EV 4-24 4G

Serial control panel
24 wireless and up to 12 hard-wired zones

Tecnoalarm®
pininfarina

User Manual

evolution
Tecnoalarm®

INDEX

CONFORMITY - The device described in this manual shall comply with the essential requirements and other relevant provisions laid down in Directives : RED (2014/53/UE), EMC (2014/30/UE), LVD (2014/35/UE).
The declaration of conformity is available on the website: www.tecnoalarm.com.

1 - SYSTEM FEATURES

A Tecnoalarm security system manages its protection zones through operating programs; the user can interact with his/her own security system by enabling or disabling the operating programs. The management of the programs can be carried out through different types of control devices:Consoles, proximity keys and wireless keys.

1-1 - Control devices

Control and programming consoles
The system can be managed either with the EV LCD and EV 430 PROX Bus consoles or the two-way wireless consoles EV LCD BWL and EV LCD-AL BWL; the consoles can coexist within the same system. The consoles include the EV KEY proximity key reader.
The EV 4-24 system can manage up to two Bus consoles and up to four wireless consoles.
Only the EV LCD and EV 430 PROX Bus consoles are equipped with a speaker with which the system, if necessary, emits voice messages that inform the user about the operating statuses and system functioning issues.
The consoles allow the user to manage the programming of the System, and to operate on six programs.
The consoles and/or key readers can be freely associated with the operating programs. This operational flexibility allows the user to characterise, if necessary, the operation of the control device to the particular operating context.

Key point
The EV PROX BWL two-way wireless key point includes an EV KEY proximity key reader. The key point can manage up to three programs. The EV 4-24 4G system can manage up to two EV PROX BWL key points.

High security RFID transponder key
The EV 4-24 System can manage up to twenty RFID keys, each of which can be associated with different functions. The operation of the key in managing the programs is the same as that which can be exercised by entering a code, the two management modes are complementary and either can be used to manage the system.
The EV KEY simplifies the management of the System. The key is programmed with a unique code that cannot be duplicated.

Wireless keys
The EV 4-24 System can be equipped with remote controls, with which you can control the operation of programs and remote controls of the system, each remote control can manage up to 3 control functions.

1-2 - System functionality

The management of the security system is carried out by the user by enabling (arming) and disabling (disarming) the system's operating programs.
The operating programs are defined by the installer on the basis of the security criteria requested by the user; if necessary, the setup of the programs (protection zones associated with the program) can be modified by the user with the Master code.The operating programs define the set of protection zones enabled for alarm detection, when the program is armed.Programs can be armed in single mode, one program at a time, or multiple programs armed simultaneously.

1-3 - Access levels

The EN 50131-1 standard has established 4 access levels.

Level 1 - Access by anyone (e.g. direct viewing on the console, or by simply pressing a button without having to enter codes).

Level 2 - Access by a user using a code. The programming can include customisable profiles.Each code can have an enabling feature, the master code has all privileges by default.

Level 3 - Access by the maintenance technician or installer. These can only access if authorised by a user with level 2 access code (Enabling from menu).

Level 4 - Access by the equipment manufacturer.

The minimum code length is 5 digits.
Options (e.g. inputs programmed as keys) that allow you to arm/disarm the system without an adequate level of access security do not comply with EN 50131-3.

1-4 - Level 2 Master user

The Master user level allows the control and programming of all the functions of the control panel, the management of the remote controls, thermostats and the arming/disarming of all the System's operating programs.
To access the master level functions, the code must be entered; the code pre-set in the factory is as follows:12345.
The factory code can be changed by the installer, who in this case will supply the new code to the system operator.

Operations that can be performed by the Master user:
Management functions
•   Activation/deactivation of all remote controls.
•   Management of Thermostats
•   Arming/disarming of all operating programs.
•   Partial disarming of programs.
•   Viewing of the event history memory.
•   Clearing the control panel event memory.
•   Silencing (blocking telephone calls in progress).

Programming functions
•   Changing the System date and time.
•   Definition of the zones to which the chime function is associated (Chime - zone opening signalling).
•   Definition of the operating parameters of the System's programs: zones belonging to the program, programming of input 1 and 2 delay times, exit delay, delay confirmation of disarming .
•   Enabling or disabling the operation of the time programmers, defining the access time slots in which other users can access the site protected by the System.
•   Customisation of the operating parameters of the System telephone section, made up of the GSM and IP telecommunication carriers.For them it is possible to program: the telephone numbers and/or IP addresses used by the communicators to contact and notify the system's functional and alarm events, for making test calls and Call Back.
•   Programming of the Master access code and its functions.
•   Programming of User access codes and their functions.
•   Programming of key operating parameters and storage (acquisition) of new keys.
•   Programming of the operating parameters of the wireless keys.
•   Adjustment of the audio volume of the consoles and enabling the specific or general reproduction of voice messages.
•   The Master user can isolate the Protection Zones.Isolation is an action that places the zone completely out of service or more generally the detection device that belongs to the Zone.
•   Access to the Test menu with which to perform functional tests and check the System firmware versions.
•   Access to the Options menu.
•   Access to the Thermostats menu.

1-5 - Level 2 Standard and Privileged users

The control panel can store and manage user codes, for each of them it is possible to define a customised functional profile.The user with a code, can arm/disarm the system operating programs assigned to his/her code and activate or deactivate the remote controls.The functionality of the user codes is defined and supervised by the user with the Master code.

Operations that Standard users can perform:
Management functions
The management functions illustrated are of a general nature, the actual functionality of the various User codes depends on the programming of the functionality given to each individual code.
•   Activation/deactivation of all remote controls.
•   Thermostat management.
•   Arming/disarming of the operating programs assigned to the code.
•   Partial disarming of System programs (if enabled).
•   Viewing of the event history memory.
•   Clearing the control panel event memory.
•   Silencing (blocking telephone calls in progress).

Standard user programming functions
Standard user codes cannot access the programming menus.

Privileged user programming functions
The Master user can switch the user codes from Standard status to Privileged status, associating the "Privileged" attribute to them.
The privileged user codes can access some programming menus.
•   Telephone Menu.
•   Isolation Menu
•   Options Menu.
•   Thermostats Menu.

1-6 - Interoperability from Evolution App

The installer can program the interoperability of the system with the Evolution App.After having downloaded the Evolution management App for free on his/her smartphone or tablet, iOS or Android device, the user can remotely perform all the management, implementation and control of the EV 4-24 System.

The app allows the user to interact remotely with the system, to manage the activity of the zones, programs, remote controls and thermostats in a simple and intuitive way, to interact with home automation systems and, if the system is equipped with EV CAM BWL detectors, request the taking of photos to view the protected areas.The notification of the alarm events of the Evolution Systems equipped with EV CAM BWL detectors is accompanied by the sequence of photos taken as a result of an alarm (Video Verification).

The Evolution app transmits push notifications regarding your system's operating events to your mobile devices.

To consult the events archive, the Evolution app is equipped with filters that simplify the event search activity.The user can configure the App by programming quick commands, which allow you to speed up the program management activities and the implementation of the remote controls.

1-7 - Interoperability by phone

By calling the system by phone and sending DTMF tones to it, it is possible to query its general status, activate or deactivate the operating programs and remote controls.To interact with the System, it is necessary to enter an access code (Master or User); on recognising the code, the System responds by vocally listing the available operating options.

1-8 - System Maintenance

In order for the burglar alarm system to operate effectively, it is the customer's responsibility to organise a preventive maintenance programme.

The checking frequency depends on several factors; however, an assessment carried out on average every 6 months is recommended (unless otherwise specified).

Maintenance must be entrusted to specialised technical personnel who have the necessary training, knowledge and equipment to carry out adequate maintenance operations.

It is assumed that the skills needed to carry out adequate maintenance operations can be provided by those who developed the project and installed it.

For this, there are specific guidelines reported in CLC/TS 50131-7.

Remember that the aforementioned technical specifications and standards also allow maintenance to be performed remotely.

In a maintenance plan, which includes two checks per year, one of the two can be performed remotely.

The most important checks are as follows:
- Status of power supplies and accumulators (APS) present on the control panels.
- Status of the batteries powering all wireless devices: detectors, consoles, sirens, wireless keys etc.
- Status of the accumulators of the self-powered devices, sirens and telephone communicators.
- Performance verification of the perimeter and volumetric detectors, with checking the coverage area.
- Efficiency of the control devices and related entry/exit procedures and program arming.
- Optical and acoustic efficiency of local notification devices.
- Efficiency of telematic notification devices, execution of notification transmission tests.
- Correct detection and management of the System Tamper protection circuit.
- Verification of secondary functions such as hold-up alarm button, etc.
- Checking cables are properly connected to the terminal boards.
- Drawing up the final inspection report, signed by the maintenance technician and accepted by the customer.

2 - CONTROL DEVICES

2-1 - Key reader EV PROX BWL

The RFID EV PROX BWL transponder key reader is a battery-powered radio device. In order to reduce power consumption, it is always off. You need to press the management button to turn it on.

With the EV PROX BWL reader, it is possible to manage up to 3 programs freely chosen from the programs of the System; the reader is equipped with three LEDs that indicate the status of the programs, a status LED and a management button that integrates the reading area for RFID proximity keys, EV KEY.

The command of the programs is always validated by the recognition of a valid EV KEY, the subsequent program management operations can be carried out using the EV KEY or the management button.

The way the programs, key or button are managed is defined by System programming.

L 2
L1   L3
LED OCG

Management button and key reading area

LED INDICATORS				
L1 - Program LED (red)	**L2 - Program LED** (yellow)	**L3 - Program LED** (green)	**OCG - Status LED** (yellow)	
Off	Program disarmed		**Off**	No alarms
Fast flashing	Program selected		**Flashing**	Arming with open zones
Slow flashing	Program arming or partset			Alarm or fault in progress
On	Program armed		**On**	Alarm or fault memory

MANAGEMENT BUTTON AND KEY READING AREA
The management button allows you to switch on the reader, query the status of the programs and, if allowed by system programming, manage the program arming and disarming.
RFID key reading area, the key can only be read if it is placed over the reading area.
When the button is pressed, the reader emits a Beep and turns on the backlighting LEDs, the Beep is emitted each time the button is pressed and/or each time the key is recognised; with each key recognition the backlighting LEDs emit a rapid flash.
The reader stays on for about 18 secs. Each time the button is pressed or the key reading increases the maximum on time by another 18 secs.

SIGNALING OF GENERAL STATES OF THE CONTROL PANEL		
The table lists how the EV PROX BWL key reader displays the functional states of the control panel by flashing the LEDs. The functional states are displayed after approaching the RFID key to the reading area		
Central State	**Led**	**EV PROX BWL**
Maintenance	L1, L2, L3, OCG They flash	**Central under maintenance.** Non è possibile accedere al dispositivo
Access denied	L1, L2, L3, OCG They flash	**Access denied.** - Key recognized but not enabled - Key recognized but not within the access time range - Key recognized but operation not allowed during fault/self-protection
Access block	L1, L2, L3, OCG they flash fast	**Unrecognized key.** Device blocked

2-2 - EV CMD BWL wireless key - Command status signalling

The EV CMD BWL two-way wireless key is equipped with three activation buttons with which it is possible to control the operating programs of the system and/or the remote controls and a query button, with which it is possible to request the operating status of the commands managed.

The programming of the wireless key determines the function of the activation buttons, the operating mode of the buttons is defined by the association of the operating attributes.

The three activation buttons of the wireless key are equipped with a red LED indicator, the query button is equipped with a two-colour red and green LED indicator.The LEDs provide information on the status of the activation during the command and query operations.

Button 1 Button 2
Button 3 Button 4

LEDS FOR THE ACTIVATION BUTTONS 1 - 2 - 3	
Activation	**Command phase - activation or deactivation** The LED of the button activated flashes quickly.
Response to activation or query	**Response phase** The LEDs of the buttons relating to the active commands come on for one second.. The LEDs of the commands being activated flash for one second. The LEDs of the buttons relating to the inactive commands remain off.
LED OF QUERY BUTTON 4	
Query	**Query phase** The LED emits two flashes in rapid sequence: the first red (transmission request) the second green (response received)
Activation	**Command phase - activation or deactivation** Command activated: the LED emits a green flash Command not activated: the LED emits three red flashes, transmission failed.

2-3 - Management consoles - Program status signalling

EV 430 PROX Console
Panel A - The status of the programs is shown in the centre of the display by six icons that change colour depending on the program status

PROGRAM STATUS ICONS				
Grey	Program not inserted		Flashing yellow	Program being inserted/partial
Yellow	Program Inserted		Red	Alarm in memory
Yellow Program inserted	Flashing red Alarm in progress		Yellow Program inserted	Red Alarm in memory
Flashing yellow and red	Partial program Alarm in progress		Flashing yellow	Red
			Program being inserted/partial with Alarm in memory	
Blink - Indicates the colour of the flashing				

EV LCD, EV LCD BWL and EV LCD-AL BWL consoles.
The consoles indicate the status of the programs in the same way.
Box A - The status of the programs is shown on the top left of the display through six icons with dynamic perimeter.
Box B - The status of the programs is displayed by the LEDs located under the program command buttons, each button is accompanied by a pair of LEDs.

DISPLAY ICONS - PROGRAM OPERATING STATUS									
1	Program disarmed	1	Program armed	1	Partset program	1	Program in alarm	1	Stored program alarm

PROGRAM STATUS LED INDICATOR	
P1	The yellow LED indicates the status of the program: disarmed, arming, armed and partset.During the program start-up phase, the LED flashes quickly for 10 sec. (pre-arming status) during the pre-arming it is possible to arm or disarm other programs and to exclude Zones.
Off	Program disarmed
On	Program disarmed
Flashes quickly	Program arming and/or exit time
Flashes slowly	Partset
RED LEDS - ALARM SIGNALS AND ALARM MEMORY	
P1	The red LED flashes to signal the alarm status of the program, at the end of the alarm time the LED turns on steady to signal the storage of an alarm. The memory signal remains until the next arming.
Off	No signal
Flashes	During the program alarm time
On	Program alarm memory

2-3.1 - EV 430 PROX Console

The EV 430 PROX console lets you manage the operating programs of the System, interact with the remote controls and thermostats, and access the consultation and programming menus of the System reserved for the user.
In standby the console displays the time and temperatures in a low light, touch the display to access console information and functions.
System information and functions are displayed with icons in three areas, which can be seen in boxes **A, B, C**.
The console comes with an integrated RFID key reader; keys allow you to insert, disconnect and make partial System programs.

Tecnoalarm Logo
Key reading area

BOX A		
Default / **Alert**	**Information on System status.** Tap to enter the page that displays System information. • The page displays the detail icons and, if programmed by the installer, the splash info message. • When there is new information, the Alert icon replaces the Default icon.	

DETAIL ICONS			
Notifications can be filtered by selecting and deselecting detail icons.			
Zone alarm status	Tampering status	Anomalies / Faults Status	Isolated zones and/or devices

✉	**Information messages**. The icon shows there is a message (if programmed by the installer). Tap the icon to view the message.

	Primary thermostat associated with the console. The icon indicates the temperature detected by the climate sensor associated with the console and the status of the thermostat

THERMOSTAT STATUS ICONS			
Gray flame Thermostat: off (operation deactivated)	**Orange flame** Thermostat: on Mode: Winter Control Output: ON	**Gray flame** Thermostat: on Mode: Winter Control Output: OFF	**Blue nowflake** Thermostat: on Mode: summer Control output: ON
Gray nowflake Thermostat: on Mode: summer Control output: OFF	**Orange flame Blue nowflake** Thermostat: on Mode: Anti-freeze Control output: ON	**Gray flame Nowflake Blue** Thermostat: on Mode: Anti-freeze Control output: OFF	**Yellow icon** Thermostat in block

20.2°C 🔥

19.6° C	**Secondary thermostat not associated with the console.** The icon displays the temperature detected by the climate sensor not associated with the console.

	Mains power. The icon indicates the status of the mains power

MAINS POWER STATUS ICONS	
Presence of mains power 230V AC	No mains power 230V AC.

4G	**GSM Phone module information** The icon indicates the mobile signal strength and network used. Tap the icon to display details on the phone module.

📞	**Current call** The icon indicates a call in progress by the control panel. Tap the icon to stop the call cycle. (Operation allowed only under particular operating conditions)

BOX B

	Arming / disarming programs. Tap to display the program management keys. Insert or disable with option A or B. **A - Arming / disarming.** To insert or disable tap the program key. The console prompts you to type the code or recognise the key. **B - Quick arming / disarming.** The feature must be enabled by the installer. To insert or disable tap the program key. In this case the console does not prompt you to type the code or recognise the key.
	Displays the status of the zones associated with the programs. - Tap to display the program keys. - Tap the program key to view the status of the associated zones.
	Activation / deactivation of remote controls. Tap to view the remote controls. Activate or deactivate with option A or B. **A - Activation / deactivation.** To activate or deactivate the remote control, tap the key. The console prompts you to type the code. **B - Quick activation / deactivation.** The feature must be enabled by the installer. To activate or deactivate the remote control, tap the key. In this case the console does not prompt you to type the code.

REMOTE CONTROL STATUS ICONS			
	Grey		**Yellow**
	Remote Control disabled		Remote Control enabled

	Programming thermostats. Tap to view the System thermostats. Enter with option A or B. **A - Thermostat menu. T**o access the menu, touch the thermostat key. The console asks you to type the code. **B - Quick thermostat menu. T**he feature must be enabled by the installer. To access the menu, touch the thermostat key. The console does not ask you to type the code.
	Panic alarm. To activate the panic alarm, press the icon for 2 seconds. The panic alarm function must be programmed by the installer.

BOX C	
Contextual help. Tap to enable contextual help mode. Tap the icon to view its function. To exit the mode, tap the contextual help icon.	
Abort announcement. Tap to stop the voice announcement.	
15/06/22 09:35	**Date and time.** Field that displays the date and time

DROP-DOWN MENU

	Zone status. Tap to view the list and statuses of system zones

ZONE STATUS ICONS						
Zone statuses can be filtered by selecting and deselecting the detail icons.						
	Closed zone		Open zone		Isolated zone	Tampered zone
	Survival zone		Fault zone		Masking zone	Low battery zone
	Power supply status at 230V AC absent zone					

	Erasing the memory. To clear the alarm memory, touch the icon and confirm by typing code.
	EV LCD console emulation. Tap to enter EV LCD console emulation mode. The emulation allows you to perform the operations (see emulation table) that can be performed with the EV LCD console.
	Settings. To access the settings menu, tap the icon and log in by typing code or recognising the key. The menu allows you to change the following parameters: volume of voice announcements, level and mode of backlighting, screen saver and graphic theme.

EMULATION TABLE	
The table lists the paragraphs that describe the operations that can be performed in emulation mode of the EV LCD console	
3-3.2	General arming and disarming (direct)
3-3.3	Quick arming and disarming (alternative mode onlya)
3-3.6	Remote Control Management
3-3.7	Consultation of the event log
3-3.8	Consultation of Open zones
3-3.9	Hold-up alarm act
3-3.11	Consultation of the Alarm memory
3-3.12	Clearing the Alarm memory
3-3.13	Master code operation
3-3.17	Restricted Access
4	THERMOSTATS

VIDEO TUTORIAL CONSOLE OPERATION

GENERAL CONSOLE STATUS ICONS	
The table lists the functional states in which the normal operation of the console is interrupted. In some states it is still possible to open the dropdown menu and access the allowed functions	
	No serial communication Contact your installer.
	Active console fault. Contact your installer. In this condition, no function can be accessed.
	Synchronisation is in progress. Wait for synchronisation to end
	Wrong code or key. Wait for the console to unlock before logging in again
	Control panel in maintenance. The System is under maintenance, it is possible to operate only on the console from which it was accessed via installer code.

2-3.2 - EV LCD console

With the EV LCD console it is possible to manage the operating programs of the System, interact with the remote controls, and access the system consultation and programming menus reserved for the user.
The console displays the operating statuses of the system using two groups of icons, visible in boxes **A** and **B**.

Box A
Operating statuses shown by dynamic icons on the display, the mobile signal icon constantly shows the signal strength, other signalling icons are shown on the display only when the event occurs.

Box B
Operating statuses displayed by graphic icons with LEDs, the icons are located horizontally on the right below the display, they provide use and fault signals.

ICON/LED INDICATORS					
General fault status (yellow LED)		Console in use (green LED)		Tamper alarm status (red LED)	
Off	Status OK	Off	Waiting	Off	Status OK
On	Fault memory	On	Console in use	On	Alarm memory*
Fast flashing	Active fault			Flashing	Active alarm
Slow flashing	Telecommunication fault				
Operating status of the system batteries (yellow LED)		Control panel electrical power supply status (green LED)		Key code reading (green LED)	
Off	Status OK	Off	Power failure	Off	Waiting
On	Low battery memory	On	Status OK	Flashing	Key read
Flashing	Battery faulty or out of power				

*Warning: the tamper memory can only be cleared by the installer

DYNAMISCHE PICTOGRAMMEN WEERGEGEVEN OP HET DISPLAY					
Telecommunication in progress		No 230V AC power supply		General low battery signalling		General fault signalling
Tamper signalling		Active console fault		No wireless communication		GSM mobile signal strength dynamic indication
! SIG Insufficient mobile signal strength		4G Mobile network used dynamic indication		! SIM SIM Card not detected		Thermostat in operation Control output OFF
Thermostat in operation Control output ON		Thermostat blocked				

① ② ③ ④ ⑤ ⑥ ‖‖ 4G EXIT | Displays the temperature and humidity (in the presence of EV TERMBWL)
11:02 System ok

T1=22.0°_ RH1=57% EXIT | Displays the time and date
T2=21.0°_ RH2=60%

Thu 16-MAY-20
11:02   Work

① ② ③ ④ ⑤ ⑥ ‖‖ 4G MEM | Displays stored alarms
11:02 System ok

ALARM MEMORY
None

① ② ③ ④ ⑤ ⑥ ‖‖ 4G YES | Displays all open zones
11:02 System ok

View open zones
Control panel

① ② ③ ④ ⑤ ⑥ ‖‖ 4G P1 ... P6 | Each key displays the open zones of the relevant program
11:02 System ok

View open zones
Program 1

General consultations

Pressing any key lets you access the display of various status information, you don't need to enter a code to access this information.
Some of the information shown on the display is provided by the console as a voice message.

① ② ③ ④ ⑤ ⑥ ‖‖ 4G MEM | Display the message Splash info
11:02 System ok

Notes | If Splash info is not programmed
from the installer | the stored alarms are displayed

ALARM MEMORY
None

Display of the Splash info

To display the splash info message programmed by the installer, press the **MEM** key**.**

Display Splash info + memory

First typing of the **MEM** key displays the message, the second typing of the MEM key displays the stored alarms

① ② ③ ④ ⑤ ⑥ ‖‖ 4G 1 | Enter the Code
11:02 System ok 2
 3
***** 4
End with YES 5
 YES

- ACCESS - | Choose the procedure
Master

Management with Code

For operations that require the entry of an access code, it is possible to directly enter the code and carry out the desired management operations.
All management procedures are fully described on the following pages.

① ② ③ ④ ⑤ ⑥ ‖‖ 4G (((o))) Tecnoalarm | Have the key read
11:02 System ok

- ACCESS - P1 ... P6 | Select the programs
Key John

Management with RFID key

To arm and/or disarm the operating programs using an electronic key, it is necessary to have the key read by positioning it on the console, press the direct program command keys **P1... P6**.
All management procedures are fully described on the following pages.

2-3.3 - EV LCD BWL and EV LCD-AL BWL consoles

The EV LCD BWL console is a battery-powered radio device. In order to reduce consumption, the console is always off, to access consultation operations turn on the console by pressing any key as long as it is not a numeric key, for example use the **YES** key or one of the program command keys **P1... P6**. For all program arming and disarming operations, enter the code directly, pressing the first numeric key turns on the console.

The EV LCD-AL BWL console is a radio device with dual power supply: mains and battery In the case of mains power supply the operation is identical to the EV LCD keyboard. With LCD BWL and EV LCD-AL BWL consoles, it is possible to manage the system's operating programs, interact with the remote controls, and access the system's consultation and programming menus reserved for the user. The console displays the operating statuses of the system using two groups of icons, visible in boxes **A** and **B**.

Box A
Operating statuses shown on the display by dynamic icons, which constantly show the mobile signal strength
and the radio frequency signal strength, other signalling icons are shown on the display only when the event occurs.

Box B
Operating statuses displayed by graphic icons with LEDs, the icons are located horizontally on the right below the display, they provide use and fault signals.

ICON/LED INDICATORS					
	General fault status (yellow LED)		Reception/Transmission status (green LED)		Tamper alarm status (red LED)
Off	Status OK	Off	Waiting	Off	Status OK
On	Fault memory	On	Reception/Transmission in progress	On	Alarm memory*
Fast flashing	Active fault			Flashing	Active alarm
Slow flashing	Telecommunication fault				
	Operating status of the system batteries (yellow LED)		Control panel electrical power supply status (green LED)		Key code reading (green LED)
Off	Status OK	Off	Power failure	Off	Waiting
On	Low battery memory	On	Status OK	Flashing	Key read
Flashing	Battery faulty or out of power				

*Warning: the tamper memory can only be cleared by the installer

DYNAMIC ICONS SHOWN ON THE DISPLAY							
	Telecommunication in progress		No 230V AC power supply		General low battery signalling		General fault signalling
	Tamper signalling		Active console fault		Icon displayed when entering the access code		Validation of the code or technical interval
	Console batteries out of power (operation interrupted)		No wireless communication		Reception/transmission attempts in progress		Authentication procedure in progress
	GSM mobile signal strength dynamic indication	! SIG	Insufficient mobile signal strength	4G	Mobile network used dynamic indication	! SIM	SIM Card not detected
	Radio frequency signal strength dynamic indication		0% radio frequency signal fault	—	Thermostat in operation Control output OFF		Thermostat in operation Control output ON
	Thermostat blocked						

	YES	Turn on the console
①②③④⑤⑥ ⊪4G 22.0°_ System ok ⬚	**EXIT**	Displays the temperature and humidity (in the presence of EV TERMBWL)
T1=22.0°_ RH1=57% T2=21.0°_ RH2=60%	**EXIT**	Displays the time and date
Thu 16-MAY-20 11:02 Work		
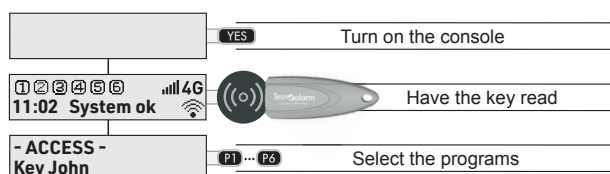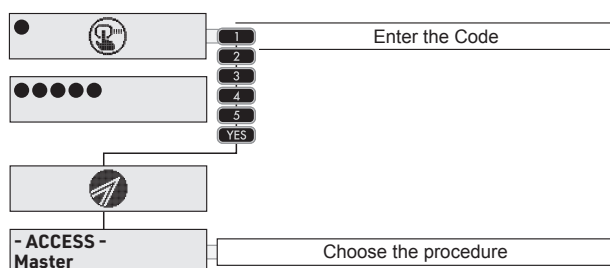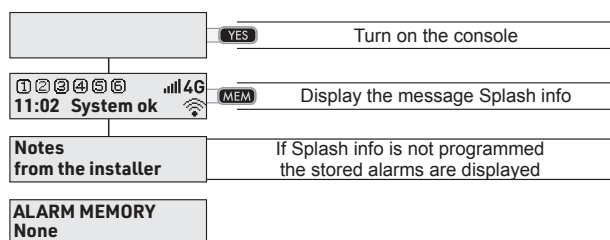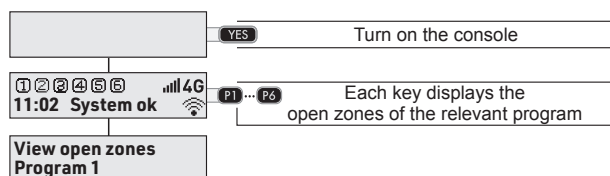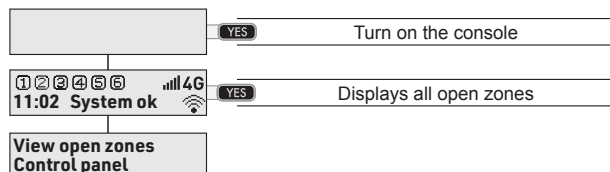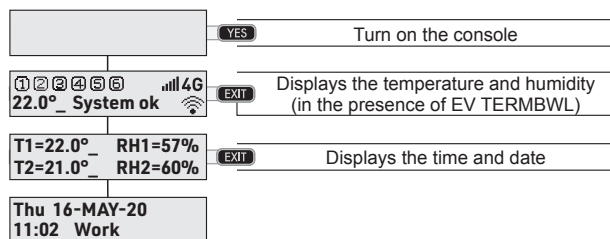
General consultations

To access the consultation functions, you must turn on the console with any key, as long as it is not a numeric key, we recommend using the **YES** key.

Pressing any key lets you access the display of various status information, you don't need to enter a code to access this information.

	YES	Turn on the console
①②③④⑤⑥ ⊪4G 11:02 System ok	**YES**	Displays all open zones
View open zones Control panel		

	YES	Turn on the console
①②③④⑤⑥ ⊪4G 11:02 System ok ⬚	**P1** ... **P6**	Each key displays the open zones of the relevant program
View open zones Program 1		

	YES	Turn on the console
①②③④⑤⑥ ⊪4G 11:02 System ok ⬚	**MEM**	Display the message Splash info
Notes from the installer		If Splash info is not programmed the stored alarms are displayed
ALARM MEMORY None		

Display of the Splash info

To display the splash info message programmed by the installer, press the **MEM** key.

Display Splash info + memory

First typing of the **MEM** key displays the message, the second typing of the **MEM** key displays the stored alarms

● ⟨⑪⟩	1 2 3 4 5 YES	Enter the Code
●●●●●		
⟨↗⟩		
- ACCESS - Master		Choose the procedure

Management with Code

For operations that require the entry of an access code, it is possible to directly enter the code and carry out the desired management operations.
All management procedures are fully described on the following pages.

	YES	Turn on the console
①②③④⑤⑥ ⊪4G 11:02 System ok ⬚	(((•))) Tecno alarm	Have the key read
- ACCESS - Key John	**P1** ... **P6**	Select the programs

Management with RFID key

To arm and/or disarm the operating programs via electronic key, it is necessary to turn on the console with any key, as long as it is not a numeric key, we recommend using the **YES** key, have the key read by positioning it on the console, press the direct program command keys **P1... P6**.
All management procedures are fully described on the following pages.

3 - MANAGEMENT MODES

3-1 - Management with key reader

With the EV PROX BWL key reader it is possible to manage the arming and disarming of the associated programs (maximum three). System programming defines the operating mode of the EV PROX BWL reader: program selection by key, or, program selection by button.

3-1.1 - Program selection by key

Program arming		
The procedure allows you to arm one program at a time, to arm more programs repeat the procedure. Arming takes place in two stages		
1	**Turn on the reader**	Press the button
2	**Select the program**	Move the key up to and away from the reading area, one or more times, until the desired program is selected

Operations	Press the button	Move the key close, one or more times, until the desired program is selected		
Program status	Programs disarmed	Program selected	Program arming	Program armed
LED	Program LEDs off	The program LED flashes fast	The program LED flashes slowly	At the end of the Time-out the reader turns off

Program disarming		
The procedure allows you to disarm one program at a time, to disarm more programs repeat the procedure. Disarming is carried out in two stages		
1	**Turn on the reader**	Press the button
2	**Select the program**	Move the key up to and away from the reading area, one or more times, until the desired program is selected

Operations	Press the button	Move the key close, one or more times, until the desired program is selected	
Program status	Programs armed	Program selected	Program disarmed
LED	Program LEDs on	The program LED flashes fast	Program LED off

	Program arming with exclusion of open zones	
The procedure allows you to arm a program excluding open zones, after selecting the program to be armed, the OCG LED flashes indicating the presence of open zones. The procedure is carried out in three stages	
1	**Turn on the reader**	Press the button
2	**Select the program**	Move the key up to and away from the reading area, one or more times, until the desired program is selected
3	**Exclude open zones**	Move the key up to the reading area, the OCG LED turns off and the program is armed excluding the open zones
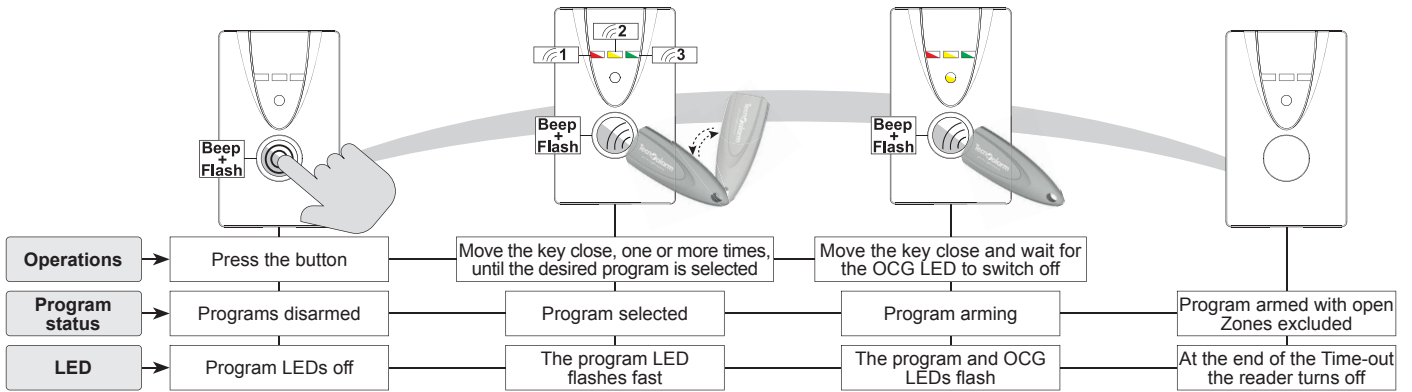
Operations	Press the button	Move the key close, one or more times, until the desired program is selected	Move the key close and wait for the OCG LED to switch off	
Program status	Programs disarmed	Program selected	Program arming	Program armed with open Zones excluded
LED	Program LEDs off	The program LED flashes fast	The program and OCG LEDs flash	At the end of the Time-out the reader turns off

	Partial disarming of the programs armed	
The procedure allows you to partially disarm the activated programs, partial disarming can only be performed by the keys enabled for this function. The procedure is carried out in two stages	
1	**Turn on the reader**	Press the button
2	**Partially disarm the programs**	Move the key enabled to perform partial disarming of programs close to the reading area

Operations	Press the button	Move the key close	
Program status	Programs armed	Partial disarming in progress	Programs partset
LED	Program LEDs on	The program LEDs flash slowly	At the end of the Time-out the reader turns off
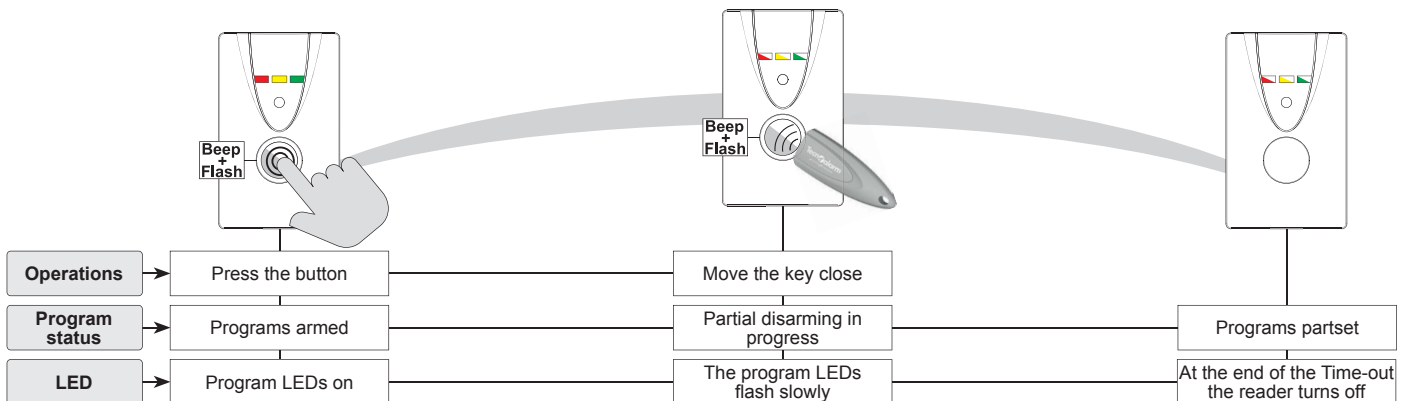
3-1.2 - Program selection by button

	Program arming	
The procedure allows you to arm one program at a time, to arm more programs repeat the procedure. Arming is carried out in three stages		
1	**Turn on the reader**	Press the button
2	**Activate the reader**	Move the key up to the reading area
3	**Select the program**	Press the button, one or more times, until the desired program is selected

Tap 2
Tap 1   Tap 3
Beep

Beep + Flash

Beep + Flash

To arm another program repeat the sequence

Operations	Press the button	Move the key close to activate the reader	Press the button, one or more times, until the desired program is selected		
Program status	Programs disarmed		Program selected	Program arming	Program armed
LED	Program LEDs off		The program LED flashes fast	The program LED lashes slowly	At the end of the Time-out the reader turns off

	Program disarming	
The procedure allows you to disarm one program at a time, to disarm more programs repeat the procedure. Disarming is carried out in three stages		
1	**Turn on the reader**	Press the button
2	**Activate the reader**	Move the key up to the reading area
3	**Select the program**	Press the button, one or more times, until the desired program is selected

Tap 2
Tap 1   Tap 3
Beep

Beep + Flash

Beep + Flash

To arm another program repeat the sequence

Operations	Press the button	Move the key close to activate the reader	Press the button, one or more times, until the desired program is selected		
Program status	Programs armed		Program selected		Program disarmed
LED	Program LEDs on		The program LED flashes fast		Program LED off

	Program arming with exclusion of open zones	
The procedure allows you to arm a program excluding open zones, after selecting the program to be armed, the OCG LED flashes indicating the presence of open zones. The procedure is carried out in four stages		
1	**Turn on the reader**	Press the button
2	**Activate the reader**	Move the key up to the reading area
3	**Select the program**	Press the button, one or more times, until the desired program is selected
4	**Exclude the zones**	Press the button, the OCG LED turns off and the program is armed excluding the open zones

Operations	Press the button	Move the key close to activate the reader	Press the button, one or more times, until the desired program is selected	Press the button and wait for the OGC LED to go off	Program armed with open Zones excluded
Program status	Programs disarmed		Program selected	Program arming	
LED	Program LEDs off		The program LED flashes fast	The program and OGC LEDs flash	At the end of the Time-out the reader turns off
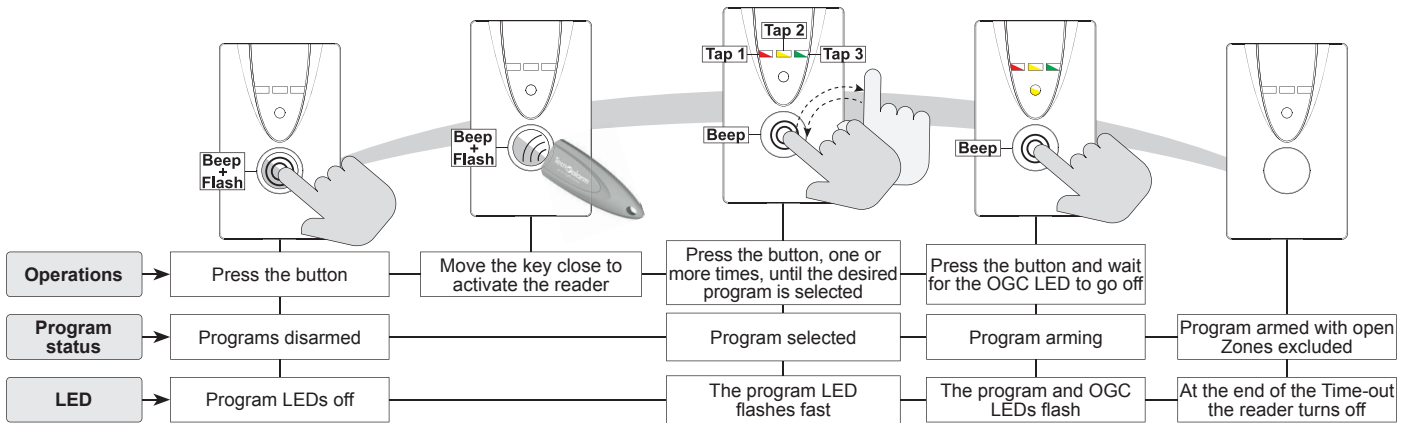
	Partial disarming of the programs armed	
The procedure allows you to partially disarm the activated programs, partial disarming can only be performed by the keys enabled for this function. The procedure is carried out in three stages		
1	**Turn on the reader**	Press the button
2	**Activate the reader**	Move the key enabled to perform the partial disarming of programs close to the reading area
3	**Partially disarm the programs**	Press the button to partially set the programs

Operations	Press the button	Move the key close to activate the reader	Press the button to partially disarm the programs	
Program status	Programs armed		Programs being partially set	Programs partset
LED	Program LEDs on		The program LEDs flash slowly	At the end of the Time-out the reader turns off

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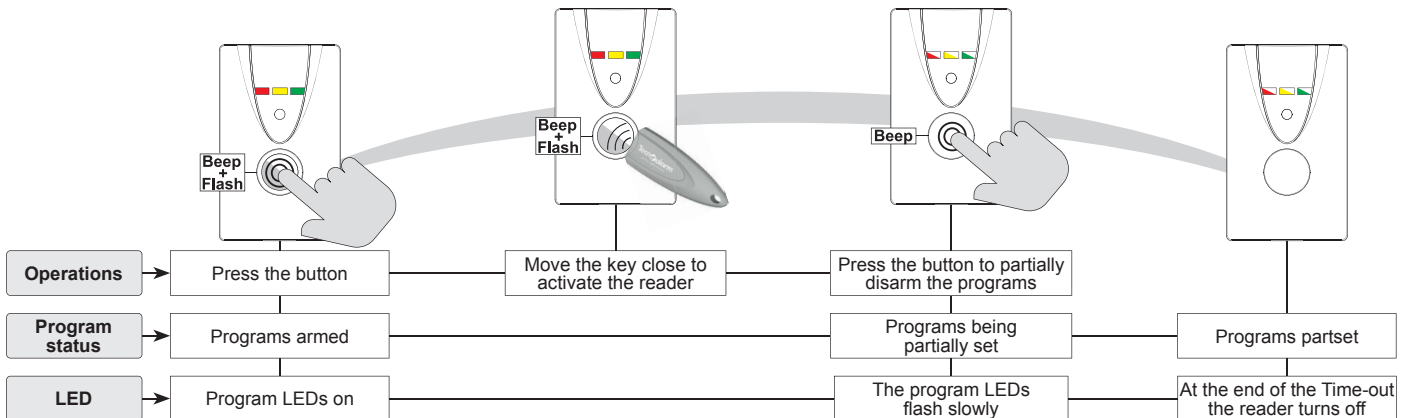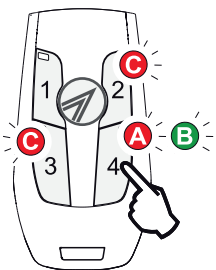
3-2 - Management with Wireless Key
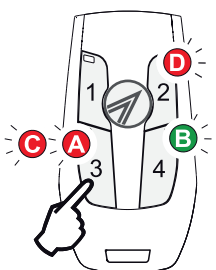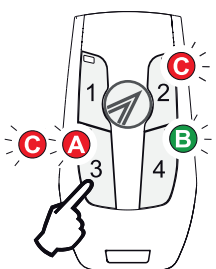
The EV CMD BWL two-way wireless key is equipped with three activation buttons with which it is possible to control the operating programs of the system and/or the remote controls and a query button, with which it is possible to request the operating status of the commands managed.
The three activation buttons of the wireless key are equipped with a red LED indicator, the query button is equipped with a two-colour red and green LED indicator.The LEDs provide information on the status of the activation during the command and query operations.
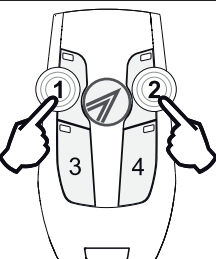
Instructions for use

Warning: to prevent premature battery depletion, do not press the buttons of the wireless key when you are outside the coverage area of the System. In these conditions, the wireless key, not receiving a response from the system, makes repeated and useless transmission attempts, with consequent unnecessary energy consumption.

STATUS QUERY	
The status of the commands can be queried by pressing key 4. The query process is divided into three phases in rapid sequence marked by the lighting up of the LEDs.	
A **Send query**	The key LED emits a fast red flash.
B **Receive response**	The key LED emits a fast green flash.
C **View statuses**	The LEDs of the keys relating to the commands which appear to be in the active status light up simultaneously for one second.

ACTIVATING THE COMMAND	
The activation command is given by pressing the keys: 1, 2, 3. The activation process is divided into four phases in rapid sequence marked by the lighting up of the LEDs.	
A **Send command**	The LED of the pressed key emits a series of fast red flashes.
B **Receive response**	The key 4 LED emits a fast green flash.
C **View activation**	The LED of the pressed key emits a series of fast red flashes.
D **View statuses**	The LEDs of the keys relating to the commands which appear to be in active status light up simultaneously for one second.

DISABLING THE COMMAND	
The disabling command is given by pressing the keys: 1, 2, 3. The disabling process is divided into three phases in rapid sequence marked by the lighting up of the LEDs.	
A **Send command**	The LED of the pressed key emits a series of fast red flashes.
B **Receive response**	The key 4 LED emits a fast green flash.
C **View statuses**	The LEDs of the keys relating to the commands which appear to be in active status light up simultaneously for one second.

PANIC ALARM ACTIVATION	
	Pressing keys 1 and 2 simultaneously for at least one second triggers the panic alarm signal. **Warning:** the function is only active if programmed by the installer. The alarm mode is defined by the programming given to the system.

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Wireless burglar alarm system

3-3 - Management with console

3-3.1 - Selective arming and disarming

The selective arming and disarming modes allow the user to choose which programs to arm or disarm.
The arming and disarming of the programs is carried out in three phases: entering the code, selecting the programs and pressing the command.

1	Enter the Code	Enter the code followed by the **YES** key, if you make a mistake while entering the code, press **EXIT** and repeat the code entry from the beginning.
2	Select the programs	Press the command keys **P1 ... P6** relating to the programs you want to arm or disarm. If you make a mistake, press the key again, each time the key is changed from OFF to ON and vice versa.
3	Press the command	During arming, the **YES** key interrupts the selection phase and activates the programs.If you don' t press **YES** the programs activate anyway after 15sec.When disarming, the **YES** key instantly deactivates the selected programs. If you don't press **YES** , the programs are deactivated after 5sec.

3-3.2 - General arming and disarming (direct)

The general arming and disarming modes, arm and disarm all the programs associated with the code at the same time, with a single operation.Arming and disarming are performed in two phases: entering the code and command.The function can be enabled or disabled from Menu: 11 Codes > 3 Master code > 4 Attributes > 7 Dis. direct.

| 1 | Enter the Code | Enter the code followed by the **YES** key, if you make a mistake while entering the code, press EXIT and repeat the code entry from the beginning. |
| 2 | Press the command | To arm the programs, press the **YES** key. To disarm the programs, press the **NO** key. |
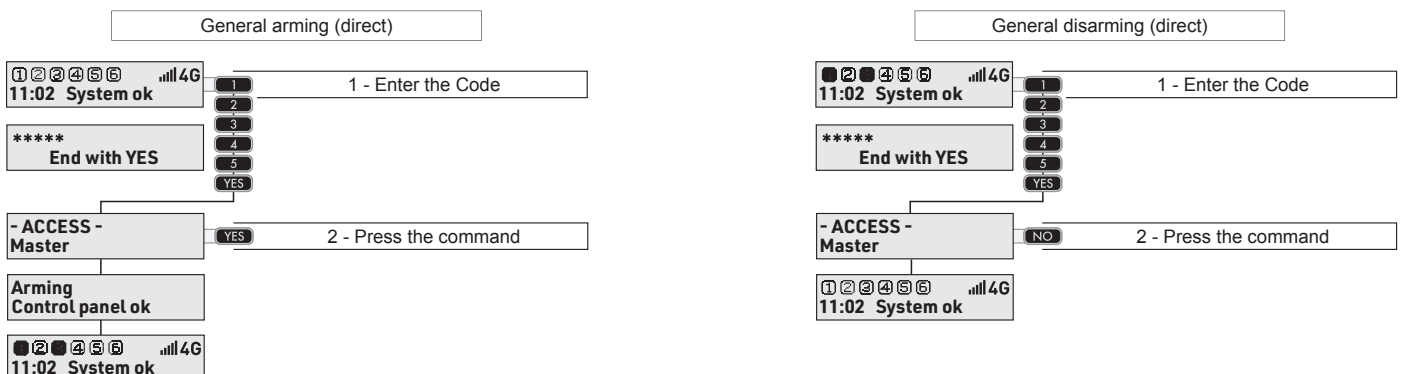
3-3.3 - Quick arming and disarming

The functions, Quick arming and/or Quick disarming, must be enabled by the installer, the programming of the two functions is independent, therefore the installer can enable either only one of the two functions or both.

The quick arming and disarming modes, arms or disarms the program without the need to enter the access code.Quick arming and disarming are carried out in two phases: program command key and command.

Warning: the Quick Arming and Disarming functions allow the user to act only on one program at a time, therefore to carry out the command on multiple programs it is necessary to repeat the sequence several times: program command key and command.

1	**Press the program command key**	Press the program command key you want to arm or disarm **P1.... P6**
2	**Press the command**	Press the **YES** key

Quick arming		Quick disarming	
①②③④⑤⑥ ....ıll 4G 11:02 System ok	P1 — 1 - Press the program command key	●②③④⑤⑥ ....ıll 4G 11:02 System ok	P1 — 1 - Press the program command key
View open zones Program 1	YES — 2 - Press the command	View open zones Program 1	YES — 2 - Press the command
Arming Program 1		Disarming Program 1	
●②③④⑤⑥ ....ıll 4G 11:02 System ok		①②③④⑤⑥ ....ıll 4G 11:02 System ok	
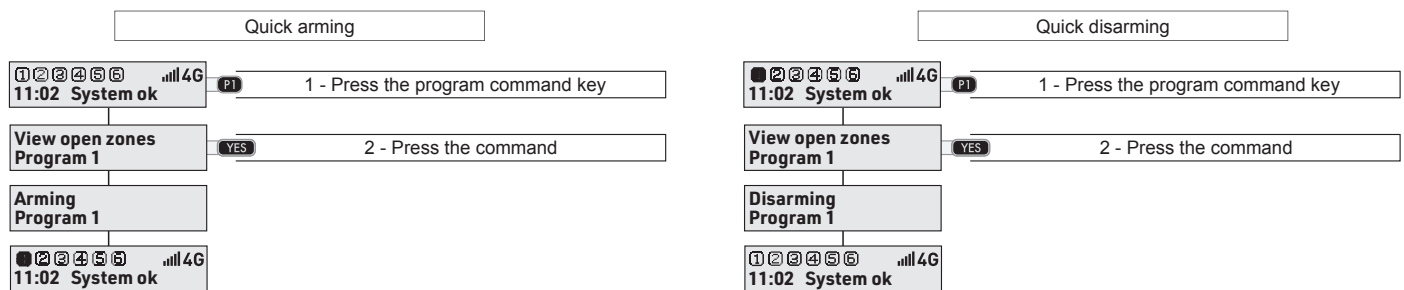
Alternative Mode

For quick arming and disarming, the console also manages an alternative mode which instead of the program command keys uses the numeric keys.

1	**Press the program number**	Press the number of the program you want to arm or disarm **1... 6**
2	**Press the command**	Press the **NO** key.

Quick arming		Quick disarming	
①②③④⑤⑥ ....ıll 4G 11:02 System ok	1 — 1 - Press the program number	●②③④⑤⑥ ....ıll 4G 11:02 System ok	1 — 1 - Press the program number
* End with YES	NO — 2 - Press the command	* End with YES	NO — 2 - Press the command
Arming Program 1		Disarming Program 1	
●②③④⑤⑥ ....ıll 4G 11:02 System ok		①②③④⑤⑥ ....ıll 4G 11:02 System ok	
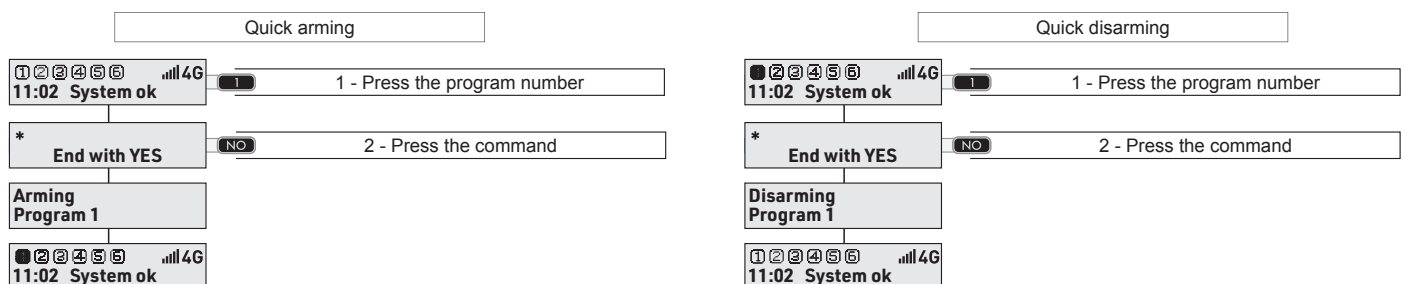
3-3.4 - Selective arming with voluntary Zone exclusion

The procedure allows the user to arm the programs selectively and to select the Zones to exclude from the operating session.
The arming takes place in four phases: entering the code, selecting the programs, confirming arming and selecting the zones to be excluded.

1	Enter the Code	Enter the code followed by the **YES** key, if you make a mistake while entering the code, press **EXIT** and repeat the code entry from the beginning.
2	Select the programs	Press the command keys **P1... P6** relating to the programs you want to arm. If you make a mistake, press the key again, each time the key is changed from OFF to ON and vice versa.
3	Confirm arming	Press the **YES** key to stop the selection phase and activate the selected programs. If you do not press the **YES** key, the selected programs are activated after 15 sec.
4	Zone exclusion	You can exclude open Zones and/or other Zones, which you want to exclude from operating in the current session. The excluded zones are automatically reactivated in the following operating session.

The possibility of excluding the Zones is allowed only for codes enabled to perform the function
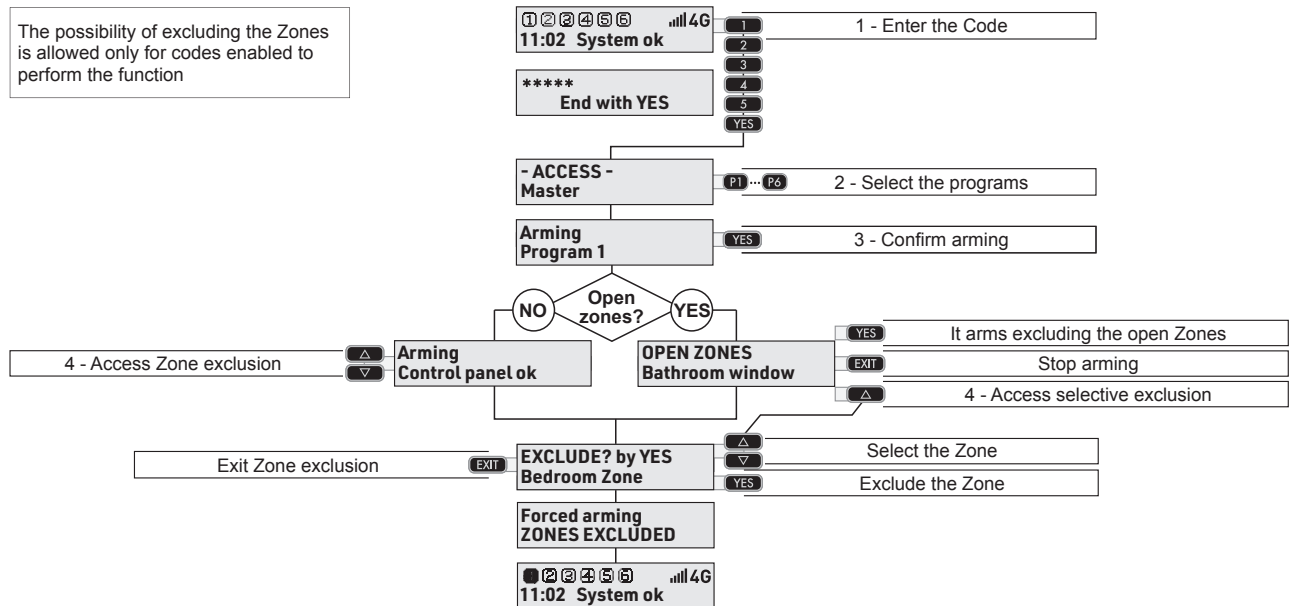
3-3.5 - General arming (direct) with voluntary Zone exclusion

The procedure allows the user to arm the programs selectively and to select the Zones to exclude from the operating session.The arming takes place in three phases: entering the code, confirming the arming and selecting the zones to be excluded.The function can be enabled or disabled from Menu: 11 Codes > 3 Master code > 4 Attributes > 7 Dis. direct.

1	Enter the Code	Enter the code followed by the **YES** key, if you make a mistake while entering the code, press **EXIT** and repeat the code entry from the beginning.
2	Confirm arming	Press the **YES** key, all the programs associated with the code are armed. If you do not press the **YES** key, the selected programs are activated after 15 sec.
3	Zone exclusion	You can exclude open Zones and/or other Zones, which you want to exclude from operating in the current session. The excluded zones are automatically reactivated in the following operating session.

The possibility of excluding the Zones is allowed only for codes enabled to perform the function
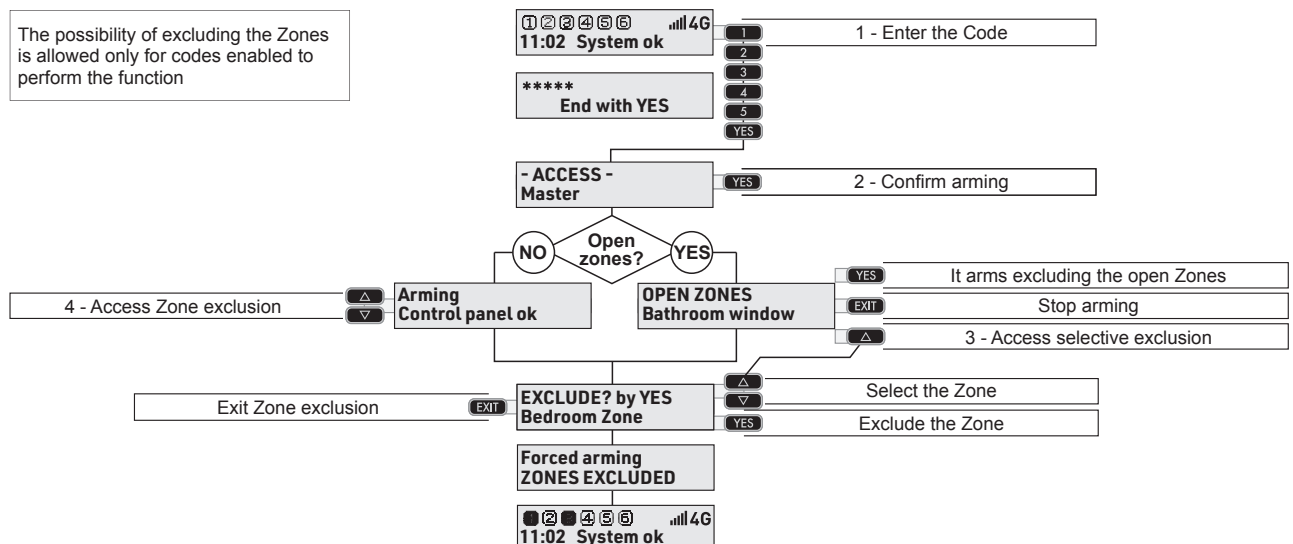
3-3.6 - Remote Control Management

The EV 4-24 system has 6 remote controls, the installer can assign a specific function to each remote control.
Users can check the status of the activated or deactivated remote control, and manage its operation by activating or deactivating it.
Access to the management of the remote controls may require you to enter an access code, or it can be direct, in this case a code is not required.The way to access the management of the remote controls depends on the system programming.

| Remote control 1 Activation [ ] | Remote control status not active ([ ]) |
| Remote control 1 Activation [#] | Remote control status active ([#]) |
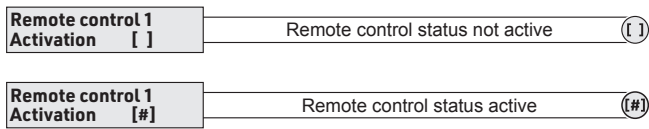
Status of the Remote Controls
The status of the remote control is indicated in square brackets if the number sign (#) is displayed inside the parentheses, the remote control is active (enabled), if the number sign is not displayed inside the parentheses the remote control is not active (disabled).

①②③④⑤⑥ ॥॥ 4G 11:02 System ok	1 2 3 4 5 YES	Enter the Code
***** End with YES		
- ACCESS - Master	▽	Select the Remote Controls menu
Access Remotes	YES	Access the Remote Controls
Remote control 1 Activation [ ]	△ ▽	Select the Remote Control
Remote control 2 Activation [#]	YES ([#]) NO ([ ]) ▽	Enable [#] or disable [ ] Remote Control / Select the next Remote Control
EXIT		
①②③④⑤⑥ ॥॥ 4G 11:02 System ok		
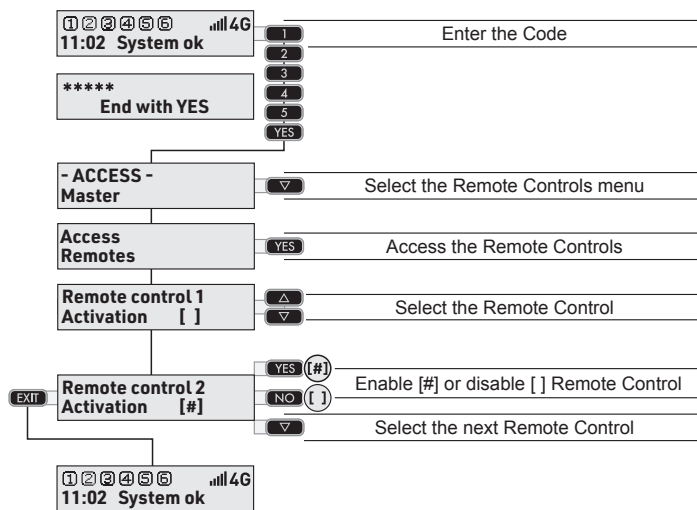
Access requires a code
Enter the access code.

Select the Remote Controls menu with the arrow key
Access the Remote Controls with the **YES** key.
Choose the remote control with the arrow keys.

To activate the remote control, press the **YES** key.
To disable the remote control, press the **NO** key.
Select another remote control with the arrow keys.

PTo exit the remote controls, press the **EXIT** key
or wait for the automatic exit from the function.

①②③④⑤⑥ ॥॥ 4G 11:02 System ok	▽	Access the Remote Controls
Remote control 1 Activation [ ]	△ ▽	Select the Remote Control
Remote control 2 Activation [#]	YES ([#]) NO ([ ]) ▽	Enable [#] or disable [ ] Remote Control / Select the next Remote Control
EXIT		
①②③④⑤⑥ ॥॥ 4G 11:02 System ok		

Direct access
Access the Remote Controls with the arrow key.
Remote control 1 is displayed.
Choose the remote control with the arrow keys.

To activate the remote control, press the **YES** key.
To disable the remote control, press the **NO** key.
Select another remote control with the arrow keys.
To exit the remote controls, press the **EXIT** key
or wait for the automatic exit from the function.
Warning: "Direct access" mode is possible
only if the installer has enabled the "Quick menu" function.

SUMMARY TABLE OF REMOTE CONTROLS		
Number	Name	Function
1		
2		
3		
4		
5		
6		

3-3.7 - Consultation of the event log

The control panel stores and archives all system operating events in the Event Log.
The stored events are kept as long as the available space allows, the EV 4-24 system event log can store up to 32,256 events, when another event must be recorded, the control panel records it by automatically deleting the oldest event.

Display	Action
①②③④⑤⑥ ⁂₄₄G 11:02 System ok	Enter the Code
***** End with YES	
- ACCESS - Master	Access the consultation
Viewing Events	Start the consultation
20/03 10:52:02 Access	Scroll down the list
Master	
Console 1	
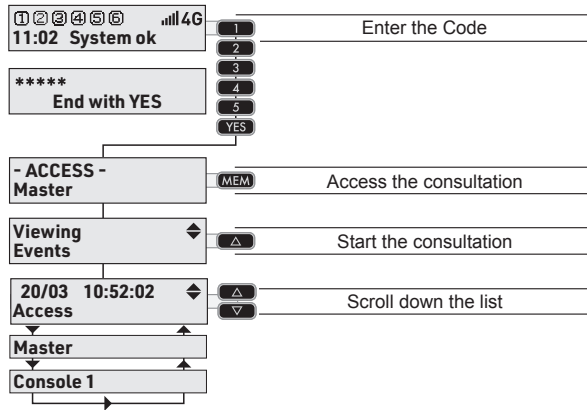
Consultation of the Event Log

The first line of the display shows the date and time of event recording.
The second line displays the description of the event automatically displaying, one after the other, the words that make up its description.

Exiting the consultation takes place automatically 15sec. after pressing the last key.

3-3.8 - Consultation of Open zones

The procedure for consulting the Open Zones allows you to check whether the System has open Zones.
The term open Zones indicates Zones which, due to their functional status, cannot be put into service.
The procedure displays the list of Zones that are open on the console display, the identification of the Zones allows the user to act and resolve the situation, for example by closing the doors and windows indicated in the list of open zones.
The consultation of the open Zones can be general (open zones of all programs) or selective (open zones of each individual program).
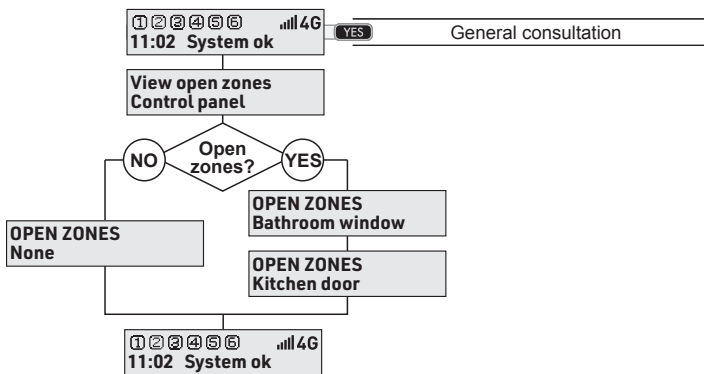
General consultation

To display all the open zones of the system, press the YES key.The display shows the list of all open Zones, not considering which program they belong to.
If the system has no open zone, the display shows "None".
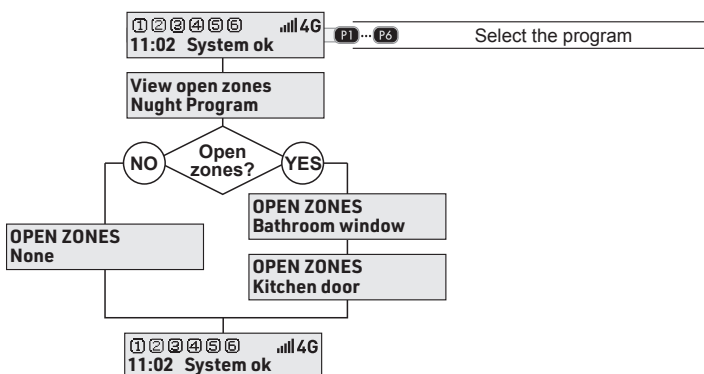
Selective consultation

To view the open Zones of the program, press the number of the program you want to consult, **P1... P6.**
The display shows the list of open Zones belonging to the selected program.
If the system has no open zone, the display shows "None".

3-3.9 - Hold-up alarm act

The Hold-up alarm can only be activated by codes enabled for the "Hold-up code" function. The Hold-up alarm can be activated by the user during the arming or disarming of the system, if the user is under threat, the latter can arm or disarm the System and at the same time trigger the Hold-up alarm.
Warning: the method of carrying out the Hold-up alarm, for the implications and related consequences, must be agreed with the user and/or with the person in charge of security of the protected site.
The Hold-up alarm activation mode can only be programmed by the installer.

Display	Key	Action
●②③④⑤⑥ �.ııll4G 11:02 System ok	1 2 3 4 5 YES	Enter the Code
***** End with YES	4	Decrease by one units
- ACCESS - Master	P1	Select the program
Disarming Program 1	YES	Disarm the program
①②③④⑤⑥ .ııll4G 11:02 System ok		
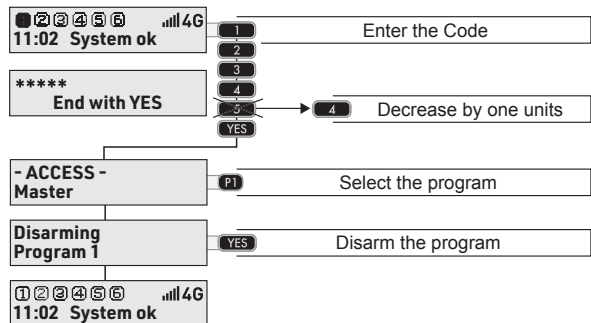
Activation mode
The normal arming or disarming procedure is used to trigger a Hold-up alarm, the only difference is to change the last digit of the code which must be decreased by one unit.
For example if the code normally used is 1,2,3,4,**5**.
In the event of coercion, the user will enter the code by decreasing the last digit by a unit, which is in this case 1,2,3,4,**4**
In the example shown, the last digit "5" becomes "4".

If the programmed code ends with the number "0" type the number "9"

3-3.10 - Panic alarm activation

The Panic alarm can be activated, from a console enabled to perform the function, at any time with the system armed or disarmed.
Warning: the activation and the execution mode of the Panic alarm can only be programmed by the installer.
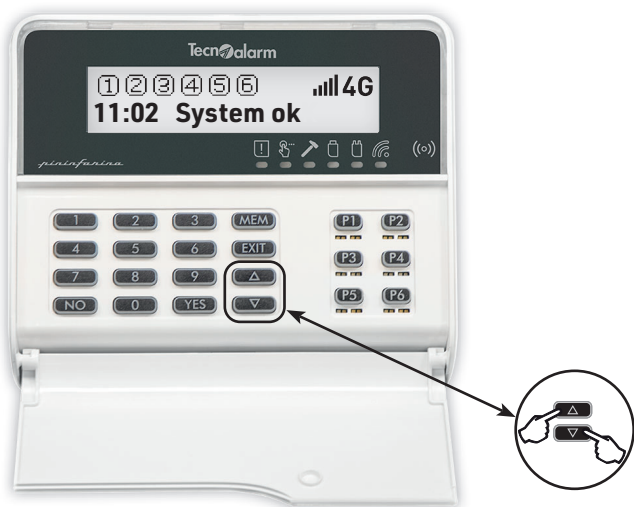
Panic alarm activation
To activate the "Panic" alarm, press the up and down arrow keys simultaneously for at least 2 seconds.

3-3.11 - Consultation of the Alarm memory

The control panel stores in the Alarm memory, the alarm events detected by the Protection Zones in the last operating session, the stored events are kept until the next operating session of the System.
When any program is activated, the contents of the alarm memory are automatically deleted, the alarm memory is thus ready to store any alarm events of the new operating session.
Warning: the tamper alarm memory can only be cleared by the installer.

Display	Key	Action
①②③④⑤⑥ .ııll4G 11:02 System ok	MEM	Access the consultation
ALARM MEMORY Control panel		
ALARM MEMORY Volum. Lunchroom		
Volum. Entrance		
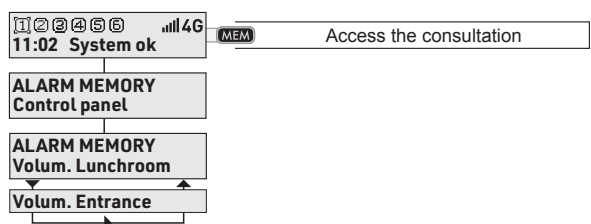
Consultation of the Alarm memory
To consult the memory, press the **MEM** key.
If the memory is empty, the display shows "None".
If the memory contains stored events, the display shows them one by one in sequence.

Exiting the consultation takes place automatically after a few seconds.

3-3.12 - Clearing the Alarm memory

As already mentioned, the control panel stores the alarm events detected in the last operating session, the stored events are automatically deleted when any program is activated, if you wish, it is also possible to clear the alarm memory manually.

Display	Key	Action
①②③④⑤⑥　ᵃ||4G　11:02 System ok	1 2 3 4 5 YES	Enter the Code
*****　End with YES		
- ACCESS -　Master	MEM	Access the consultation
Viewing　Events	EXIT	Clear the memory
Clear buffer		
①②③④⑤⑥　ᵃ||4G　11:02 System ok		
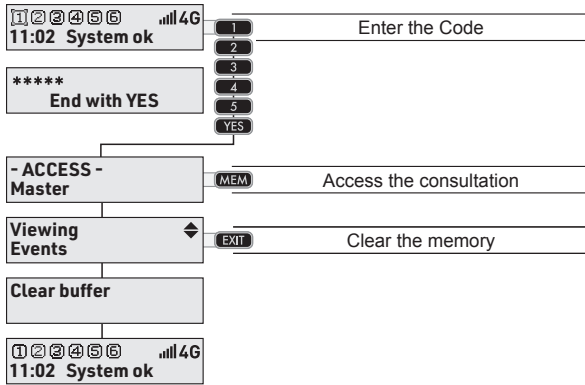
Clearing the Alarm memory
To clear the memory, enter the access code.
Press the **MEM** key followed by the **EXIT** key.

The console automatically exits the procedure

3-3.13 - Master code operation

The user with the Master code can access system programming. This code gives access to some programming menus.In stand-by, the displays of the control consoles show the status of the system, access to programming can be performed from any control console, access to programming puts all the other consoles that make up the system into stand-by status (consoles in stand-by status cannot operate).

Display	Key	Action
①②③④⑤⑥　ᵃ||4G　11:02 System ok	1 2 3 4 5 YES	Enter the Code
*****　End with YES		
- ACCESS -　Master	△	Select Remote Controls
Access　Remotes	△	Select Thermostat 2
Access　Thermostat 2	△	Select Thermostat 1
Access　Thermostat 1	△	Select Menu
Access　Menu	YES	Access the programming menus
Select the Access menu with YES	△ / ▽　0 ... 9　YES	

Menus:
- Menu Clock ②
- Menu Functions ⑤
- Menu Programs ⑥
- Menu Timers ⑨
- Menu Telephone ⑩
- Menu Codes ⑪
- Menu Keys ⑫
- Menu Wireless keys ⑬
- Menu Consoles ⑮
- Menu Wireless ⑰
- Menu Isolation ⑱
- Menu Test ⑲
- Menu Options ㉒
- Menu Room thermostats ㉔

1 - Access to programming
To access programming, follow the operating sequence illustrated in the drawing on the side.
In the example, the Master code consists of the numbers 12345 (factory code) the length of the code can be 4, 5 or 6 digits, the length of the code is determined by the initial programming performed by the installer, the master user can change the digits making up the code but cannot change its length.

2 - Menu selection
Each menu is characterised by a number and a name, the menu number is shown on the display in the first row on the right, the menu name in the second row.

3 - Menu display sequence
The diagram on the side illustrates the display sequence of the System programming menus.
Pressing the up and down arrow keys allows you to scroll the programming menus sequentially in ascending or descending direction. The direct access numbers of the various menus are shown in the first row of the display (top right).
To help make things clear, in the diagram the direct access numbers are highlighted in a white circle.
The menu is directly selected when you enter the number.

3-3.14 - Management with RFID key

The console includes an RFID key reader, thanks to this equipment it is possible to manage the operating programs either by entering a code or by recognising a proximity key.

A	RFID key reading area **Warning:** the key must be placed above the reading area of the console
B	Area of program command buttons **P1... P6**.

3-3.15 - RFID key armed and disarmed

The selective arming and disarming modes allow the user to choose which programs to arm or disarm.
The arming and disarming of the programs is carried out in three phases: recognition of the key, selecting the programs and pressing the command.

1	**Key reading**	Put the key on the reading area, check the flashing of the green LED (key read) then move the key away.
2	**Select the programs**	Press the command buttons **P1... P6** relating to the programs you want to arm or disarm. If you make a mistake, press the button again, each time the button is changed from OFF to ON and vice versa
3	**Press the command**	During arming, the **YES** key interrupts the selection phase and activates the programs.If you don't press **YES**, the programs activate anyway after 15sec.When disarming, the **YES** key instantly deactivates the selected programs. If you don't press **YES**, the programs are deactivated after 5sec.

Selective arming
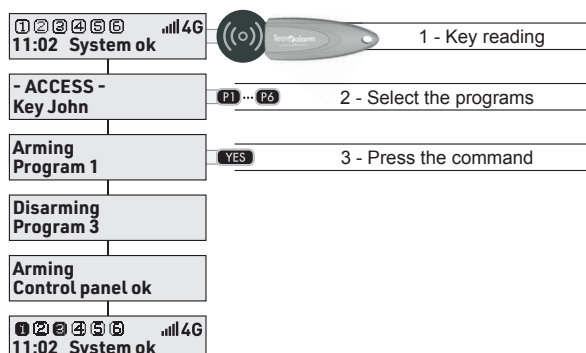
Selective disarming
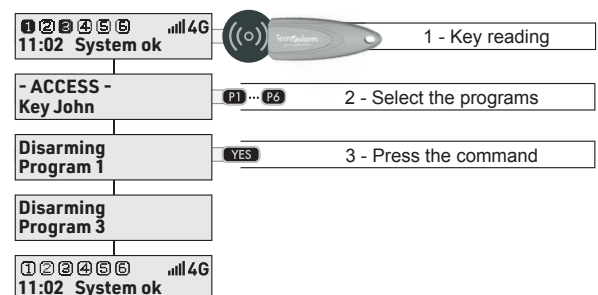
3-3.16 - RFID key arming with voluntary Zone exclusion

The procedure allows the user to arm the programs selectively and to select the Zones to exclude from the operating session.The arming takes place in four phases: recognition of the code, selecting the programs, confirming arming and selecting the zones to be excluded.

1	Key reading	Put the key on the reading area, check the flashing of the green LED (key read) then move the key away.
2	Select the programs	Press the command buttons **P1... P6** relating to the programs you want to arm or disarm. If you make a mistake, press the key again, each time the key is changed from OFF to ON and vice versa.
3	Confirm arming	Press the **YES** key to stop the selection phase and activate the selected programs. If you do not press the **YES** key, the selected programs are activated after 15 sec.
4	Zone exclusion	You can exclude open Zones and/or other Zones, which you want to exclude from operating in the current session. The excluded zones are automatically reactivated in the following operating session.

The possibility of excluding the Zones is allowed only for keys enabled to perform the function

① ② ③ ④ ⑤ ⑥   ᐧᴵᴵᴵ 4G
11:02 System ok   1 - Key reading

- ACCESS -
Master   P1 ··· P6   2 - Select the programs

Arming
Program 1   YES   3 - Confirm arming

NO   Open zones?   YES

3 - Access Zone exclusion   ▲ ▼   Arming
Control panel ok

OPEN ZONES
Bathroom window

YES   It arms excluding the open Zones
EXIT   Stop arming
▲   3 - Access selective exclusion

Exit Zone exclusion   EXIT   EXCLUDE? by YES
Bedroom Zone

▲ ▼   Select the Zone
YES   Exclude the Open Zone

Forced arming
ZONES EXCLUDED

① ② ③ ④ ⑤ ⑥   ᐧᴵᴵᴵ 4G
11:02 System ok

3-3.17 - Restricted Access

The procedure allows you to apply remote access restrictions performed with programming software and/or APP evolution.
SW access: remote access restrictions performed by the installer via programming software.
APP access: remote access restrictions performed by System users via APP evolution.

SW and APP access

Enter the access code.

Select Menu with arrow keys.
Access menus with the button **YES**.

Select the Options menu with the arrow keys.
Access the Options menu with the button **YES.**

Select Access with the arrow keys or with the key **5.**
Access with the button **YES**.

Select the type of access restrictions,
software or APP, with the arrow keys.
Access with the button **YES.**

Select the restriction level, from the 4 available,
with the arrow key..

To save the restriction level press the button **EXIT.**

①②③④⑤⑥ ⏸4G 11:02 System OK	1	Enter thecode			
***** End with YES	YES				
- ACCESS - Master	△▽	Select Menu			
Access Menu	YES	Access to Menus			
Menu Clock 2	△▽ 0…9	Select the menu Options			
Menu Options 22	YES	Access the menu			
Options Remote access 1 [#]	△▽ 5	Select Access			
Options Access 5	YES	Access the submenu			

SW — Access — APP

Access the submenu — YES — Access SW access 1

Access SW access 1 — △▽ — Select APP access
Access APP access 2 — YES — Access the submenu

Change param.
Operate — △▽ — Select the level of restriction
Display only
Disabled

SW access Display only 1 — EXIT — Save and exit

SW Access Restriction Levels	
Restriction level	Functions
1	Change param.	The installer has no restrictions
2	Operate	The installer can display the system status and perform command operations
3	Display only	The installer is only able to view the system status
4	Disabled	The installer cannot perform any actions on the system

Restriction level	Status information	Parameter reading	Operability on Prog and Telec.	Parameter modification
Change param.	YES	YES	YES	YES
Operate	YES	YES	YES	NO
Display only	YES	YES	NO	NO
Disabled	NO	NO	NO	NO

APP Access Restriction Levels	
Restriction level	Functions
1	Change param.	**Note:** No Functionality
2	Operate	Users are able to command the state of programs, remote controls, and view event logs
3	Display only	Users are able to see the status of programs, remote controls, and event logs
4	Disabled	Users cannot perform any actions on the System

Restriction level	Status information	Parameter reading	Operability on Prog and Telec.	Parameter modification
Change param.	Function not supported			Function not available
Operate	YES	YES	YES	
Display only	YES	YES	NO	
Disabled	NO	NO	NO	

4 - THERMOSTATS

4-1 - Management of Thermostats

The EV 4-24 system is equipped with the Thermostats function, the function can independently manage up to two Thermostats.
The thermostat regulates the climate of the monitored rooms, turning the heating or air conditioning system on and off,
based on its programming and on the temperature and humidity detection of the associated EV TERM BWL climate sensor .
The user can access the Thermostats to change the automatic operation managed by the Thermostat, changing the temperature and the holding time.
The access mode to the Thermostats varies according to the programming of the System, consequently Thermostat management may require entering a code or it can be direct, in this case the management mode varies according to the enabling of the
" Shortcut menu remotes ".

Display of thermostat statuses

The console display shows the operating status of the Thermostat in the lower left corner.
The display format is "Detected temperature + Thermostat status icon".
The operating statuses of the Thermostat are shown in the drawing to the below.

①②③④⑤⑥ ıııll4G 22.0° System ok	
22.0°	Thermostat off
22.0°_	Thermostat on - climate control OFF
22.0°✳	Thermostat on - climate control ON
22.0°B	Thermostat blocked

Thermostat Management Elements			
The Thermostat can be switched on or off as required. View the detected temperature, change the programmed temperature. Define the holding time of the new programmed temperature.			
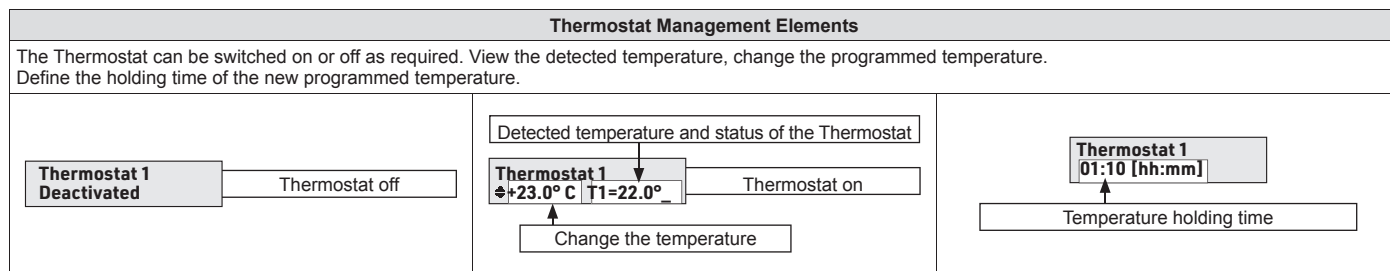
4-1.1 - Thermostat management with a code

Procedure available based on the programming
Enter the access code.

Select the Thermostat menu with the **DOWN** button
Access the Thermostat with the **YES** button.

Display the status of the Thermostat
Turn the Thermostat off or on with the **NO** or **YES** buttons.

If you want to exit the management without changing the status of the Thermostat, press the **EXIT** button.
Adjust the temperature, confirm with the **YES** button.
Program the holding time, confirm with the **YES** button.
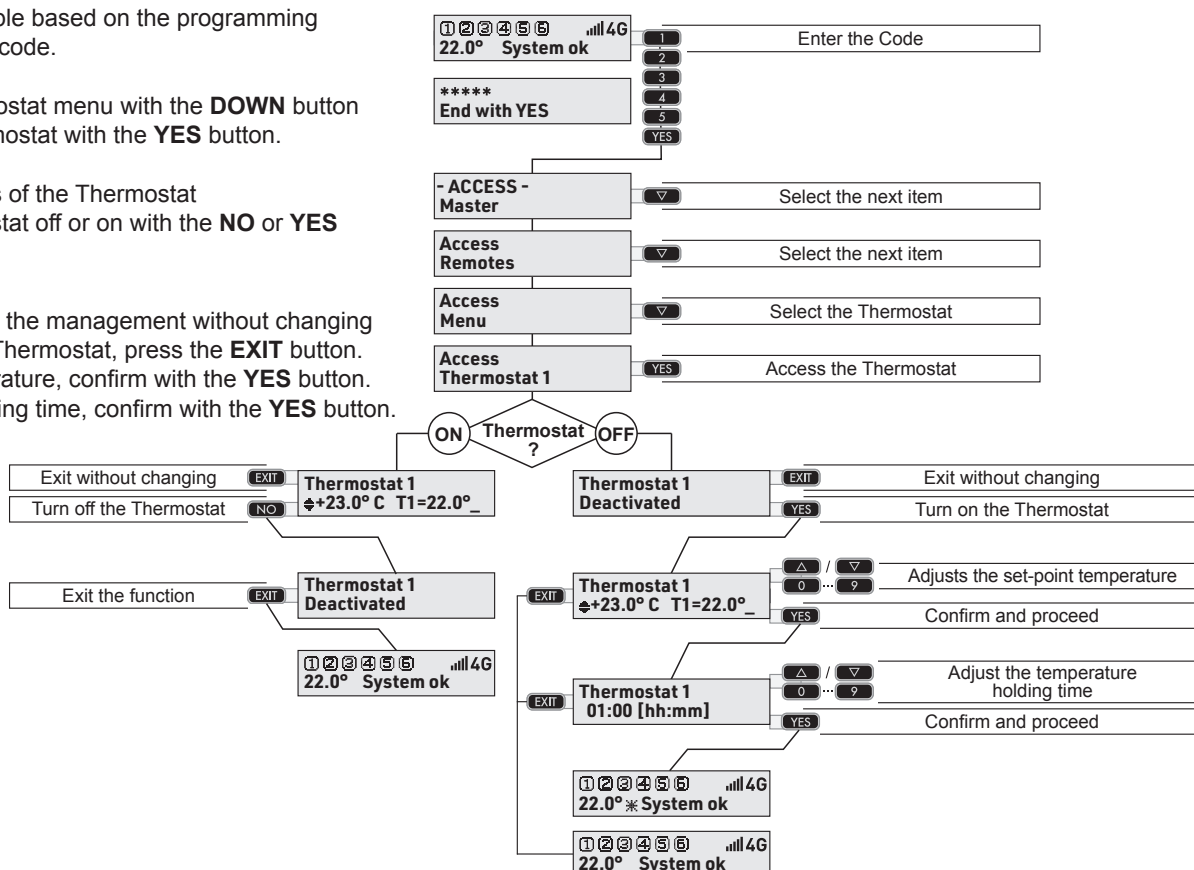
4-1.2 - Direct management of the Thermostat with "Shortcut menu remotes" disabled

Procedure available based on the programming
(valid if the "shortcut menu thermostats" is Enabled).
Access the Thermostat with the **UP** or **DOWN** buttons.

Display the status of the Thermostat.
Turn the Thermostat off or on with the **NO** or **YES** buttons

If you want to exit the management without changing the
status of the Thermostat, press the **EXIT** button.

Adjust the temperature, confirm with the **YES** button.
Program the holding time, confirm
with the **YES** button.
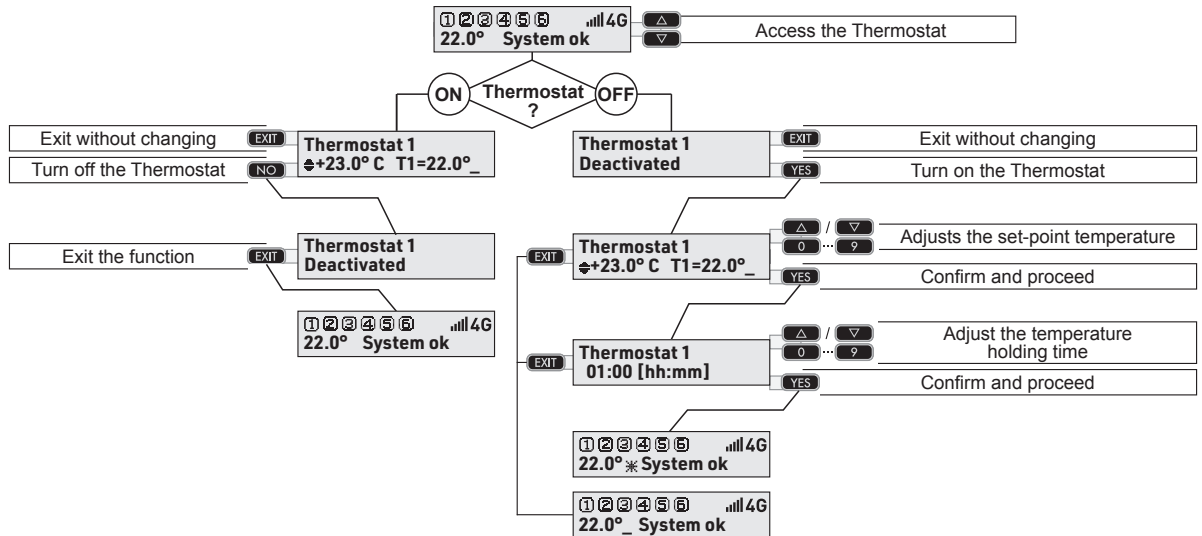
4-1.3 - Direct management of the thermostat with "Shortcut menu remotes" enabled

Procedure available based on the programming
(valid if the "shortcut menu thermostats" is Enabled).
Select the Thermostat menu with the **UP** or **DOWN**
buttons.
Access the Thermostat with the **YES** button.

Display the status of the Thermostat.
Turn the Thermostat off or on with the **NO** or **YES** buttons.

If you want to exit the management without changing the
status of the Thermostat, press the **EXIT** button.

Adjust the temperature, confirm with the **YES** button.
Program the holding time, confirm
with the **YES** button.
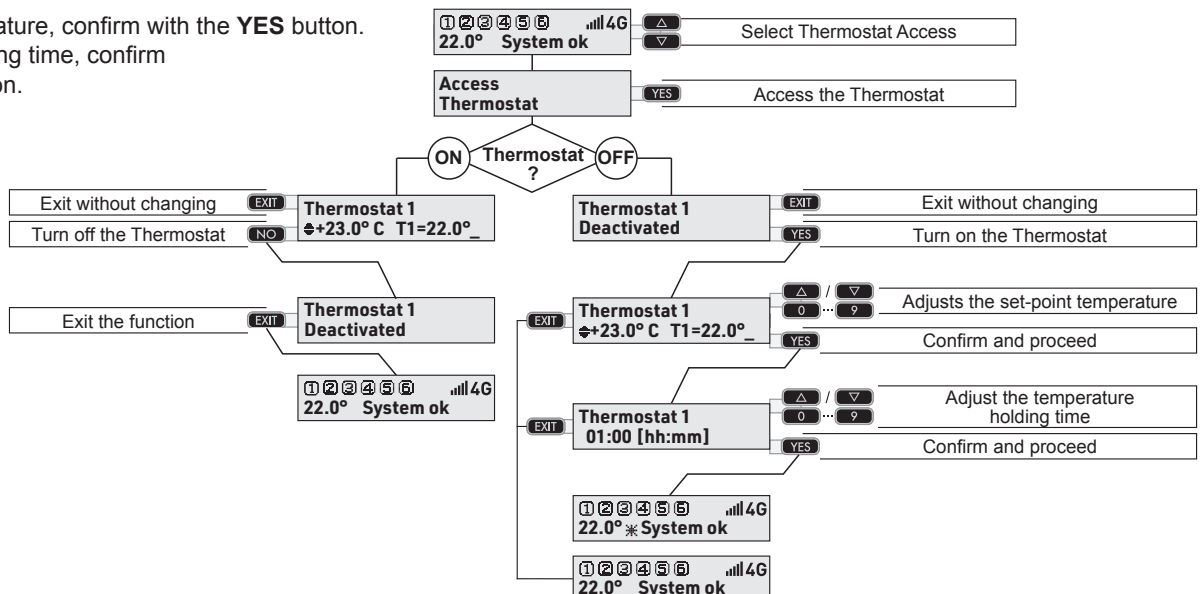
4-2 - Room thermostats menu programming

The Thermostats menu is divided into eight submenus with which it is possible to program the operating parameters of the two available thermostats. Weekly operation can be programmed for each thermostat, defining up to eight time periods and five temperature levels (set-points) for each day of the week.It is also possible to program the summer or winter operating mode, the hysteresis threshold, the anti-freeze temperature threshold and program the high temperature and low temperature signal thresholds and enable the relative notifications.

①②③④⑤⑥ .ıll4G 22.0°_ System ok	1 2 3 4 5 YES	Enter the Code
***** End with YES		
- ACCESS - Master	▽	Select the next item
Access Remotes	▽	Select the next item
Access Menu	YES	Access the menus
Menu 2 Clock	△ / ▽ 2 4	Select the Room thermostats menu
Menu 24 Room thermostats	YES	Access the menu
Room thermostats Thermostat 01	△ ▽ YES	Select the Thermostat Access the Thermostat
Select MENU log in with YES	△ / ▽ 0 ... 8 YES	

Access the Thermostat menu
Enter the access code.

Select the menu item with the arrow button
Access the menus with the **YES** button.

Select the room thermostats menu with the arrow buttons or numbers.
Access the menu with the **YES** button.

Select the thermostat on which to work on with the arrow buttons.
Access the Thermostat with the **YES** button.

Thermostat 01 ① **Operating mode**	**Thermostat 01** ⑧ **Warn. low temp.**
Thermostat 01 ② **Temperature levels**	**Thermostat 01** ⑦ **Warn. high temp.**
Thermostat 01 ③ **Programmer**	**Thermostat 01** ⑥ **Anti-freeze temp.**
Thermostat 01 ④ **Summer mode [ ]**	**Thermostat 01** ⑤ **Hysteresis**

| 1	**Operating mode menu**	The menu allows you to consult the operating status of the Thermostat. The operating status can only be changed for the statuses: Deactivated, Automatic, Anti-freeze.

Thermostat 01 1 **Operating mode**	YES	Access the menu
EXIT **Operating mode** 2 **Automatic**	▽	Select the status of the thermostat: Deactivated, Automatic, Anti-freeze
	Confirm the selected status	
EXIT **Thermostat 01** 1 **Operating mode**	▽	Select the next menu
	Save and exit	
①②③④⑤⑥ .ıll4G 22.0°_ System ok		**Thermostat 01** 2 **Temperature levels**
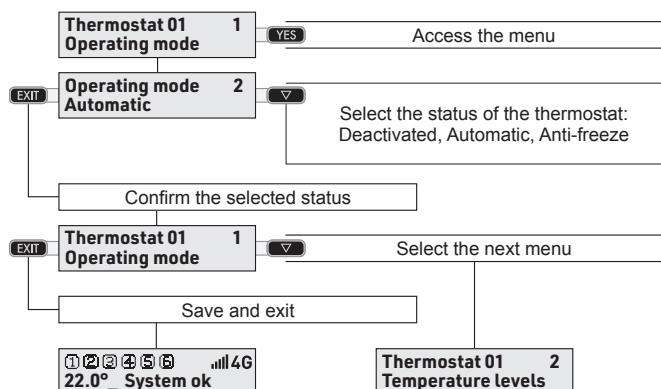
Operating mode menu
Access the menu with the **YES** button.

Select the status of the thermostat with the arrow button.
Confirm the status with the **YES** button.

Select the next menu with the arrow button or save and exit by repeatedly pressing the **EXIT** button

N.B.: In the event of a block the thermostat stops working, to reactivate the operation of the thermostat it is necessary to remove the cause of the malfunction.

2	Temperature levels menu	The menu allows you to program 5 temperature levels, these are recalled in the Programmer menu.

| Thermostat 01 2 | YES | Access the menu |
| Temperature levels | | |

| Temperature level 1 | △ / ▽ | Select the temperature level |
| Level 01 | YES | Access the temperature level |

	△ / ▽	Set the temperature of the level
Level 01 1	0 ··· 9	
⬍+22.5°C	EXIT	Confirm the temperature

| Temperature level 1 | EXIT | Exit the menu |
| Level 01 | | |

| EXIT | Thermostat 01 2 | ▽ | Select the next menu |
| | Temperature levels | | |

Save and exit

| ①②③④⑤⑥ ⊿⊿⊿4G | | Thermostat 01 3 |
| 22.0°_ System ok | | Programmer |

Access the Temperature levels menu
Access the menu with the **YES** button.

Select the temperature level with the arrow button
Access the temperature level with the **YES** button.

Set the temperature of the level
Confirm the temperature with the **YES** button.

Go back with the **EXIT** button
Select the next menu with the arrow button or save and exit by repeatedly pressing the **EXIT** button.

3	Programmer menu	The menu allows you to program automatic operation on a weekly basis, defining up to eight time periods for each day, and five temperature levels.

| Thermostat 01 3 | YES | Access the menu |
| Programmer | | |

| Programmer 2 | △ / ▽ | Select the day of week |
| Monday | YES | Access the day of the week |

| Monday 1 | △ / ▽ | Select the time period |
| Time period 01 | YES | Access the time period |

	YES [#]	Enable [#] or disable [ ] the time period
Time period 01 1	NO [ ]	
Enabled [#]	▽	Select the next item

| Time period 01 2 | YES | Access the time |
| Start time | ▽ | Select the next item |

	△ / ▽	Set time period
Start time 1	0 ··· 9	
00:00 [hh:mm]	EXIT	Confirm the programming

Time period 01 3	YES	Access the temperature level
Temperature level	EXIT	
	EXIT	Exit the menu
	EXIT	

| Temperature level 1 | △ / ▽ | Select the temperature level |
| Level 01 | EXIT | Confirm the temperature level |

| EXIT | Thermostat 01 3 | ▽ | Select the next menu |
| | Programmer | | |

Save and exit

| ①②③④⑤⑥ ⊿⊿⊿4G | | Thermostat 01 4 |
| 22.0°_ System ok | | Summer mode [ ] |

Access the Programmer menu
Access the menu with the **YES** button.

Select the day of the week with the arrow button.
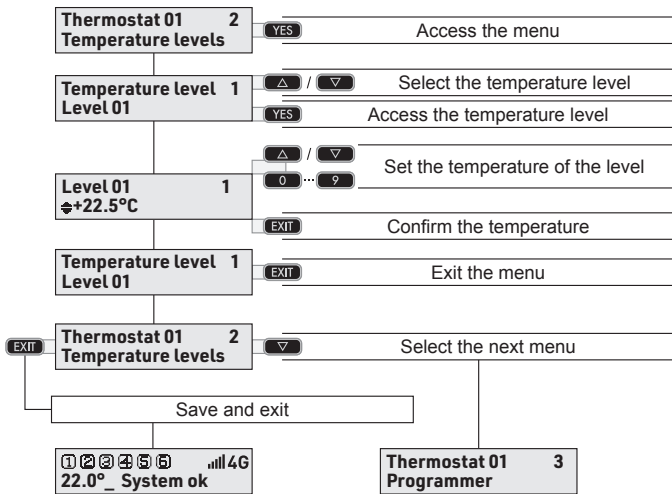Confirm and access the day of the week with the **YES** button.

Select the time period with the arrow button.
Access the time period with the **YES** button.

Enable [#] the time period with the **YES** button
or disable [ ] the time period with the **NO** button.

Select the start time of the time period with the arrow button.
Access the time with the **YES** button.
Set the time of the time period with the arrow and number buttons.
Confirm the time with the **EXIT** button.
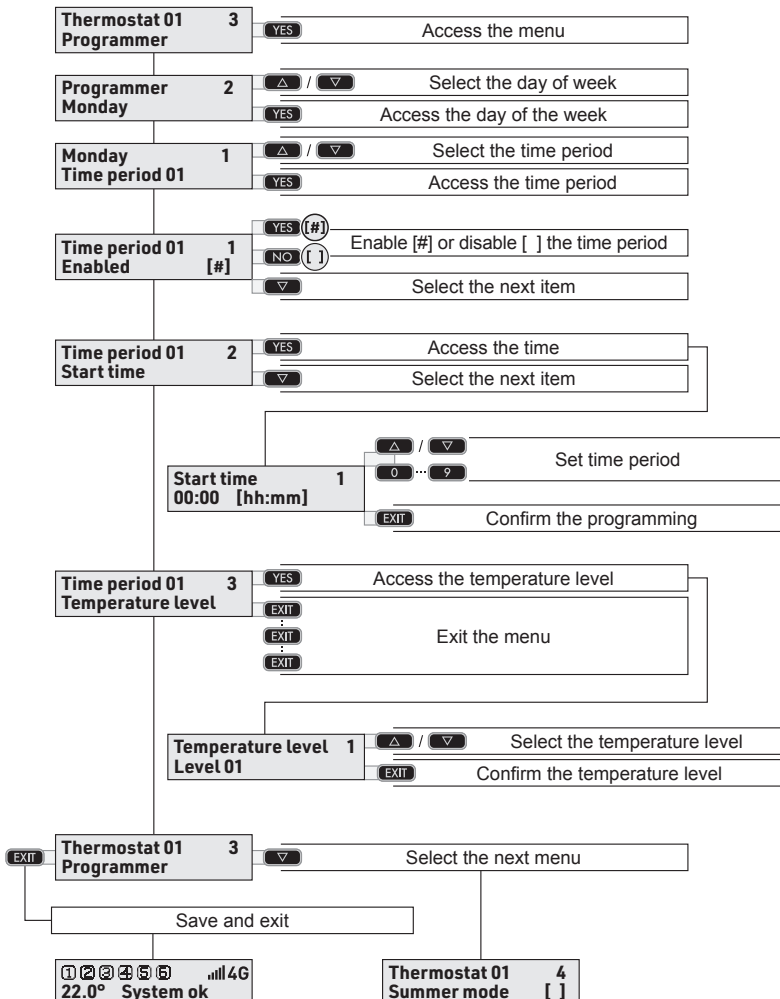
Select the temperature levels with the arrow button.
Access the temperature levels with the **YES** button.
Select a temperature level to be associated with the time period with the arrow button.
Confirm the temperature level with the **EXIT** button.

Go back with the **EXIT** button.
Select the next menu with the arrow button or save and exit by repeatedly pressing the **EXIT** button.

4	**Summer mode menu**	The menu allows you to program the summer/winter mode of the thermostat.

```
EXIT ┌── Thermostat 01    4    YES [#]    Enable [#] or disable [ ]
     │   Summer mode   [#]    NO  [ ]    the summer mode
     │                        ▽         Select the next menu
     └── Save and exit

         ①②②④⑤⑥   ⠀⠀4G         Thermostat 01    5
         22.0°_ System ok            Hysteresis
```
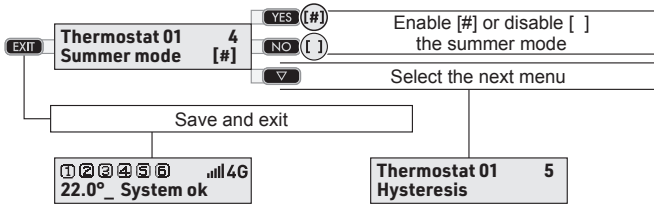
Access the Summer mode menu
Access the menu with the **YES** button.

Enable [#] summer mode with the **YES** button
or disable [ ] summer mode with the **NO** button.

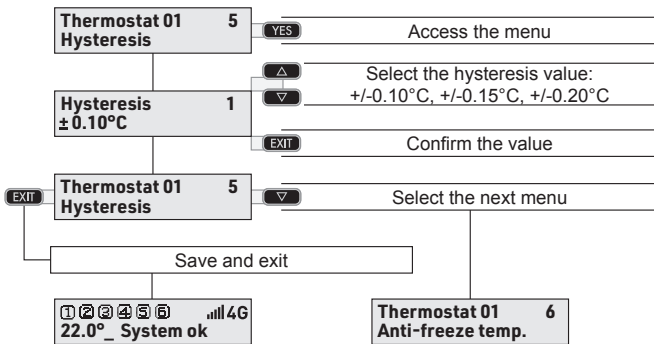Select the next menu with the arrow button or save
and exit by repeatedly pressing the **EXIT** button.

5	**Hysteresis menu**	The menu allows you to program the temperature hysteresis threshold, i.e. the difference between the programmed temperature and the boiler ignition temperature.

```
    Thermostat 01    5    YES    Access the menu
    Hysteresis
                          △      Select the hysteresis value:
    Hysteresis       1    ▽      +/-0.10°C, +/-0.15°C, +/-0.20°C
    ± 0.10°C
                          EXIT   Confirm the value
EXIT ┌── Thermostat 01    5    ▽    Select the next menu
     │   Hysteresis
     └── Save and exit

         ①②②④⑤⑥   ⠀⠀4G         Thermostat 01    6
         22.0°_ System ok            Anti-freeze temp.
```

Access the Hysteresis menu
Access the menu with the **YES** button.

Select the hysteresis value with the arrow button.
Confirm the value with the **EXIT** button.

Select the next menu with the arrow button or save
and exit by repeatedly pressing the **EXIT** button.

6	**Anti-freeze temp. menu**	The menu allows you to program the minimum water temperature threshold of the heating system.

```
    Thermostat 01    6    YES       Access the menu
    Anti-freeze temp.
                          △ / ▽     Select the anti-freeze temperature
    Anti-freeze temp. 1   0 ... 9   Max 15°C min 1°C
    ⬍+01.0°C
                          EXIT      Confirm the temperature
EXIT ┌── Thermostat 01    6    ▽    Select the next menu
     │   Anti-freeze temp.
     └── Save and exit

         ①②②④⑤⑥   ⠀⠀4G         Thermostat 01    7
         22.0°_ System ok            Warn. high temp.
```
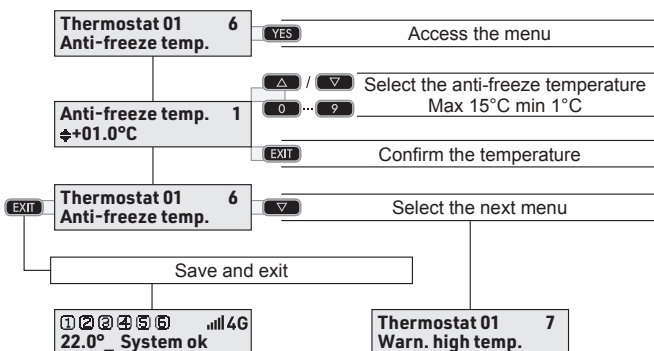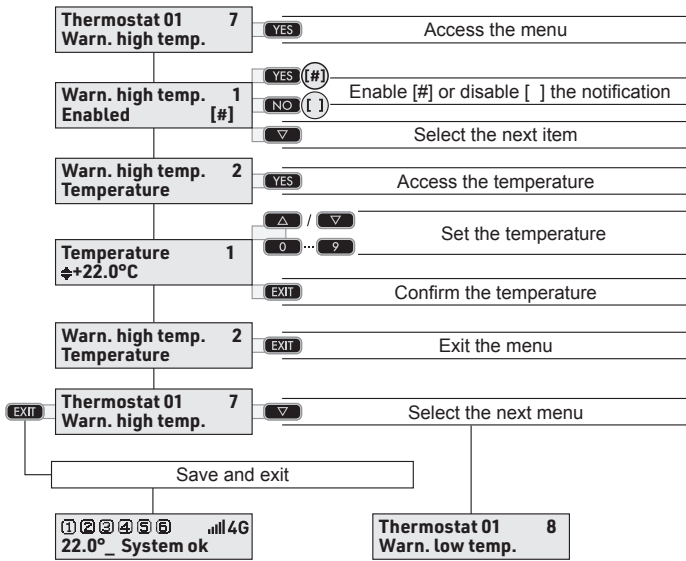
Access the Anti-freeze temp. menu
Access the menu with the **YES** button.

Select the value of the Anti-freeze temperature with
the arrow button.
Confirm the value with the **EXIT** button.

Select the next menu with the arrow button or save
and exit by repeatedly pressing the **EXIT** button

7	**Warn. high temp. menu**	The menu allows you to program the maximum temperature threshold and to enable the sending of the relative notification.

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Thermostat 01 7 Warn. high temp.	YES	Access the menu
Warn. high temp. 1 Enabled [#]	YES [#] NO [ ] ▽	Enable [#] or disable [ ] the notification Select the next item
Warn. high temp. 2 Temperature	YES	Access the temperature
Temperature 1 +22.0°C	△ / ▽ 0 ... 9 EXIT	Set the temperature Confirm the temperature
Warn. high temp. 2 Temperature	EXIT	Exit the menu
Thermostat 01 7 Warn. high temp.	EXIT ▽	Select the next menu
Save and exit		
①②③④⑤⑥ ▪▪▪▪4G 22.0°_ System ok		Thermostat 01 8 Warn. low temp.

Access the Warn. high temp. menu
Access the menu with the **YES** button.

Enable [#] the sending of the notification with the **YES** button or disable [ ] the sending of the notification with the **NO** button.

Select the temperature with the arrow button.
Set the maximum temperature threshold with the arrow or number buttons.
Confirm the temperature with the **EXIT** button.

Go back with the **EXIT** button.
Select the next menu with the arrow button or save and exit by repeatedly pressing the **EXIT** button

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8	**Warn. low temp menu**	The menu allows you to program the minimum temperature threshold and to enable the sending of the relative notification.

Thermostat 01 8 Warn. low temp.	YES	Access the menu
Warn. low temp. 1 Enabled [#]	YES [#] NO [ ] ▽	Enable [#] or disable [ ] the notification Select the next item
Warn. low temp. 2 Temperature	YES	Access the temperature
Temperature 1 +17.0°C	△ / ▽ 0 ... 9 EXIT	Set the temperature Confirm the temperature
Warn. low temp. 2 Temperature	EXIT	Exit the menu
Thermostat 01 8 Warn. low temp.	EXIT ▽	Select the next menu
Save and exit		
①②③④⑤⑥ ▪▪▪▪4G 22.0°_ System ok		Thermostat 01 1 Operating mode

Access the Warn. low temp. menu
Access the menu with the **YES** button.

Enable [#] the sending of the notification with the **YES** button or disable [ ] the sending of the notification with the **NO** button.
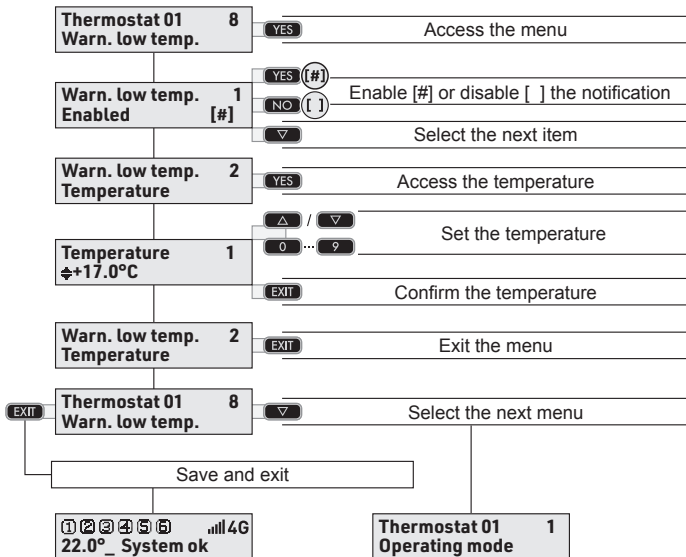
Select the temperature with the arrow button.
Set the minimum temperature threshold with the arrow or number buttons.
Confirm the temperature with the **EXIT** button.

Go back with the **EXIT** button.
Select the next menu with the arrow button or save and exit by repeatedly pressing the **EXIT** button.

N.B.: the type of notification for high and low temperature warnings (push, digital, vocal) can only be programmed by the installer.

Thermostat Summary table 1								
Week	Time period 1	Time period 2	Time period 3	Time period 4	Time period 5	Time period 6	Time period 7	Time period 8
Monday								
Tuesday								
Wednesday								
Thursday								
Friday								
Saturday								
Sunday								

Temperature levels				
Temperature level 1	Temperature level 2	Temperature level 3	Temperature level 4	Temperature level 5
Other parameters				
Summer/Winter	Hysteresis Threshold	Anti-freeze Temperature	High Temperature	Low Temperature

Thermostat Summary table 2								
Week	Time period 1	Time period 2	Time period 3	Time period 4	Time period 5	Time period 6	Time period 7	Time period 8
Monday								
Tuesday								
Wednesday								
Thursday								
Friday								
Saturday								
Sunday								

| Temperature levels				
Temperature level 1	Temperature level 2	Temperature level 3	Temperature level 4	Temperature level 5
Other parameters				
Summer/Winter	Hysteresis Threshold	Anti-freeze Temperature	High Temperature	Low Temperature

5 - INTEROPERABILITY BY PHONE

Some system management functions can be carried out remotely via telephone, there are two management modes, the first one uses the recognition of DTMF tones, the second one uses the exchange of SMS messages.

5-1 - Telephone management with DTMF tones

By calling your system by phone, you can check its functional statuses, check alarms, command programs and remote controls, activate listening to the RDV® zones and record the opening message.
The chapter describes the operations that can be performed on the system via telephone. The table shows the possible operations.

Function keys		Function
1	System Status	Querying, request of the functional status of the system.
2	Programs	Querying and enabling or disabling of operating programs.
3	Remote controls	Querying and enabling or disabling remote controls.
4	RDV® Listening	Listening to the RDV® function (only possible if the system has RDV® type detectors).
5	Opening message	Listening to or recording the opening telephone message.
#	End call	Ending the phone call.
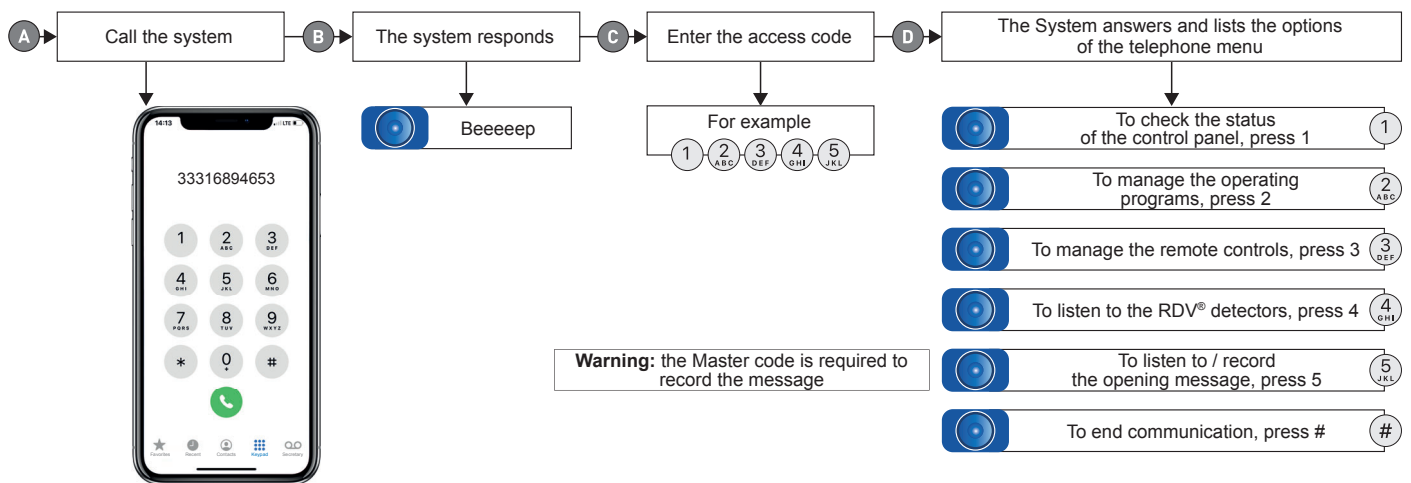
1 - System Status

Query function.After entering the access code, select function 1 from the guided telephone menu, the system replies "all OK" or lists any alarms.
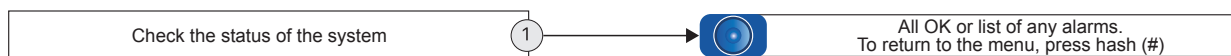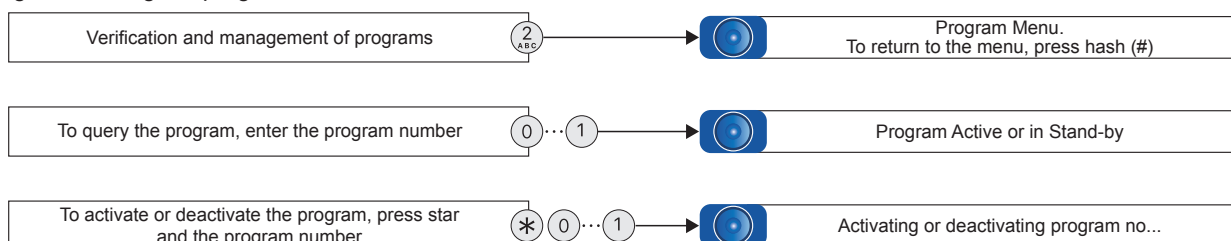

2 - Programs

Query and command function.After entering the access code, select function 2 from the guided telephone menu.

Query - To find out the operating status of the programs, enter the program number and wait for the response from the system. "Program active or inactive". The system lists any alarms stored

Command - To activate or deactivate a program, press star followed by the program number and wait for the system to reply "Enabling or disabling the program number"
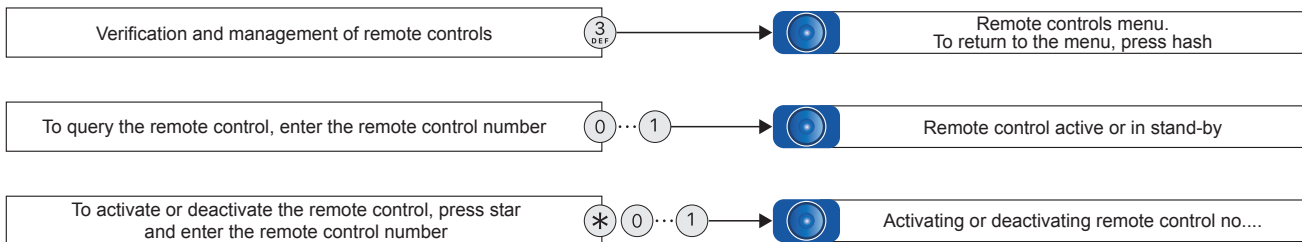
evolution
Tecnoalarm

Wireless burglar alarm system

3 - Remote controls

Query and command function.After entering the access code, select function 3 from the guided telephone menu.

Query - To find out the operating status of the remote controls, enter the remote control number and wait for the System response "Remote control enabled or disabled".
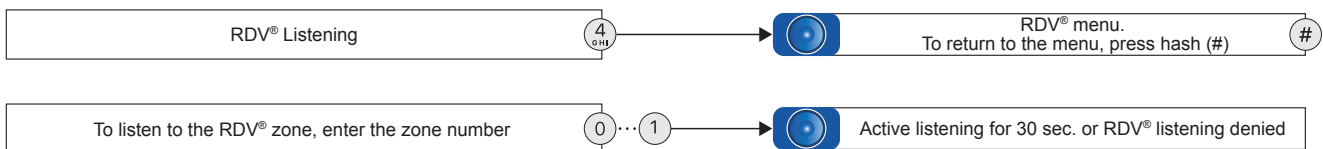
Command - To activate or deactivate a remote control, press star followed by the remote control number and wait for the System response "Enabling or disabling the remote control number".

Verification and management of remote controls	3 DEF	Remote controls menu. To return to the menu, press hash
To query the remote control, enter the remote control number	0 ⋯ 1	Remote control active or in stand-by
To activate or deactivate the remote control, press star and enter the remote control number	✳ 0 ⋯ 1	Activating or deactivating remote control no....

4 - RDV® listening

After entering the access code, select function 4 from the guided telephone menu, then select the number of the RDV® zone you want to listen to.
Warning: the function can only be used if the zone is protected by an RDV® detector. If a non-RDV® zone is selected, the system replies "RDV® listening denied".If an RDV® zone is selected, the system allows you to listen to the movement detected for a period of 30 seconds.
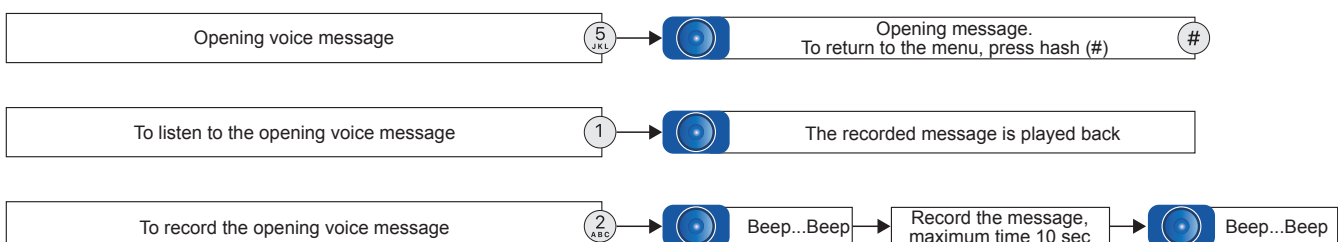
RDV® Listening	4 GHI	RDV® menu. To return to the menu, press hash (#) #
To listen to the RDV® zone, enter the zone number	0 ⋯ 1	Active listening for 30 sec. or RDV® listening denied

5 - Opening message

Recording and listening function.After entering the access code, select function 5 from the guided telephone menu, then you have the possibility to record or listen to the opening telephone message.

Listening - If you want to listen to the recorded message, press 2 and the System responds by playing the recorded message.
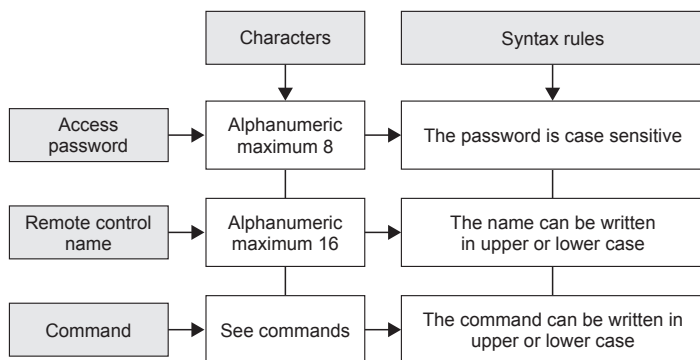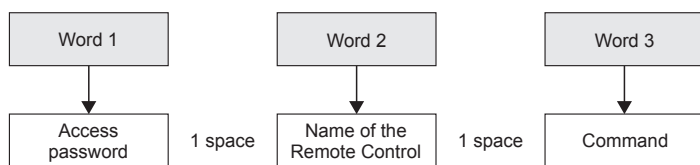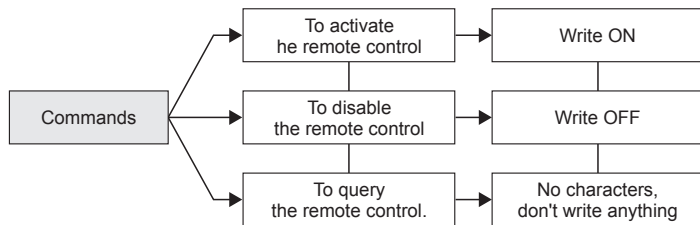
Recording - If you want to record the message, press 1 and wait for the 2 response beeps then record the message. For the recording you have 10 seconds available, the end of the time available is indicated by 2 beeps. .

Opening voice message	5 JKL	Opening message. To return to the menu, press hash (#) #
To listen to the opening voice message	1	The recorded message is played back
To record the opening voice message	2 ABC	Beep...Beep → Record the message, maximum time 10 sec → Beep...Beep

5-2 - Telephone management with SMS messages

By sending SMS text messages, it is possible to interact with the system's remote controls and request the available telephone credit (only for prepaid SIM cards).
The reception of the message by the System leads to the carrying out of the requested operation and the generation of a reply SMS which is sent to the sender, the reply SMS contains the text confirming the requested command has been carried out.

Commands	To activate he remote control	Write ON
	To disable the remote control	Write OFF
	To query the remote control.	No characters, don't write anything

| Word 1 | | Word 2 | | Word 3 |
| Access password | 1 space | Name of the Remote Control | 1 space | Command |

	Characters	Syntax rules
Access password	Alphanumeric maximum 8	The password is case sensitive
Remote control name	Alphanumeric maximum 16	The name can be written in upper or lower case
Command	See commands	The command can be written in upper or lower case

1 - Remote Control Management

It is possible to interact with the remote controls using three commands: activation, deactivation and query.
Activation - Puts the remote control in the ON "Active" status.
Deactivation - Puts the remote control in the OFF "Not active" status.
Query - Request of the functional status of the remote control which can be in the "Active" or "Not active" status.

Composition of the messages
The messages sent to the System are composed of three words:
Password (word 1), remote control name (word 2) and command (word 3).
It is necessary to leave a space between one word and another.
The only exception is the query command which is made up of two words:Password (word 1) and remote control name (word 2).
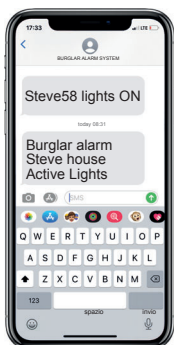
Syntax rules
The messages sent to the System must be written following precise syntax rules.
Password - can be made up of 8 alphanumeric characters. It is case sensitive.
Remote control name - can be made up of 16 characters. It is not case sensitive.
Command - command syntax is predefined
(ON or OFF). It is not case sensitive.

Example - The example illustrates a remote control activation SMS, in which the Password is "Steve58" and the name of the remote control is "Lights".
- SMS query text - Steve58 lights.
- SMS activation text - Steve58 lights ON.
- SMS deactivation text - Steve58 lights OFF.

The reception of the message by the System leads to the carrying out of the requested operation and the generation of a reply SMS which is sent to the sender, the SMS contains the text confirming the requested command has been carried out.
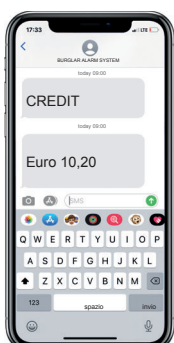
2 - Telephone credit request

If the GSM module uses a prepaid SIM, it is necessary to periodically check the remaining telephone credit, this is done by SMS.
In order to carry out this request, it is necessary to program the parameters "Credit number" and "SMS credit" in the menu Telephone> GSM telephone, as required by the telephone service provider.

Warning: the service is not offered by all providers.
To carry out this request, send an SMS to the system containing the word CREDIT, written in capital letters

The reception of the message by the System causes the generation of a reply SMS which is sent to the sender, the SMS contains information on the remaining telephone credit.

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NOTE

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