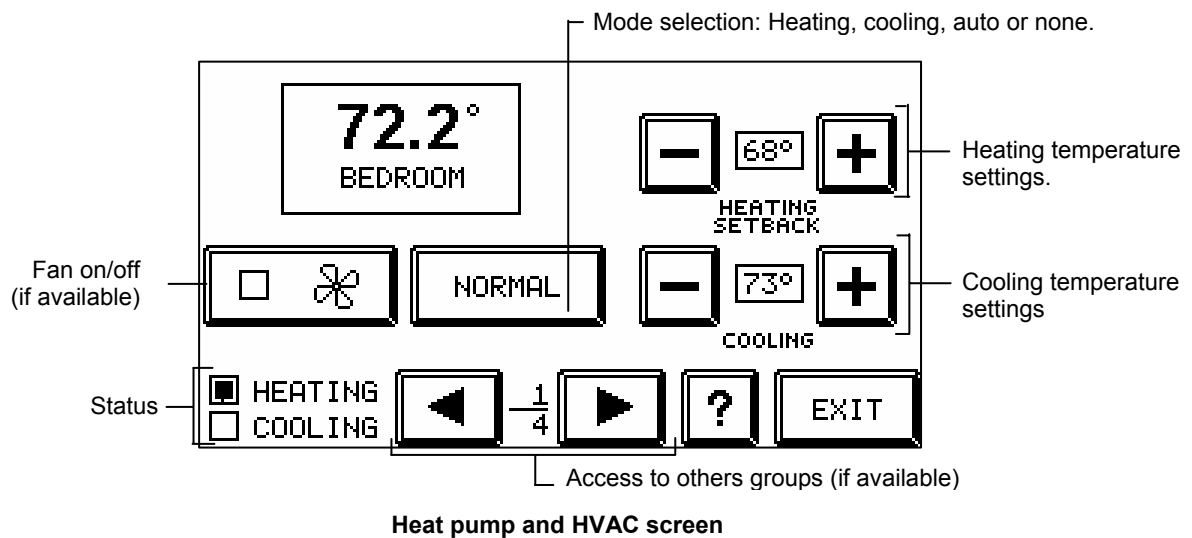
Temperature (Heating/Cooling)

This feature controls temperatures for heating and, if available, air-conditioning. Temperature readings are available either in Celsius or Fahrenheit (to be set in temperature configuration). CARDIO can also control various kinds of heating systems: heat pump, HVAC, HVAC setback, heating setback or central heating (to be defined at the time of installation).

From the main menu press



One of the following screens appears (depending of your hardware configuration)



NOTE: To obtain “economy” temperatures with a central heating system, use scenes (see next page).

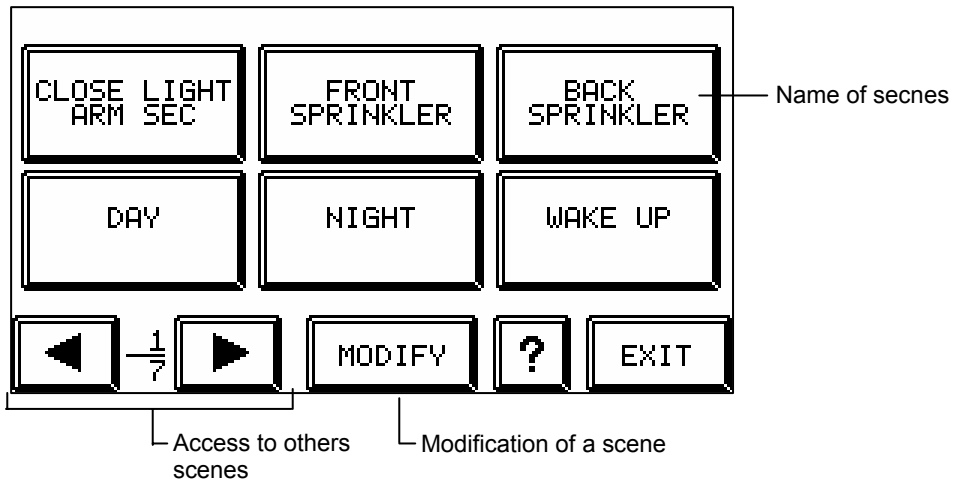
Scenes

CARDIO can control many functions at a time (lighting, alarm system, temperature, outlets, etc.). For instance, when leaving the house in the morning, simply press one button to arm the alarm system, lower the temperature, turn lights off, etc..

From the main menu press



The following screen appears:



Press any of the ten keys to obtain the desired scene.

NOTE: The last scene called up will always take priority over any previous scene. For the case where a scene includes alarm system information, refer to priority sequence, see **NOTE** p.11

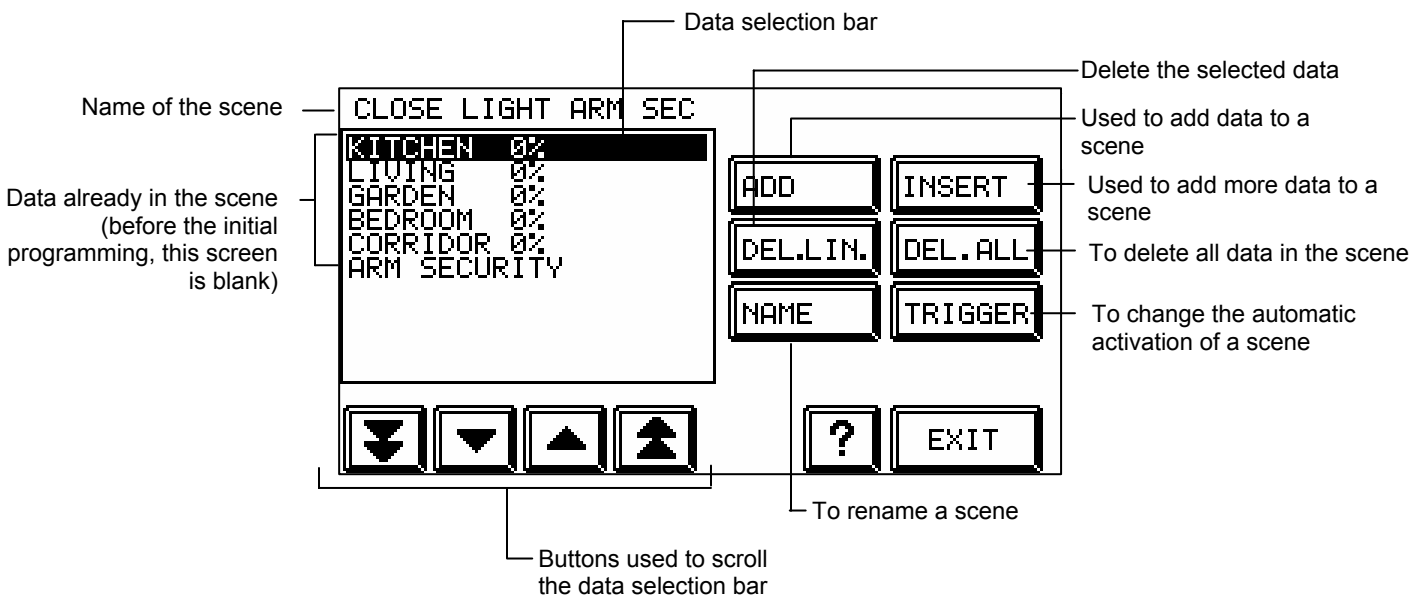
Modification of a scene.

Press MODIFY

The message "CHOOSE SCENE TO BE MODIFIED" appears.

Press the scene to be programmed or modified.


The following screen appears:

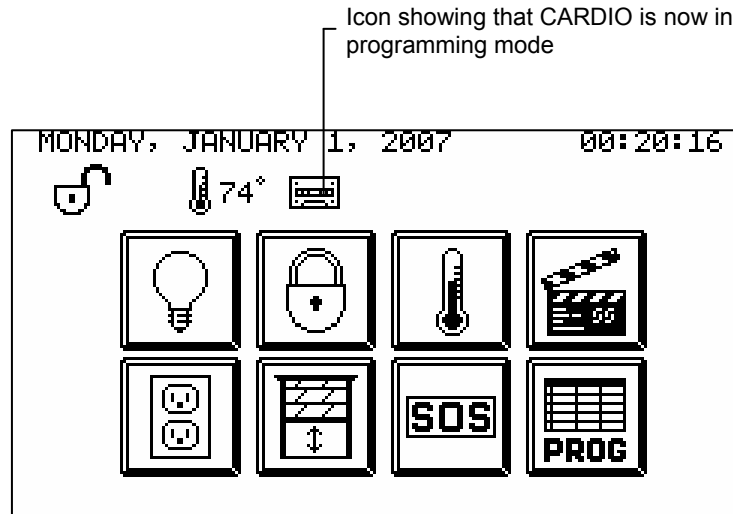


NOTE: Please note that the maximum lines of all programmed scenes cannot exceed 800.

How to add new data to an already programmed scene

Press 

The new screen which appears is identical to the main screen shown on page 4 except for the pictogram now appearing in the upper section of the screen. This sign  indicates that CARDIO is now in recording mode and no longer in 'direct control' mode.



From this screen, it is possible to program data relative to lighting, alarm system, heating/cooling, electrical outlets and functions (PROG functions yes-no)

NOTE: *If a scene includes alarm system commands, it will ask for an access code to be entered (except when using the quick arm code). At this time, if no code is entered, CARDIO will execute all commands programmed in this particular scene except those related to the alarm system.*

ATTENTION!: *When arming the alarm system only, it is possible to skip this step (entering an access code) if the access code entered while programming the scene was the 'quick arm code' (easy exit) see p.37. In this case only, when calling up this particular scene, commands will be executed instantly without asking for an access code to be entered.*

After a function has been programmed, press EXIT to return to the above screen and then press any other function to be recorded (alarm, etc.)

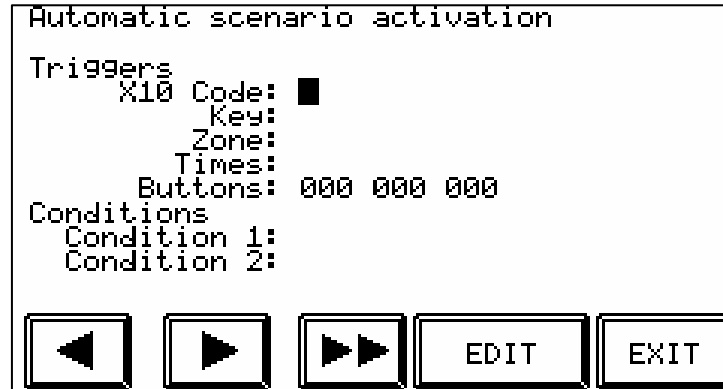
Once all data has been entered, press



Automatic activation of a scene

Press 

The following screen appears:

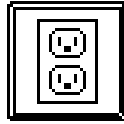


Besides the touch screen, a scene can be called up automatically by external sources such as a telephone or a button.

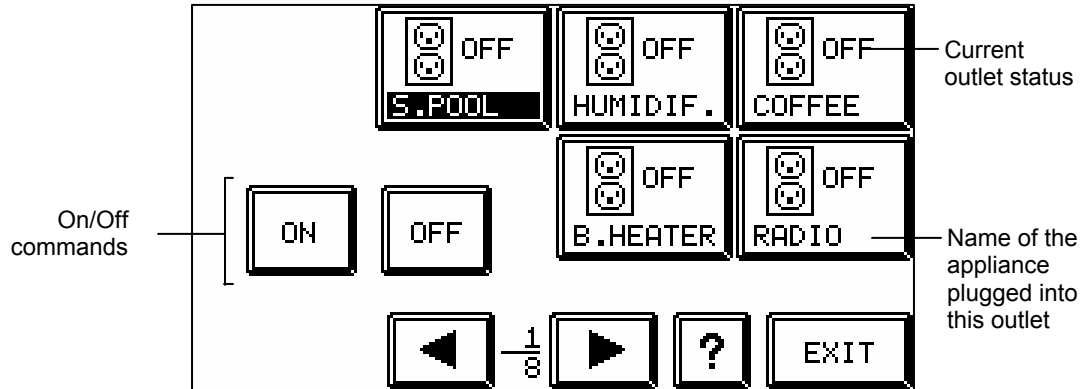
- **X10 code:** activation upon reception of a X10 code.
- **Key:** activation from an electronic key
- **Zone:** activation upon reception of an event related to the alarm system. Also includes the activation of the scene when the telephone rings (TE) or the doorbell rings (DB).
- **Time:** activation of the scene at a preset time or at sunrise and sunset.
- **Buttons:** activation of the scene with a keypad buttons (3 max.) connected on the SECANT EZC.
- **Conditions:** it is also possible to add conditions in regards to the automatic activation of a scene. The many conditions to choose from are: armed, disarmed, day, night, weekend, week, Sun, Mon, Tues, Wed, Thu, Fri or Sat.

Outlets / Appliances

From the main menu press



The following screen appears:



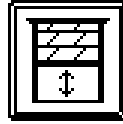
CARDIO can control appliances plugged into outlets previously identified in CARDIO (see configuring p.34). Please note that outlet control is limited to ON/OFF commands only.

NOTE: The relays of CARDIO RY1, RY2 and RY3 are respectively controlled by the buttons Outlet#1, Outlet#2 and Outlet#3 in the appliances screen.

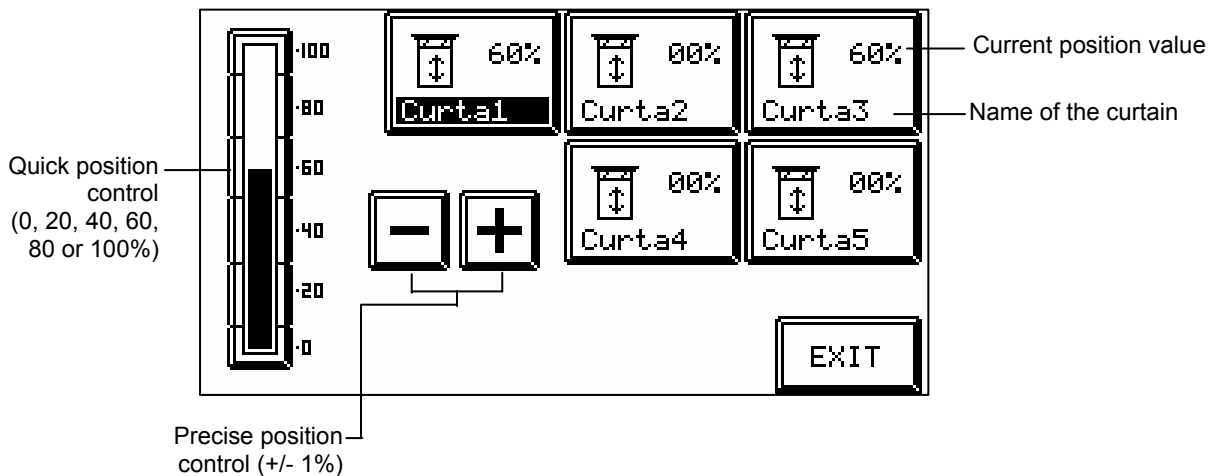
ATTENTION!: Under no circumstances can an outlet be dimmed without seriously damaging the appliance which is plugged into the outlet.

Curtain / shutter

From the main menu press



The following screen appears:



Modification of the position of a curtain:

Select a curtain, the name turns black. By default, curtain 1 is picked by the system (Curta1 in the above example).

The current position level appears both in the box (60%) and on the quick position column.

Press the quick position column to adjust the position to 80%.

Press 5 times on "+" to adjust the position to 85%.

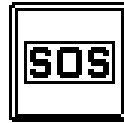
Position will adjust automatically in the column and in the box.

Repeat the above instructions to modify position of other curtain.

S.O.S

CARDIO can send out emergency calls in case of emergency. See “Control by telephone” section for more detail on these calls.

From the main menu press



The following screen appears:

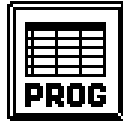


Press any pictogram to send out an emergency message (police, medical or fire).

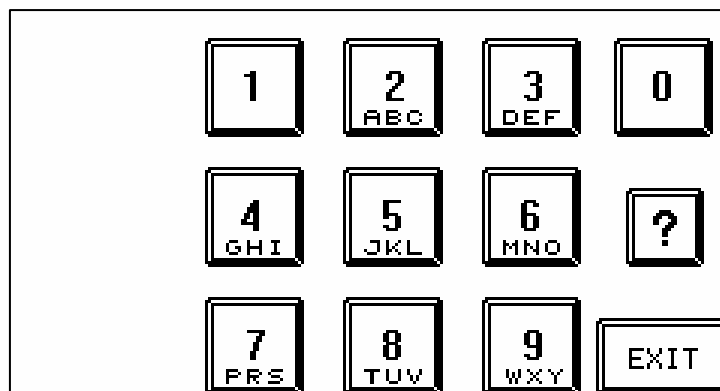
Programming

In addition to direct control of basic functions, the user is able to program all of these functions to respond automatically on a weekly basis. This section also gives information regarding modifications to the system configuration.

From the main menu press

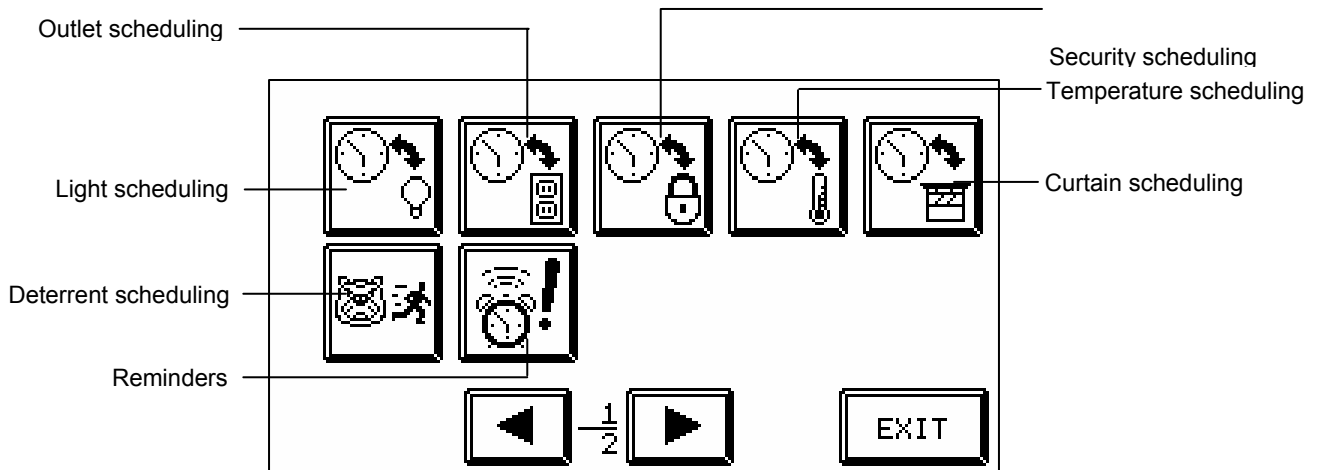


The following screen appears:

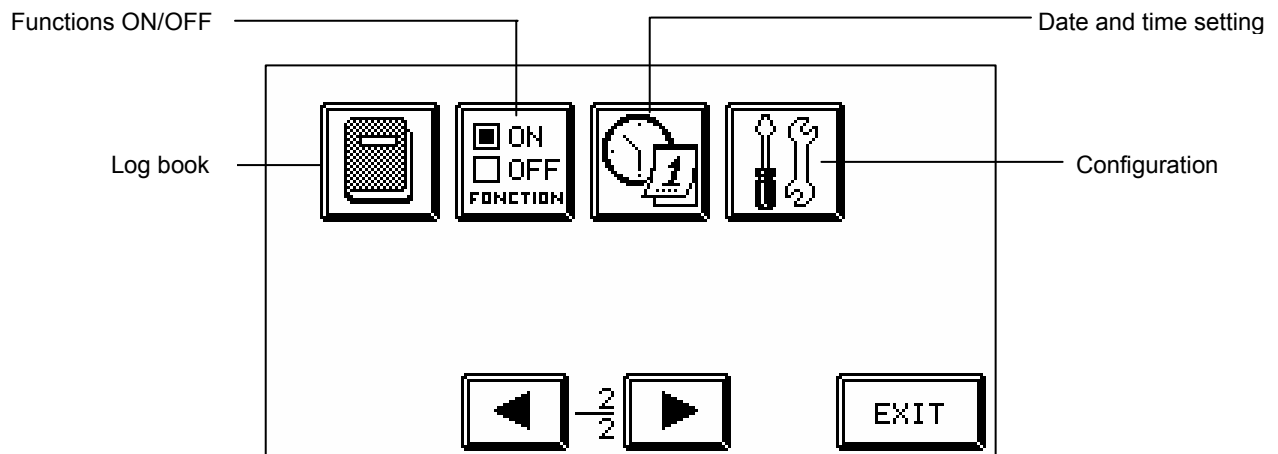


Enter the programming code that has been programmed in the section Configuration (p.37). The default code for the programming menu is 1111.

After a valid user code has been entered the following screens will appear:



PROGRAMMING MENU p.1

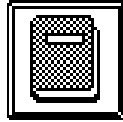


PROGRAMMING MENU p. 2

Log book

Indicates the last 100 events related to the alarm system (break-in, fire, medical, overheating, freezing, battery status, AC failure, access code).

From programming menu press



The following screen appears:

| DATE | TIME | EVENT |
|----------|----------|-------------------|
| 99/01/01 | 03:36:16 | Keypad fire alert |
| 99/01/01 | 03:35:44 | Disarming |
| 99/01/01 | 03:35:44 | Screen #1 |
| 99/01/01 | 03:35:36 | Arming |
| 99/01/01 | 03:35:36 | Screen #1 |

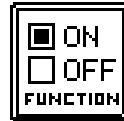
Date and time the event occurred
Description or the event

Scrolling arrows
▲
▼
?
EXIT

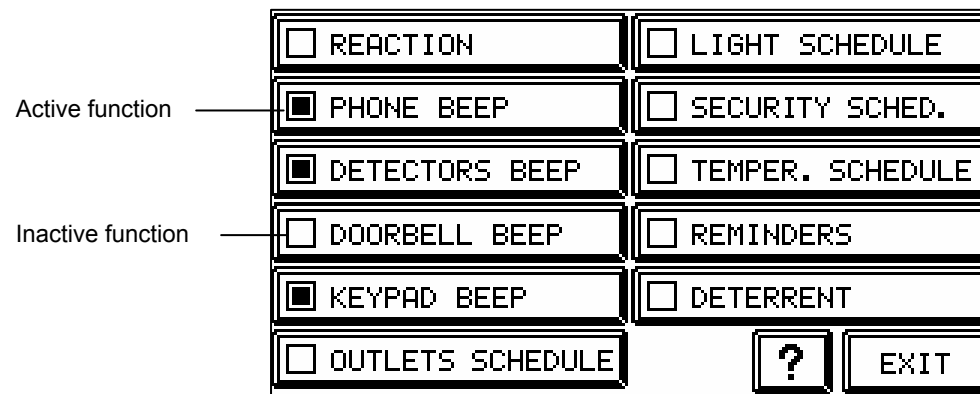
Functions (on/off)

CARDIO allows the user to temporarily deactivate any programmed functions without erasing the programming itself, and to reactivate them just as easily.

From programming menu press



The following screen appears:



- **Reaction:** Temporarily deactivate the reactions (bonds between the detectors and lighting see p.33)
- **Telephone beep:** Determines whether the system beeps when the phone rings
- **Detector beep:** Determines whether the system beeps when a security sensor is triggered.
- **Doorbell:** Determines whether the system beeps when the doorbell rings
- **Keypad beep:** Determines whether a beep sounds during the exit delay.
- **Appliance scheduling:** Determines whether appliance schedules are active or not (see p.24)
- **Light scheduling:** Determines whether light schedules are active or not (see p.22)
- **Security scheduling:** Determines whether security schedules are active or not (see p.25)
- **Temperature scheduling:** Determines whether temperature schedules are active or not (see p.26)
- **Reminder:** Determines whether reminder schedules are active or not (see p.30)
- **Deterrent:** Determines whether dissuasion schedules are active or not (see p.28)

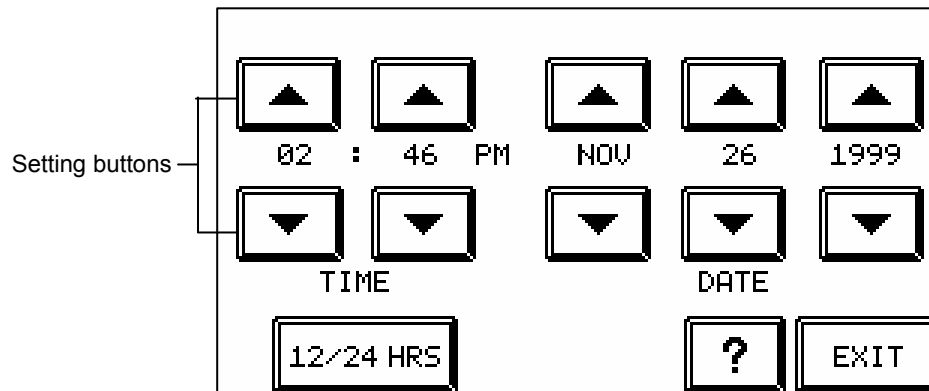
Date and time

Adjustment of date and time settings. It is very important that both the time and date be set correctly because all schedules depend on these data. It is worth noting that CARDIO uses either a 12 or 24 hr basis.

From programming menu press

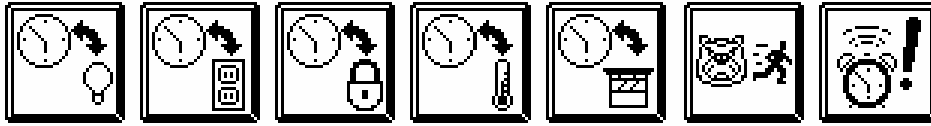


The following screen appears:



Set the time on 12 or
24 hr. basis

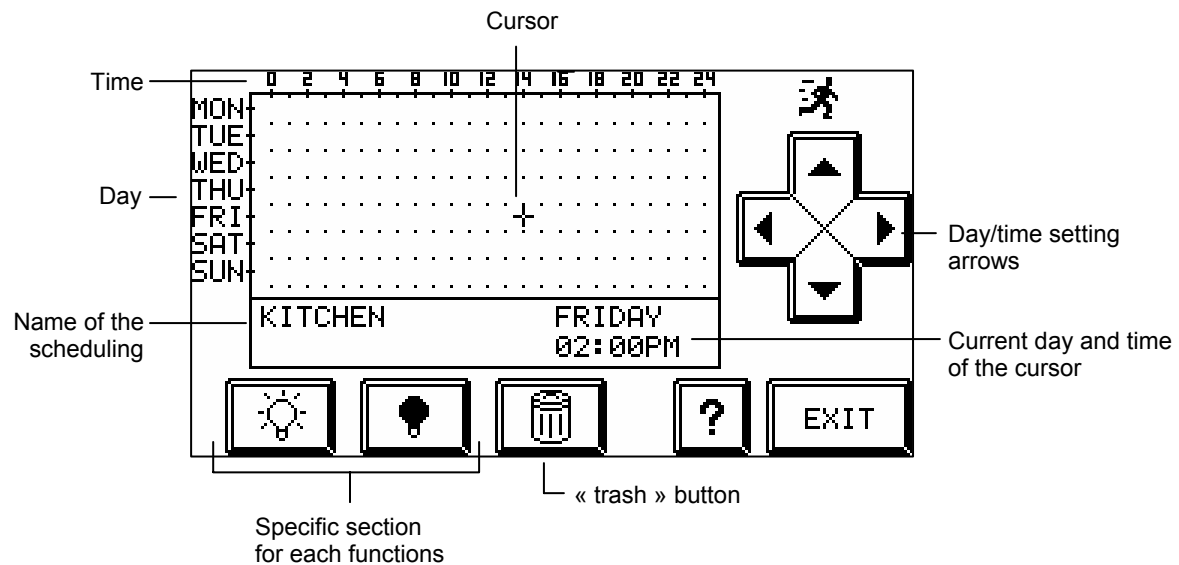
Scheduling



How to schedule

CARDIO allows the scheduling of certain functions such as deterrent reminders, in addition to those main functions which can be controlled directly.

The scheduling process is the same for all the CARDIO functions. Only the lower part of scheduling screen will be specific to each function. It is based on the following screen:



At the start the cursor is always positioned at Monday 00:00.

Use day and time arrows to adjust the cursor to the chosen day and time. It is possible to accelerate this process by pressing the screen as close as possible to the desired day/time: the cursor will move to this position. Then, use the arrows to adjust the cursor exactly.

It is easy to delete any programmed schedule. Simply position the cursor on the icon and press the "trash" button.

NOTE: The time is adjusted in increments of 10 minutes.

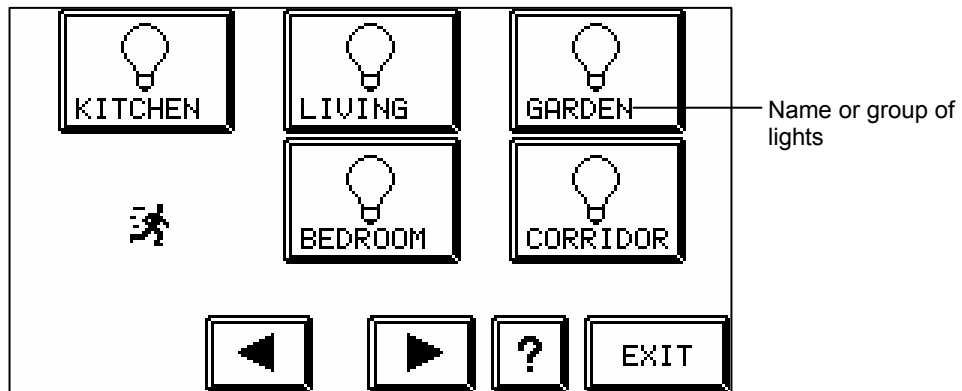
ATTENTION!: For all scheduling, it is important to check the programming over the course of the entire week. CARDIO will always give the most recently programmed schedule (unless reactions or direct commands have occurred in the interim). For instance, if a command asks for a temperature of 65°F (18°C) on Monday morning at 8 a.m. (8:00) and another of 70°F (21°C) the same day at 5 p.m. (17:00), the temperature will be 70°F (21°C) from Monday 5 p.m. until the following Monday at 8 a.m. and so on.

Light scheduling

From programming menu press

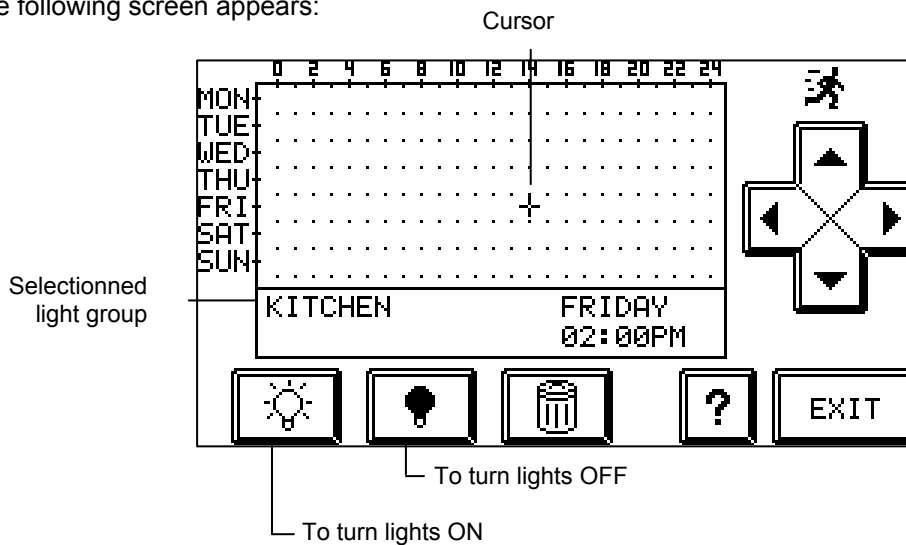



The following screen appears:



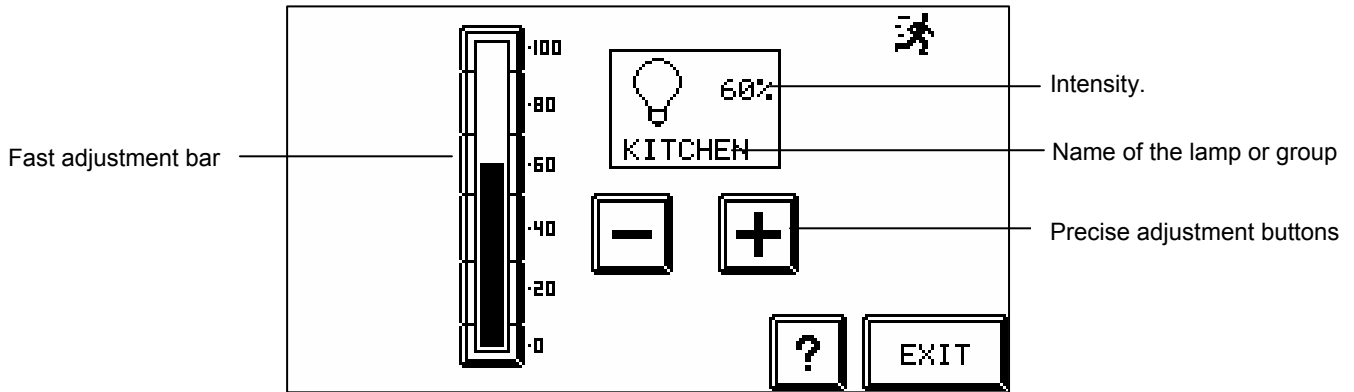
Choose a group of lights


The following screen appears:



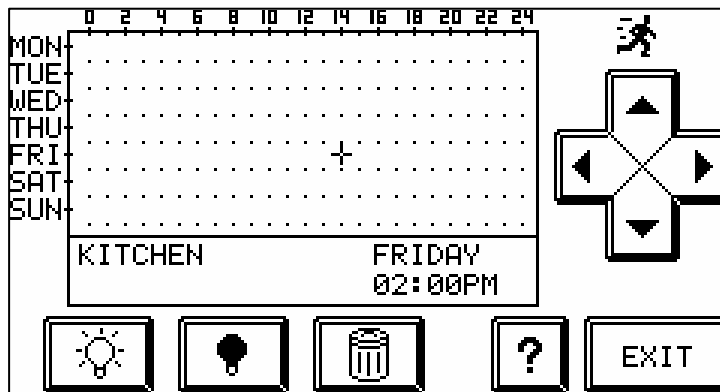
Position the cursor at the desired time and press  to modify the intensity of the lights.

The following screen appears:





Adjust lights to the desired intensity and press. 

If desired, place the cursor to a new time setting and repeat the process to set another schedule.



You can also press  to turn the group of lights OFF.

To delete any programmed schedule, simply position the cursor on the right time schedule icon and press the  button.

Press  to pick another group of lights and repeat the process if desired.

NOTE: Also note that lights can be turned ON and OFF according to sunrise/sunset (see p.33).

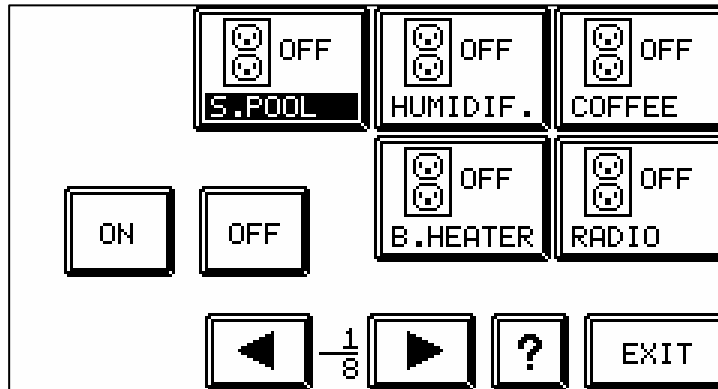
Outlets scheduling

CARDIO can also schedule outlets to be turned ON and OFF.

From programming menu press

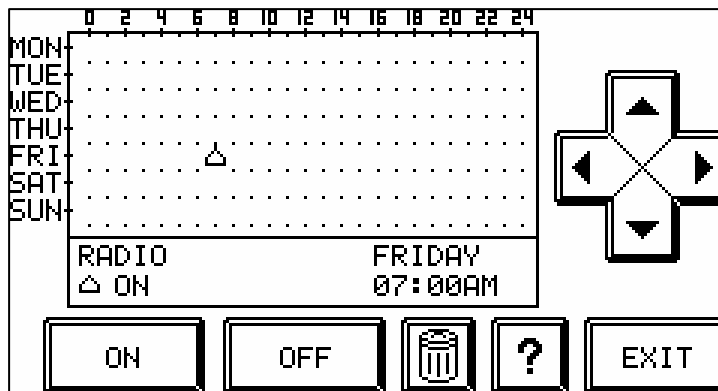


The following screen appears:



Pick the outlet to be scheduled.

The following screen appears:



└ Appliances scheduling OFF

└ Appliances scheduling On

Position the cursor at the right time.

Press On or OFF to activate or deactivate the outlet.

If desired, repeat the process to program other schedules.

NOTE: Scheduling of an outlet can also be activated according to sunrise/sunset (see p.34)

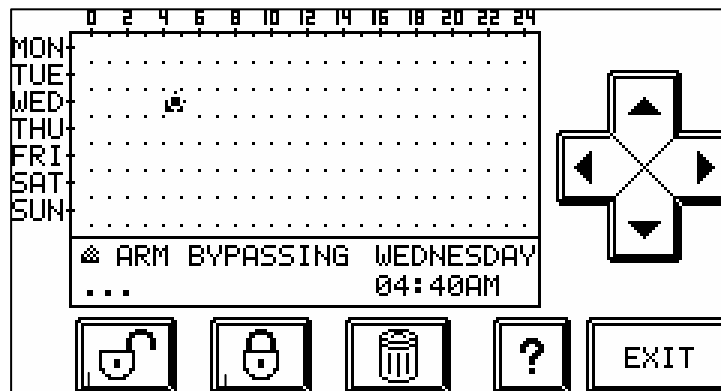
Alarm system scheduling

CARDIO can arm and disarm the alarm system according to previously set days and time.

From programming menu press



The following screen appears:



To disarm the alarm system

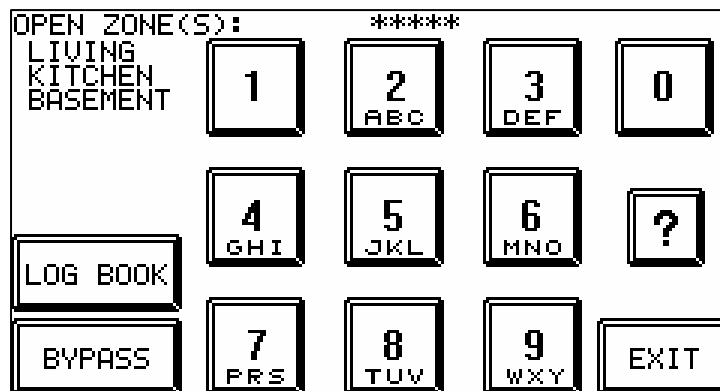
To arm the alarm system

Position the cursor at the right time

Press



The following screen appears:




During programming, CARDIO always requires a password to validate arming (bypass) or disarming of the system. Refer to the section "Security" in (p.6) to ignore zones if necessary.

Particularity

When programming the **disarming** of the alarm system, the screen, which appears, does not include zones. Enter an access code.

When programming the **arming** of the alarm system, zones will not appear. Press Bypass to ignore zones. Then press EXIT and enter either an access code or the quick arm code (easy exit).

If at the time scheduled to arm the alarm system, one or many zones are not ready (open doors or windows, etc.), CARDIO will arm all zones ready to be armed and will ignore those that are not.

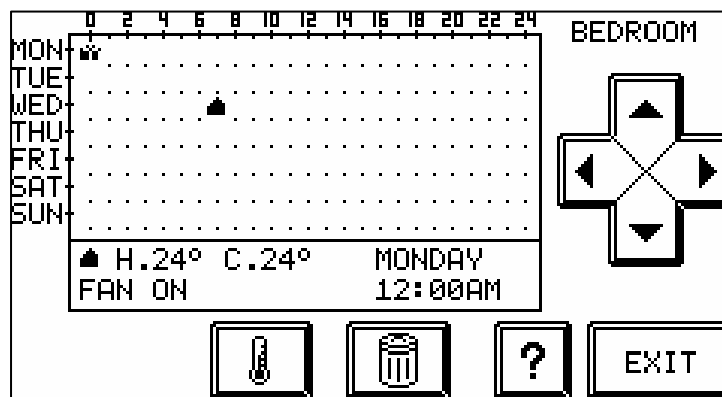
Press  and program a new schedule if desired.

Temperature scheduling

From programming menu press



The following screen appears:



Position the cursor at the right time

See section "Temperature" (p.8) to adjust properly the temperature according to your heating/cooling system.

ATTENTION!: *CARDIO allows certain functions (lighting, security, heating, etc.) to be controlled directly, through scenes or via programming (of schedule). In order to avoid any conflict, the last command executed always takes priority over any previous ones, whether they are manual (direct or scene) or automatic (scheduling).*

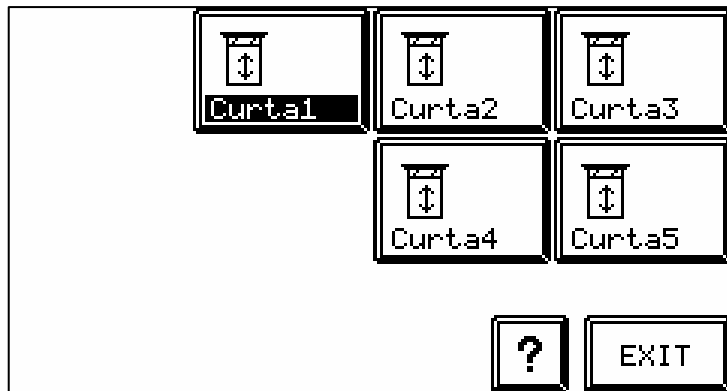
Curtain scheduling

CARDIO can also schedule curtain to be turned up and down.

From programming menu press

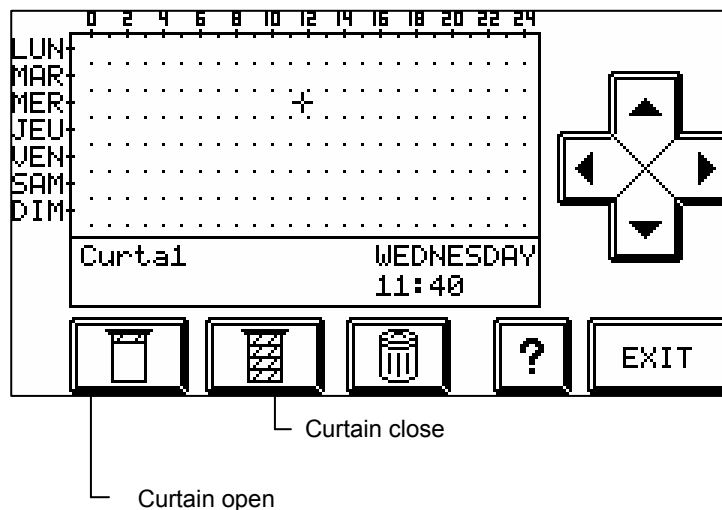


The following screen appears:



Pick the curtain to be scheduled

The following screen appears:



Position the cursor at the right time

Press the icon "open" or "close" to schedule the proper curtain operation.

If desired, repeat the process to program other curtains schedules.

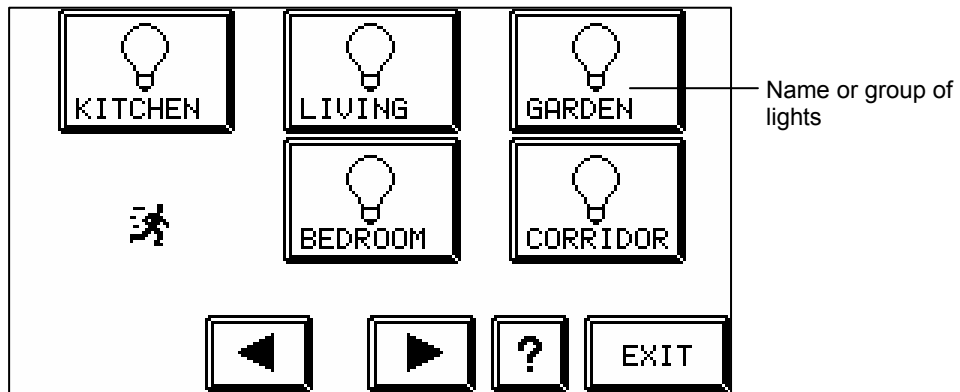
Deterrent scheduling

CARDIO can simulate a presence in the home when the alarm system is armed. It turns ON and OFF lights at scheduled times so as to make the house seem occupied from the outside.

From programming menu press

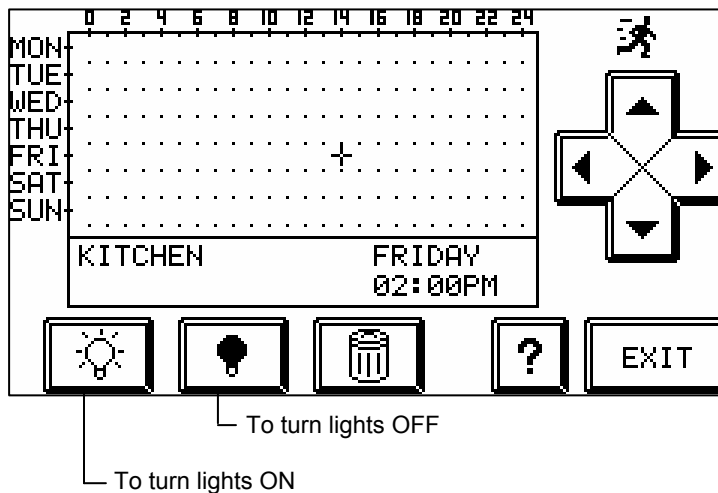


The following screen appears:



Choose a group of lights

The following screen appears:

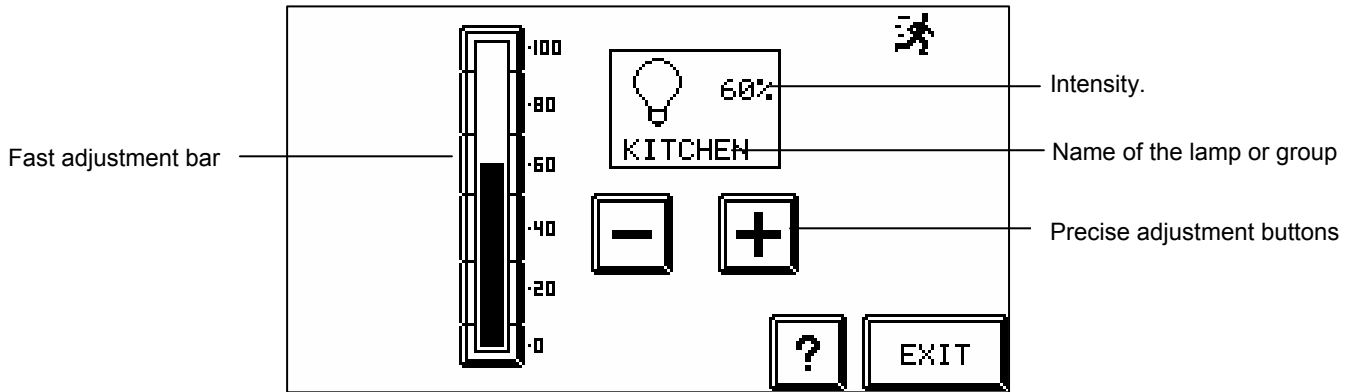


Position the cursor at the right time

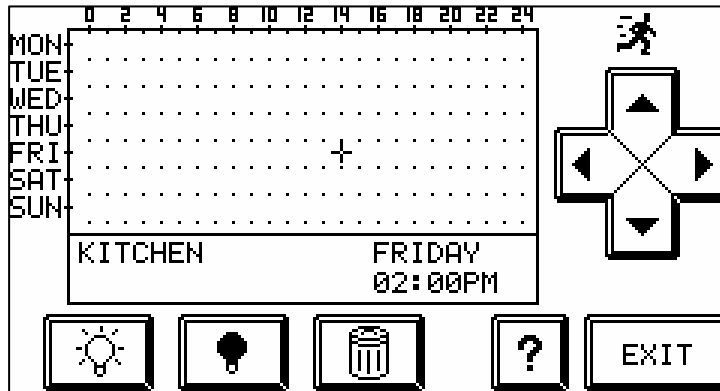
Press




The following screen appears:





Adjust lights to the desired intensity and press



If desired, adjust the cursor to a new time setting

Press  to modify the intensity and to repeat the process

Press  to turn the group of lights OFF

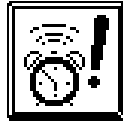
Press  and pick another group of lights and repeat the process.

NOTE: For all deterrent schedules, lights are turned ON or OFF within a random delay previously set. Also note that lights can be turned ON and OFF according to sunrise/sunset (see configuration p.33).

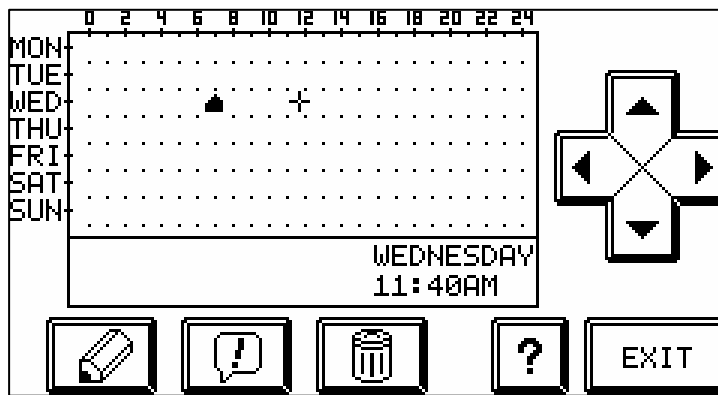
Reminders

Just as an alarm clock, CARDIO can signal (with beeps) a variety of events at specific times. It also can call up on the screen a short description (up to 10 reminders for the week) which the user will have entered previously.

From programming menu press



The following screen appears:



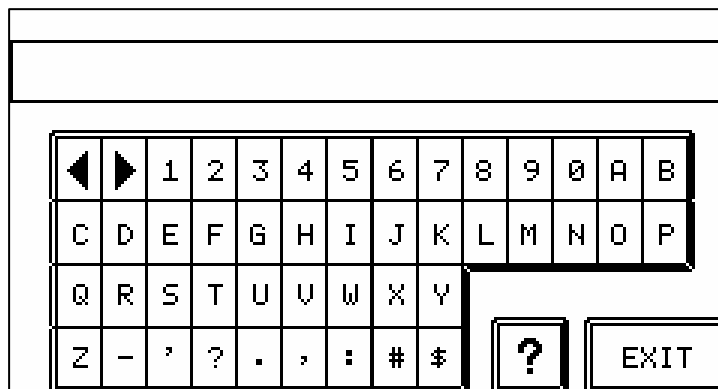
For audible reminders only, simply position the cursor at the right time and press



To get both audible and written reminders, position the cursor at the right time and press



The following screen appears:

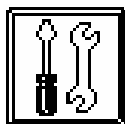


Press successively on any key to get the desired letter or number. Then move the cursor to the next blank spot using arrows and repeat the process.

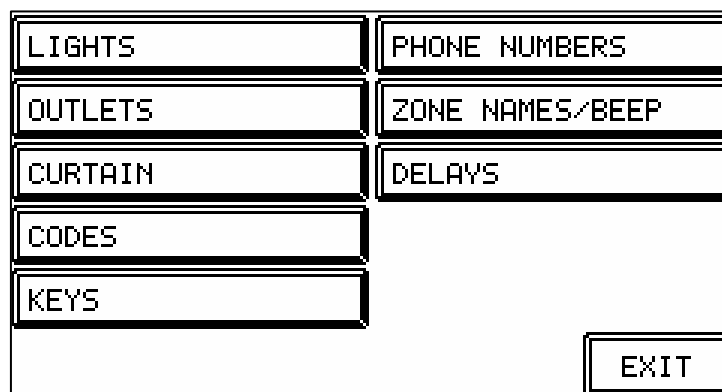
Configuration

The configuration menu that can be accessed from the programming menu, let the user adjust and modify some data regarding lights, outlets, telephone, and security.

From the programming menu, press



The following screen appears:



CONFIGURATION MENU


Configuration method

The programming method is identical for all functions to be configured.

See below an outline of the different procedures that will be needed in the configuration section.

Help

In all the screens offered by CARDIO, a key HELP indicates the goal of each table and briefly explains the process of them.

Press  to obtain help on the current function.

To return to the previous screen, press



Moves

Arrows to move the cursor (black triangle) forward or backward



Quick move arrow (forward only)




Modification of a data


To change a status (yes/no);

Press successively  until obtaining the desired status

Press  when you have finish.

To compose or modify text;

To enter text (name, etc.): press  and enter text with the keyboard that appears on the screen.

Press  to come back to the initial screen.

To modify a number;

Press successively  until obtaining the desired number

Press  to reach the following unit and reiterating the process.

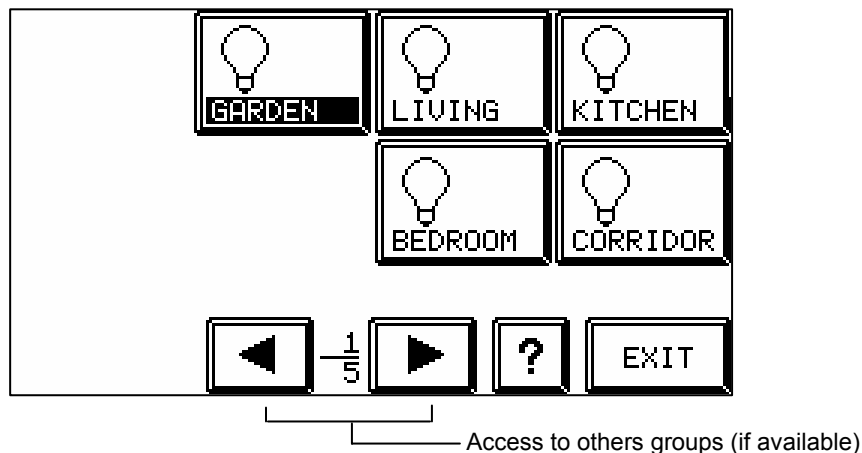
Press  when you have finish.

Light configuration

Used to name and configure groups of lights.

From configuration menu, press "LIGHTS" button.

The following screen appears:



Press the group of lights to be modified (at start the name are #1,2,3,4 et 5).

The following screen appears:



- **X10:** Enter the X-10 code to be attached to the light
- **NAME:** Press EDIT and enter name of light
- **Fade in, fade out (yes/no):** When changing intensity, variation will be progressive.
- **Doorbell flashing (yes/no):** Determines whether a light (or group) will flash 5 times when someone rings the doorbell.
- **Phone flashing (yes/no):** Determines whether a light will flash when the telephone rings.
- **Intrusion flashing (yes/no):** Will this light flash (5 minutes) when an intrusion is detected.

- **Sunset/sunrise reaction (yes/no):** Allows to control groups of lightings according to sunset/sunrise.

By entering YES in this section, this light or group of lights will be turned ON and OFF automatically at sunset and sunrise respectively. To turn off the light or outlet before dawn, simply, use a schedule (OFF) at the chosen time, 11 p.m for instance

NOTE: adjustment is made according to theoretical sunrise sunset for the given day. CARDIO will never adjust lights and outlets according to the weather (cloud cover)

- **Random delay for deterrent:** When these lights are used in the deterrent function, it is possible to turn them on within a random time period (0..99 minutes).

Example: turn on at 10 PM, at 65% brightness with a random delay of 6 minutes. This light (or group) will automatically turn on at 65% brightness between 10 PM and 10:06 PM.

- **Reaction:** When an alarm system detector (motion, contact) is not in use, it is possible to use the detector to activate light(s) and outlet(s) during a preset delay (0..99 minutes), at the desired intensity (ONN OFF only for outlets) and within a preset time period.

For instance, activate the group LOBBY from the Entrance detector (zone 1) at 100% for 10 minutes from 4 p.m. and 8 a.m the following morning

Zone number: 1

Period 4:00 p.m. to 8:00 a.m.

Dim 100%

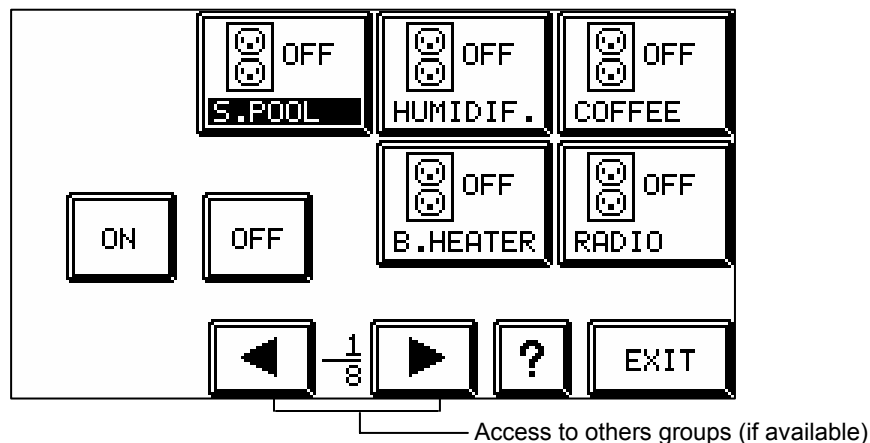
Duration: 10 minutes

Outlet configuration

Used to name and configure outlets.

From configuration menu, press “OUTLETS” button.

The following screen appears:



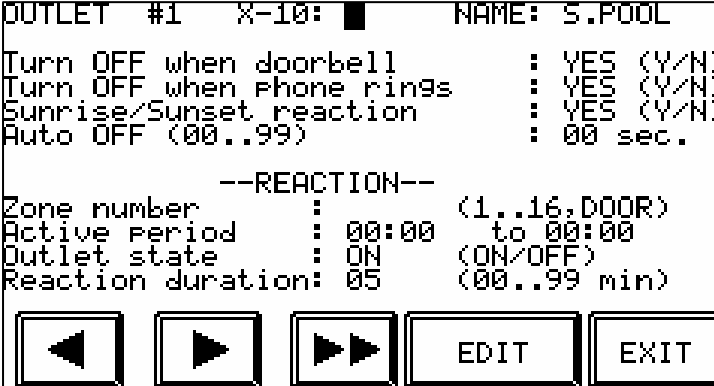
Press outlet group to configure.

The following screen appears:

```

OUTLET #1 X-10: NAME: S.POOL
Turn OFF when doorbell : YES (Y/N)
Turn OFF when phone rings : YES (Y/N)
Sunrise/Sunset reaction : YES (Y/N)
Auto OFF (00..99) : 00 sec.

--REACTION--
Zone number : (1..16,DOOR)
Active period : 00:00 to 00:00
Outlet state : ON (ON/OFF)
Reaction duration: 05 (00..99 min)
  
```



- **X-10:** Enter the X-10 code to be attached to the outlet
- **NAME:** Press EDIT and enter name of outlet. The name of the outlet is very often the name of the appliance to which it is linked.
- **Turn OFF when doorbell (yes/no):** To turn OFF the outlet when the doorbell rings
- **Turn OFF when phone rings (yes/no):** To turn OFF the outlet when the telephone rings.
- **Sunrise/sunset reaction (yes/no):** .it is possible to schedule outlets according to daylight (dark, bright). To turn off outlets before dawn, simply program a schedule

***NOTE:** Adjustment is made according to the theoretical sunset sunrise times. CARDIO will never adjust outlets according to the weather (cloud cover).*

- **Auto off (0..99 sec.):** To simulate a momentary contact (ex.: to activate an electrical door strike).
- **Reaction:** When an alarm detector (motion, contact) is not in use, it is possible to use this detector to activate outlets during a preset delay (0..99 minutes)

For instance, activate the group LOBBY from the Entrance detector (zone 1) for 10 minutes between 4 p.m. and 8 a.m. the following morning

Zone number: 1

Period: 4 p.m. to 8:00 a.m.

Outlet state: ON

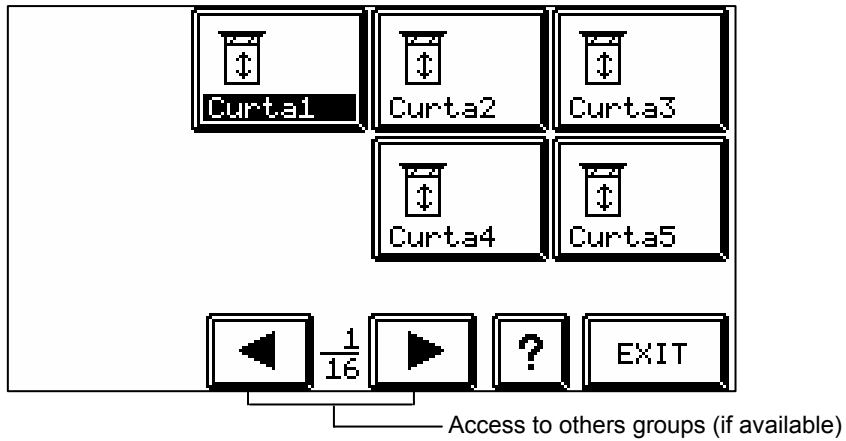
Duration: 10 minutes

Curtain configuration

Used to name and configure curtain.

From configuration menu, press "CURTAIN" button.

The following screen appears:



Press the curtain to be configured.

The following screen appears:



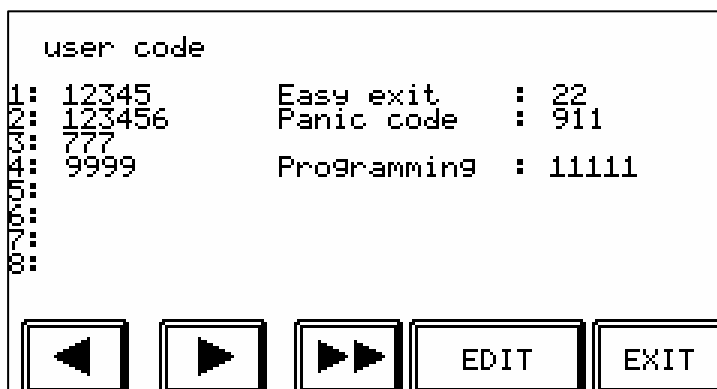
- **NAME:** Press EDIT and enter name of curtain.

Codes configuration

Used to name and configure security zones as well as to enter various access codes.

From configuration menu, press “CODES” button.

The following screen appears:



- **Code (1 to 8):** Enter here the access codes used to arm and disarm the alarm system.
- **Easy exit:** Code used to arm the alarm system when exiting only. **This code is absolutely not valid for disarming the alarm system.**
- **Panic code:** To disarm the alarm system and send out a silent emergency call at the same time.
- **Programming code:** Used to obtain access to the programming menu. The default code is 11111.

***NOTE:** The default installer user code (entry level) is 11111 but it can be modified (see p.37). Once this code is modified and if forgotten, the user will have to call the installer (advanced user) who will use the installer programming code to have access to the advance configuration menu and then retrieve the user's code.*

***ATTENTION!:** For all security codes (user, easy and panic) to be different, make sure that no code is the first digits of a bigger one. CARDIO will allow arming/disarming the security as soon as digits entered match one of the user codes. Ex: codes 12 and 123456 have been entered as valid user codes for two different users. When the user associated with code 123456 tries to arm/disarm, CARDIO will validate as soon as digits 12 is entered and will think that the user is the one associated with code 12.*

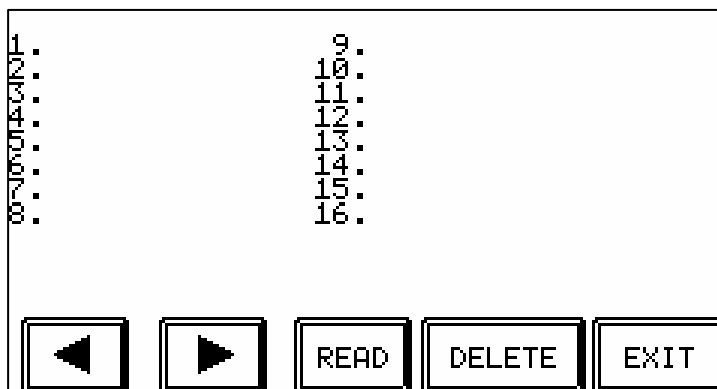
***!WARNING!:** We strongly recommend to personalize both user's and installer's codes. For security reasons, do not use default codes.*

Digital keys configuration

Allows the configuration of the electronic keys.

From configuration menu, press “KEYS” button.

The following screen appears:



To declare a digital key, use arrows to position the prompt on a blank spot (1 to 16) and press READ. Then apply the new key on any “digital key switch” and its code will automatically be recorded. To delete a key, position the cursor on the right spot (1 to 16) and press DELETE.

Delays configuration

To set exit and entry delays when arming and disarming the security system.

From configuration menu, press “DELAYS” button.

The following screen appears:



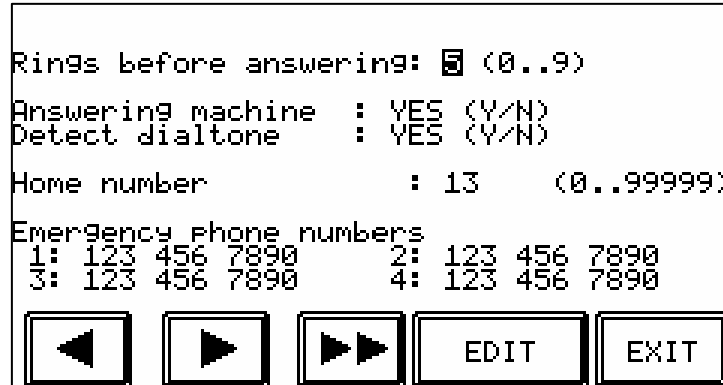
Exit delays can be different for digital key readers than for keypads. Enter entry delays for each security zone.

Telephone configuration

Used to configure the control of CARDIO by telephone from anywhere outside the home. Also used for programming numbers for emergency calls.

From configuration menu, press "TELEPHONE" button.

The following screen appears:



- **Rings before answering (0..9):** Used mostly when an answering machine is plugged into the same telephone line as CARDIO. In this case, always adjust the number of rings before CARDIO answers to a higher number than that of the answering machine. To contact CARDIO by phone from outside the home, call and let the telephone ring once or twice and hang up before the answering machine can take the line. Within the following 60 seconds, call again and CARDIO will then automatically have priority over the answering machine. If someone else calls within this delay and before the user does, this person will then be connected to CARDIO but will not be able to enter the proper code and will therefore be denied access to the system
- **Answering machine (yes/no):** When an answering machine (or any other appliance) is plugged into the same line as CARDIO.
- **Home number:** Used to identify the home when CARDIO calls outside to emergency numbers.
- **Emergency numbers:** Enter the four numbers (family, neighbors, friends) to be called in case of an emergency.

NOTE: It is possible to insert a blank between numbers (for telephone numbers only)

For instance 4161234567 and 416 123 4567 are two identical telephone numbers for CARDIO. A blank indicates that there is a 2-second delay between the numbers preceding and following the blank.

A pictogram telephone will appear in the screen on page 3 to indicate that CARDIO's telephone line is not plugged or that the line is already in use for a normal telephone call.

ATTENTION!: Inserting a blank in any number other than a telephone number will automatically delete all numbers following the blank,

Zone names/beep configuration

Used to name security zones

From configuration menu, press "ZONE NAMES/BEEP" button.

The following screen appears:

| zone name | "BEEP" | zone name | "BEEP" |
|-------------|--------|--------------|--------|
| 1: LIVING | YES | 9: Zone #9 | NO |
| 2: KITCHEN | NO | 10: Zone #10 | NO |
| 3: BASEMENT | YES | 11: Zone #11 | NO |
| 4: Zone #4 | NO | 12: Zone #12 | NO |
| 5: Zone #5 | NO | 13: Zone #13 | NO |
| 6: Zone #6 | NO | 14: Zone #14 | NO |
| 7: Zone #7 | NO | 15: Zone #15 | NO |
| 8: Zone #8 | NO | 16: SMOKE | NO |

Navigation buttons: Left arrow, Right arrow, Double Right arrow, EDIT, EXIT

- **NAME (1 to 16):** Name of the zone.
- **BEEP (yes/no):** Beep when a detector is triggered no matter the alarm system being ON or OFF.

Control by telephone

In addition to the ease of use offered by CARDIO's touch screen, the system can also be controlled by a simple telephone call from either inside or outside the home (touch-tone and can be cordless). In either case, control by telephone allows access to direct commands (alarm system, temperature, lighting, outlets, and scenes).

ATTENTION!: *Under no circumstances is it possible to change CARDIO's programming by telephone. It is recommended that a RJ45 (CA38A in Canada) digital communicator modular jack be installed to send messages out in case of an emergency. It is imperative to install this type of jack for telephone control from inside the house.*

Access from inside the home

Go off-hook and press # on the keypad within 5 seconds to obtain access to CARDIO (any longer delay will necessitate hanging up, and starting again).

CARDIO requires no access code except when modifying the alarm system (arming/disarming). A digitized human voice guides the user through the various functions that can be modified. (refer to the telephone operation diagram found on page 42)

Access from outside the home

Just as it is possible to control CARDIO from a telephone located inside the house, it is also possible to execute the same commands from outside the home. The procedure is exactly the same as the one described above, with the only difference being that CARDIO requires a valid access code. Three invalid access codes can be entered before CARDIO will automatically hang up. (refer to the telephone operation diagram found on page 42)

When arming or disarming the alarm system, CARDIO will request a valid access code.

Emergency Calls

CARDIO can send emergency calls (fire, break-in, medical emergency etc.) either to a monitoring station or to people whose telephone numbers have been previously entered in the system. Emergency calls are clearly identified by the digitized voice. It is also possible to send both types of calls (monitoring and emergency numbers).

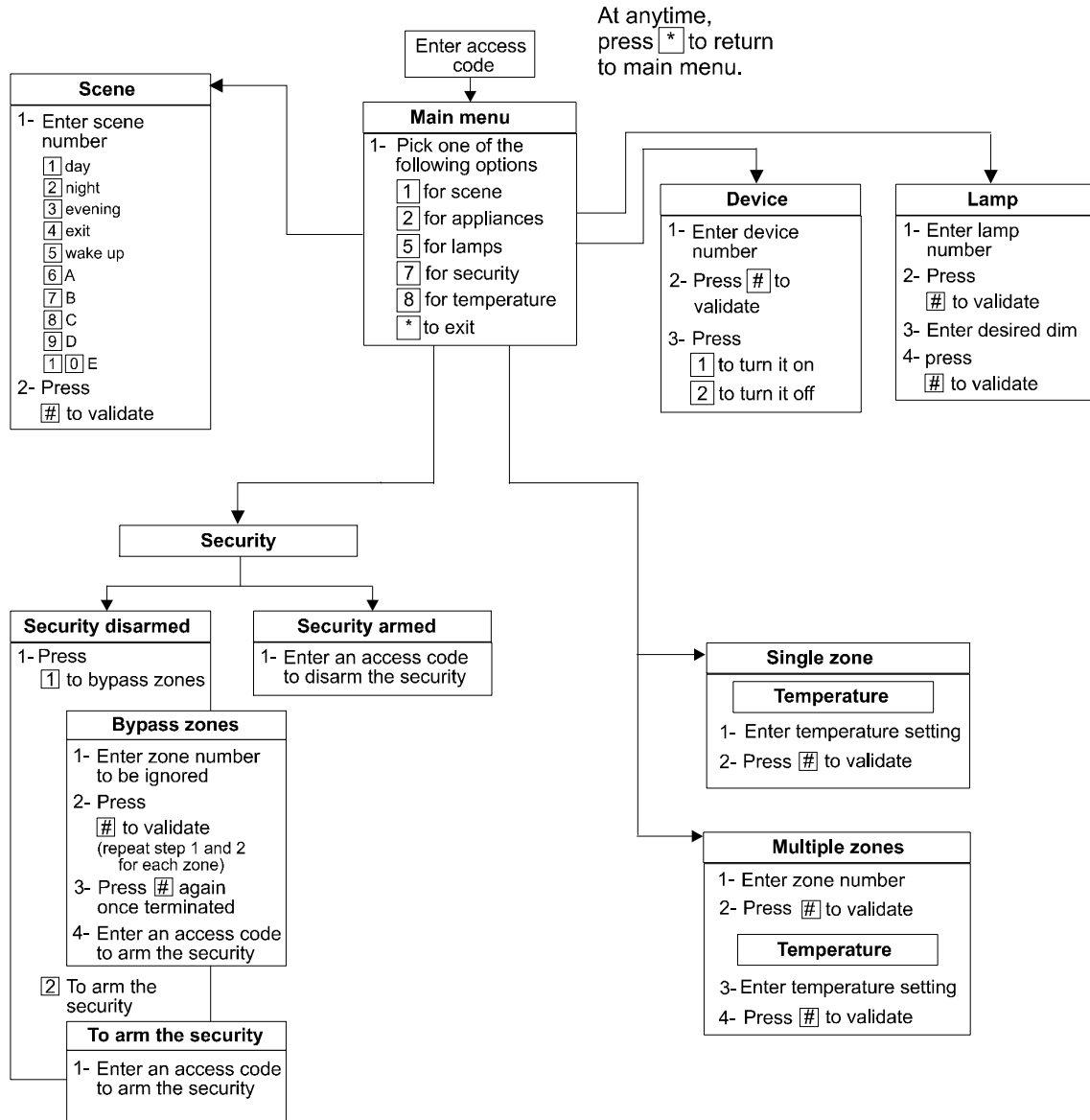
Monitoring only: CARDIO calls up the first number. If busy, it will call up the second number (if available) and so on for a total of 8 calls..

Emergency numbers only: CARDIO calls up the first number. If it is busy or there is no answer, it will dial the second number and so on until all 4 numbers have been called.

Monitoring station and emergency numbers: Monitoring and emergency numbers: CARDIO calls up the monitoring station first. If there is no answer after 4 consecutive calls, it will call the first emergency number and will stop after a total of 8 calls. If the monitoring station answers as expected, the system will call the first emergency number after a 5-minute delay in order to give the monitoring station enough time to call back the user.

When calling an emergency number, CARDIO asks the person who answers the phone to validate the call by pressing 7 (S) on the telephone keypad. It is only after this validation has been received that CARDIO will give the description of the emergency. If there is nobody to answer (or only an answering machine) or if the line is busy, the system will skip to the next number and so on for a overall total of 8 calls.

Telephone operation diagram



Recommendations and maintenance

Here a list of functions and appliances that must be checked in order to secure an optimal operation of the system CARDIO.

- ✓ Check phone jack when CARDIO's telephone functions do not seem to be working properly.
- ✓ Check breaker and battery if no screens appear.
- ✓ Check battery at least once a year.
- ✓ Check smoke detectors at least once a year.
- ✓ Test the security system once a week.

!WARNING!: Do not use CARDIO as low temperature detector. Use mechanical device for this purpose.

Industry Canada warnings

The Industry Canada Label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

!WARNING!: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Number of all the devices does not exceed 5.

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CARDIO 2e User Manual

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