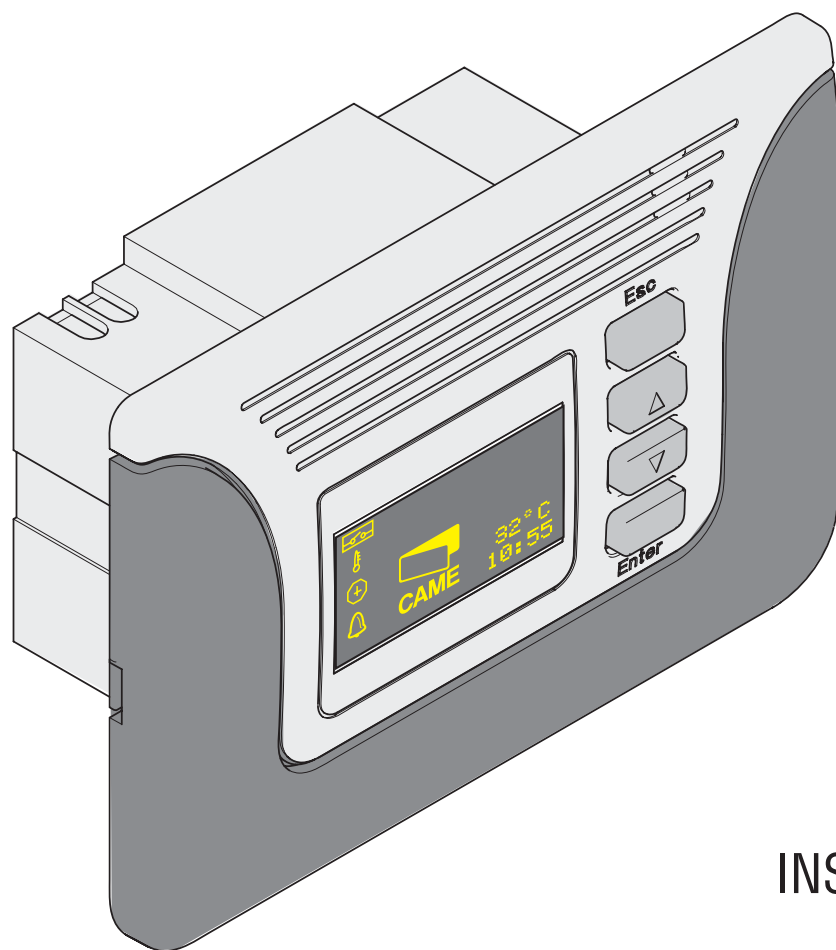


AUTOMATED HOME CONTROL SYSTEM

WAVE



INSTALLATION MANUAL
WA01

INDEX

1. Legend of symbols.....	3	6.4 Menu-Modify user.....	16
2. Intended use and restrictions.....	3	6.5 Menu-New user.....	18
2.1 Intended use.....	3	6.6 Menu-Remove user.....	19
2.2 Usage restrictions.....	3	6.7 Menu-TX Radio.....	20
3. Regulatory framework.....	4	6.8 Menu-Timer.....	21
4. Description.....	4	6.9 Menu-Alarm clock.....	22
4.1 230V a.c. Control system.....	4	6.10 Menu-Thermostat.....	23
4.2 Technical Data.....	4	6.11 Menu-Clock.....	24
4.3 General Description.....	5	6.12 Menu-Key functions.....	24
5. Installation.....	6	6.13 Menu-Password.....	25
5.1 Preliminary checks.....	6	7. Maintenance.....	28
5.2 Tools and materials.....	6	8. Phasing out and Disposal.....	28
5.3 Dimensions, centre distance and securing holes.....	7	9. Manufacturer's statement.....	29
5.4 Introduction to the functioning logic.....	8		
5.5 Connecting cables.....	9		
5.6 Wall mounting.....	10		
6. Programming.....	11		
6.1 Description of commands and the display.....	11		
6.2 Browsing the menu.....	12		
6.3 Menu Structure - Main.....	13		
6.3.1 Menu-Settings-Language.....	14		
6.3.2 Menu -Settings-Temperature.....	15		
6.3.3 Menu -Settings-Screensaver.....	15		

“IMPORTANT INSTALLATION, SAFETY INSTRUCTIONS”

“CAUTION: IMPROPER INSTALLATION MAY CAUSE SERIOUS DAMAGE, FOLLOW ALL INSTALLATION INSTRUCTIONS CAREFULLY”

“THIS MANUAL IS ONLY FOR PROFESSIONAL OR QUALIFIED INSTALLERS”



1 Legend of symbols



This symbol tells you to read the section with particular care.



This symbol tells you that the sections concern safety issues.



This symbol tells you what to say to the end-users.

2 Intended use and restrictions

2.1 Intended use

Automated home control system featuring a stand alone function – will interface with the WI08 digital, electronic card.

2.2 Restrictions

Secure the apparatus in areas free from accidental impacts.

3 Reference Standards

This product complies with the following standards: EN 60730-1, EN 60950-1.

4 Description

4.1 230V a.c. control system

Home automation control system powered by 120-230V a.c.; 50÷60 frequency.
CAME projects and produces entirely in Italy.
It fits all embedded door wall boxes.

4.2 Technical features

Control panel

Power supply: 120/230V - 50÷60 Hz.

Max Power: 30 mA AC

Power draw when idle: 20 mA AC

Max power load of accessories: 5A 230V AC/24V DC (resistant) ; 1,5A 230V AC (inductive).

Protection rating: IP40

Isolation class: II

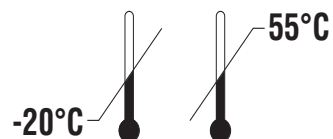
Temperature variance: $\pm 1^{\circ}\text{C}$

Material: ABS Support /PC/ - PA6 – PMMA Plate

Radio Frequency: 433.92 MHz

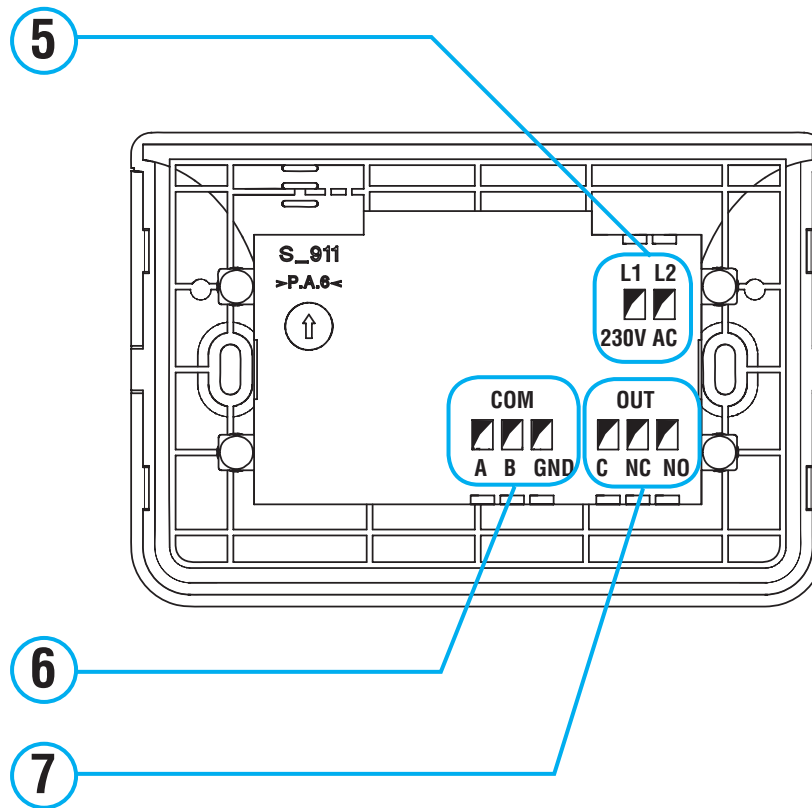
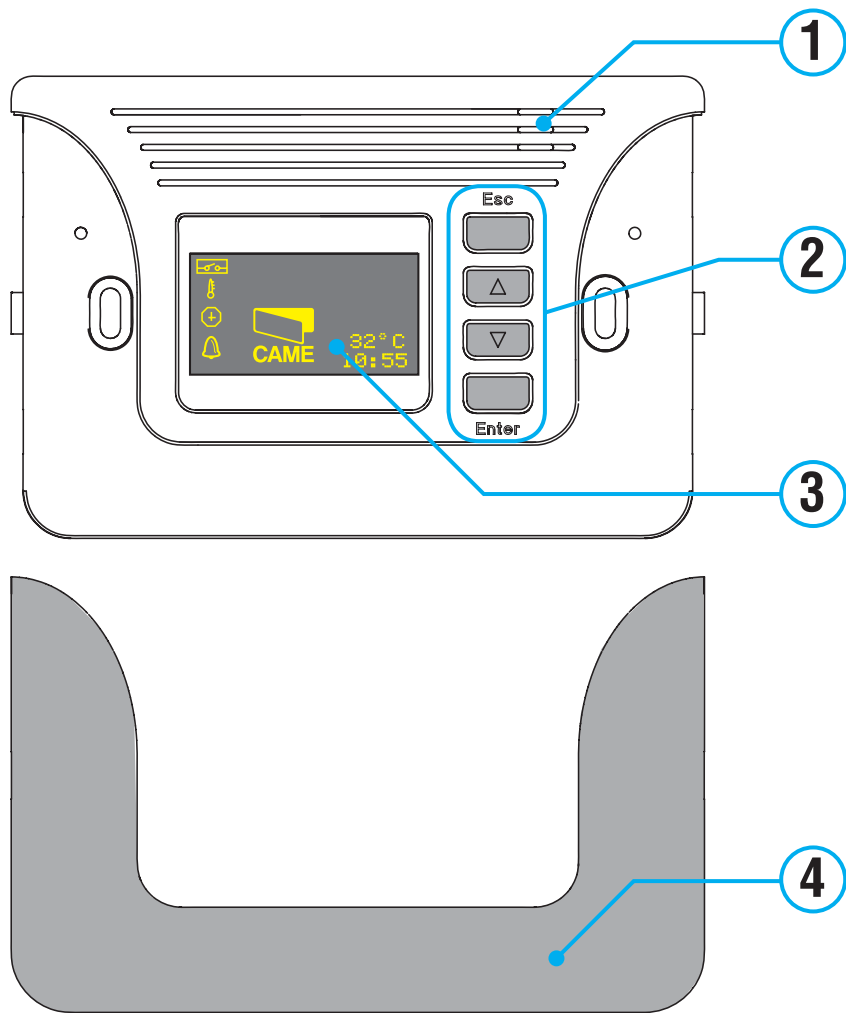
Estimated radio range: 30m (inside building)

Operating temperature:



4.3 General description

The data and information shown in this manual may be changed by CAME cancelli automatici s.p.a. at any time without prior warning




- 1- Temperature gauge sensor
- 2- Command keypad
- 3- Display
- 4- Hole cover-plate
- 5- Power terminals
- 6- Terminals for connecting the WI08
- 7- Automation connection terminals (relays).

5 Installation

5.1 Preliminary checks

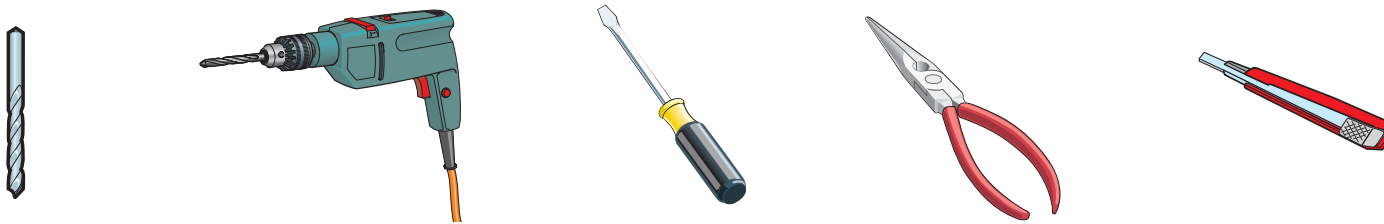


Before installing, do the following:

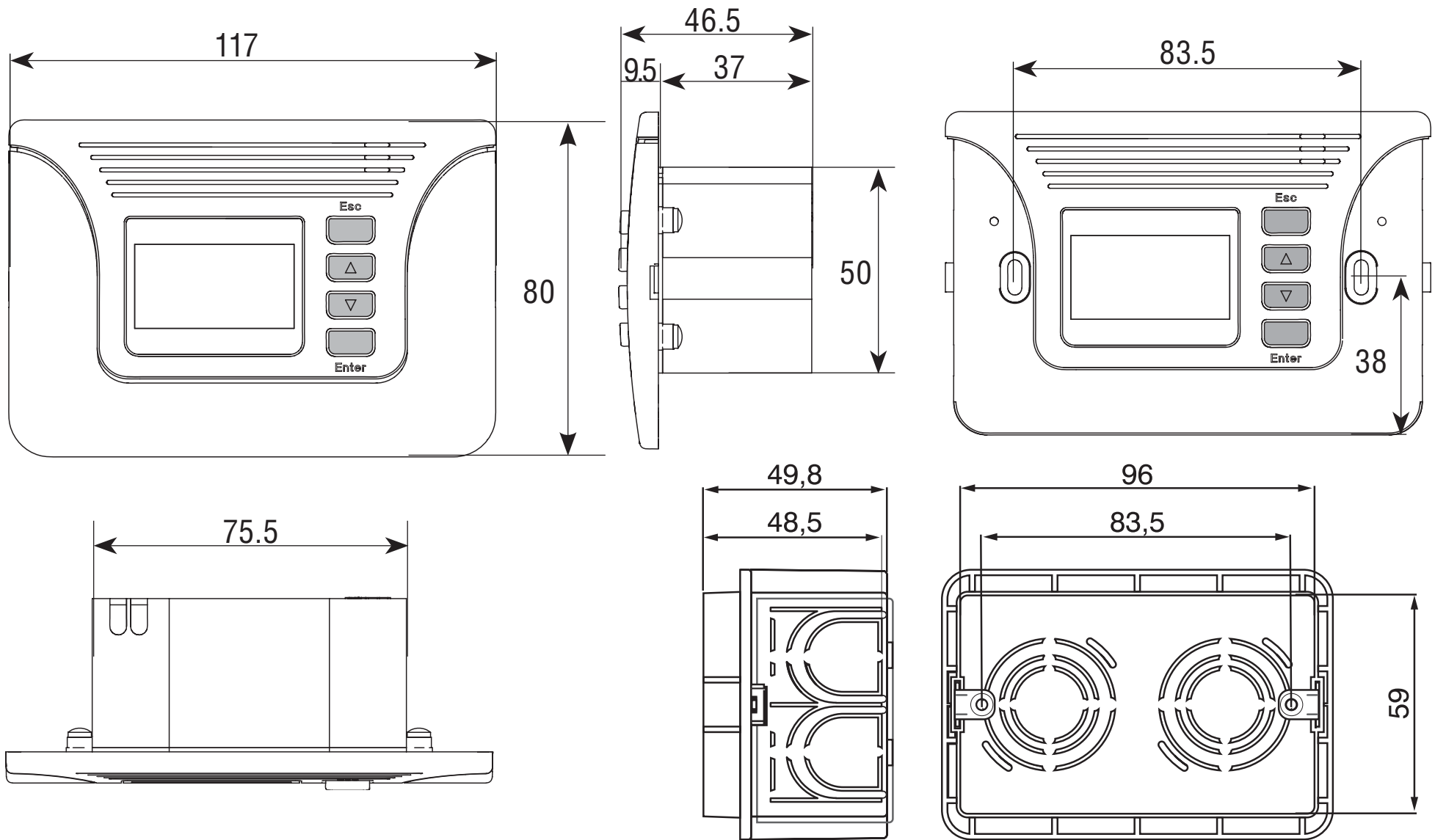
- Make sure that the sport where the device will be secured is protected from impacts. Secure the device using suitable screws, plugs, and so on for the type of surface;
- Make sure you have a suitable omnipolar cut-off device with contacts more than 3 mm apart, and independent (sectioned off) power supply;
-  Make sure that any connections inside the case (that provide continuance to the protective circuit) be fitted with extra insulation as compared to the other conductive parts inside;
 - Make sure you have suitable tubing and conduits for the electrical cables to pass through and be protected against mechanical damage;

5.2 Tools and materials

Make sure you have all the tools and materials you will need for the installation at hand to work in total safety and compliance with the current standards and regulations. The following figure illustrates the minimum equipment needed by the installer.



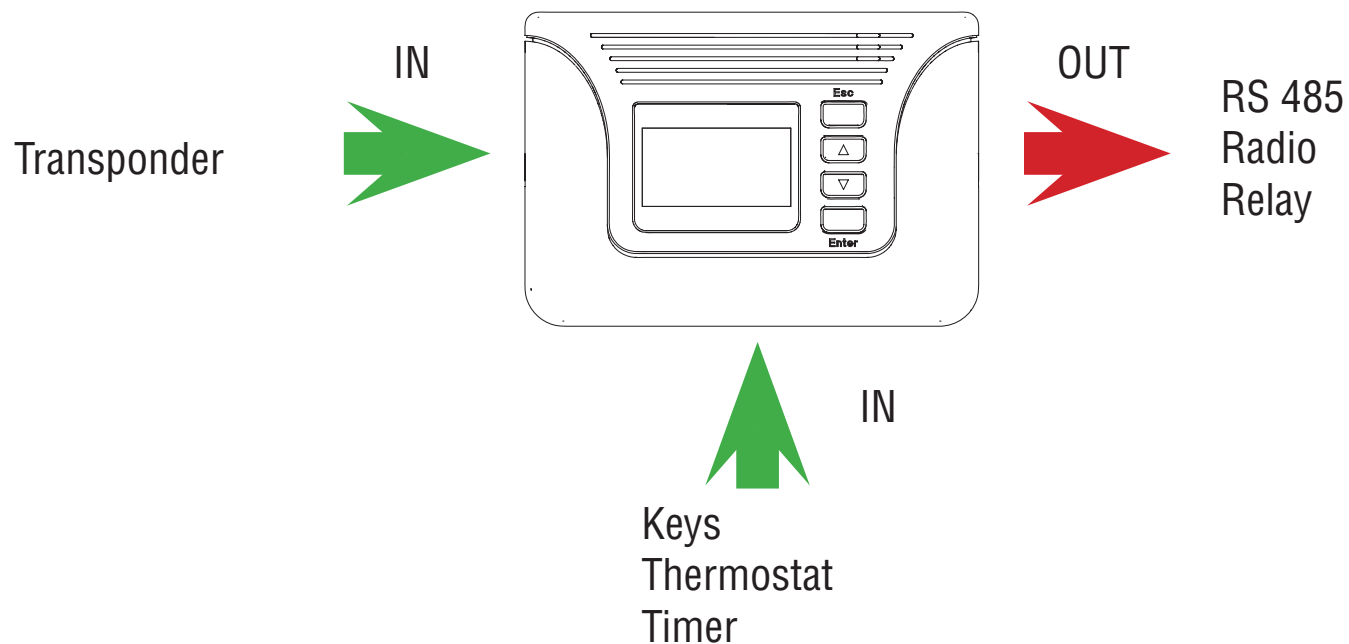
5.3 Dimensions, centre distances and securing holes



The data and information shown in this manual may be changed by CAME cancelli automatici s.p.a. at any time without prior warning

EN

5.4 Introduction to the functioning logic



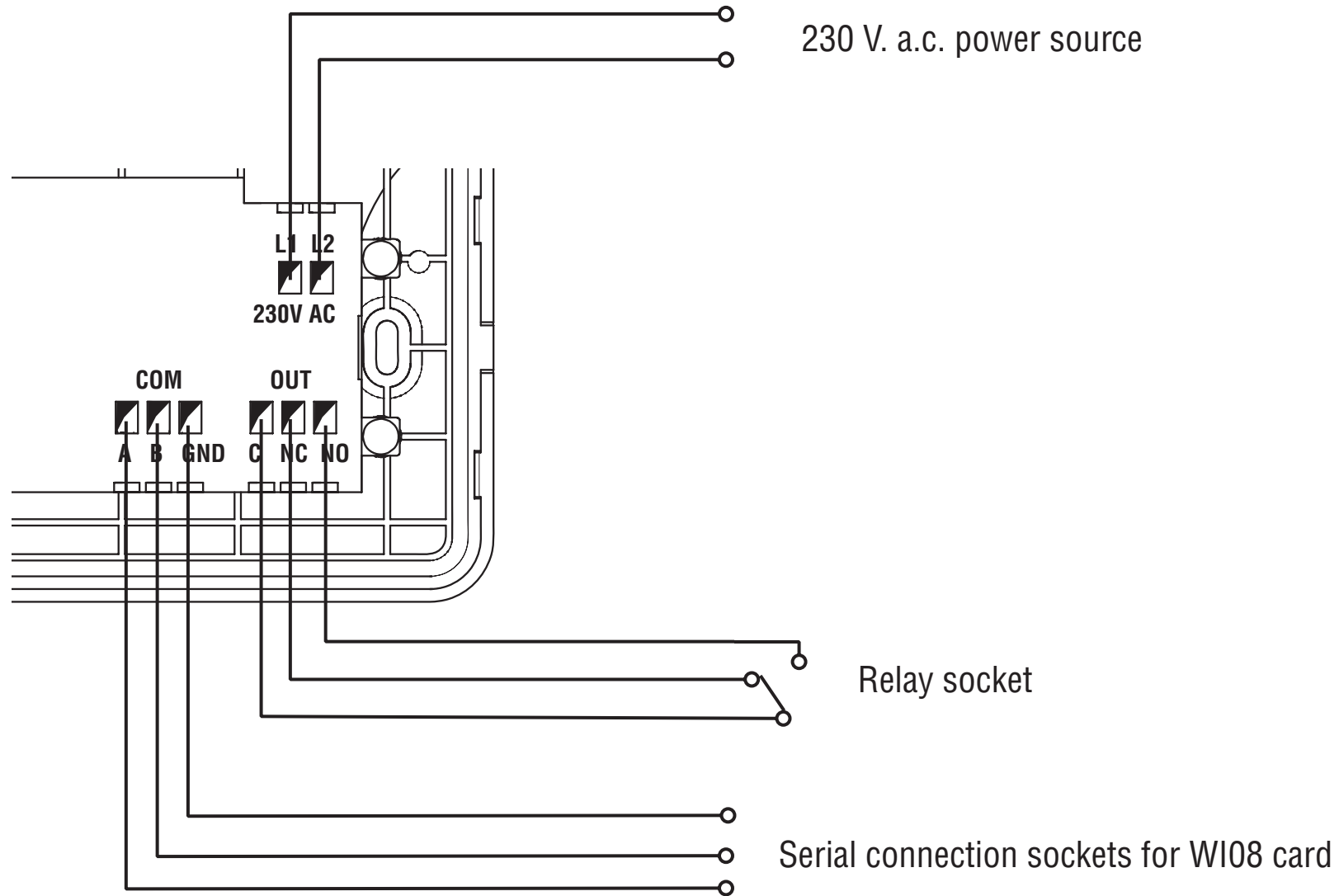
Wave allows you to associate an “IN” command such as:

Transponder, keys, thermostat and timer to an “OUT” instruction such as a radio code or a relay plug or to the connection of another device (only for the WI08).

For example: you may control the garden lights with either the timer or keys and transponder.

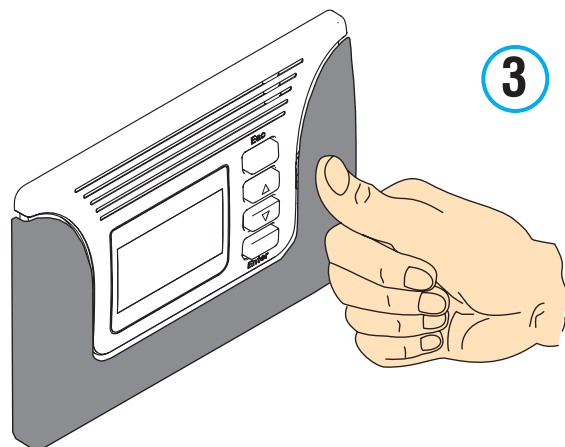
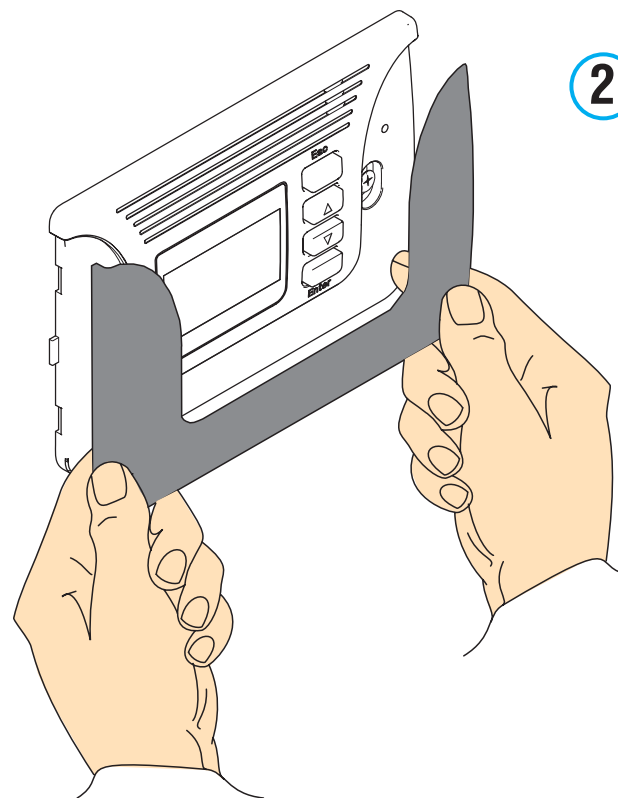
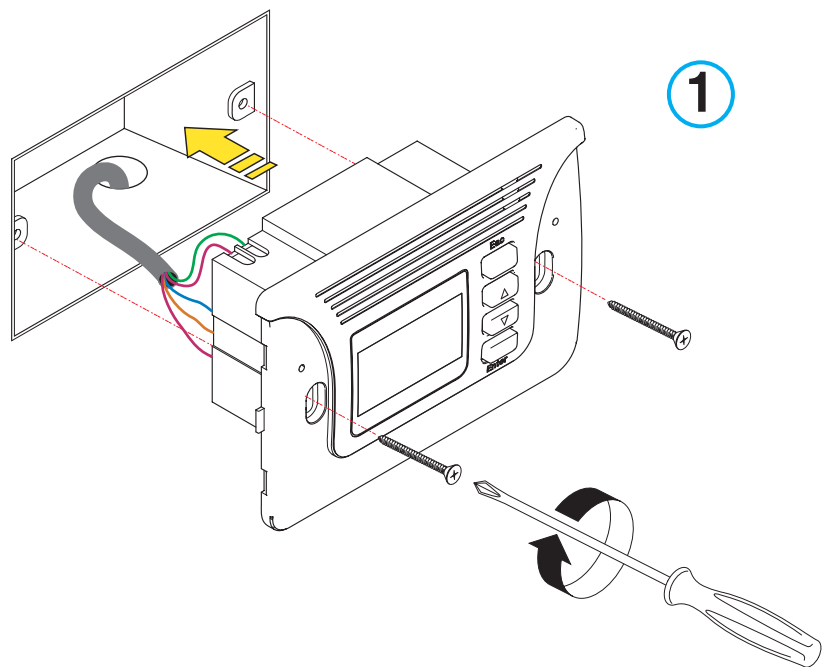
5.5 Connecting cables

The data and information shown in this manual may be changed by CAME cancelli automatici s.p.a. at any time without prior warning



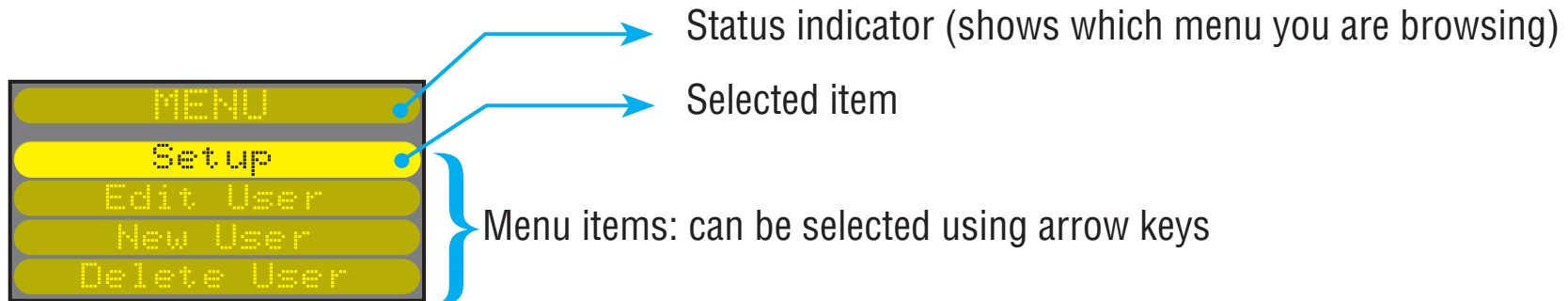
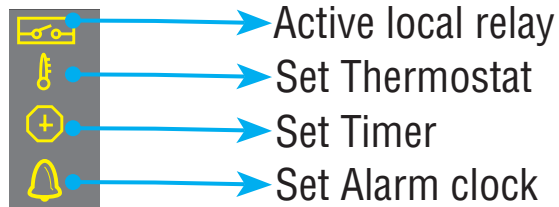
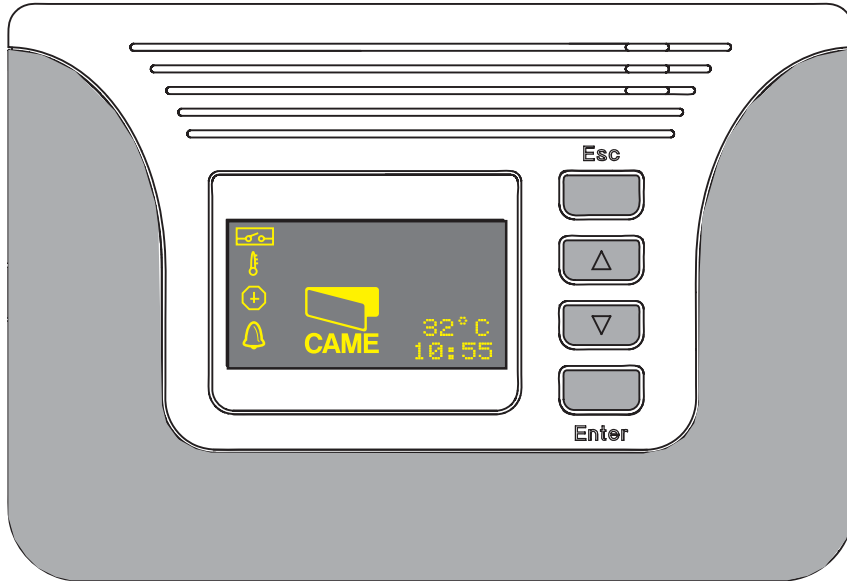
5.6 Wall mounting

EN



6 Programming

6.1 Description of commands and display



The ENTER key  is for :

- Accessing the menu
- Confirming and memorising the set value

The ESC key  is for :

- Exiting the menu
- Cancelling changes
- Go back in the editable menus

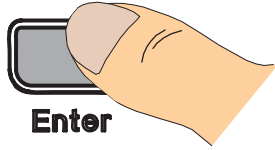
The key   are for:

- Shift from one menu item to another
- Increase and decrease a value

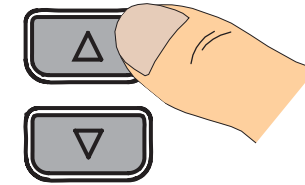
The data and information shown in this manual may be changed by CAME cancelli automatici s.p.a. at any time without prior warning

6.2 Browsing Menu

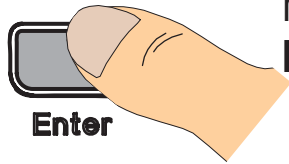
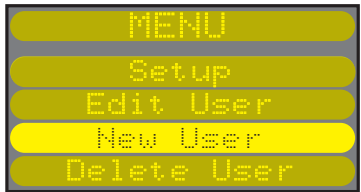
EN



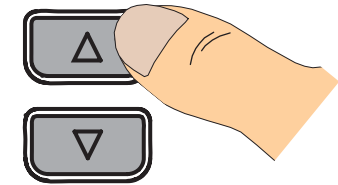
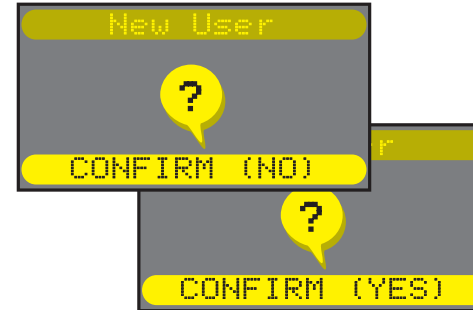
To enter the main menu, keep the **ENTER** key pressed



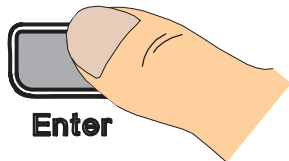
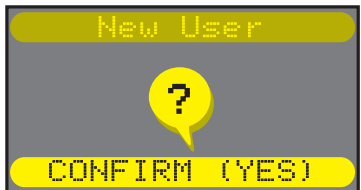
To chose the selected item, shift using the **ARROWS**



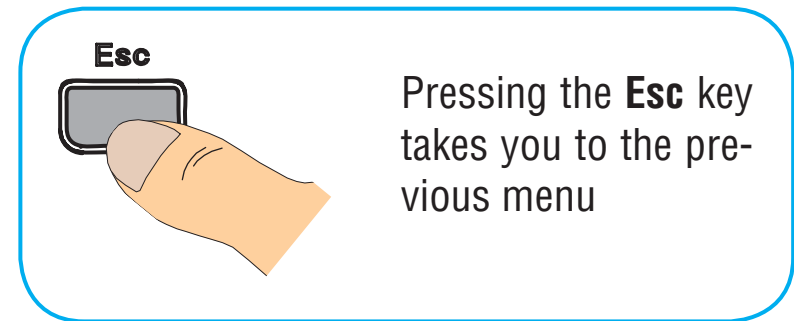
To enter the sub-menu, press the **ENTER** key



To select, shift using the **ARROWS**



Press **ENTER** to confirm



6.3 Structure - Main Menu

Setup

Edit User

New User

Delete User

TX Radio

Timer

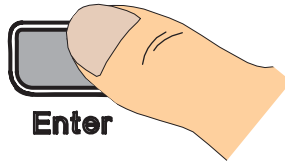
Alarm

Thermostat

Clock

Key Function

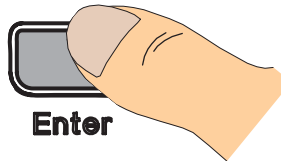
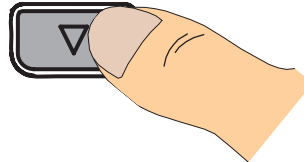
Password



Pressing the **Enter** key for a few seconds takes you into the main menu (main level)



To shift from one item to another use the **ARROWS**

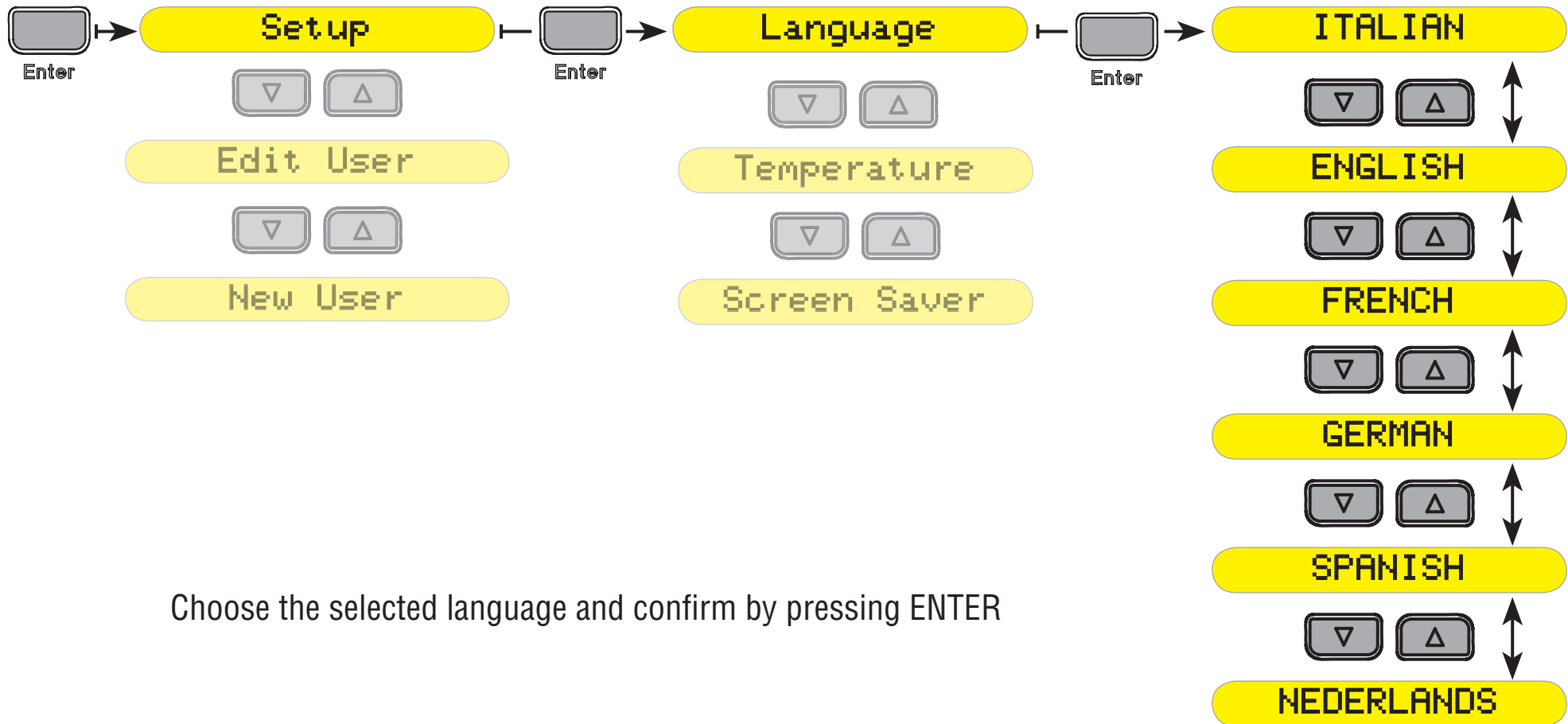


Press **Enter** to confirm (this takes you to the second level)



Pressing **Esc** takes you back to the previous menu

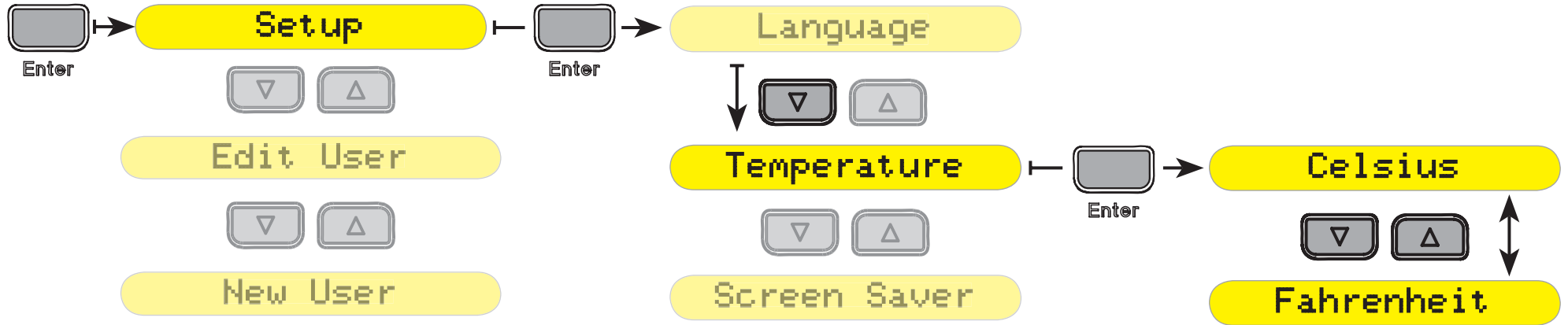
6.3.1 Menu – Settings – Language



Choose the selected language and confirm by pressing ENTER

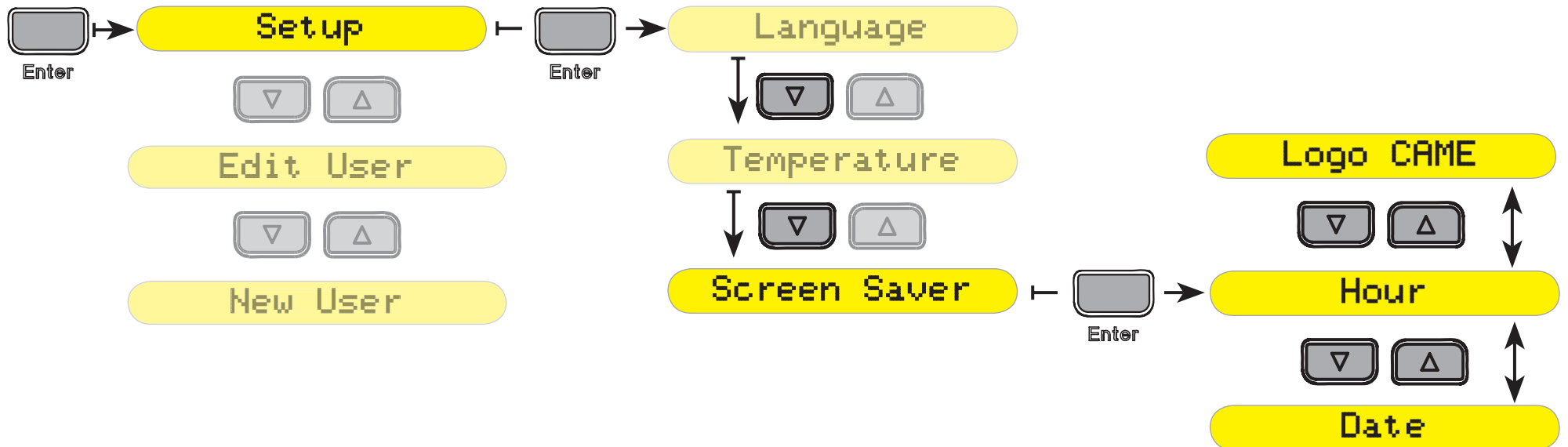
6.3.2 Menu – Settings – Temperature

Select the unit of measure for the temperature and confirm by pressing **ENTER**



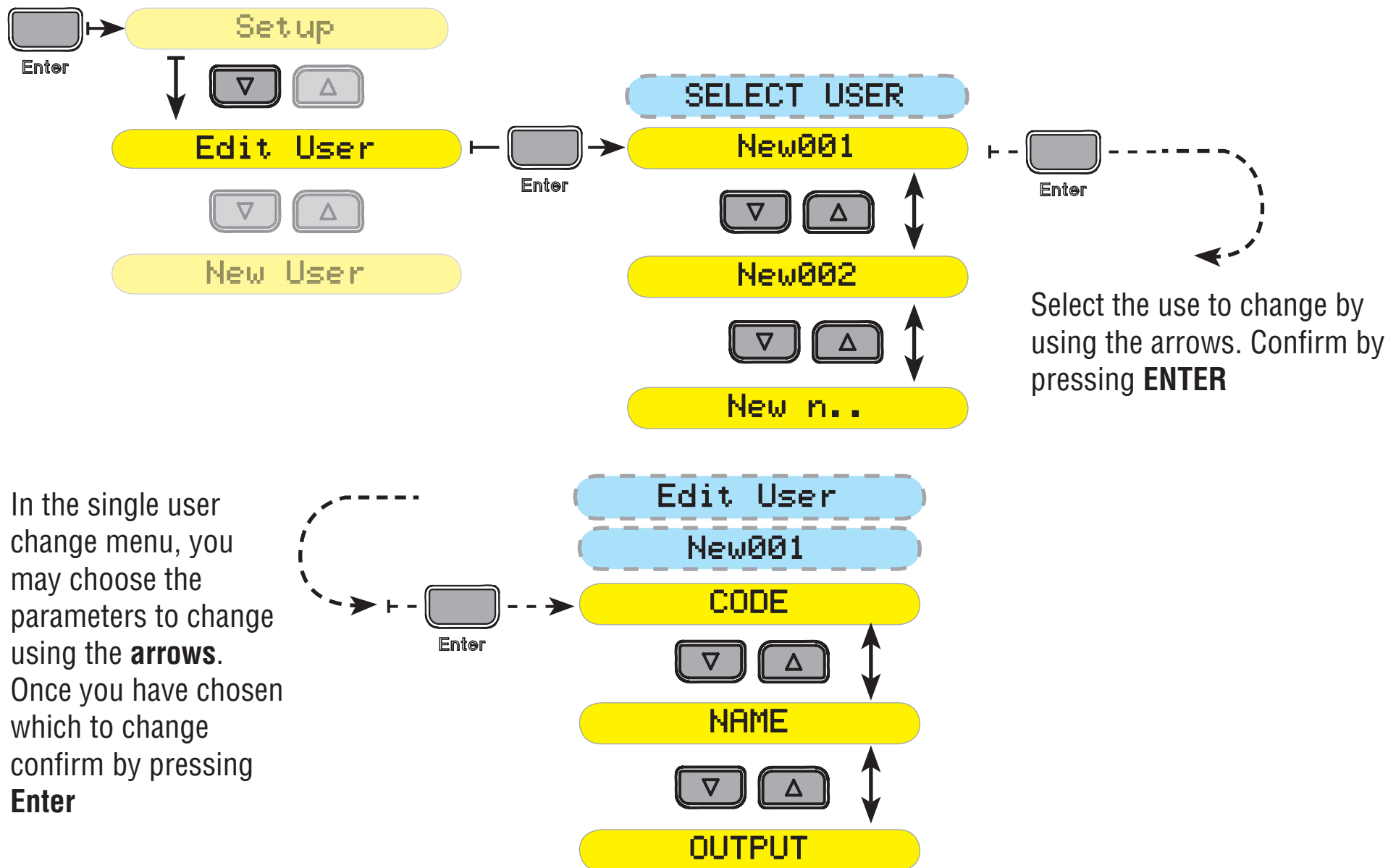
6.3.3 Menu – Settings – Screensaver

Select the screensaver and conform by pressing **ENTER**



6.4 Menu – Change user

Change user: Allows you to change the details of a single user (code, name, kind of exit)



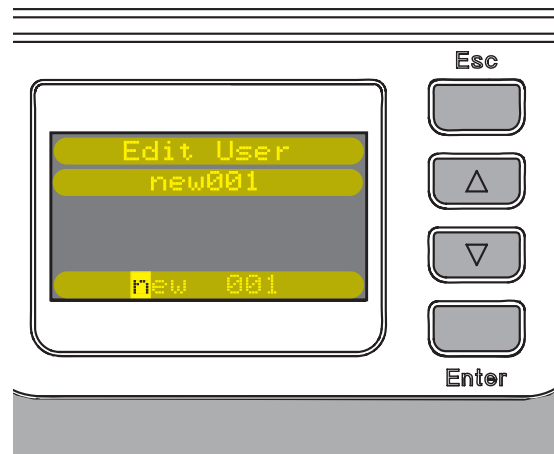
6.4 Change user - Menu

CODE



You may memorise a transponder code and associate it to a chosen user, by approaching the card to the Wave device which enables code recognition within 10 s

NAME




Selecting the NAME item takes you into the user change area.

Press ENTER  to :

- To go to the next letter that needs changing
- Confirm the changes (keeping it pressed)

Press ESC  to :

- Go back to the previous letter
- Go back to the previous level, without saving any changes (keeping it pressed)

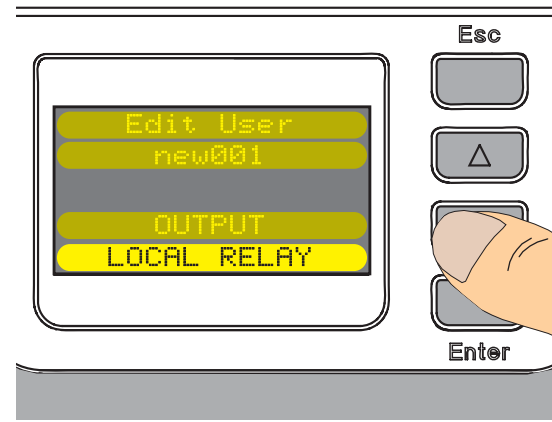
Keep the arrow keys pressed   to :

- Change letter

6.4 Change user - Menu

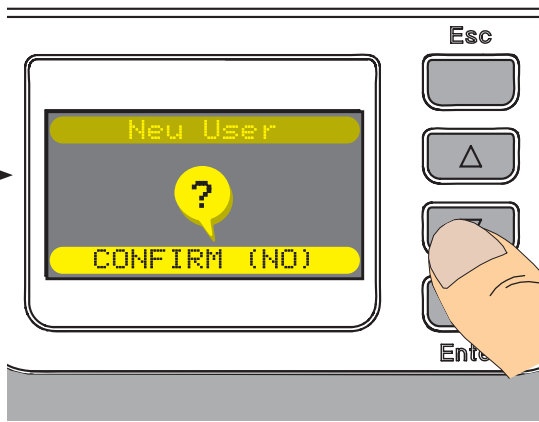
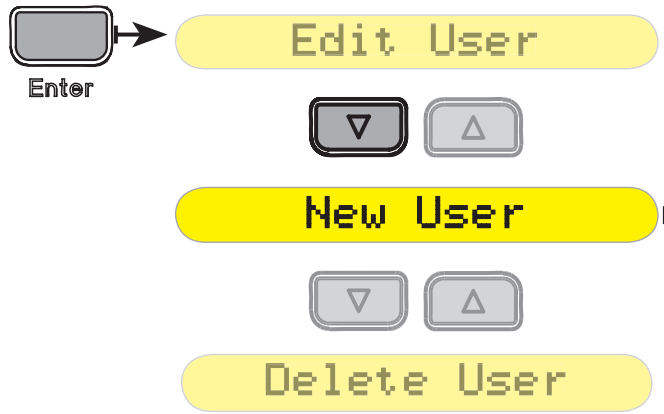
EXIT associates a command to a user. It can be of two types: the first is defined as local exit and is a physical socket (NO, NC); the second is a radio socket (up to four different ones can be inserted).

OUTPUT



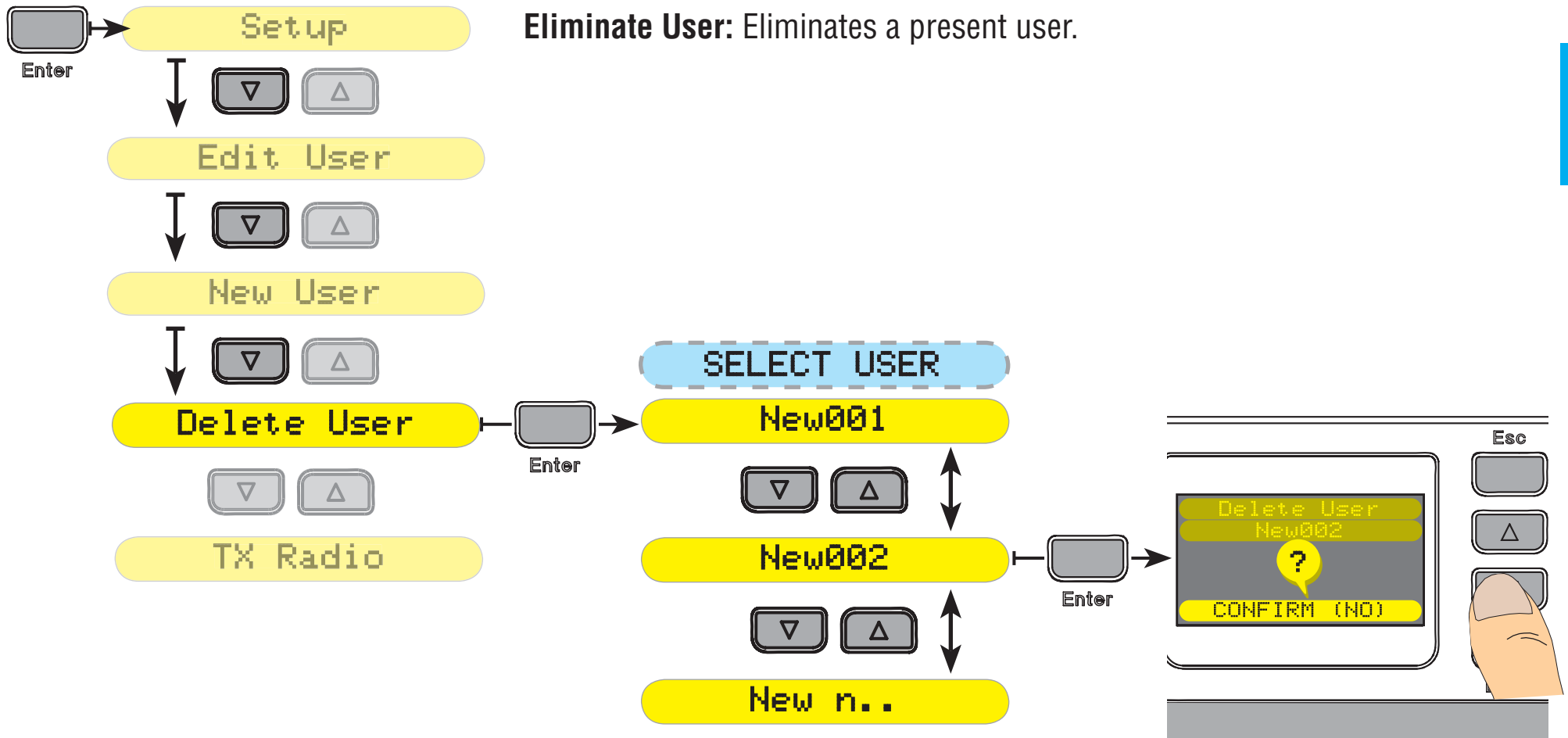
To select the output to associate shift using the **arrow** keys and confirm by pressing **Enter**

6.5 New user - Menu



New user : to create a new user shift using the arrow keys to YES and confirm by pressing Enter. The change menu is activated automatically. To set the date see chapter 6.4.

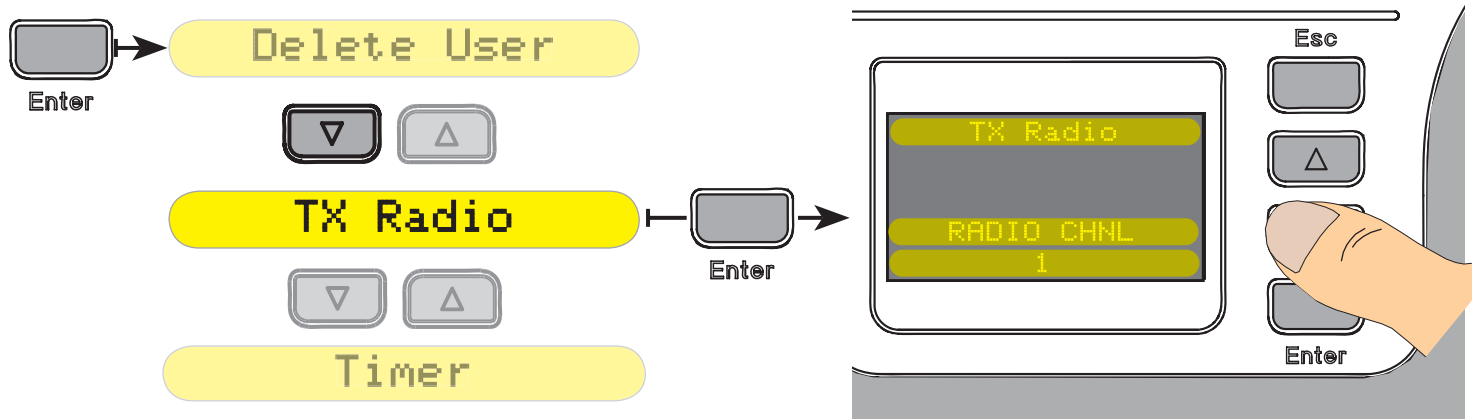
6.6 Eliminate User - Menu



To confirm the operation shift to **YES** using the **arrow** keys and confirm using **Enter**.

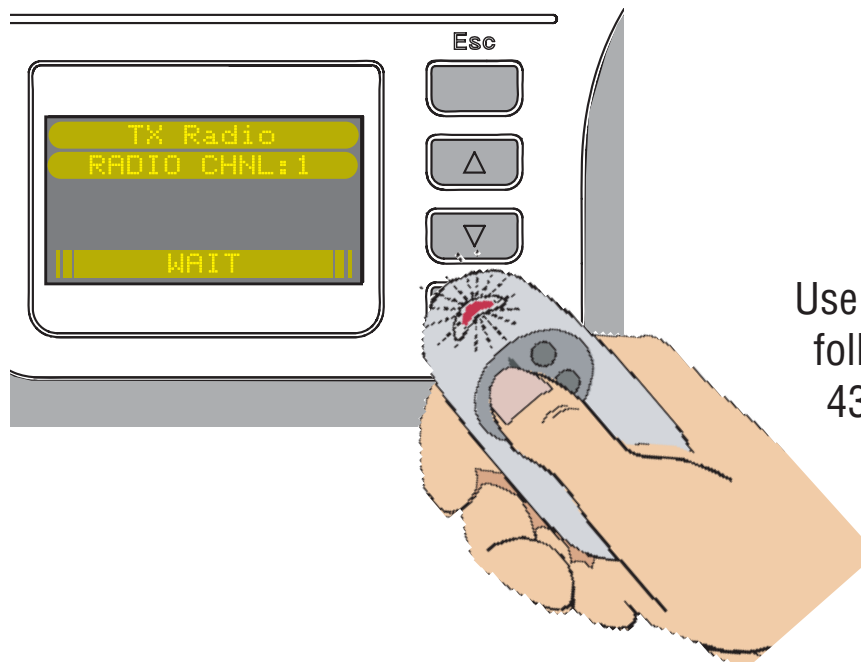
6.7 Radio TX - Menu

From the RADIO TX menu you can associate a CAME transmitter code to an output, so as to “repeat” it and control the automated devices directly through the keyboard or transponder from WAVE.



To select the radio channel to be memorised shift using the **arrow** and confirm by pressing **Enter**

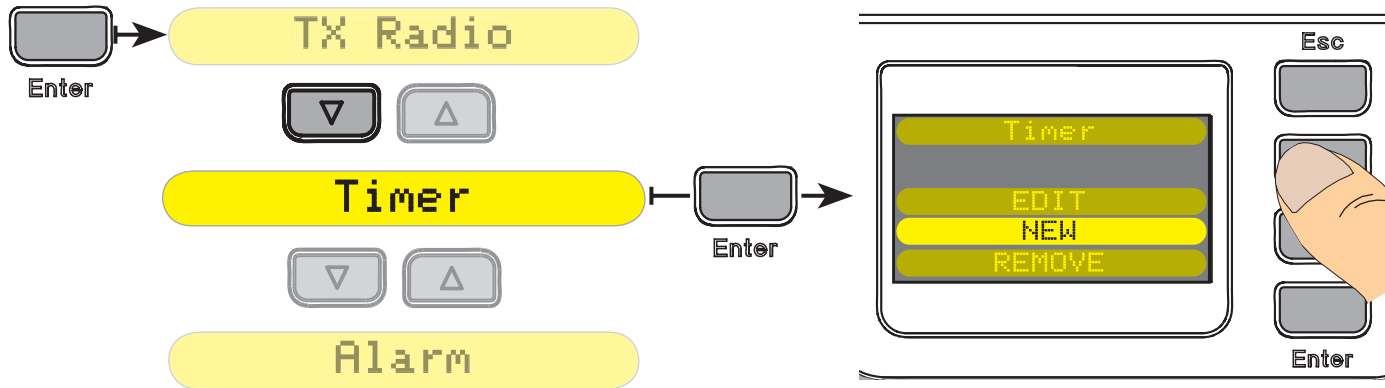
Send the radio code by transmitter within 10 seconds (as shown in figure). Memorisation is confirmed when code is shown on display.



Use transmitters of the following series: Top 433.92MHz or Tam 433.92MHz

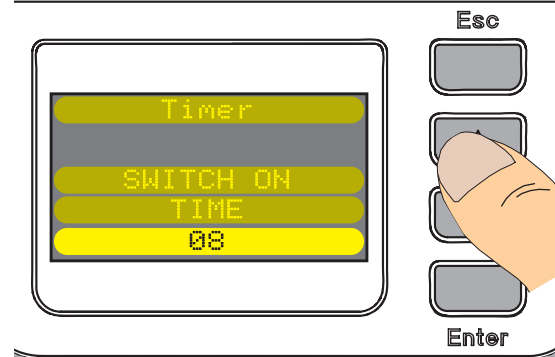
6.8 Menu - Timer

The **TIMER** lets you associate commands to pre-set time intervals.



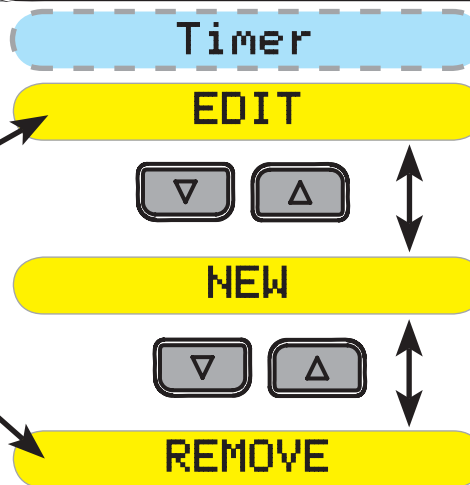
To create a new time interval shift using the arrow key onto **NEW** and confirm by pressing **Enter**...

...once created, you will be asked the time and minutes and the day of **activation**, and which command you wish to associate (local output, or one of the radio outputs)...

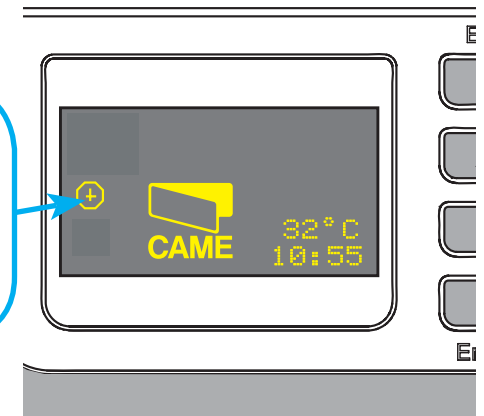


...then set the **deactivation** day. You will be asked the same information, to create a precise time interval.

Besides creating a new "TIMER" you may also **CHANGE** or **ELIMINATE** those already existing.

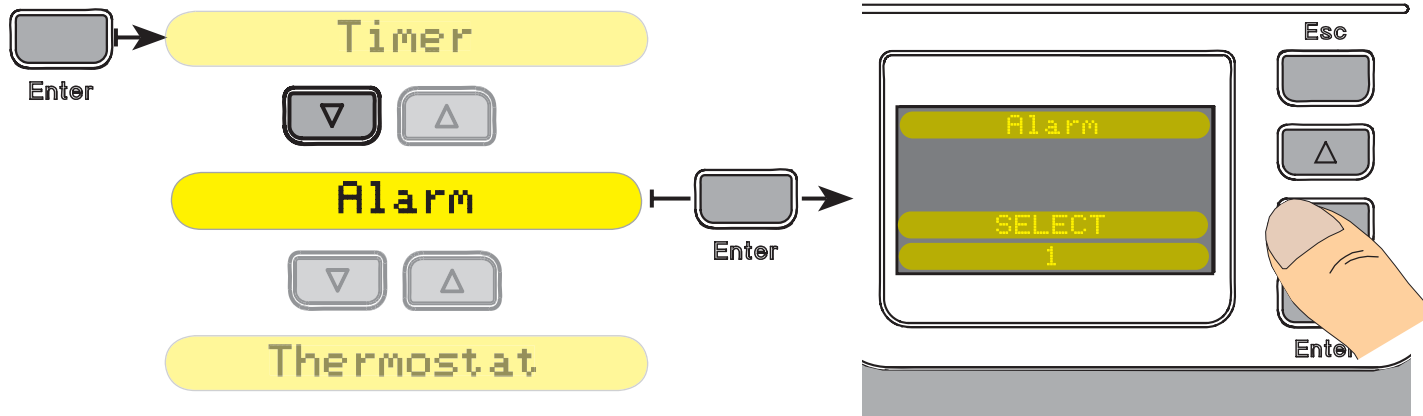


Once the timer is set, the display will show this symbol.



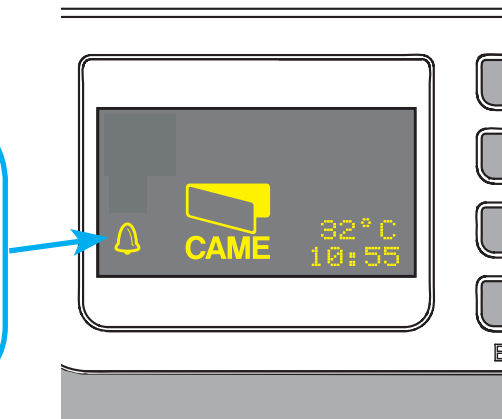
6.9 Alarm clock - Menu

ALARM CLOCK allows you to set two sound warnings.



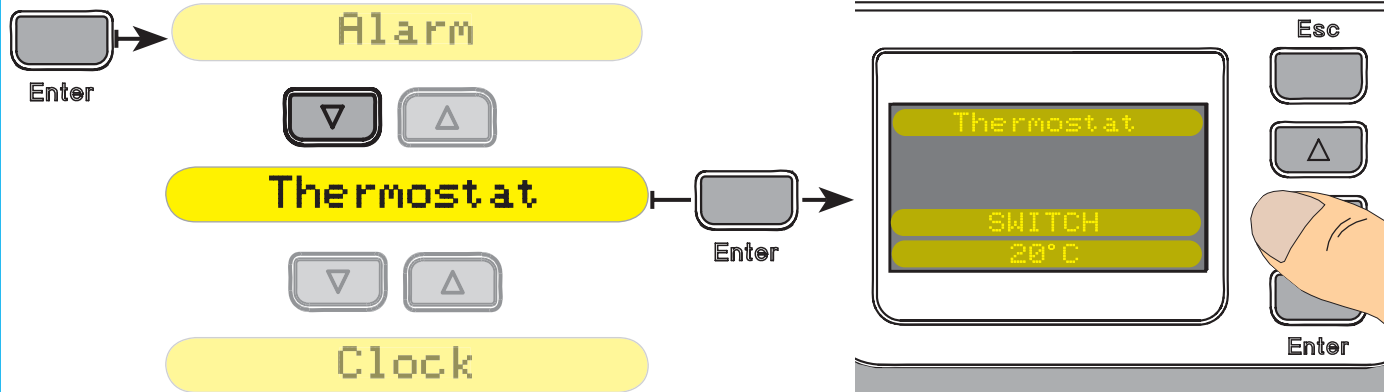
Select which of the two alarm clocks you wish to set. You will be asked the time, minutes, and type of sound. Confirm by pressing **Enter**.

Once the alarm clock/s is/are set, this symbol will appear on the display.



6.10 Thermostat - Menu

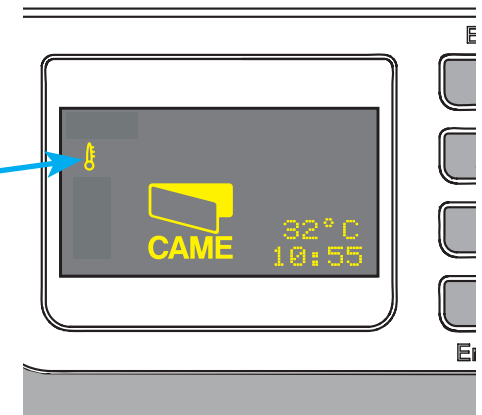
The **Thermostat** allows you to set a temperature interval, within which Wave will activate a socket..



To create a new interval shift using the **ARROW** onto the chosen temperature threshold and confirm by pressing **ENTER**. Repeat the process to chose the deactivation threshold, confirm functioning by shifting using the **ARROW** onto ACTIVATED and press **ENTER**.

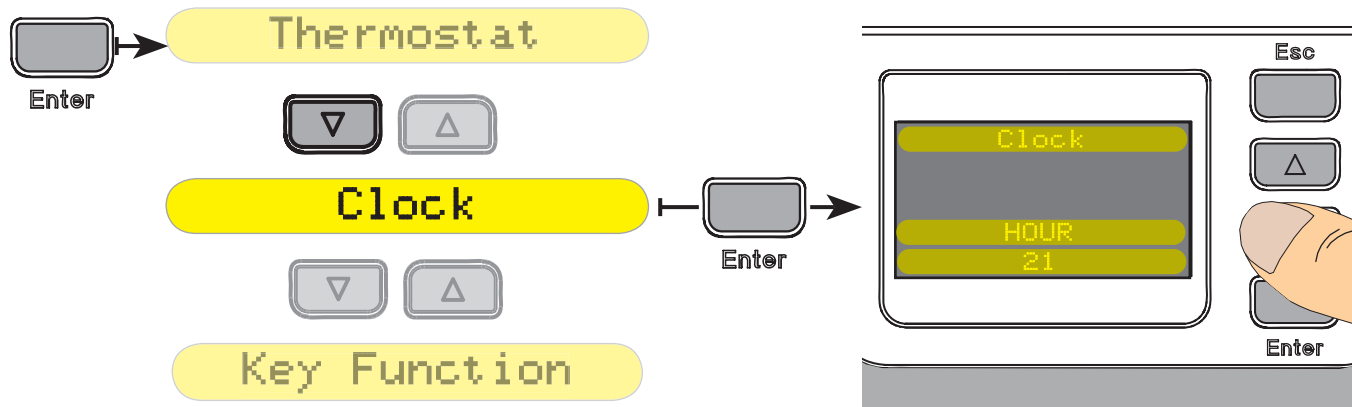
To deactivate functioning shift using the **ARROWS** onto DEACTIVATED and press **ENTER**.

Once the thermostat is set, this symbol will appear on the display.



6.11 Clock – Menu

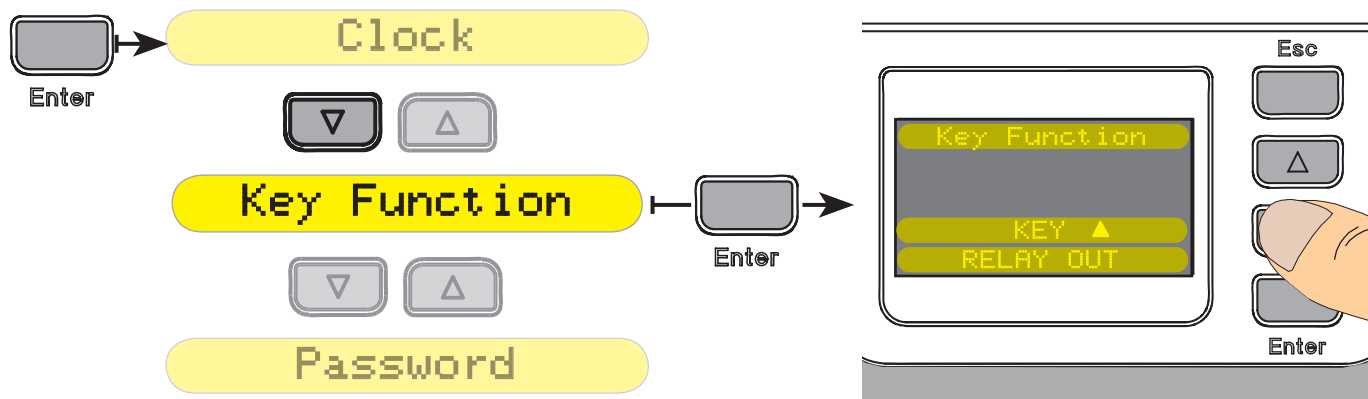
With the **Clock** you can set the current time and date on Wave.



You will be asked to enter the hour, minutes, seconds, year, month and day. To insert them proceed as in the previous steps (using the **arrow** keys to make changes to the values and by pressing **Enter** to confirm).

6.12 Key Functions – Menu

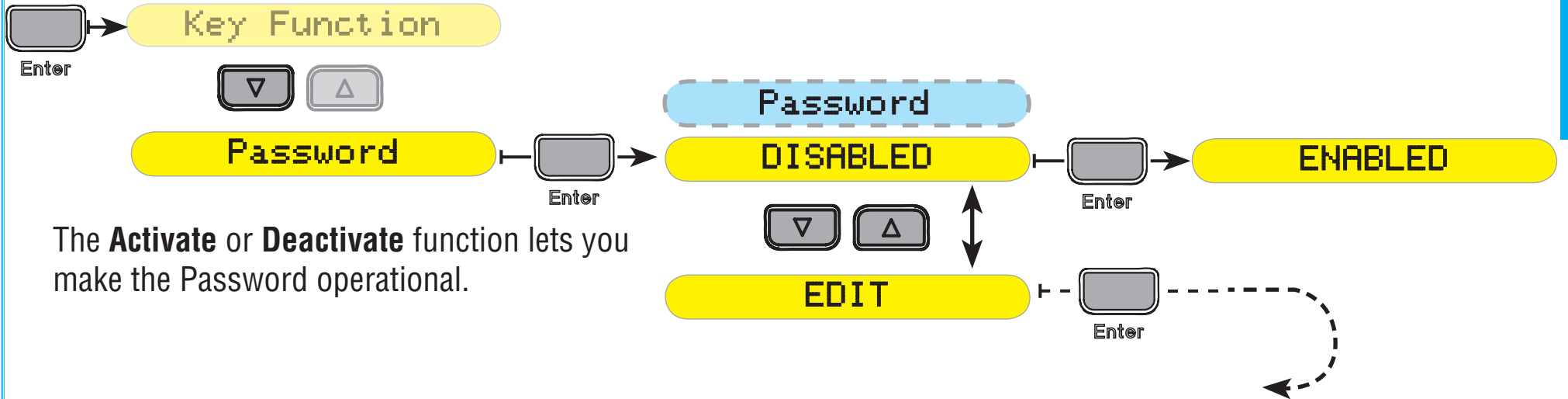
Key Functions allows you to associate, to the two   keys, one of the following functions: relay output or one of the 4 radio codes.



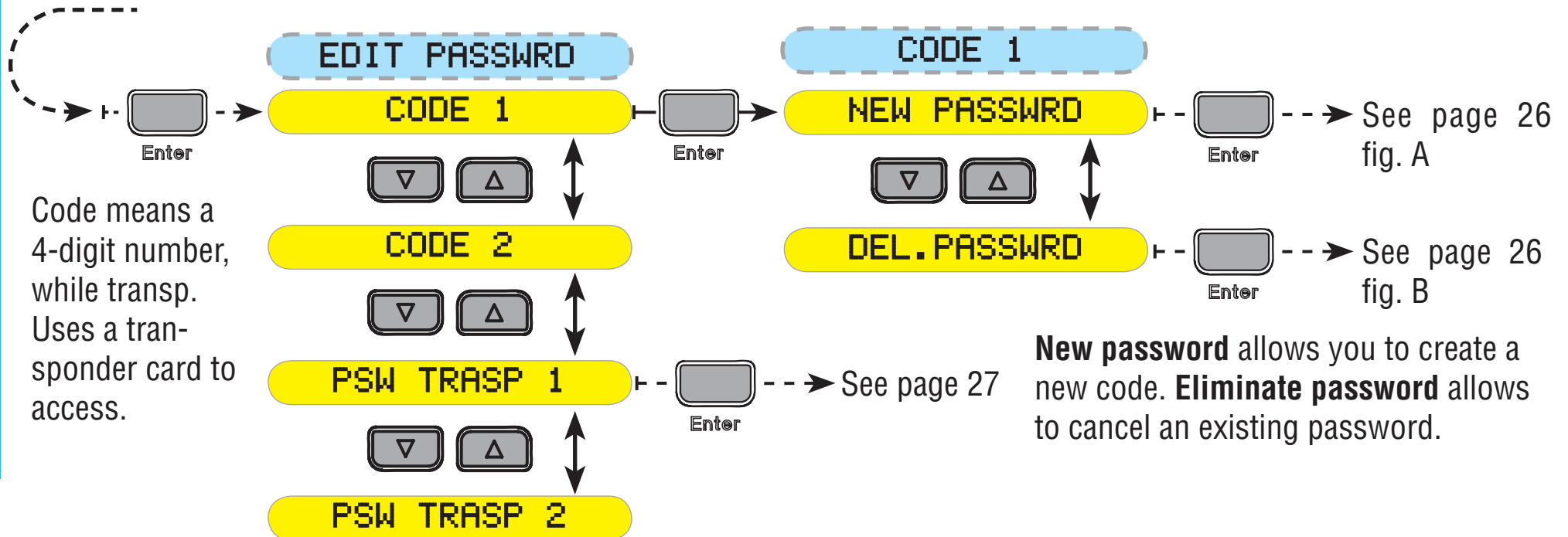
To associate a command to one of the two key shift using the **arrows** onto the chose function, and confirm by keeping the **arrow** key pressed.

6.13 Password - Menu

The **Password** allows you to limit access to Wave's functions



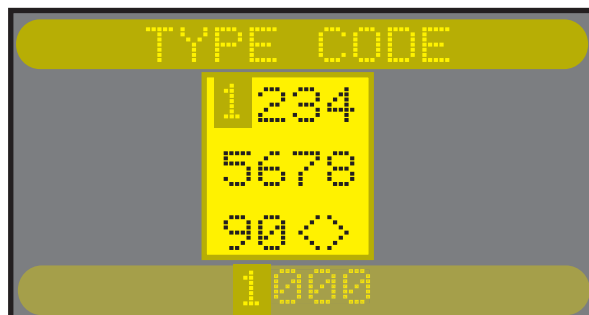
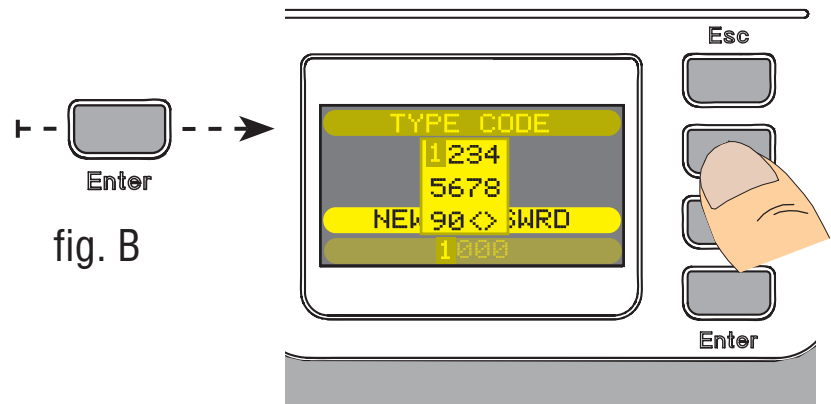
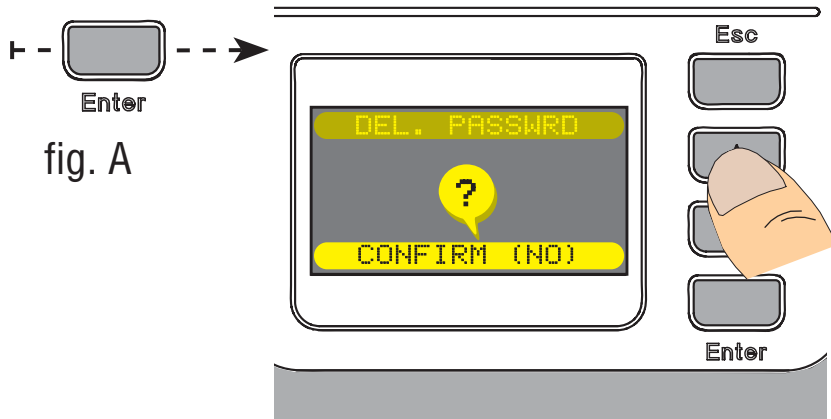
The **Activate** or **Deactivate** function lets you make the Password operational.



Code means a 4-digit number, while transp. Uses a transponder card to access.

New password allows you to create a new code. **Eliminate password** allows to cancel an existing password.

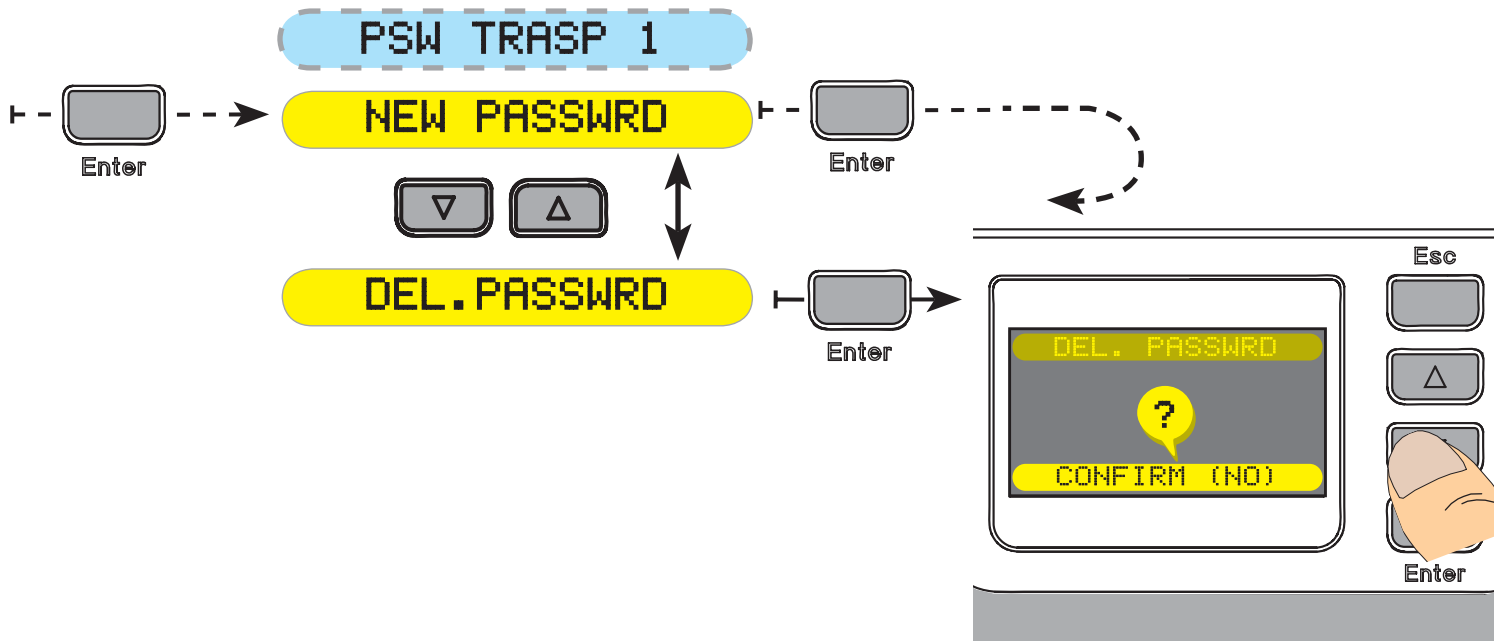
6.13 Password - Menu



To confirm the step shift using the **ARROW** keys onto **YES** and confirm by pressing **ENTER**.

To chose a value shift using the **ARROW** key, select and confirm by pressing **ENTER**. Repeat the step until you have inserted the 4-digit code that you have chosen. When the password is requested upon accessing the WAVE menu, proceed as described above to insert the code.

6.13 Password - Menu



To confirm the operation shift using the **ARROWS** to YES and confirm by pressing **ENTER**



Selecting **NEW PASSWORD** will bring up a bar showing the time allowed for inserting the code. Approach the card to the Wave device to allow recognition of the code. When the main menu access password is requested approach the "Password" function card near WAVE.

The data and information shown in this manual may be changed by CAME cancelli automatici s.p.a. at any time without prior warning

EN

7 Maintenance

Wave does not require any periodic maintenance. To clean we suggest using a moist cloth and not any chemical agents or abrasive materials that may ruin the product's surface.

For any problems contact after-sales assistance.

8 Phasing out and Disposal



Our products are made of different materials. The majority of these (aluminium, plastic, iron, and electric cables) are considered solid urban waste. As such they can be recycled by certified centres after proper collection.



Other component (such as electronic cards, batteries and transmitters) constitute environmental hazards. They must thus be turned in to specialised firms for their processing and disposal.

9 Manufacturer's statement



CE CONFORMITY DECLARATION

Pursuant to Low Voltage Directive 73/23/EC



CAME Cancelli Automatici S.p.A.

via Martiri della Libertà, 15
31030 Dosson di Casier - Treviso - ITALY
tel (+39) 0422 4940 - fax (+39) 0422 4941
internet: www.came.it - e-mail: info@came.it

--- STANDARDS ---

EN 60730-1/-2/-9

EN 60950-1

EN301489-1

Declares under its own responsibility that the equipments for automatic garage doors and gates listed below:

WA01

... comply with the National Law related to the following European Directives and to the applicable parts of the following Standards.

--- DIRECTIVES ---

73/23/CEE-93/68/CE

89/336/CEE - 92/31/CEE

LOW VOLTAGE DIRECTIVE

ELECTROMAGNETIC COMPATIBILITY DIRECTIVE

IMPORTANT WARNING!

Do not use the equipment specified here above, before completing the full installation

In full compliance with the Low Voltage Directive 73/263/EC

MANAGING DIRECTOR

Mr. Andrea Menuzzo

Reference code to request a true copy of the original: **DDF L EN W001**

CAME UNITED KINGDOM LTD

UNIT 3, ORCHARD BUSINESS PARK
TOWN STREET, SANDIACRE
NOTTINGHAM - NG10 5BP - U.K.

Tel - 0044 115 9210430

Fax - 0044 115 9210431

