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ANNI 3 YEARS GARANZIA WARRANTY

GENERAL INSTALLATION AND PROGRAMMING MANUAL

Raptor R LC 4G
Raptor RK LC 4G

USB READY: see page 29

Certified products
IMQ - Security Systems

EN 50131-1
EN 50131-3
EN 50131-5-3
EN 50131-6
EN 50131-10
CEB T031

INCERT CERTIFICATION

CE

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GENERAL INFORMATION

The central control units of the Raptor serial and the devices described in this manual, are certified by IMQ - Security Systems according to table.

PRODOTTI	DESCRIZIONE		
RAPTOR R LC 4G **RAPTOR RK LC 4G**	Microprocessor central control unit	✓ **Grado 1**	**D-Q5Y-0027** **D-Q5Y-0026**
A500 WS4	Wireless Keypad	✓ **Grade 1**	**D-Q5Y-0020**
A500 Plus WS4	Wireless Keypad	✓ **Grade 1**	**D-Q5Y-0019**
A500 WS4 with external power supply	Wireless Keypad		
A500 Plus WS4 with external power supply	Wireless Keypad		
SIRENE RADIO CITY WS4	Wireless Sirens	✓ **Grade 1**	**D-Q5Y-0022**
SENSORI RADIO SERIE WS4	Wireless Sensors	**Look at detector manual**	
BIP 4 PLUS	Remote control	✓	**D-Q5Y-0015**

BEFORE PERFORMING THE INSTALLATION AND PROGRAMMING THE CONTROL PANEL, WE ADVISE TO READ THE FOLLOWING MANUAL

Compliance with EN50131 is voided if: the devices are not installed in the containers of the RAPTOR series control units or with reference to that specifically indicated in the table.

Before commissioning it is necessary:
- checks all the electrical cables connections
- connect the suitable battery

The products must be used according to the intended use and in compliance with the rules applicable to the various plant engineering types. However, before commissioning the installed products, the system must be tested in order to verify its functioning and compliance with the safety rules according to that indicated by Local Law.

For the connection with anti-theft cables, the shield of each cable must be only connected to the negative of Control Panel.

The equipment must not be exposed to dripping or water sprays and no object full of liquid must be placed on it.

INSTALLATION AND MAINTENANCE (E.G. REPLACING THE BATTERY, FUSES, ETC.) MUST BE EXECUTED BY QUALIFIED PERSONNEL

AVS ELECTRONICS S.p.a. reserves the right to make amendments at any moment and without notice.

Compliance with EN50131 - Grade 1

To enable conformity with **EN50131 Standards Grade 1** of the control panels certified by IMQ – Security System, simply adapt the default programming supplied by AVS Electronics S.p.A.

In particular:
“Compliant with EN50131” option active
“Conditional arming” option active
“Tamper report” option active for every type of zone
“Save restore” option active for every type of zone
“Encode Alarms” option active for every type of zone, with a minimum of 3 and a maximum of 10
“Report Tamper” option active, for cases to be reported by phone
“Listen answer line” option enabled

Compliance with EN50131 also requires at least one user to be empowered to authorize access by the Installer. Consequently, it is necessary for at least one user code to be programmed accordingly, see “User Profile” -> “Enable Installer access”

The configurations and/or connections described below shall void compliance with Grade 1 of EN50131:
• “**Key zone**” option active (At least one zone used for this function)

Functions Required

To maintain Conformity with **EN50131 Standards, Grade 1**, all zone types must be programmed with the “**Tamper report**”, “**Memo Alarm**” options set to “**YES**” and the maximum “**Number of Pulses**” **must be 1**.
In addition to these functions, particular zone types must also observe the functions described below:
The zones used to manage “**Intrusions**”, must be programmed with the “**Control panel Relay**” option set to “**YES**” and at least one phone number must be matched to call in the event of an alarm.
The zones used to manage “**Robberies**” must be programmed as “**Hold-Up**”. For this function at least one phone number must be matched to call in the event of an alarm. The “ **Activate buzzer**” and “**Control panel relay**” options are optional.

NOTE: All the options that disable the TAMPER and the transmission of these events are not compliant with EN50131, Grade 1.

Equipment required

• To comply with **EN50131, Grade 1**, it is necessary to have a self-powered external siren and a communicator telephone.

Levels of access

The standard defines the levels of access to the central control unit functions:
• **Level 1**: access by anyone
• **Level 2**: access by the user (e.g.: operator)
• **Level 3**: access by the maintenance operator (only following authorisation by someone with Access Level 2)
• **Level 4**: access by the manufacturer

Ancillary control equipment

The A500 WS4 e A500 Plus WS4 keypads are Type B ancillary control equipment

INCERT T031 compliance

To comply with INCERT T031 compliance, it is necessary to keep the parameters describe in the “Installation menù” at the default values; with the exception of the step “Conformity EN5031” which must be set to YES.
• It is also possible to enable the “GSM” telephone and any associated radio keypads.

COMPLIANT WITH EN 50131		
INCORRECT CODE		**Keyboard:** after the third attempt the keyboard is blocked for 100 seconds; if a user leaves the entry of code unfinished then after 10 seconds the code is cancelled and an incorrect code is signaled.
FALSE KEY		**Keyfob reader:** after the third attempt it is blocked for 100 seconds
NEW ENCODING ALARM		The zone code intervenes for the events listed below. The reset following self-exclusion only occurs after the system has been switched off. **Zone:** Allarm - Tamper - Survival **Central Control Unit:** Tamper switch - Low battery - Battery Failure - Low output voltage - Power supply or recharger failure - GSM fault **Keyboard:** Tamper switch - Power failure
“”CONFORM EN50131”” step set to “”YES”” or “”NO””		
VIEWING EVENTS ON DISPLAY	**YES**	Possible only from the user menu, or after entering the user code
	NO	Occurred alarms, SIM Credit, Reprogramming devices, Fuses State, Internal information (EEPROM data error, ...), Codes variation
	YES	There are never displayed at Level 1 access
	NO	“”Check the event log “ - Wireless Sensors Low battery - Sensors Antimask - Sensors wireless supervision - Fire Alarm
ZONES	**YES**	Priority decreases, i.e.: zone 1 takes priority over zone 2
	NO	There is no priority
	YES	Hold-Up zones do not follow the compulsory alarm encoding system: the first alarms, up to the number allowed, are in the event memory, while subsequent events are not in the alarm memory but are reported on the phone
	NO	See description for programming ALARM ENCODING
ARMING	**YES**	“When switching on, the control panel does not immediately pass to on status, but passes through a “”pre-switch-on”” status in which the zones are active but do not trigger immediate alarms; in the presence of non-times zones which imbalance when setting, switch-on is denied; this denial a activates the control panel relay for 5 seconds. It is possible to force switch-on from the guided user manual (ENT key), new steps “”ON forced switch-on””; these situations allow forcing.”
	NO	“See description for programming “”CONDITIONED SWITCH-ON”” YES/NO”
- QUICK ARM - - MACRO ARMING KEYS A / B	**YES**	Possible only from the user menu, after entering the user code
	NO	No limit
INSTALLATION CODE	**YES**	The installer can enter with his code only after receiving authorisation from the user (submenu key 1)
	NO	No blocks other than: **Prog. if on** setting NO disables access of the installer code if the central control unit has at least one sector on.
TIMING PROGRAMMER	**YES**	If any of the causes that block switch-on is present, switch-on is blocked (not performed) and nothing is memorised in the event memory. A phone call is made to report failure to switch on.
	NO	Switch-on is performed anyway and, if there are zones open, the central control unit will trigger an alarm
EVENT MEMORY	**YES**	Only the events listed below are memorized: User_codes - Switch-on - Tamper - Tamper communication **ZONE EVENTS:** Zone alarm - Zone Tamper - Tamper Zone Fire/Failure/Masking - Zone exclusion - Zone Failure Alarm - Masking Zone Alarm - Hold-Up Zone Alarm - Zone excluded after forcing by user **ZONE TECHNICAL ALARM:** Radio sensor survival **TECHNICAL ALARM:** Low output voltage - Power supply failure - Absence of network - Low / no battery / Battery failure - Absence of telephone line - GSM Fault **MISCELLANEOUS:** Radio interference - Forced switch-on - False Code **INSTALLER OPERATION:** Date/Time change - Code change - Change in Programming **USER OPERATION:** Date/Time change
	NO	No filter
FORCED ARMING FROM USER MENU	**YES**	The central control unit accepts forcing by the user for the following statuses: - Zone type Secondary FAILURE, MASKING, Hold-Up - Zones in Antimask status - Zones in survival status **CENTRAL CONTROL UNIT:** Absence of network - Power supply fail - Low output voltage - Recharger failure - Low / No battery / Battery failure **It is not possible to force switch-on for:** Central control unit tamper - Keypad Tamper / Tamper - Keypad communications - Radio interference - Tamper communication - Absence of telephone line / Telephone line fault - GSM malfunction - Zones in Tamper status - “”TAMPER”” type zone open - Primary “”FAILURE”” type zone open - “”ISTANT”” type zone open - “”TIMED”” and “”CONDITIONED”” zone type with “”OFF Times”” open “
	NO	“See description for programming “”CONDITIONED ARMING”” YES/NO”
TELEPHONE COMMUNICATION FOR ZONE ALARM	**YES**	With the system switched on and an input time of xx programmed, the telephone alarm delays communication of the alarm zones (even when instant) by the input time programmed. If the system is switched off within the xx time, IT DOES NOT MAKE THE CALLS
	NO	With the system switched on, telephone communications are activated as soon as a zone alarm occurs.
DISARMING WITH KEY 5	**YES**	The central control unit returns to date/time after 10 seconds if no keys are pressed
	NO	The central control unit returns to date/time after 120 seconds if no keys are pressed
TEST CALL	**YES**	The control panel makes a test call at least every 25 hours to all the programmed phone numbers.
	NO	The control panel does not make the test call.
	YES	After exiting the installer menu, the control panel makes a test call to all the programmed phone numbers
	NO	The control panel does not make the test call

Technical features

The microprocessor control panel controls all the functions typical of a security and protection system as it is able to distinguish between signals from sensors to counter burglary, fire, robbery, medical assistance, etc.
The system consists of the GSM telephonic dialler with voice synthesis already included on the control panel board and can be completed with Radio keypads, radio sirens.

Keypads	• **Raptor RK LC 4G:** keypad with silicone keys and 16-character display on 2 lines integrated within the control panel • **Raptor R LC 4G:** without keypad integrated within the control panel • **for all models there is a maximum of no. 4 additional keypads**
Radio sirens	• maximum no. 2
Sectors	• **no. 8** (separate sectors)
Software zone	• no. **125**, programmable with automatic detection of state of alarm and of anti-tamper that can be managed individually.
Physical inputs	• no. 3 expandable (L1, L2, T/L3) **Not compliant with EN50131 Standards**
Wireless devices	• no. **125** with GFSK FM 868 Mhz bidirectional radio system. Automatic frequency change (AFC), automatic power reduction (ALP), dynamic management of transmissions (DPT), remote sensors settings (RDS).
Zone configuration	• Instantaneous, Conditional, Instantaneous with permanent exclusion, Instantaneous with temporary exclusion, Timed 1, Timed with temporary exclusion 1, Timed with permanent exclusion 1, Ignition ON, HOME, AREA, PERIMETER, 24 hours, 24 hours timed, Tamper, Fire, Primary Fault, Secondary Fault, AntiMask, Robbery, Not used
Zone options	• Pulses, alarm and reset memory, N.C. connection, balanced with 1 resistance, balanced with 2 resistances (tamper signal), chime function, door, test zones, alarm buzzer, activate O.C. outputs, zone AND and directional AND, radio survival management, 16-character alphanumeric string, alarm encoding, inertial vibration, inertial shutter
Event memory	• **no. 500** events that can be stored with date and time and the outcome of phone calls
Arming	• **no. 4** automatic arming modes • With display keypad or with external activations in modes of **ON, HOME, AREA and PERIMETER**
Codes	• **no. 125** user codes available from 4 to 6 digits • **no. 8** programmable user profiles • **no. 125** automatic **Emergency** codes **(with more than 1 million combinations)**
TOY	• n ° 125 devices available (with over one thousand billion combinations) • n ° 125 Emergency devices available (with over one thousand billion combinations)
BIP	• n ° 125 devices available (with over one thousand billion combinations) • n ° 125 Emergency devices available (with over one thousand billion combinations)
Hour programmer	• **16** daily operations for all the sectors • switching on and switching off of sectors, OC activation, Scenarios activation and User Codes blocking • “copy from Monday to Friday from Monday to Sunday” function • **10** programmable holiday periods • automatic summer time-standard time and standard time-summer time change • duration Insertion Alert / Extraordinary management • inhibition of PO codes on
Telephonic	• no. **16** telephone numbers on GSM line • no. **40** customisable voice messages as well as an extensive library of words
Control over power supplies	• warning on display of control panel malfunctions or supervised additional power supply unit
Programming	• from display keypad with simplified guided menu • from PC in direct connection with software **Xwin** and USB cable
Environmental conditions	• Temperature -10°C / + 55°C -Humidity 95%
Environmental class	• Class II
Dimensions (LxHxP)	• **RAPTOR** (container): 247X232X55 mm • Keypad **A500 WS4 - A500 WS4 Plus**: 114 x 135 x 35 mm
Weight without battery	• 1,05 Kg
Lead placeable rechargeable battery	• n ° 6 alkaline batteries 1,5 V
Certification EN 50131	• EN 50131- 1, EN 50131- 3, EN 50131-5-3, EN 50131- 6, EN 50131-10
INCERT	• RAPTOR R LC 4G: D-Q5Y-0027 • RAPTOR RK LC 4G: D-Q5Y-0026

DISTRIBUTION OF THE ZONES

- Terminals L1, L2 and T/L3 of the control panel can be programmed exclusively as zone inputs
- The zones available are divided into two families, **"physical zones"** and **"software zones"**; the quantity available is up to **125 software zones**.

ASSOCIATION ZONES/ SOFTWARE and ZONES/ PHYSICAL .

ZONE/ SOFTWARE: these are the zones that are actually programmable and, for both, there is a maximum number of **125** . Each "software zone" can be associated with a single "physical zone".

ZONE/ PHYSICAL: these are the inputs (terminals) located on the various cards, whether of the control panel, expansion, etc. Each board corresponds to the "physical zones" to be associated with the "software zones" of the system. Each "physical zone" can be associated with one or several "software zones".

NOTE: By default there is no association between ZONE/PHYSICAL and ZONE/ SOFTWARE, giving priority to the radio sensors that will occupy in the control panel a position of separate SOFTWARE ZONE in ascending order starting with the first free one available. In the sensor **WIC 4 - WIC 4 Plus**, also, if the separate management of the two inputs is enabled, the second channel is memorised by adding a unit to the position of SOFTWARE ZONE occupied in the control panel by the first channel. **In this case, the configuration in the control panel of both sensors must be made exclusively on the one with the lowest address.**

Example: If memorised in the position of zone 1, IN1 Input (Channel 2) it is automatically stored in the position of zone 2.

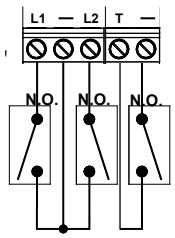
LEGEND:

Physical zone

The physical zones are associated with the software zones, specifying if this input is found: on the central control unit/keyboard - on the base board/expansion board and the number.
CON = CONTROL PANEL
BA.C = BASIC ELECTRONIC BOARD CLAMP
SEN xx = RADIO DETECTORS and SERIAL DETECTORS (HP)

Type of connections

The **RAPTOR LC 4G** central control unit has a basic configuration of 3 inputs (L1, L2, T/L3) **NO** (Normally Open).
NOTE: To maintain compliance with EN50131 Standards, L1, L2, T / L3 inputs cannot be used.

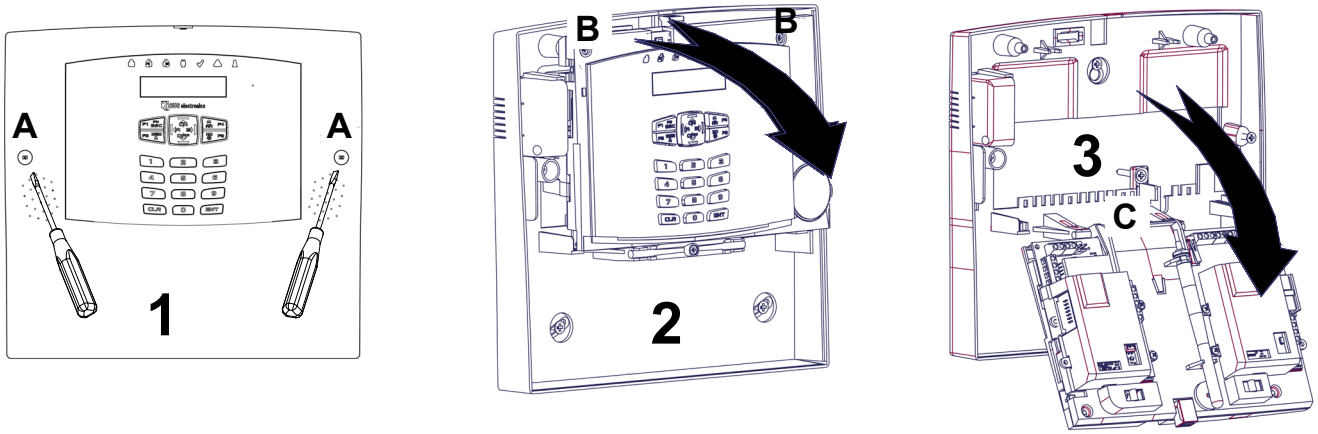


This configuration allows only the alarm status of the zone corresponding with the unbalanced input to be recognised:

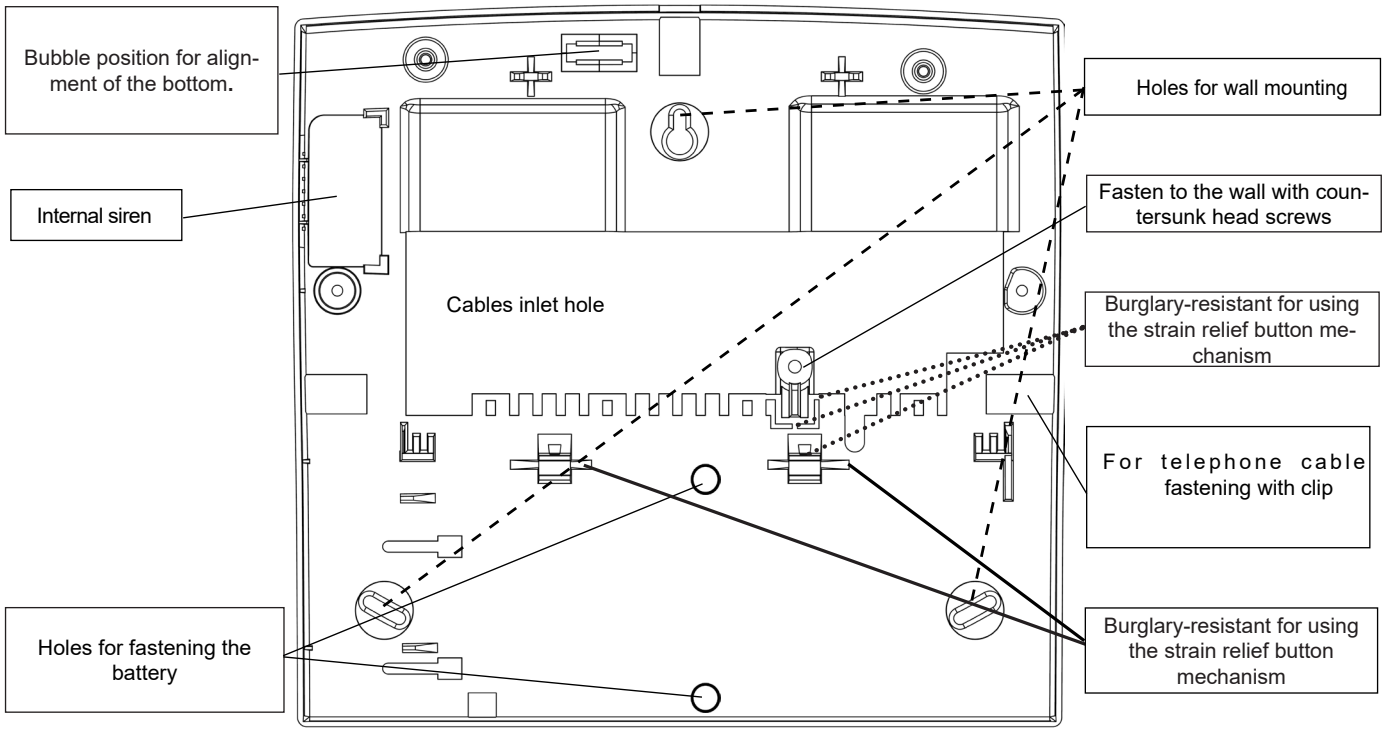
Closing the circuit in inputs triggers the alarm of the corresponding zone.

Installation

1. Unscrew the two front screws “A” to remove the cover
2. Unhook the card from the upper locking “B”
3. Turn the card on the bottom pin “C”



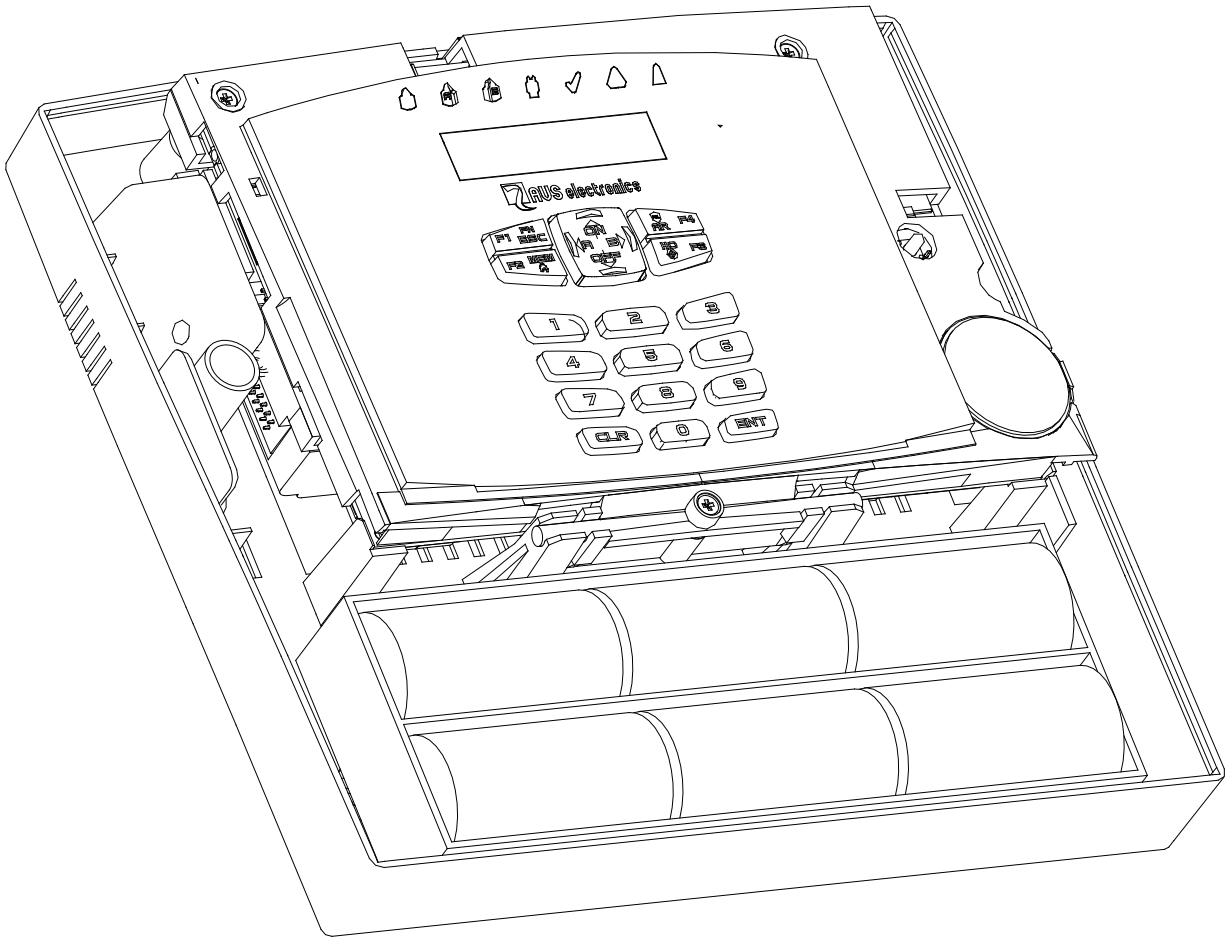
• To guarantee electrical safety, the wires must be fastened with a clip directly on the protective sheath



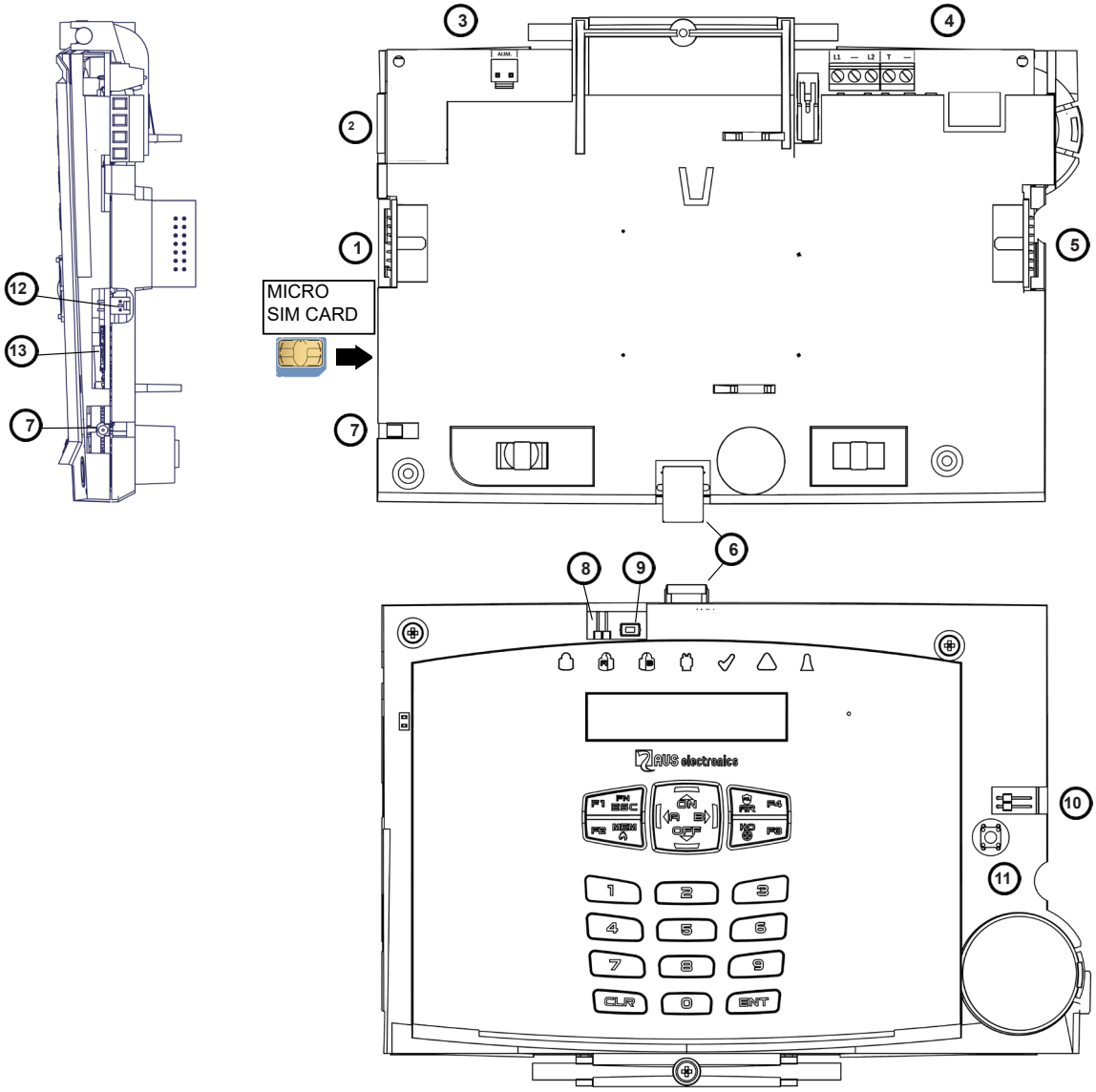
Supply unit

Table

Battery powered	6 x 1.5V alkaline batteries
Battery type	D SIZE
Absorption in Stand BY	300 µA
Absorption Max	300 mA
Voltage of	low battery 6.0 V- low battery reset 7.5 V-



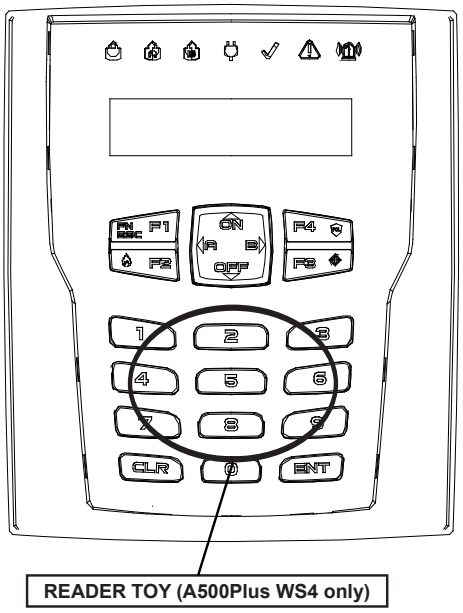
Control panel board



Terminal board, Jumper and Connectors

1		
3	**ALIM.**	power input from battery
4	**L1 - L2 - T/L3**	programmable input lines (default set to “NOT USED”)
	-	negativo di riferimento
6	**PLUG USB**	connector for connection to the control panel via USB cable
7	**ANT GSM**	connector for connection of the gsm antenna
8	**SERVICE**	jumper for reset procedure
9	**RESET**	It resets all alarms and telephone calls in progress, keeping unchanged the power status.
10		jumper for management of the anti-opening button (Closed = Excluded management of Anti-opening button)
11		Lid TAMPER button
12	**CONN SIRENA**	connector for internal siren connection
13	**MICRO SIM**	MICRO SIM housing

Keypad A500 WS4 - A500 Plus WS4



READER TOY (A500Plus WS4 only)

NFC reader

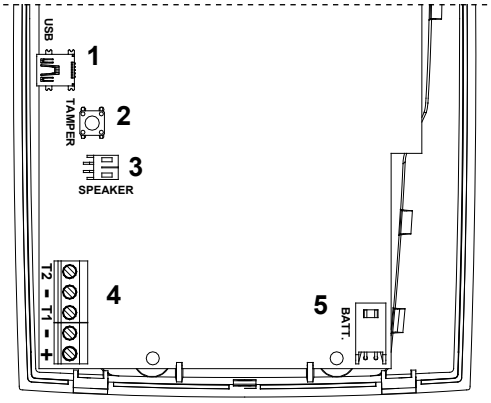
Key acquisition can only be done in the control panel.

With a 12V power supply present, the NFC is active even if the backlight is turned off, if the keypad works with the battery, you must press any key before approaching the key for recognition.

The functioning mode is identical to that of the A500PLUS: scanning of the LEDs according to the user authorization, arming by removing the key.

A500 WS4	A500 PLUS WS4	Technical Features
✓	✓	Bi-dirctional wirelles FM 868 MHz
✓	✓	LCD Display 32 characters + 7 leds system status
	✓	Integrated Speech and speakers
	✓	Embedded microphone
	✓	NFC key reader
✓	✓	Signal repeater for 125 wireless detectors
✓	✓	POWER SUPPLY: Lithium battery Model **Size AA** 3,6 V 2,6 Ah with PS **PW M** 12V.=
✓	✓	Low Battery voltage: - Min. threshold: 2,5 V = / Restoration: 3,2 V =
		Environmental class: Class II
		EN50131-6: Grade 2
		INCERT A500 WS4: **D-Q5Y-0020** INCERT A500 PLUS WS4: **D-Q5Y-0019**
✓	✓	USB port for keypad FW upgrade
	✓	USB port for keypad sounds customization
✓	✓	2 zone imput with Negative NC. If used, the device no longer complies with **EN50131**. **Note**: do not connect to negative, if not used
✓	✓	Dimension: 110x130x34 mm
		Compatibility
✓	✓	RAPTOR LC R/RK 4G SERIES
		Keypad functions settings:
✓	✓	Keypads sssnnnnn — In the installer menu of the control panel, it's necessary to indicate how many keypads are present.
		Repeater programming
✓	✓	Sensor 1 (1 .. 125) / JET 4 DT ENT ↑↓ / Repeater WS4 Tastiera 1 — In the "**wireless device management menu**" of the control panel, in the detector setting menu, set the step "**Repeater WS4**" , the keypad number, (from 1 to 4) that must act as repeater to that wireless detector

1. Mini USB port to perform firmware update
2. Anti-tear and anti-opening button. The spring positioned on the TAMPER button must press into the appropriate seat at the bottom of the keypad
3. Connector for fixing the speaker (only A500 Plus WS4)
4. Terminal board:
+: power positive
-: Power negative with the control unit
T1 / T2: Zone input with NC connection to negative (NOT USED)
-: Negative
Warning: using the external power supply is not certified according to EN50131 standards.
5. SIZE AA lithium battery connector: 3.6 V 2.6 Ah

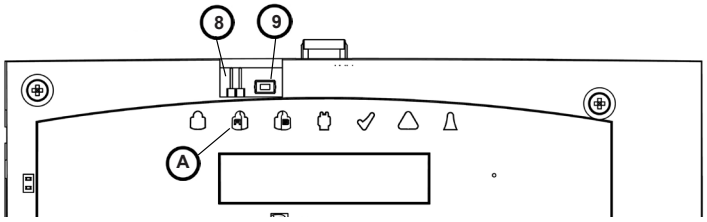


Edit parameters

To access the modification menu of these parameters, proceed as follows:
NOTE: with the tamper switch closed, it is possible to access only step **7=Diagnostics**. To gain access to the complete configuration menu the tamper switch must be open.
a. Press simultaneousl **"CLR"** and **"ESC"** buttons, the display will shows the model, firmware version and the address programmed.
b. Press the **"ENTER"** button, the display shows "Enter Unlock Code for Config"
c. Type the code "9698", the display shows "1 = ADDR, 2 = TAMPER, 3 = RESET, 4 = BUZZ" (changeable only if step 6 is set to "ONLY BATTERY"), pressing "OFF" the steps 5 to 7 are displayed "5=NFC, 6=POWER, 7=DIAGN", pressing "ON" the steps 1 to 4 are displayed back again.
d. Type the number of the parameters to be configured:
1 = ADDR (Default = 1): select the address from 1 to 4, with the **"ON"** and **"OFF"** buttons. Once the address has been selected, press **"ENTER"** to confirm and return to the menu.
2 = TAMPER (Default = Enabled): press **"CLR"** to change the parameters, press **"ENTER"** to confirm and return to the menu.
3 = RESET: when entering, confirmation with **"ENT"** is requested. Deletes the number of the associated receiver, restart the keypad to the address to 1, enables tamper, NFC and sets the 12V + BATTERY power supply.
4= BUZZ (ENTRY/EXIT BUZZ): to enable/disable the entry/exit time buzzer function; press "CLR" to change, press "ENT" to confirm and go back to main menu
5 = NFC (Default = Enabled): allows to enable / disable the NFC reader, press **"CLR"** to change the parameter, press **"ENTER"** to confirm and return to the menu. **!! We recommend using the PW M power supply !!**
6 = POWER (Default = 12V + BATTERY): allows to select the type of power supply used: 12V + BATTERY or ONLY BATTERY-NO REPEATER, type **"CLR"** to change the parameter, type **"ENTER"** to confirm and return to the menu. If the option "only battery" is selected, the repeater function is disabled.
7 = DIAGN .: Entering is displayed the voltage values of the battery, the power supply and the signal level of the last communication occurred with the control panel. To exit the local configuration menu press **"ESC"**.
e. Type **"ESC"** to exit the menu.

ACQUISITION

- The keypad is learned by transmitting the TAMPER when the control panel is inside the menu "Gest. Avail. Radio \ Keyboard \ Edit \ Acquisition ".
- In the keypad ther'ss no acknowledgment of the acquisition, only in the control panel in the same way as sensors, keyfobs, etc. In addition, within the Installation menu of the control panel you have to indicate how many Keypads are present and and which of the first 4 are Wireless Keypads.



RAPTOR R LC 4G - First Radio keyboard acquisition

- Close the **SERVICE** Jumper **(8)**
- Press and release the **RESET** button **(9)**
- When the LED turns on, remove the **SERVICE** Jumper **(8)**
- When the 3 LEDs start flashing, it transmits the tamper of the radio keypad to be acquired
- The 3 LEDs turn on steadily when the radio keypad has been acquired and the control unit restarts automatically
- Close the **SERVICE** Jumper **(8)** to enable wireless communication with the keyboard just acquired
- Enable the first keyboard in programming

KEYPAD FUNCTIONALITIES

-
- When panel enters programming menu from one keypad, other keypads are disabled

To optimize the overall efficiency of the system, when the keypad has the backlight turned off, reduce wireless radio traffic with the control panel.
To bring it back to normal operation, just type **(CLR)** key, so the user, to access with his own code when the keypad is in the backlight off status, must type the **(CLR)** key and then enter the code.
If the backlight is already on, just type in the code directly.

12V + BATTERY Operating mode

WARNING: using the external power supply is not certified according to EN50131 standards
The embedded lithium battery, model **SIZE AA**: 3.6 V = 2.6 Ah, it is not rechargeable: in case of mains failure it replaces the power and once discharged it must be replaced.
In the presence of 12 V = the keypad remains active, consuming only from the power supply.
It continuously shows the messages on the display and the indications on the leds and buzzer sent by controls the control panel.

In case of a 12 V power supply failure, the keypad deactivates the audio and behaves in two different ways depending on the functions it performs:
If it does not act as a repeater, in case of loss of a 12 V power supply, the keypad switches off the display and all the signals and goes into low consumption mode after a few seconds of inactivity on the keys; in this case the battery life is guaranteed as on the other radio products.
If is not operating in repeater mode for at least one sensor of the system, after some seconds of no activity on the keys, it turns off the backlight and the LEDs but not the info written on the display and remains active using the power from the battery. This to ensure the retransmission of any detector signals to be repeated but causes an increase in battery consumption. If it is not necessary to activate the repeater, make sure that in the control panel, all of the wireless detectors have the "Repeating keyboard" set to "0", otherwise the battery of the associated wireless keypad could discharge faster than necessary.

Operating mode ONLY BATTERY - NO REPEATER

It doesn't handle he audio and the repeater functionality can't be used.
After a few seconds of inactivity on the keys, the keypad switches off the display and all the signals and goes into low consumption; in this case the battery life is guaranteed as on the other wireless products

REPEATER OPERATION

To enable the repeater function, you need to learn the detectors on the control panel and in the control panel programming, inside the detector programming menu, set the keypad number (from 1 to 4) in the "Repeat keypad" step, which must act as a repeater for that detector.
When a detector connected to a repeater sends a message, the repeater gives confirmation that it has received it as if it were the control panel and the detector interrupts the transmission. Next, send the message to the control panel and, if the reply is not received, repeats it.
If the detector message also arrives directly to the control panel, it accepts and manages it, but refrains from confirming it, leaving the repeater the task of confirming.
A consequence of the presence of the repeater between the control panel and the detector is that any variations in the programming of the detector made in the control panel, arrive to the latter after at least two communications, and not after just one as it happens when the detector speaks directly with the control panel.

WARNING

- The communication between the control panel and the keypad only takes place via radio transmissions, consequently, if there are several radio devices that transmit at the same time, there could be a loss of data and the consequent need to retransmit them. For this reason, the response to pressing the buttons can be, maybe slower depending on how many radio devices are transmitting in the same moment.
- In case of the control panel goes into alarm and attempts to turn it off via the wireless keypad, there may be a significant reduction of the speed of response between the moment you end up typing the code and the moment when the control panel accepts it and switches off. This is due to the fact that when the control panel goes into alarm, transmits the commands to the sirens before than the other wireless devices and until the siren has not confirmed the reception of commands or transmission attempts are not exhausted, the control panel cannot communicate with the radio keypads.

Audio enable on featured keypads (user)

The audio enabling of the individual keypads is activated as follows:
- Enter ***user code*** with "***Master***" feature and access sub-menu by pressing key "**1**"
- Scroll the programming steps up to "***Keypad setup***" step
- Access the menu and adjust the "***Speaker Volume***" on one of the possible settings (Mute - Low - Medium - High) using the key (**CLR**).

Note: "Mute" deactivates the audio of the keypad for any communication (events and zone state).

Audio "ZONES STATE" and keypads "EVENTS" enabling (user)

The audio ZONES STATE enabling of the individual keypads is activated as follows:
- Enter ***user code*** with "***Master***" feature and access sub-menu by pressing key "**1**"
- Scroll the programming steps up to "***Keypad setup***" step
- Access the menu and set the **"Zones audio en."/ "Events audio en."** on (YES/NO) using the key (**CLR**)

Audio enabling to the keypads (installer)

The enabling of the communications to the keypads is obtained:
- By setting the various events to be communicated on "YES" in ***"Audio Keypad"*** menu.
- By setting the various sectors to be communicated on "YES" in ***"Audio Keypad"*** menu.
- in menu "Keypads > Audio Keypad > **Keypad *RTC***" set to "YES" to enable the vocal management of the system directly with the keypad
- in menu "Keypads > Audio Keypad > ***Events audio en.*** set to "YES" to activate the communications of the enabled events
- in menu "Keypads > Audio Keypad > ***Zones audio en.***" set to "YES" to activate the communications of the associated **inputs**.

Display options and backlight (user)

It is possible to vary the contrast, the intensity of the LEDS and the backlight ; to vary these options do as follows:
- Enter **user code** with "***Master***" feature and access sub-menu by pressing key "**1**"
- Scroll the programming steps up to "***Keypad setup***" step
- Access the menu and scroll downwards to entry "Reduc. Contrast - LED intens. red. backlight - ".
- ***Contrast dim:*** By setting "Yes" the contrast of the display is reduced
- ***LED bright. dim***: By setting "Yes" the brightness of the LEDS of the keypad is reduced
- ***Backlight:*** Set the value (from 10% to 100%) of the rear-lighting intensity of the display and of the keypad.

RTC enabling on featured keypads (user)

It is possible to activate the RTC directly on the featured keypads with the same functions and use modalities of the RTC with telephone connection.
- Enter ***user code*** and press **7**; ("Enable RTC func.": must be enabled in the "user profile"
- Insert the commands described on the user manual for RTC, press (**ESC**) to exit

GSM Channel

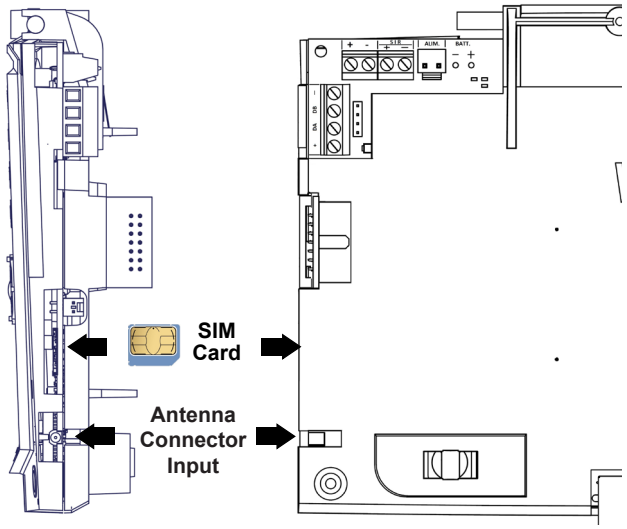
GSM is a device which allows you to make and receive calls via the GSM mobile phone network

Outdoor connections:	• GSM Channel
Telephone numbers profiles:	• n. 16 numbers, that can be associated to any alarm or technical event
Protocols:	• FAST FORMAT, VOCAL, SIA, SIA 2nd level, CONTACT-ID, SIA IP, CONTACT-ID IP, SIREN VOCAL
RTC Remote Telephone Control	• programmable activation for every individual user profile
Absorption:	• standby: 50 mA • transmitting: 400 mA
Electronic board sizes:	• 93 x 15 x 60 mm
Declaration	• The GSM modules used are compliant with R&TTE Directive 99/05/EC as declared under the responsibility of the same manufacturer.
Time alarm transmission	• D2 Vocal mode 12 sec., M2 vocal mode 12 sec. • D2 SIA DC09 10 sec., M2 SIA DC09 10 sec.
Interface Type	• Proprietary interface compliant to ETSI ES 203-21 and RTTE
Standard compliances	• EN50131-1, EN50131-3, EN50136-2, EN50131-10
Security Grade	• 2
Environmental Class	Class II
Type of transmission system	• SP2
Operating mode (Acknoweledgement)	• Pass-through
AS Interface	• Proprietary serial interface on “CONN GSM”
Monitoring GSM mobile phone network	• Continuous check of registration and signal level of GSM Mobile Phone Network

SIM Card Insertion/Antenna Connector Input

To insert the SIM Card:

a. Fully remove the power supply from the control panel.
b. Insert the antenna plug into its connection point
c. Then gently press until it is completely inserted
d. Insert the SIM Card in the relevant slot
e. Energise the control panel



Before inserting and removing the SIM Card, completely remove power from the control panel.

Disable all call transfers
Deactivate the answering machine
Delete all SMS from the SIM

The warning of low SIM Card happens upon reaching of the 8 Euros credit.

If the security PIN code of the SIM card is not disabled it must be entered in the corresponding input step of the panel programming menu. If a wrong PIN code is entered, the panel will execute maximum two attempts to activate the GSM module then stop, and will keep it blocked until a new PIN code is programmed. An error message will be displayed.

Checking Credit and Expiry of the SIM Card for GSM

Credit Check

This check is carried out cyclically regardless of the use of the GSM, or when the GSM module carries out operations using credit.
Upon reaching of the **8 Euros** threshold, the keypad displays the **LOW CREDIT** strip and, if the calls for have been enabled in the telephone "associate events",

GSM Events 1 Prof. : nnnnnnnn

the telephone calls are made.

SIM Card Expiry Date Setting

This operation is necessary every time a SIM is recharged or is activated for the first time, so that the control panel can notify, if enabled, of the SIM Card expiry date.
We recommend setting the notice in advance compared to the same expiry date, to avoid blocks by the operator.

It is possible to display the residue credit, the level of GSM signal and vary the SIM Card expiry date by following the procedure described in the User manual.

Recording of vocal messages

Depending on the equipment used it is possible the recording of forty (n. 40) customised vocal messages for a total time of 240 seconds.
Every individual message can have a maximum recording time of 16 seconds.
These messages can then be used for communication of the control panel.

Recording Procedure through the integrated microphone on the control panel (Raptor RK LC 4G):

To record, press enter into the "Custom speech" programming menu (page 47)

Recording with XWIN software procedure XWIN:

To record, follow the procedure with Xwin software and then transfer the telephone files in control panel using the same procedure used for programming.

Vocal messages

RAPTOR has the possibility of forwarding specific vocal messages depending on the arisen events.
These messages can be technical or alarm and/or to reset the inputs.

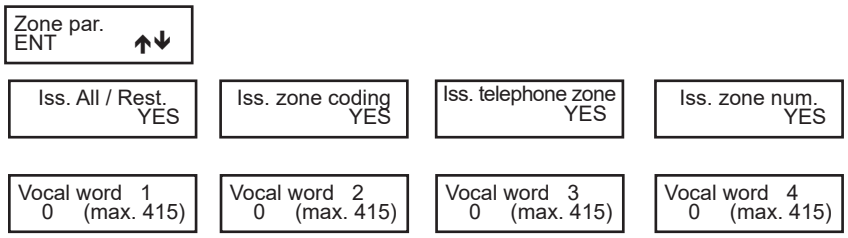
Technical messages relate to situations like power supply anomalies, the absence of the telephone line or other, and are composed automatically using the vocabulary of pre-recorded words shown in the **Telephone Table**; normally associated and placed before these messages, is the welcoming message where the installer usually records the address of the establishment where RAPTOR is installed and, if the sectors are enabled, the message relating to the event belonging sector.
These messages (Welcoming and Sector Message) can be enabled or not to transmission for every individual profile of telephone numbers.

Zones automatic communications

Alarm/zones reset messages relate to the opening or closing of the inputs.
The opening/closing communications of the inputs are normally automatically composed by RAPTOR in relation to the type of line set during SIA coding (ex. theft line or gas line etc.), to the zone number (1-32); normally associated and placed before this communication, is the welcoming messages and, if the sectors are enabled, the message relating to the event belonging sector.
These messages (Welcoming and Sector Message) can be enabled or not to transmission for every individual telephone number.

Zones customised communications

Should it be necessary to customise the RAPTOR communications relating to the zones, by creating an additional message to the standard one, it is possible to access the pre-recorded vocabulary and enter the code of the word in the "Vocal word 1-2-3- 4" steps, as shown in the "**Telephone Table**" inside the telephone menu.



For every individual input it is possible to customise the communication by setting the control panel to "automatically" communicate or not the words and have another 4 extra telephones available ("Vocal word 1-2-3-4").

Welcoming message communication

The welcoming message is part of the 40 customisable by the installer and can be composed by:
1- Recorded welcoming message (usually the ES system reference: at the offices of AVS Electronics S.p.A. in via Valsugana n. etc.)
2- Enabling or not of the sector reference (should the system be divided into more sectors, it would also be useful, in the vocal communication, to have the sector reference in the communication).
3- Additional optional message (should the system be divided per sectors, it would also be useful, in the vocal communication, to have the sector detail in the communication)

A message could be composed as follows:
"**1**" at the office of AVS Electronics S.p.A. in via Valsugana n. .. etc" - "**2**" sector 3" - "**3**" production " - " etc. etc."

The enabling of the communication message happens using the programming step "account code/messages" from the telephone menu.

Under "Phone number > Associate Sector > Sector #", introducing a value different from zero (0) in the "WORD" programming menu, it is possible to activate the vocal announcement of the plant introducing message.

Presentaz. word 0 (0 .. 415)	**Presentation word :** Introducing a value different from zero (0) will communicate the associated word (see word table).
Word sector 0 (0 .. 415)	**Sector word :** Introducing a value different from zero (0) will communicate the associated word (see word table), linked to the associated sector.
Emis. num. sect. NO	**Announcement of the SECTOR number:** Choosing "YES" will communicate "sector number" words.
	Example :
Presentaz. word 376 (0 .. 415)	· The introducing message recorded in the memory place n° 376, which corresponds to the 1 st recorded message, is enable.
Word sector 117 (0 .. 415)	· The additional word n° 117 (garage) is enable
Emis. num. sect. YES	· The "sector number" word is enable

Telephone Table - 1st

To every Telephone Code corresponds a certain default pre-recorded vocabulary that can be used to customise the vocal messages of the control panel.

Phone Code	Vocal communication		Phone Code	Vocal communication		Phone Code	Vocal communication		Phone Code	Vocal communication
1	A	•	81	DISARMING	•	46	GATE	•	178	NINETY_ONE
23	ABSENT	•	161	DOCTOR	•	118	GAZ	•	171	NO
5	ACCESS	•	208	DOOR	•	125	GROUP	•	172	NO
15	ACCOUNTANCY	•	243	DOWNLOADING	•	126	GSM	•	174	NORTH
27	ACTIVATED	•	104	EAST	•	43	HEAT	•	173	NOT
28	ACTIVATION	•	190	EIGHT	•	42	HEATER	•	180	NOVEMBER
26	ACTIVE	•	77	EIGHTEEN	•	235	HEATING	•	181	NUMBER
7	AGGRESSION	•	187	EIGHTY	•	12	HIGH	•	191	OCTOBER
62	AIR_CONDITIONER	•	188	EIGHTY_EIGHT	•	13	HIGH	•	183	OFF
11	ALARM	•	189	EIGHTY_ONE	•	92	HIGH	•	273	OFFICE
65	ALLOWED	•	89	ELECTRICAL	•	276	HIGHER	•	184	ON
88	AND	•	90	ELECTRICAL	•	128	HOME	•	17	OPEN
16	ANOMALY	•	91	ELECTROVALVE	•	186	HOUR	•	18	OPEN
19	APRIL	•	93	EMERGENCY	•	49	HUNDRED	•	185	OPERATION
20	ARCHIVE	•	2	ENABLED	•	130	IN	•	115	OUT
21	AREA	•	110	END	•	132	INCLUDED	•	216	PANEL
3	ARMED	•	94	ENTER	•	133	INERTIAL	•	193	PANIC
4	ARMED	•	135	ENTER	•	134	INPUT	•	194	PARKING
136	ARMED	•	14	ENVIRONMENTAL	•	138	INSTALLER	•	197	PARTIAL
24	ASSOCIATED	•	98	ESCAPE	•	139	INTERFERENCE	•	198	PARTIALIZED
25	ATTIC	•	275	EXCEEDED	•	140	INTERNAL	•	196	PARTITION
8	AUGUST	•	99	EXCLUDED	•	141	INTRUSION	•	261	PARTITION
29	AUTOMATIC	•	100	EXCLUDED	•	142	IRRIGATION	•	200	PERCENT
30	AUTOTEST	•	102	EXCLUDED	•	119	JANUARY	•	203	PERIMETER
84	AVAILABLE	•	101	EXCLUSION	•	148	JULY	•	202	PERIMETRICAL
33	B	•	103	EXECUTED	•	123	JUNE	•	201	PERIPHERICAL
35	BALCONY	•	97	EXHAUSTED	•	51	KEY	•	206	PLUS
36	BARRIER	•	241	EXPIRATION	•	71	KITCHEN	•	209	PORTER'S_LODGE
249	BASEMENT	•	240	EXTENSION_BOARD	•	143	LABORATORY	•	210	POWER
34	BATHROOM	•	105	EXTERNAL	•	204	LANDING	•	211	PREALARM
39	BATTERY	•	106	FAILED	•	146	LEVEL	•	212	PRESSURE
160	BEDROOM	•	107	FALSE	•	147	LIGHT	•	214	PRODUCT
40	BLOCK	•	108	FALSE	•	145	LINE	•	215	PRODUCTION
116	BURGLAR	•	109	FEBRUARY	•	22	LISTENING	•	69	PROGRESS
41	C	•	223	FIFTEEN	•	268	LIVING_ROOM	•	207	PUMP
48	CASE	•	224	FIFTH	•	37	LOW	•	225	RADIO
47	CELLAR	•	52	FIFTY	•	38	LOW	•	242	RANGE
45	CHILDREN_ROOM	•	53	FIFTY_EIGHT	•	233	LUMBER_ROOM	•	228	RE_INCLUSION
56	CLEAR	•	54	FIFTY_ONE	•	230	MAINS	•	137	READER
57	CODE	•	112	FINISHED	•	80	MANAGEMENT	•	231	REAR
58	COMMAND	•	114	FIRE	•	158	MARCH	•	232	RECOGNIZED
59	COMMERCIAL	•	131	FIRE	•	159	MASKING	•	234	RESTORE
60	COMMON	•	213	FIRST	•	151	MAY	•	227	HOLD-UP
61	COMMUNICATION	•	55	FIVE	•	162	MEMORY	•	251	ROLLING_SHUTTER
66	CONTACT	•	10	FLOODING	•	82	MESSAGE	•	44	ROOM
67	CONTROL	•	199	FLOOR	•	165	MILE	•	237	ROOM
50	CONTROL_PANEL	•	205	FLOOR	•	163	MINUS	•	236	SATURDAY
68	CORRIDOR	•	217	FORTY	•	154	MISSED	•	244	SECOND
70	CREDIT	•	218	FORTY_EIGHT	•	152	MISSING	•	262	SECTION
72	D	•	219	FORTY_ONE	•	153	MISSING	•	265	SEISMIC
127	DAMAGE	•	222	FOUR	•	96	MISTAKE	•	248	SELECT
121	DAY	•	221	FOURTEEN	•	167	MODE	•	260	SEPTEMBER
74	DECEMBER	•	220	FOURTH	•	149	MONDAY	•	259	SEVEN
124	DEGREES	•	64	FREEZER	•	169	MULTIPLE	•	76	SEVENTEEN
229	DEPARTEMENT	•	63	FREEZING	•	182	NEW	•	256	SEVENTY
250	DETECTOR	•	113	FRONT	•	175	NIGHT	•	257	SEVENTY_EIGHT
79	DIAL	•	117	GARAGE	•	179	NINE	•	258	SEVENTY_ONE
238	DINING_ROOM	•	120	GARDEN	•	75	NINETEEN	•	170	SHOP
271	DISARMED	•	156	GARRET	•	176	NINETY	•	144	SIDE
272	DISARMED	•	267	GARRET	•	177	NINETY_EIGHT	•	246	SIGNAL

Telephone Table - 2st

To every Telephone Code corresponds a certain default pre-recorded vocabulary that can be used to customise the vocal messages of the control panel.

Phone Code	Vocal communication		Phone Code	Vocal communication		Phone Code	Vocal communication		Phone Code	Vocal communication
44	ROOM	•	245	SIXTEEN	•	226	TEENAGERS	•	312	TWENTY_EIGHT
237	ROOM	•	255	SIXTH	•	287	TELEPHONE	•	313	TWENTY_ONE
236	SATURDAY	•	252	SIXTY	•	286	TELEPHONE_CALLS	•	87	TWO
244	SECOND	•	253	SIXTY_EIGHT	•	288	TEMPERATURE	•	306	USER
262	SECTION	•	254	SIXTY_ONE	•	78	TEN	•	307	VALUE
265	SEISMIC	•	274	SOUTH	•	291	TERRACE	•	311	VENTILATION
248	SELECT	•	31	START	•	289	THERMOSTAT	•	314	VERANDA
260	SEPTEMBER	•	73	STORE	•	292	THIRD	•	317	VOLUMETRIC
259	SEVEN	•	83	STORE_ROOM	•	296	THIRTEEN	•	195	WALL
76	SEVENTEEN	•	86	SUNDAY	•	297	THIRTY	•	150	WAREHOUSE
256	SEVENTY	•	277	SUPERVISION	•	298	THIRTY_EIGHT	•	32	WARNING
257	SEVENTY_EIGHT	•	9	SUPPLYING	•	299	THIRTY_ONE	•	318	WATCHDOG
258	SEVENTY_ONE	•	270	SURVIVAL	•	166	THOUSAND	•	6	WATER
170	SHOP	•	129	SYSTEM	•	295	THREE	•	168	WAY
144	SIDE	•	266	SYSTEM	•	269	THRESHOLD	•	164	WEDNESDAY
246	SIGNAL	•	278	TAMPER	•	122	THURSDAY	•	192	WEST
263	SIM	•	155	TAMPERING	•	294	TOTAL	•	111	WINDOW
264	SIREN	•	282	TAVERN	•	157	TUESDAY	•	95	WRONG
239	SITTING_ROOM	•	283	TECHNICAL	•	85	TWELVE	•	319	ZERO
247	SIX	•	284	TECHNICAL	•	310	TWENTY	•	320	ZONE

Telephone Table - recorded messages

The vocal messages recorded by the installer are memorised in control panel and correspond to the telephone codes shown in the table.

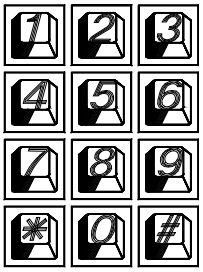
Phone Code	Customised message recording by the installer		Phone Code	Customised message recording by the installer
376	**Message 1:**	•	396	**Message 21:**
377	**Message 2:**	•	397	**Message 22:**
378	**Message 3:**	•	398	**Message 23:**
379	**Message 4:**	•	399	**Message 24:**
380	**Message 5:**	•	400	**Message 25:**
381	**Message 6:**	•	401	**Message 26:**
382	**Message 7:**	•	402	**Message 27:**
383	**Message 8:**	•	403	**Message 28:**
384	**Message 9:**	•	404	**Message 29:**
385	**Message 10:**	•	405	**Message 30:**
386	**Message 11:**	•	406	**Message 31:**
387	**Message 12:**	•	407	**Message 32:**
388	**Message 13:**	•	408	**Message 33:**
389	**Message 14:**	•	409	**Message 34:**
390	**Message 15:**	•	410	**Message 35:**
391	**Message 16:**	•	411	**Message 36:**
392	**Message 17:**	•	412	**Message 37:**
393	**Message 18:**	•	413	**Message 38:**
394	**Message 19:**	•	414	**Message 39:**
395	**Message 20:**	•	415	**Message 40:**

RTC ACTIVATION BY A CALL FROM THE CONTROL PANEL

It is possible to activate the RTC function during an alarm telephone communication, by pressing **key (7)** after the two-tone signal. Subsequently, the control panel will reply - ENTER CODE -. Now follow the indications shown in the paragraph below.

DTMF Commands

The commands are directly activated by pressing the keys on the telephone keypad. The DTMF commands described below are active or not, depending on the profile to which the user is associated.
ATTENTION: there is an interdiction time of two minutes between an RTC call and the subsequent one that doubles if the code inserted in the previous call is incorrect.



[0] OFF ZONE: activates the possibility of excluding/including the input zones of the control panel from n. 1 to n. 32. ***Example*:**
[0] + (zone number) + (#)..
[1] ESC: sector change.
[2] MEM: listen to the events memory
[4] Activate the “Environmental listening” function
via GSM module: the function is activated for 60 ‘’ and you enter a sub-menu:
[3] Reduce / increase the microphone amplification of the control panel
[4] Renewal of 60 ‘’ environmental listening / return to environmental listening by the “spoken towards the central” function
[5] Activate the “spoken to the central” function
[1,2,6,7,8,9,0, *, #] Exit the “Environmental listening” function
[4] TEL OFF: causes the interruption of single telephone communication
[5] OFF: causes the disarming of the control panel - CONTROL PANEL DISARMED -
[7] TEST: supplies information on the state of the control panel.
[8] PART. ARM.: access is gained to a sub menu dedicated to the partial armings;
[1] to arm in HOME / **[2]** to arm in ZONE / **[3]** to arm in PERIMETER
[9] ON: causes the arming of the control panel in modality ON - CONTROL PANEL ARMED ON -
[#] ENTER: it is pressed to confirm a data introduced by the keypad.
[∗] STOP: it is pressed to interrupt a function (ex: the list of the events memory).

RTC USER with recognition of incoming number

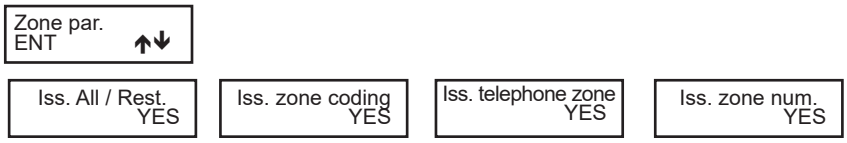
This function enables the caller to communicate directly without having to enter the User code; active only for calls on GSM channel, therefore through the GSM channel integrated in the control panel. This function happens only if during programming the telephone number from which the RTC operation is associated to a User enabled for RTC.

Outgoing SMS Management

RAPTOR has the possibility of forwarding specific SMS messages depending on the arisen events.
These messages can be technical or alarm and/or to reset the inputs.

Technical messages relate to situations which power supply, battery or other anomalies, and are automatically composed by using a library of pre-recorded SMS

Zone messages relate to signals of the zone inputs for alarm, reset and exclusion communications.
The zone SMS are composed by the sequence of the 4 standard words to which the zone strip is added.



Hints on sectors management

La RAPTOR includes the management of the sectors.
This means that up to **8 system** independent between them can be created with the control panel. In case of having to manage detectors in common between different sectors, associate them to the various sectors to which they must refer.
If the “OR Zones” function is disabled, these zones will be activated only when all the sectors to which they are associated are switched on.
The amount of sectors active in the system, meaning how many sectors exist therein independently, is defined during programming.
The sectors are useful when there is the need to have more systems managed by a single control panel. The normal applications, managing only one system, do not require the use of this function, therefore only sector 1 will be active and all the zones associated to it.

Armings

The sectors can be activated in different modalities, one from the other. Example: sector 1 can be armed in ON modality, whereas sectors 2 and 3 are armed in AREA modality. Should there be, at any moment, zones associated to more sectors, these would result being automatically armed in the lowest level modality present between the sectors to which they belong, where the highest level corresponds to arming ON and in decreasing order, HOME, AREA and PERIMETER.
Every zone used by the control panel must be associated to a sector and will result active when said sector is armed in an arming modality containing this zone.

The conditions that allow forcing are:

- Zone type Secondary FAILURE, MASKING
- Zone in antimask status
- Zone in survival status
- CENTRAL CONTROL UNIT
  - Absence of network
  - Power feeder failure
  - Recharger failure
  - Low voltage on ‘+’ power outputs and on ‘+ Vpot’ output
  - Battery low / battery failure / no battery

The conditions that do not allow forcing are:

- Central control unit tamper
- TamperSwitch KEYBOARDS
- Radio interference
- GSM Fault malfunctions
- Zone camper status
- “TAMPER” or “HOLD-UP” zone type open
- Primary FAILURE zone type open
- INSTANT zone type open
- internal instant and timed zones with “OFF times” open

The switch-on can be forced, using the relative controls contained in the guided user menu, accessible by pressing the ENT Key after gaining access with the user code.

Keypads

The system keypads must be associated to one or more sectors. This determines which alarm messages are displayed therein The zone alarms are shown only if relating to zones of the associated sectors. The technical alarms are always shown.
The quick arming function (**Quick Arm**) is linked to the keypad on which it is performed. With this procedure, the sector to which the keypad is associated or, simultaneously, all sectors to which it is associated, is activated.
The “0 active zones” message, upon exiting the installer code, is displayed on keypad when the common zones are not associated to the four different arming modalities (ON, HOME, AREA, PERIMETER). This visualisation disappears when a user code is entered.
After having armed a sector, the “**0 active zones**” message is displayed on keypad to signal the user that there are no zones active in that arming modality.

User Codes

The user codes must be associated to one or more sectors and have access to them only through the keypads associated to their sectors. If a code is associated to one or more sectors and also set as “**Master user**”, it can access the sectors of competence from any keypad. When a user is associated to more sectors and to the function “**Sectors sum**”, it can arm or disarm all systems (associated to it) simultaneously, by pressing 0 (zero).
The users associated to a specific sector, if enabled, can consult the control panel events memory, viewing only the events relating to their sector.
A user associated to all sectors can view the full events memory. With regard to the exclusion of the zones from keypad, the user is enabled to work only on zones under the responsibility of its sector;

Example of keypad behaviour

User 1 associated to sectors 1, 2, 3, 4 and set as “Master user -> NO”

The Users 2/3 are set as “Master user -> NO”

Users/Sectors	KEYPAD (sector 1, 2, 3, 4)	KEYPAD (sector 1)	KEYPAD (sector 2)
USER 1 (sector 1, 2, 3, 4)	sectors choice	display sector 1	display sector 2
USER 2 (sector 1)	display sector 1	display sector 1	unauthorised
USER 3 (sector 2)	display sector 2	unauthorised	display sector 2

Only User 1 associated to sectors 1, 2, 3, 4 and set as “Master user -> YES”

Users/Sectors	KEYPAD (sector 1, 2, 3, 4)	KEYPAD (sector 1)	KEYPAD (sector 2)
USER 1 (sector 1, 2, 3, 4)	sectors choice	sectors choice	sectors choice
USER 2 (sector 1)	display sector 1	display sector 1	unauthorised
USER 3 (sector 2)	display sector 2	unauthorised	display sector 2

15 DIC 06
00 : 00 : 15

******
00 : 00 : 15

RAPTOR ...
avs electronics

Prg start for APP
ENT ↑↓

PROGRAMMING

RAPTOR R: **with the SERVICE jumper closed, the address 1 keypad is activated**

Enter Installer Code followed by (ENT)
(by default: **Installer Code 1 = 000000; Installer Code 2 = Disabled**)

If the code is recognised, the wording "**RAPTOR**" will appear
Press **(ENT)** to enter

Installation
ENT ↑↓

- Keypads Ynnn
- GSM NO
- Conditional arm YES
- Super.block arm NO
- Code R. to deflt NO
- Conform.EN50131 NO
- Test EN solo dgt NO
- Sys. events count 10 (0 ..10)
- Country Italy
- Ctr. panel label

to following page

Installation

Keypads: By setting "YES", the individual keypad connected on serial is enabled

GSM: By setting "YES", the GSM integrated dialler is enabled to dial the programmed calls.

Survival blocks Arming: If you set "NO", the control panel will turn on even if there are sensors in survival mode. By setting "YES" (and only if "Conditional Access = YES), when a command is given, the control panel analyzes the status of the radio sensors, if there is at least one radio sensor in survival anomaly, the control panel will not turn on.

Code Reset to Default: By setting "NO", the "Reset Codes" procedure returns just the Installer Code to its factory setting. By setting "YES", the "Reset Codes" procedure returns all programming to the default settings.

EN50131 conformity: By setting "NO" or if certain parameters are edited (see the "EN50131 - Grade 2 Conformity" section) the unit no longer complies with EN50131 standards.

Test EN of Digital numbers only: By setting "NO", the test of the phone numbers set by EN50131 comprises all the programmed phone numbers. By setting "YES", the test of the phone numbers only comprises the phone numbers programmed with digital protocol.

System events count: It is the number above which repetitive Tamper or Fault events relating to the central control unit and the various peripherals connected (Buzzers, etc. excluding zone inputs) no longer cause the programmed outputs to enter alarm mode, but are instead listed and saved in the event memory; by setting the value 0 (zero) as the code number, the function is eliminated and none of the events are coded.
WARNING: this function is re-enabled with the first change of status (ON/OFF) of the Partition with which the peripheral is associated. **NOTE: By setting 0,1 or 2, the unit no longer complies with EN50131.**

Country: Adjusts the control panel to the local behaviours/electric standards.
NOTE: setting the nation as "BELGIUM" automatically guarantees compliance with T014 with regard to resetting the TAMPER Alarm

Control Panel Label: 16 alphanumerical string, indicated when access to the programming menu

Press **(CLR)** to vary
To access other entries press **(↑)** or **(↓)**
Write the number to be set
Press **(ENT)** to confirm

Press **(CLR)** to vary
Press arrows **(←)** and **(→)** to position the cursor
To access other entries press **(↑)** or **(↓)**
Write the number to be set
Press **(ENT)** to confirm

from previus page

Partitions

Partitions
ENT ↑↓

Partition #
1 (1 ... 8)

Zones 1
YYYYYYYYYYYYYYY

Exit time
MM:SS 1: 0

Buzz.dis. exit t
NO

Entry time
MM:SS 0: 30

Buzzer announce
0 (0.. 60)

Buzz. dis. entry t.
NO

Patrol tour time
0 (0.. 255)

Double check
0 (0.. 255)

Partition label

Partition: Select which partition we are programming from 1 to 8.

Zone: By setting YES, the zone is associated to the partition; the zones can be associated with more than one partition; in this case they will be common to the partitions they are associated with.
By default, all zones are associated to partition 1. In this way, the system can immediately manage a single system.

Exit time: Exit time of the timed zone and 24H timed associated to the partition

Disable output time buzzer in partial arming (HO AR PE): By setting YES, the buzzer does not activate during the output time

Entry time: Entry time of the timed zones and 24H timed associated to the partition

Disable input time buzzer in partial arming (HO AR PE): By setting YES, the buzzer does not activate during the input time
Warning: compliance with EN50131 standards lapses with times greater than 45".

Buzzer announce: it is possible to ensure that the automatic armings are pre-warned by a beep, on the enabled keypads, for a time programmed under "warning duration". During this period of time, by entering an enabled code, it will be possible to delay arming by one hour (extraordinary inclusion).
is. *If 5 minutes are programmed, it starts to sound 5 minutes before arming.*
NOTE: in the event of use of the timing programming, to prevent the voiding of compliance with EN50131, a warning time must be programmed.

Patrol tour time: is programmed in minutes, once timer is expired, the patrol partition is re-armed at **ON**. Essentially, the function means that any user code with a patrol tour attribute associated with this partition turns off the partition for the period of the programmed patrol timer. When the patrol tour timer elapses, the partition reverts to its initial work mode. In case of reset or watchdog, the patrol partitions automatically activate.

Double check: in seconds; in the case of a user code configured with "Double consent" or with TOY, this defines the period for recognition with the keypad of a second user code or coupled TOY configured with "Double consent".
Warning: compliance with EN50131 standards lapses with times greater than 60".

Partition label: it is possible to associate a description of 16 alphanumerical digits for every partition

- Press **(CLR)** to vary
- Press **(ON)** to activate the uppercase and **(OFF)** to activate lowercase letters
- Writing keys::
  (1)abc1 **(2)**def2 **(3)**ghi3 **(4)**jkl4 **(5)**mno5 **(6)**pqr6 **(7)**stu7 **(8)**vwx8 **(9)**yz. **(0)**_'0
- Press arrows **(←)** and **(→)** to position the cursor
- Press **(ENT)** to confirm

Macro

Macro
ENT ↑↓

Macro #
1 (1.. 64)

Operat. #
1 (1.. 8)

Operation Type:
Arm. HO Part.

Partition #
1 (1.. 8)

Zone timers OFF
NO

Label

The Macros (maximum 64) allow the user to carry out various operations at the same time (maximum 8) using the same command:

Type of Operation:

Operation Type:
Arm. HO Part.

Partition #
3 (1.. 8)

Zone timers OFF
YES

- **Arm. ON Part.**
- **Arm. HO Part.**
- **Arm. AR Part.**
- **Arm. PE Part.**
- **Disarm. Part.**

With this type of operation it is possible to enter a preselected modality, ON - HOME - AREA - PERIMETER, and disarm and manage the "Zone timers OFF" function of the Partition selected in the submenu.

Example: *Starting in ON modality of Partition 3, disabling the input and output timers of the timed zones associated with this Partition.*

Operation Type:
Exclude zon:

Zone number
5 (1.. 32)

- **Exclude zone:**
- **Re-incl. zone:**

With this type of operation it is possible to exclude or re-include the zone selected in the sub-menu.

Example: *Exclusion of zone 5*

Label: it is possible to associate a description of 16 alphanumerical digits for every Macro

- Press **(CLR)** to vary
- To access other entries press **(↑)** or **(↓)**
- Press **(ON)** to activate the uppercase and **(OFF)** to activate lowercase letters
- Writing keys:
  (1)abc1 **(2)**def2 **(3)**ghi3 **(4)**jkl4 **(5)**mno5 **(6)**pqr6 **(7)**stu7 **(8)**vwx8 **(9)**yz. **(0)**_'0
- Press arrows **(←)** and **(→)** to position the cursor
- Press **(ENT)** to confirm

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Zones
ENT ↑↓

Zone numbers
1 (1 .. . 125)

Phisical input
CPN I.BA 1

Zone type
Delay T1

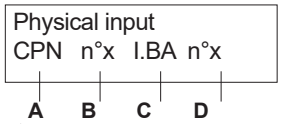
Zones

Numbers Zone: Select the number of the “software” zone to be programmed

Physical input: For each “software” zone it is possible to associate a position that corresponds to the “terminal” where the sensor has been wired or acquired.

Entries description

A - CPN = CONTROL PANEL,
B - I.BA = BASIC INPUT
C - n. x = INPUT NUMBER



Example: *In the example at the side, the software zone is linked to the physical input that corresponds to* - **CONTROL PANEL** - *connected on* **BASIC INPUT- number 3**

Physical input #
CEN MBA 3

Zone type: for every input line of the control panel it is possible to determine the type of line.
• **Not used:** the zone is not considered from the control panel analysis.
• **Istant:** zone that causes an immediate alarm when it unbalances with control panel armed.
• **Conditional:** immediate zone that is automatically excluded during the input and output time of a timed zone; in case of more timed zones, reference must be made to that with the longest time. With control panel armed the unbalancing of this input causes an immediate alarm when the output time or the return time are not in progress.
• **Delay T1:** upon arming of the control panel the output time becomes active, signalled by the intermittent sound of the keypad buzzer. After this time, if the input is unbalanced, the return time is made available, signalled by an intermittent, highly frequent, sound; after expiry of this time an alarm is activated, unless the control panel has been in the mean time disarmed.
• **Inst. perm. esc. (Immediate permanent esclusion):** immediate zone that is automatically excluded if unbalanced at the time of arming the control panel; it remains excluded until disarming of the same control panel.
• **T1 Perm. escl. (Timed Permanent esclusion):** these are timed zones with permanent exclusion. They are automatically excluded if resulting unbalanced at the end of the output time; they remain excluded until disarming of the same control panel. If it is balanced at the end of the output time, when it is next balanced, the zone will be timed with the input time.
• **Ist. temp. escl (Immediate with temporary esclusion):** it is automatically excluded if it results unbalanced upon arming of the control panel; it is automatically included upon its re-balancing.
• **T1 Temp. escl. (Timed with temporary esclusion):** these are timed zones with permanent exclusion. They are automatically excluded if resulting unbalanced at the end of the output time; they remain excluded until disarming of the same control panel. If it is balanced at the end of the output time, when it is next balanced, the zone will be timed with the input time.
• **Key ON:** zone for remote arming in ON modality; therefore, the unbalancing of the zone in this way programmed will cause the arming of the control panel in ON modality, activating the relative associated zones.
• **Key HOME:** zone for remote arming in HOME modality; therefore, the unbalancing of the zone in this way programmed will cause the arming of the control panel in HOME modality, activating the relative associated zones.
• **Key AREA:** zone for remote arming in AREA modality; therefore, the unbalancing of the zone in this way programmed will cause the arming of the control panel in AREA modality, activating the relative associated zones.
• **Key PERI :** zone for remote arming in PERIMETER modality; therefore, the unbalancing of the zone in this way programmed will cause the arming of the control panel in PERIMETER modality, activating the relative associated zones.
• **24 Hours:** zone independent from arming of the control panel, active both with control panel disarmed and with control panel armed; it can be excluded from the “ZONE OFF” function.
• **24H Delay (24 hour timed zone):** zone independent from arming of the control panel, active both with control panel disarmed and with control panel armed. Upon its unbalancing, the return time is made available, signalled by an intermittent, highly frequent, sound; upon expiry of this latter time an alarm activates, unless the user code has been in the mean time entered; can be excluded from the function “ZONE OFF”.
CAUTION: The zones used as 24-hour timed are not compliant with EN50131 Grade 2
• **Tamper:** zone independent from arming of the control panel, activates both with control panel disarmed and with control panel armed; it is used to connect the tamper proof and cannot be excluded from the “ZONE OFF” function
• **Fire:** zone independent from the switch-on of the central control unit, active with the control unit on or off, used to connect fire sensors; can be used separate from the “ZONE OFF” function.
CAUTION: The areas used as FIRE are not compliant with EN50131-1 and EN 50131-3
• **Primary Fail:** zone independent from the switch-on of the central control unit, active with the control unit on or off; manages the IMQ general siren failure signal.
• **Secondary Fail:** zone independent from the switch-on of the central control unit, active with the control unit on or off; manages the IMQ general sensor failure signal
• **AntiMask:** (Anti Masking) zone independent from the switch-on of the central control unit, active with the control unit on or off; manages the IMQ general anti masking sensor failure signal
• **Hold up:** zone independent from the switch-on of the central control unit, active with the control unit on or off, the alarm is not displayed on the keypad; specific input for the anti-Hold-Up devices.
CAUTION: With the “Compliant with EN50131” option enabled, the “Encode Alarm” setting, if configured, refers to registration of the event in the Event Memory only, while the other configurations remain active.

Warning The zones programmed as Key (ON-HO-AREA-PERI) are not certified IMQ-SECURITY SYSTEMS
Warning The zones programmed as Key **(ON-HO-ZONE-PERI),** must be associated **to one partition only**
Warning Zones from 9 to 32 are programmed by default as **[-] Unused**

- Press **(CLR)** to vary
- To access other entries press **(↑)** or **(↓)**
- Press arrows **(←)** and **(→)** to position the cursor
- Press **(ENT)** to confirm

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from previus page

Zones

Active in ON
YES

Active in ON - By setting YES, the zone is enabled to activate at **ON**.

Active in HOME
YES

Active in HOME - By setting YES, the zone is enabled to activate at HOME.

Active in AREA
YES

Active in AREA - By setting YES, the zone is enabled to activate at AREA.

Active in PERI
NO

Active in PERI - By setting YES, the zone is enabled to activate at PERIMETER.

Act. int. siren
YES

Active internal siren - By setting YES, the zone is enabled to activate the control panel internal siren.

Sirens activ.
YY

Sirens active - By setting **YES**, the zone is enabled to activate the sirens connected to serial port.
Setting **"Y"** establishes which siren must be activated

Memo alarm
YES

Memo alarm - The alarm caused by the unbalancing of the input zones can be recorded in the events memory of the control panel; with "YES", the function is enabled, with "NO" the event will not be recorded.
Warning: By setting NO, the unit no longer complies with EN50131.N50131.

Memo restore
NO

Memo restore - The balancing after the alarm of the input zones can be recorded in the events memory of the control panel; with "YES", the function is enabled, with "NO" the event will not be recorded.

Activ. buzzer
YES

Activates buzzer - The alarm caused by the zones configured with a "YES" will cause the keypad buzzer to sound; the sounding time has been programmed in the Times programming menu. For example, it can be used to signal detectors alarms which temperatures, liquids level, emergency doors, without a siren being activated.

Pulses number
1 (1 .. . 120)

Pulses number : For every input line of the control panel it is possible to determine the number of unbalancings necessary to activate the associated alarm outputs. By default, it is programmed that an individual unbalancing of the zones causes the alarm state of the control panel. The time interval within which the impulses are summed can be programmed from the Times Menu; upon expiry of this time the counter is reset. If the zone remains unbalanced for 30 seconds an alarm state is had, regardless of the number of programmed impulses.

Alarms counter
10 (0 ..10)

Alarms counter - It is the number after which the repetitive events will no longer cause the alarm state of the programmed outputs, but will be summed and memorised in the events memory; by entering the value of 0 (zero) as code number, the function is eliminated and the events will never be coded. The braking of a detector may cause as many alarm cycles as the coded alarms, as long as a value different from "0" (zero) is programmed.
Warning: the rehabilitation of an area excluded from this function occurs by desarming and then arming again the partition of the specific zone.
Warning: By setting 0,1 or 2, the unit no longer complies with EN50131.

Test zones
NO

Test zones: The zone to which the Test function has been enabled does not cause the activation of the programmed alarm outputs nor the sending of calls, but only the memorising of the occurred alarm.

OR zone
NO

OR zone: If several sectors share the zone, unbalancing triggers the alarm even if a single associated Partition is armed.

Chime
NO

Chime: Unbalancing the zone to which the Chime function is enabled activates the sound of the keypad buzzer; to silence it, a User Code must be entered, enabled to disarm the system.
For example, it can be used to check the outputs opening, even emergency, with system disarmed.

Door
NO

Door: Unbalancing the zone to which the Door function has been enabled activates the sound of the keypad buzzer; everything is subject to the programming of the "DOOR Buzzer Time". For example, it can be used to recall attention on the synoptic controls or external visual signals.

Alarms audio en.
YES

Alarms audio enable: the alarm of the input zones is communicated to the keypads enabled for communication of the alarm.

Zones audio en.
YES

Zones audio enable: The unbalancing of the zones is communicated to the keypads enabled for communication of the zones state.

Dis. det. survival
NO

Disable detection survival: Set at "YES", if wanting to deactivate the supervision control for the radio detector.

Dis. det. fault
NO

Zone Label: for every input zone it is possible to associate a description of 16 alphanumerical digits; this strip helps the User in the understanding of the zones in which the system is subdivided.

Zone label

- Press **(CLR)** to vary
- Press **(ON)** to activate the uppercase and **(OFF)** to activate lowercase letters
- Writing keys:
  (1)abc1 **(2)**def2 **(3)**ghi3 **(4)**jkl4 **(5)**mno5 **(6)**pqr6 **(7)**stu7 **(8)**vwx8 **(9)**yz. **(0)**_'0
- Press arrows **(←)** and **(→)** to position the cursor
- Press **(ENT)** to confirm

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Zones

Zone: Phisical input > Zone

Phis. input > zone
ENT ↑↓

It is possible to carry out a research to understand, starting from a physical input, which software zone is associated to it.
Select the physical input as previously described and subsequently press **(ENT)**. The associated software zone will be displayed.

- Press **(CLR)** to vary
- To access other entries press **(↑)** or **(↓)**
- Press arrows **(←)** and **(→)** to position the cursor
- Press **(ENT)** to confirm
- Press **(ESC)** to go back

Phisical input
CPN I.BA 1

Zone number 1
ESC ENT ↓

This menu enables to directly access programming/visualisation of the zones.

- Press **(ENT)** to access programming of the zones
- Press **(↓)** to verify whether the physical input is associated to other software zones
- Press **(ESC)** to go back

And Zones

AND zone
ENT ↑↓

To program in AND two zones, means that both must be in alarm within the time programmed in order for the alarm outputs to activate. To completely disable the AND ZONES function, set “0” on the “first/second” pair for all 16 pairs.

AND pair #
1 (1 .. 16)

- Press **(CLR)** to select the pair
- Select the pair
- Press **(ENT)** to confirm

First zone
0 (0 .. 120)

First zone
0 (1 .. 32)

- Press **(CLR)** to select the “software” zone
- Selezionare la zona “software”
- Press **(ENT)** to confirm

Second zone
0 (0 .. 121)

- To press **(↑)** or **(↓)** to access the “Second zone”

Second zone
0 (1 .. 33)

- Press **(CLR)** to select the “software” zone
- Selezionare la zona “software”
- Press **(ENT)** to confirm

Note: by setting ” “**9**” for RAPTOR8, “**17**” for RAPTOR16, “**33**” for RAPTOR32, “**65**” for RAPTOR64 “**121**” for RAPTOR128 on the “Second zone”, the control panel ensures that the detection of an alarm coming from the AND zone, happens as soon as any zone of the partition is alarmed.
Non Directional: the control panel ensures that the detection of an alarm coming from the AND zones, happens only if both are alarmed.
Directional: the control panel ensures that the detection of an alarm coming from the AND zones, happens only if alarmed in increasing order.
Note: During the AND time the zone can activate: buzzer (door-chime), pre-alarm O.C., zone state O.C., alarm messages on keypad, pre-alarm events memory.

Directive AND
NO

Tamper exclude - If yes, enables the simultaneous exclusion of the line and of the tamper in case this is excluded. (Not available if Belgium is set).

Tamper exclude
NO

- Press **(CLR)** to vary (YES/NO)
- Select the pair
- Press **(ENT)** to confirm

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Tamper ENT ↑↓

- Act. int. siren YES
- Sirens activ. YY
- Memo Tamp. alarm YES
- Memo Tamp. rest. NO
- Activ. buzzer YES

Tamper

The input zones programmed with the “Tamper” modality, can activate the alarm .

Active internal siren - By setting YES, the zone is enabled to activate the control panel internal siren for the tamper alarm.

Sirens Activates: Setting **“N”** establishes which wireless siren must not be activated. Setting **“Y”** establishes which wireless siren must be activated for the tamper alarm.

TAMPER Alarm Memo: By setting “YES”, the tamper proof alarm will activate the Alarm Memorisation Tamper.

TAMPER Reset Memo: By setting “YES”, the tamper proof alarm will activate the Reset Memorisation Tamper.

Activates Buzzer: By setting “YES”, the tamper proof alarm will activate the Buzzer signal in the enabled keypads

- Press **(CLR)** to vary
- Press arrows **(←)** and **(➔)** to position the cursor
- Press **(CLR)** to vary (YES / NO)
- Press **(ENT)** to confirm

Fire ENT ↑↓

- Act. int. siren YES
- Sirens activ. nn
- Memo fire alarm NO
- Memo fire rest. NO
- Activ. buzzer NO

Fire

Active internal siren: By setting “YES”, the fire alarm will activate the control panel internal siren.

Sirens Activates: Setting **“N”** establishes which buzzers with wireless siren must not be activated. Setting **“Y”** establishes which wireless siren must be activated for the fire alarm.

Memo Fire Alarm: By setting “YES”, the Alarm Fire proof alarm will activate the Alarm Memorisation.

Memo Fire Reset: By setting “YES”, the Alarm Fire Reset proof alarm will activate the Reset Memorisation.

Activates Buzzer: By setting “YES”, the Alarm Fire proof alarm will activate the Buzzer signal in the enabled keypads.

- Press **(CLR)** to vary
- Press arrows **(←)** and **(➔)** to position the cursor
- Press **(CLR)** to vary (YES / NO)
- Press **(ENT)** to confirm

ATTENTION: the FIRE input is not certified according to CEI79-2 Standard.

Antimask ENT ↑↓

- Act. int. siren YES
- Sirens activ. nn
- Memo alarm NO
- Memo riprist. NO
- Attiva buzzer YES
- Antimask 24 NO

Antimask

Active internal siren: the alarm caused by the anti-mask signalling if set on YES will cause the activation of the control panel internal siren for the time programmed

Sirens Activates: The alarm caused by the anti-mask signalling if set at YES will cause the activation of wireless siren for the time programmed.

Memo Alarm: the alarm caused by the anti-masking signalling can be recorded in the events memory of the control panel; a YES enables the function, with NO the event will not be recorded

Memo Restore: the restore of the anti-masking signalling can be recorded in the events memory of the control panel; a YES enables the function, with NO the event will not be recorded

Buzzer Activation: the alarm caused by the anti-mask signalling if set on YES will cause the keypad buzzer to sound The sound time can be programmed in the menu, time programming

24 H anti-mask: setting this step on YES, the anti-mask will activate the signalling also at disarmed system.

- Press **(CLR)** to vary
- Press **(ENT)** to confirm

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Timings ENT ↑↓

Timings

Act. int. siren
MM:SS 3 : 0

Active internal siren: Activation time of the control panel relay
The outdoor siren must sound from 90 seconds to 3 minutes maximum, with different times, compliance with EN50131 Standards is lost.

Siren add.
1 (1 .. 2)

Siren address: Select the siren on wich the relay need to be programmed

Siren time
MM:SS 3 : 0

Siren Time: siren activaction timer
The outdoor siren must sound from 90 seconds to 3 minutes maximum, with different times, compliance with EN50131 Standards is lost.

Buzzer time
MM:SS 1 : 0

Buzzer time: Sound time of the buzzer of the keypads, in case it is associated to an alarm ("Activate buzzer"). By inserting "Deactivated", the buzzer is excluded; by setting "Bistable", the buzzer does not deactivate after an established time, but only after the user intervention.

Interpulse time
60 (0 . . 255)

Interpulse time: Time interval within which the unbalancings necessary to activate the zones alarm will be counted with a number of impulses greater by one.

AND ZONE time
60 (0 . . 255)

AND ZONES Time (seconds): It defines the time interval within which the unbalancing of the zones in "and" between them is considered valid to cause alarm.
If times lower than 30 seconds are used, the unit no longer complies with EN50131.

Buzzer DOOR time
255 (0 . . 255)

DOOR Buzzer Time (seconds): Activation time of the buzzer on keypad from the unbalancing of a zone with this function associated.

Survival time
120 (40 . . 255)

Survival time: (Supervision time) (minutes): supervision of the detectors via radio selectable between (40..254min..255). It is a time interval within which the detectors via radio must be received from the control panel; 255 disables this function.
Warning: compliance with EN50131 standards lapses with times greater than 60".

Maintenance Per.
0 (0 . . 24)

Maintenance Interval (months): Time interval expressed in months that is reset every time one exits programming, which upon expiry, displays on the keypads the message "SYSTEM MAINT". The "0" value indicates that the service is disabled.

Messages latency
255 (0 . . 255)

Messages latency (hours): the historical messages, for example the visualisation on keypad of an occurred alarm, are displayed for the time set or until the end of the cause that generated them; upon expiry of this time-out, they will be deleted from visualisation. Upon entering of the user code, the events memory will be displayed.

- By entering from **1 to 254** in hours, the message will remain displayed until the end of the set time.
- By entering **255**, the message will be displayed on keypad until the end of the cause that generated it.
- By entering **0**, the message will go directly into the events memory without any warning to the user

TIMES MANAGEMENT

Not programmed: the output does not activate;
MM:SS: the output will activate for the set time (MM = Minutes / SS = Seconds)
HH:MM: the output will activate for the set time (HH = Hours / MM = Minutes)
GG:HH: the output will activate for the set time (GG = Days / HH = Hours)

"Times" Note: the set values may be automatically rounded off after confirmation with **(ENT**)

- Press **(CLR)** to vary
- Press **(↑)** or **(↓)** to move
- Enter the chosen number
- Press **(ENT)** to confirm
- Press **(↑)** or **(↓)** to move

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from previus page

Service codes ENT ↑↓

Installer cod 1 ENT ↑↓

Code # ******

Label

Installer cod 2 ENT ↑↓

Code # Deleted

Label

Prog. when armed YES

Enable by user YES

Communic. code ******

Access Password 000000

Service Codes

Installer Code 1: this is one of two codes required for complete programming of the central control unit.

Code #: The value of Installer Code 1 is set by default as 000000 (six zero digits).

Label: It is possible to associate a description of up to 16 alphanumerical digits to each installer code.

Installer Code 2: this is one of two codes required for complete programming of the central control unit.

Code #: Installer Code 2 is disabled by default.

Label: It is possible to associate a description of up to 16 alphanumerical digits to each installer code.

Prog. when armed: by setting NO the access of the installer code is disabled if the control panel has at least one Partition armed.

Enable by user : setting YES, the installer can access the programming via keyboard, direct connection via USB port or remote connection via phone line or EWEB only if enabled by the user.

NOTA: By entering the Installer Code any detection on the input zones and on the tamper proof zone is blocked; **all pending calls are also cancelled**. If no key on the keypad is pressed for 30 seconds, programming is automatically abandoned. It is possible to bring this time to 60 minutes, by accessing the **"Menu Block"** menu, enabling increase of the system maintenance period.
Communication Code: It is the code that, when typed on the main keyboard can be activated:
"USB Connection": "Central": for interactive programming through central USB connection
"Remote Keyboard" for interactive programming via keyboard USB connection
NOTE: The "Remote Keyboard" is present in all of keyboards models but is only active in the ICE model.

"XWIN": "Align Center" to request all'XWIN programming remotely via the number of Telemanagement
"Align PC" to send the all'XWIN programming remotely via the number of Telemanagement
"" Memory Discharge" to send the event log remotely all'XWIN by the number of Telemanagement
(Maximum 500 events).
Factory is <u>not programmed</u>, you must set a value menu "Installer" to activate it.
Warning: use keys 0 to 9 to enter the password
Access Password: It is an alphanumerical password composed of 6 digits; by default **000000.**
This password allows the control panel to recognise the computer for reprogramming via a phone connection.
Warning: To enter the password, use keys 0 to 9 for the numbers and buttons UP (ON) and DOWN (HO) for letters A,B, C, D, E, F.
Warning: For the full enabling of the alignment it is necessary that the **Access Password** programmed in control panel, be the same to those programmed in the computer for the selected client.

<u>USB READY FUNCTION:</u>
If **INSTALLER CODE 1** is programmed **"000000", INSTALLER CODE 2** is programmed as **"DELETED"** and the **COMMUNICATION CODE** is **not programmed,** the connection through the USB port of the control unit will **ALWAYS be ENABLED.**

User codes ENT ↑↓

Code # 1 (1 ..128)

Code # ******

Partitions Ynnnnnnn

Armed ON Ynnnnnnn

Disarmed Ynnnnnnn

Macro A 1 (0 .. 64)

Macro B 2 (0 .. 64)

User prof. # 1 (1 .. 8)

Master user YES

to following page

User Codes

The programmable User Codes are in total 128 and enable access to all management functions of the control panel.
The values by default are:
Ex. : User Code 1: **000010;** *User Code 63:* **000630;** *User Code 128:* **001280**

Code: The user code can be composed of 4, 5 or 6 digits.
Warning: If the code is composed of 6 digits, it is not necessary to press **(ENT)** to confirm**.**

Controlled partitions: Every user code can be associated to one or more partitions.
If the sum modality is enabled, the User may decide to individually work on the various partitions for which it is enabled or, by entering the "sum" modality using the 0 (zero) key, simultaneously carry out armings and disarmings on all partitions.

Arms in ON - command (ON): "YES" enables the Code selected for the arming in the ON modality.

Disarmed - command (5): "YES" enables the Code for the disarming of the control panel.

Macro A: This comprises 64 possible multiple operations that can be associated with key A on the keypads (see programming in "Macro").

Macro B: This comprises 64 possible multiple operations that can be associated with key B on the keypads (see programming in "Macro").

User Profile: Associates the user code to one of n°8 profiles available in the menu

Master user: If enabling the User as master, the code has priority on the keypads, it can therefore work on its partition even from keypads not under its competence.
As well as this enabling it will also have other functions that are described in the "MASTER USER ENABLINGS" table; certain functions are subject to enabling in the "User Profile".

MASTER USER ENABLINGS	
Function	**Profile Enabling**
Change User Codes (NO MASTER) of competence Partition	Change User Code: YES
Enable / Disable User Codes of competence Partition	Change User Code: YES
Change User Code (NO MASTER) label	Change User Code: YES
Vocal telephone numbers change of partitions of competence	Change tel. par.: YES
SIM Card expiry date variation	Change te. par.: YES
Keypad parameters variation	-

from previus page

User Codes

Skip part. choose NO

Skip partition choose: When this option is activated, the user will be able to operate on all his partitions also from keypads belonging to other partitions (if Master User is in NO).

Patrol tour NO

Patrol Tour: "YES" enables the code patrol function; the patrol code cannot perform any other operation if not that of entering its code:
- It cannot perform operations (armings, disarmings, exclusions, OC)
- It cannot access any user menu

Messages: The string "Patrol tour enabled" with the date/time appears when the patrol tour code is entered; the events "user code xxx" and then "Access Patrol Tour keypad#" are also saved.
At the end of the patrol tour time, the message "deactivate patrol tour" appears and the event is saved in the memory.

Double check NO

Double check: "Yes" requires recognition at the keyboard within the period of time programmed in the "Sectors" menu, or two User Codes with "Double consent" option, two TOYs paired with two User Codes with "Double Consent" option or one User Code and one TOY both with "Double Consent" option.
Warning: The codes set at "YES" always work with "double consent".

Shift # 1 0 (1 .. 15)

Shift 1: This defines in which of the 15 available time bands, programmable using the "Timing Programmer", the user code is enabled. With 0 the code is always enabled.

Shift # 2 0 (1 .. 15)

Shift 2: This defines in which of the 15 available time bands, programmable using the "Timing Programmer", the user code is enabled. With 0 the code is always enabled.

Multi-part. vis. Flat

Multi part. vision: It is possible to vary the displaying of the partitions to which the code is associated, when this is linked to more partitions.

Partition 1 ko-ap##########	**Flat:** enables the user to display the partitions.
Part.:0203040608 stato:okon--arpe	**Compact:** enables the user to display only the partitions of competence in groups of 5 at a time.
Partition # 03 ok offices	**Continous:** allows the user to visualise the relative partitions one at a time and the relative descriptive string.

Commands summary:

- **[→][←][↑][↓]:** to select the partition
- **[ENT]:** to access the partition
- **[CLR]:** to directly set the partition number
- **[0]:** to simultaneously manage all partitions of competence
- **[ESC]:** to go back by one step

Visualisations

COMPACT	FLAT	CONTINUA	DESCRIZIONE
OK	K	PARTITION #01 ok	system disarmed, zones balanced
- -	-	PARTITION #01 --	system disarmed, zones open
On	O	PARTITION #01 On	system armed in ON
Ho	H	PARTITION #01 Ho	system armed in HOME
Ar	A	PARTITION #01 Ar	system armed in AREA
Pe	P	PARTITION #01 Pe	system armed in PERIMETER
■	■	-	Partition not of competence

User label

User label: it is possible to associate a description of 16 alphanumerical digits for the first 110 User Code;

- Press **(CLR)** to vary
- Press **(ON)** to activate the uppercase and **(OFF)** to activate lowercase letters
- Writing keys:
  (1)abc1 **(2)**def2 **(3)**ghi3 **(4)**jkl4 **(5)**mno5 **(6)**pqr6 **(7)**stu7 **(8)**vwx8 **(9)**yz. **(0)**_'0
- Press arrows **(←)** and **(→)** to position the cursor
- Press **(↑)** or **(↓)** to move
- Press **(ENT)** to confirm
- Press **(ESC)** to go back

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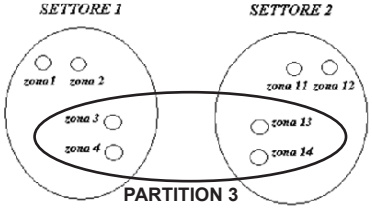
NOTE: After 3 attempts at entering incorrect codes, the control system will be disabled.
NOTE: To guarantee compliance with document T014, the User Code must have 6 figures.

Example: Two Partitions and one PATROL Partition



Intends performing patrol that interests zones 3, 4, 13 and 14: the guard can move freely as long as within the influence area of these detectors.
To do this, a patrol partition is created, for example number 3, that includes the above-said zones, that become common. It is now possible to **create a patrol user** by simply assigning this partition 3 to a user code and enabling the "PATROL "YES"" step. The moment the patrol user enters the code, the common zones, associated to partition 3, become inactive, and the surveillance can carry out the inspection. A timer is also simultaneously activated (different for every available patrol partition), used to automatically reactivate partition 3 and, eventually, proceed with the communication (and/or alarm) for "patrol not completed". At the end of the inspection, the patrol user deactivates the patrol function, and by doing this, the common zones behave following the arming state relating to the original 1 and 2 partitions.

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User profiles ENT ↑↓

User prof. # 1 (1 .. 8)

Memory view YES

OFF ZONE func. YES

Buzzer exclusion YES

Enable RTC func. YES

Stop dialler YES

Code change YES

Change tel. par. YES

Immediate disarm YES

Arm in HOME YES

Arm in AREA YES

Arm in PERI YES

Disarm timer-arm NO

Timer bypass NO

Activat. overtime NO

Date / Time YES

Zone Walk Test NO

Enable Install. YES

Reset fire loop NO

to following page

User Profiles

User profile: Every User Code can be associated to one of the 32 available profiles.
The user profiles identify 32 different personalisations to which every user code can refer. The personalisations consist in the enabling or not of certain keypad functions. The keys that refer to the functions are shown in brackets.
Example: *When enabling the "Date/Time" function, if a user code is assigned to this profile, the user will have the possibility to change the system date and time.*

Memory view - command (MEM): "YES" enables the Code to the possibility of examining the events memory of the control panel.

OFF ZONE func. - command (ZONES): "YES" enables the Code to the possibility of excluding the zones from keypad or from RTC with command (0).

Buzzer exclusion: "YES" enables the Code to the possibility of excluding the sound of the buzzer of the keypad.

Enables RTC fun- (Enables RTC functions) (Remote Telephone Control): "YES" enables the Code to remotely manage the Control Panel through the GSM line.

Stop dialler (interrupts telephone communication): "YES" interrupts the current telephone communications and those awaiting recognition of the user code (keypad, TOY or BIP) and, during a telephone call, pressing key 3 on the phone being called if the user code is associated.

Code change - command (1): "YES" enables the Code to the possibility of varying itself.

Change tel. par. (Changes telephone parameters) - command (1): "YES" enables the Code to the possibility of varying/checking the telephone parameters:
- Phone numbers with VOCAL or SMS protocol and with user Partitions consistent with those of the phone number
- Check residue credit SIM Card
- Check field intensity GSM
- Variation SIM Card Expiry Date if the code is Master

Immediate disarm: "YES" enables the Code for the disarming of the control panel, without pressing key (5) from the keypad (it must, however, be enabled to disarm, see **Disarms control panel**).

Arm in HOME - command (HO): "Yes" enables the Code selected for powering on in HO mode.

Arm in AREA - command (AR): "Yes" enables the Code selected for powering on in AR mode.

Arm in PERI - command (PE): "Yes" enables the Code selected for powering on in PE mode.

Disarms Timer - arm (disarms with timer active): "YES" enables the Code to the disarming of the control panel, even if the control panel has been previously armed by the timer. "NO", the Code does not have the possibility of disarming the control panel, until the automatic disarming of the timer.

Timer bypass - command (1): By setting "YES" it enables the Code to block the Timer

Activates overtime - command (8): "YES" enables the Code to postpone the arming by one hour, from Timer, for a maximum of three times (see Timer).

Date/Time - command (1): "YES" enables the Code to the possibility of varying the date and time

Zones walk Test: The zones' walk test function allows to display the state of all zones for the control panel/keypads.
- Key **(5)**, allows to deactivate or activate the memory function. Also, by exiting and entering the MEMO function, the previous memorisations are deleted.
- Key **(CLR)**, allows exiting from the Zones' Test function.
- The arrow keys **(↑)** and **(↓)** allow selecting the group of zones to be displayed.
- The wording **(MEMO)** signals that the memorisation modality is active, therefore the unbalancing of one or more zones, causes the relative memorisation.

Note: for the lines on the keypads the MEMO function is always active and cannot be excluded

Enable Installer: Enable the Installer for access to programming through the keyboard, direct connection through USB port or remote phone/Eweb connection.

Reset fire loop - command (2): "YES" enables the Code to perform the FIRE Alarm Reset (User Manual).

- Press **(CLR)** to vary
- Press **(↑)** or **(↓)** to move
- Press **(ENT)** to confirm
- Press **(ESC)** to go back

from previus page

User Profiles

BIP
ENT ↑↓

Key num. #
1 (1 . . 8)

Operation Type:
Arm. ON Part.

Partition #
1 (1 . . 9)

Emerg. Key
NO

BIP: In this menu, it is possible to assign a specific function to each channel of the remote control.

- Key number #: select the number between 1 and 8 of the channel to be programmed

- **None:** no function associated
- **Activates/Deactivates OC:** the key associated to the activation/deactivation of the O.C. output. It must be programmed as “User”.

- **Arming ON /HOME /AREA /PERI /Disarming - SETT:** the key is associated to the arming/disarming of one or more Partitions; if Partition 9 is set, the command works on all Partitions associated to the user
- **Despatch: Panic/Doctor/Fire:** the key is associated to the panic/doctor/fire
- **Macro**: the key is associated to the arming MACRO function which number is herein programmed

Emergency Channel:
Note: if the emergency option is enabled (YES), the emergency code function will also be activated simultaneously with the operation associated with the button.
Keys functioning:
Keys from 1 to 4 directly activate the function to which they are associated, **the second group of keys** is activated with the simultaneous pressing of key 5 (the middle one) and subsequently of one of the other keys.

- Press **(CLR)** to vary
- Press **(↑)** or **(↓)** to move
- Enter the key to be set
- Press **(ENT)** to confirm

PROGRAMMING OF THE CHANNELS ON THE REMOTE CONTROL
Select the Key Function from 1 to 5+4 according to the conversion table **“Channels - Keys”**

Channels		Keys to press
1	•	1
2	•	2
3	•	3
4	•	4

Channels		Keys to press
5	•	5+1
6	•	5+2
7	•	5+3
8	•	5+4

Label

Label: it is possible to associate a description of 16 alphanumerical digits for every User Profile;

- Press **(CLR)** to vary
- Press **(ON)** to activate the uppercase and **(OFF)** to activate lowercase letters
- Writing keys:
  (1)abc1 **(2)**def2 **(3)**ghi3 **(4)**jkl4 **(5)**mno5 **(6)**pqr6 **(7)**stu7 **(8)**vwx8 **(9)**yz. **(0)**_’0
- Press arrows **(←)** and **(→)** to position the cursor
- Press **(↑)** or **(↓)** to move
- Press **(ENT)** to confirm
- Press **(ESC)** to go back

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Readers ENT ↑↓

Readers

Arming zones ENT ↑↓

Arming Zone

The functioning of the outdoor arming zones is programmed in this Menu for one key electronic board. By accessing and exiting this menu, all pending armings will be disarmed.

Working Mode Pulse mode

Key functioning mode

• **Level mode:** when an arming input is balanced with its resistance, the control panel results disarmed; when the resistance opens or short circuits, the control panel results armed.

Example of armings sum: the arming from keypad and the closing of the arming input cause a sum of the armings, with the result that, for the control panel to return in disarmed state, the arming clamp must be open and the keypad disarmed.

ATTENTION: when two armings are summed, the most important one in hierarchical order prevails.

• **Pulse mode:** the closing and subsequent re-opening of an arming input causes the arming of the control panel in the relative modality; a new impulse will determine its disarming. With this setting, the control panel can be armed and disarmed indifferently from keypad or from arming input, without bounds.

Disarm timer-arm YES

Disarms Timer-arm: "With a "YES" the outdoor armings are enabled, for example "Electronic keys", to disarm the control panel previously armed from Timer. With a "NO", to disarm the control panel wait for the automatic disarming from Timer, or disarm from keypad with a User Code enabled to disarm with Timer active.

CAUTION: using this function voids compliance with EN50131

Keypad ENT ↑↓

Reader on Keypad

Keypad number 1 (1 . . 8)

Keypad number: selects the keypad to be programmed

Command mode Single

<u>Command Mode A500 WS4 Plus:</u>

• Single: when the TOY is brought close to the reader, depending on programming of the associated user code, the various options - ON, Scenario 1, Scenario 2, and Disarmed - are presented.
- If the keypad is associated to a single Partition, the options presented refer to the single Partition.
- If the keypad is associated to more than one Partition, and there is a "User-TOY" also associated to more than one Partition, the options presented refer to the total of the Partitions in common between the keypad and the "User-TOY".

• User code: when the key is neared to the reader, one passes directly to the user menu.
- If the keypad is associated to a Partition, it will directly display the state of the Partition.
- If the keypad is associated to more partitions, it will display the possibility of choosing on which partition to work.

Press **(CLR)** to vary
Press **(↑)** or **(↓)** to move
Press **(ENT)** to confirm

to following page

from previus page

Accesses
ENT ↑↓

Accesses

In this menu it is possible to program the acquisition of the TOYS that will have **access** to the control panel.
Acquisitions:
The acquisition of the TOYS can be carried out through the predisposed keypads.
The individual TOYS are memorised in memory locations from 1 to 128. The same is valid for the BIP remote controls acquired on control panel.
To respect the enablings and the associations of the TOYS/remote controls to the codes, it is fundamental they are acquired in the two sections, in the same order.

Key Keypad
ENT ↑↓

Key Keypad: Enables to acquire the TOYS using the keyfob of the predisposed keypad

TOY #
1 (1 .. 128)

TOY: selects the TOY memory locations to be programmed

TOY acquisition
ENT ↑↓

TOY acquisition
..... running

Acquisition TOY: by accessing this menu the possibility of acquiring the TOY is activated.
Move the TOY towards the RS connector while the display indicates ".... in progress"
Note: if the TOY has already been acquired, the display will show the location where it is memorised.

TOY deletion
ENT ↑↓

TOY deletion
..... executed

TOY deletion: by accessing this menu the TOY is deleted.

All deletion
ENT ↑↓

Are you sure...??
CLR=NO ENT=YES

All deletion: enter this menu to simultaneously cancel all the memorised TOYS

TOY / BIP
ENT ↑↓

TOY / BIP
1 (0 .. 128)

TOY/BIP: Selects the memory location of the TOY/remote control to be programmed

Assoc. user num.
1 (0 .. 128)

Ass. user num. (associated user number): defines to which user the TOY/BIP must be associated. The key/remote control acquires the enablings of the profile associated to the user.

Emerg. code
NO

Emergency key: with "YES" it defines that the reading of the TOY/BIP will be considered an emergency code.

Keys enable
ENT ↑↓

Enablings: By setting "YES" the Key/remote control is enabled, acquired in a specific memory location (from 1..128), to work.

Keys enable 1
YYYYYYYYYYYYYY

Keys en.17..33..49
YYYYYYYYYYYYYY

- Press **(CLR)** to vary
- Press **(↑)** or **(↓)** to move
- Press **(ENT)** to confirm

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Keypads ENT ↑↓

Keypads

Keypad number
1 (1 .. 8)

Keypad number: selects the keypad to be programmed

Partitions
YYYYYYYY

Partitions (controlled Partitions): with (Y) the keypad is associated to the Partition.
The keypad can be associated to work with one or more Partitions.

Buzzer: For every keypad the functioning of the Buzzer can be individually enabled, in case of wanting to hear the scanning of only the input, of output and of alarm time.

Example:
Keypad 1: **Alarm + Output + Return**
Keypad 2: **Alarm + Return + Timer Warning**

Buzzer on alarm
YES

Buzzer on alarm: if set at "Yes", the Buzzer is enabled for the Zone, Tamper, Fire and Anti-mask alarms when these are enabled in their relative configurations.

Buzzer on exit
YES

Buzzer on exit: if set at "Yes", during start-up, timed zones are activated, and the Buzzer is activated at a slow cadence for the duration of the exit time.

Buzzer on entry
YES

Buzzer on entry: if set at "Yes", and if the activated timed zones are unbalanced, the Buzzer is activated at a fast cadence for the duration of the entry time.

Buzzer on chime
YES

Buzzer on chime: if set at "Yes", and if at least one programmed zone like Chime is unbalanced, the Buzzer is activated and emits a continuous sound.

Buzzer on door
YES

Buzzer nn door: if set at "Yes", and if at least one programmed zone like Door is unbalanced, the Buzzer is activated and emits a continuous sound.

Beep of keys
YES

Beep of keys: Enables or not the beep of the keypad upon pressing of the keys;
- If set at NO, the Beep of the keys is always deactivated;
- If set at YES, the enabled user excludes and includes the Beep as it pleases.

Buzz. timer ann.
YES

Buzzer timer ann.: It is the warning upon automatic inclusion of the timer, which can be enabled or not for every keypad.

Enable Quick Arm ENT ↑↓

Enable QuickArm: For each keypad it is possible to enable the Quick Arm function for ON, Macro key A and Macro key B.

QuickArm ON
YES

QuickArm ON: Setting to "YES" enables the QuickArm option for ON
Using this function voids compliance with EN50131

QuickArm HOME
NO

QuickArm HOME: Setting to "YES" enables the QuickArm option for HOME
Using this function voids compliance with EN50131

QuickArm AREA
NO

QuickArm AREA: Setting to "YES" enables the QuickArm option for AREA
Using this function voids compliance with EN50131

QuickArm PERI
NO

QuickArm PERI: Setting to "YES" enables the QuickArm option for PERIMETER
Using this function voids compliance with EN50131

Macro A
1 (0 . . 64)

Macro A: Select a Macro number to activated in Quick Arm mode with key A.
Using this function voids compliance with EN50131

Macro B
2 (0 . . 64)

Macro B: Select a Macro number to activated in Quick Arm mode with key B.
Using this function voids compliance with EN50131
ATTENTION: Activation of the Macros with the Quick Arm function does not turn off the Partition.

Audio Keypad ENT ↑↓

Audio Keypad: the audio of the various events that are communicated can be enabled separately for each keypad.

Keypad RTC
YES

Keypad RTC: "YES" enables the Keypad to the possibility of performing the RTC

Events audio en.
YES

Events Audio en.: "YES" enables the Keypad to the possibility of activating the communications of the enabled events

Zones audio en.
YES

Zones audio en.: "YES" enables the Keypad to the possibility of activating the communications of the **inputs openings**

Shift # 1
0 (0 . . 15)

Shift 1: Defines in which of the 15 available shift, that can be programmed by the "Timer", the keyboard audio is enabled. If 0 is set, the audio is always enabled.

Shift # 2
0 (0 . . 15)

Shift 1: Defines in which of the 15 available shift, that can be programmed by the "Timer", the keyboard audio is enabled. If 0 is set, the audio is always enabled.

Label

Label: it is possible to associate a description of 16 alphanumerical digits for every keypads;

- Press **(CLR)** to vary
- Press **(ON)** to activate the uppercase and **(OFF)** to activate lowercase letters
- Writing keys:
  (1)abc1 **(2)**def2 **(3)**ghi3 **(4)**jkl4 **(5)**mno5 **(6)**pqr6 **(7)**stu7 **(8)**vwx8 **(9)**yz. **(0)**_'0
- Press arrows **(←)** and **(→)** to position the cursor
- Press **(↑)** or **(↓)** to move
- Press **(ENT)** to confirm
- Press **(ESC)** to go back

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Keypad Audio

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Keypad Audio ENT ↑↓

Keypad Audio: this menu is used to select the events that will be vocally communicated by the keyboard.

Partitions YYYYYYYY

Partitions (controlled Partitions): (Y) associates the keyboard audio to the Partition.
The audio can be enabled to work on one or more Partitions.

Events to dial ENT ↑↓

Events to dial: In this menu the Audio events are associated to the keyboard:

- Watch-Dog NO — **Watch Dog:** Communication of the Watch-Dog
- Com. Tamper YES — **Com. Tamper:** Communication of all events of Tamper type
- Battery YES — **Battery:** Communication of the low level state of the battery
- Autotest NO — **Autotest:** Communicates the self-test
- Fire Zone NO — **FIRE Zone:** Communicates the fire protection alarm received from the Fire lines
- Interference NO — **Interference:** Communication of radio interference signal.
- Sirens failures NO — **Sirens failures:** Communication of the faults relating to the Buzzers with serial connection
- ON Arming YES — **ON Arming:** Communication of the Arming in ON modality
- HOME Arming NO — **HOMEArming:** Communication of the Arming in HOME modality
- AREA Arming NO — **AREA Arming:** Communication of the Arming in AREA modality
- PERI Arming NO — **PERI Arming:** Communication of the Arming in PERIMETER modality
- Disarmed ON YES — **Disarmed ON:** Communication of the disarming in ON modality
- Disarmed HOME NO — **Disarmed HOME:** Communication of the disarming in HOME modality
- Disarmed AREA NO — **Disarmed AREA:** Communication of the disarming in AREA modality
- Disarmed PERI NO — **Disarmed PERI:** Communication of the disarming in PERIMETER modality.
- Zone bypass NO — **Zone bypass:** Communication of an eventual zone exclusion
- Sensor fault NO — **Sensor fault:** Communication of failure to receive Survival for the radio sensors.
- Antimask NO — **Antimask:** Communication of reporting antimask wireless sensors enabled this feature.
- Com. codes NO — **Communicates codes:** Communication of the entering of an enabled code
- Us/Key false NO — **Us. /key false (user/false keys):** Communication by a user or reading of a false TOY
- Com. Panic NO — **Communicates Panic:** Communication of the panic message.
- Com. Medic NO — **Communicates Medic:** Communication of the doctor message.
- Com. Fire NO — **Communicates Fire:** Communication of the fire message.
- GSM events NO — **GSM Events:** Communicates the low SIM Card credit and, if set, also enables the call for GSM self-test

Warning: if ON/OFF voice communication is enabled, the Partition Sound programming inserts the associated audio in the voice message of the keyboards.

- Press **(CLR)** to vary
- Press **(↑)** or **(↓)** to move
- Press **(ENT)** to confirm

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Radio Device Management

from previus page

Radio Dev. Manag
ENT ↑↓

Sensors modify
ENT ↑↓

Sens. acquisition
ENT ↑↓

Sens. acquisition

Sens(n)
signal received

Detector program
ENT ↑↓

Detector
1 (1 .. 125)

JET 4 DT
ENT ↑↓

Enab. accelerom.
YES

Low power mode
NO

Antimask sensit.
100%

IR Reduc. Sensit.
NO

IR Sig. integrat.
Double pulse

MW Sensitivity
100%

Repeater WS4
Nessuno

Enab. IN1 term.
NO

Puls. inert/SW-AL
8 (1 ... 16)

Vibration enable
NO

Vibrat. sensit.
8 (1 ... 8)

Vibr. pulses num.
16 (1 ... 16)

to following page

Radio Device Management: By entering this menu there is the option of programming the sensors by radio, achieving the acquisition, deletion and verifications of operation for each sensor acquired.
NOTE: all references to the sensors are to be considered relating to the address assigned to the sensor and not to the relevant zone in the control panel.

Sensors modify: in this menu the acquisition and deletion of the sensors is programmed.

Sens. acquisition (acquisition of sensors): entering this menu the learning procedure of the various sensors is active for 60 minutes.
NOTE: acquisition of the sensors is only possible by performing a tamper transmission; each sensor will occupy in the control panel a zone position that is separate in ascending order starting with the first free one available.
The sensor also, during the first acquisition phase, memorises a code that links it uniquely to the control panel to which it was associated both for the signals received and for those transmitted.
NOTE: In the sensor **WIC 4 - WIC 4 Plus**, if separate management of the two inputs is enabled, the second channel is memorised by adding a unit to the zone position occupied in the control panel by the first channel. **In this case, the configuration in the control panel of both sensors must be made exclusively on the one with the lowest address**.
Example: If memorised in the position of zone 1, IN1 Input (Channel 2) it is automatically stored in the position of zone 2.

Sn(n) (Sensor number): this is the reference to identify which sensor has transmitted.
Signal received: on a bar from 1 to 8 the quantity of signal received is highlighted.

Detector program: for each software zone it is possible to adjust the parameters of the combined radio sensor:
NOTE: the parameters displayed vary depending on the type of radio sensor recognised by the system. If the “software” zone is not paired with a radio sensor, this menu is not displayed on the keypad.

Enab. accelerom.: setting to “YES” enables reporting of the strain and of disorientation of the radio sensor as TAMPER.

Low power mode: setting to “YES” enables the “Low consumption” of the radio sensor battery

Antimask sensit.: it is possible to adjust the sensitivity of the Antimask present in the sensor by setting 100% (Maximum) or 75% or 50% . By setting to OFF the Antimask is not active

IR Reduc. Sensit.: setting to “YES” enables a reduction in sensitivity of the infra-red

IR Sig. integrat.: setting “Double pulse” activates a further reduction of the sensitivity of the infra-red

MW Sensitivity: it is possible to adjust the microwave sensitivity present in the sensor by setting 100% (max) or 75% or 50% or 25%.

Repeater WS4: a Keypad (Keypad 1/2/3/4) can be associated with the wireless detectors to extend the wireless coverage.

Enab. IN1 term.: in the radio sensor WIC 4 / WIC 4 Plus, setting to “YES” enables functioning of the terminal input IN1

Puls. inert/SW-AL: in the WIC 4 / WIC 4 Plus radio sensor, it is possible to adjust the number of pulses of the input alarm IN1. 1 = High sensitivity - 16 = Low sensitivity

NOTE: In case of double channel, configuration of both the sensors must be made exclusively on the one with the lowest address

Vibration enable: in the WIC 4 / WIC 4 Plus radio sensor, setting to “YES” enables the integrated accelerometer “vibration” function.

Vibration sens.: in the WIC 4 / WIC 4 Plus radio sensor, it is possible to adjust the sensitivity of the accelerometer present in the sensor. 1 = High sensitivity - 8 = Low sensitivity

Vibration pulses number: it is possible to adjust the number of pulses of the Accelerometer present in the sensor. 1 = Very sensitive - 16 = Little sensitive

- Press **(CLR)** to vary
- Write the number to be set
- Press **(↑)** and **(↓)** to move
- Press **(ENT)** to confirm

from previus page

Radio Device Management

Sensors deletion
ENT ↑↓

Sensor deletion
1 (max. 125)

All deletion
ENT ↑↓

Are you sure...??
CLR=NO YES=ENT

Sensors verify
ENT ↑↓

Sensors list
ENT ↑↓

Sensors list 1
YYYYYYYYYYYYYY

Sensors test
ENT ↑↓

Sens. (n) T=+29C
▇▇▇▇▇▇▇▇ 3.6 V

Sens. (n) V 2.0.0
JET 4 DT

Receiv. register
ENT ↑↓

Detector
1 [1..125]

JET PA WS 4
▇▇▇▇▇▇▇▇ 3.4 V

Sensors deletion (deletion of sensors from the control panel memory): entering this menu it is possible to individually delete the various sensors acquired.

NOTE: to detach the sensor from the control panel for reuse in another system, it is necessary to perform the following procedure to delete the control panel code memorised:

- remove and reinsert the sensor battery
- in the first 10 seconds press the TAMPER button 3 times in quick succession
- If the operation is successful, the LED light will come up steadily for a few seconds

ATTENTION: It is recommended to acquire the programming in the XWIN software as, in the case of control panel board replacement, all that is required is to acquire from the new control panel the programming saved in order to retrieve the code of the control panel that was removed and the combination of all the existing radio sensors. Otherwise it will be necessary to perform the manoeuvre of deletion in the individual sensors as described above

All deletion (simultaneous deletion of all the sensors): entering this menu there is the option of deleting all the sensors. With deletion performed, the display shows **"performed."**

Sensors verify: in this menu it is possible to check which sensors are acquired and their characteristics.

Sensors list: the sensors acquired are marked with an (s)

Sensors test: it checks which sensor has transmitted and displays its characteristics

Screen 1:	**Sens 1** (Sensor Number) ▇▇▇▇▇▇ (Radio signal)	**T=+28C** (Operating temperature) **3.6V** (Battery voltage) **A** (Attenuator)
Screen 2 (key 5):	**Sens 1** (Sensor Number) **JET 4 DT** (Sensor model)	**V 2.0.0** (Sensor firmware version)

NOTE: The "battery low" signal of the sensors occurs below the threshold of 2.2 V .

NOTE: to **insert a virtual signal attenuator**, press **(CLR)** once. The attenuator will only be active during the test not during normal operation. With the attenuator inserted, on the keypad, in addition to displaying of **Sn(n), etc**. an **"A" will appear.**

Note: to activate the memorisation of the radio detectors, press the MEM key in "detectors test" modality. This function displays a list of detectors received with valid power level.
To exit memorisation, press **MEM.**

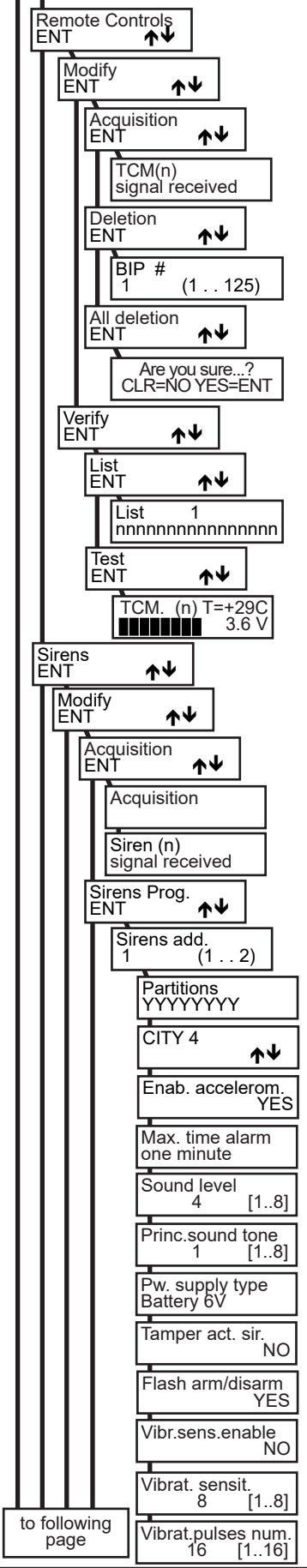
Receiver register: displays the signal strength and battery level detected in the last reception of the selected sensor

- Press **(CLR)** to vary
- Write the number to be set
- Press **(↑)** and **(↓)** to move
- Press **(ENT)** to confirm

to following page

from previus page

Radio Device Management



to following page

BIP modify: in this menu it is possible to program acquisition and delete remote controls.

BIP Acquisition: It is possible to acquire up to 125 remote controls.
To acquire a remote control, transmit near the receiver bearing in mind that **ACQUISITION** takes place by pressing **any key except key (5)**. Each remote control will occupy in the control panel a position distinguished in ascending order starting with the first free one available.

BIP Deletion (deletion of remote controls from the central memory): entering this menu it is possible to individually delete the various remote controls acquired.

All deletion (simultaneous deletion of all remote controls): entering this menu there is the option of simultaneously deleting all the remote controls acquired. With deletion performed, the display shows **"performed".**

BIP verify: in this menu it is possible to check which remote controls are acquired and their characteristics

BIP list: the remote controls acquired are marked with an (s)

BIP test: it checks which remote control has transmitted and displays its characteristics

TCM 1 (Remote Control Number)
▮▮▮▮▮▮ (Radio signal) **3.6V** (Battery voltage)

Sirens: By entering this menu there is the option of programming the sirens by radio, achieving the acquisition, deletion and verifications of operation for each siren acquired.

Sirens modify: in this menu it is possible to program acquisition and delete the sirens.

Sirens acquisit. (Acquisition of sirens): entering this menu the learning procedure of the sensors is active for 60 minutes.
NOTE: acquisition of the sirens is only possible by performing a tamper transmission; each siren will occupy in the control panel a siren position that is separate in ascending order starting with the first free one available. The siren also, during the first acquisition phase, memorises a code that links it uniquely to the control panel to which it was associated both for the signals received and for those transmitted.

Siren (n) (Siren number): this is the reference to identify which siren has transmitted
Signal received: on a bar from 1 to 8 the quantity of signal received is highlighted.

Sirens Prog. (Siren programming): parameters can be adjusted for each siren:

Sectors: with (S) the siren is associated with the sector.

The siren can be associated to operate with one or more sectors.

NOTE: This parameter must also be enabled for the detection of On/Off of sectors in the remote controls.

Enab. accelerom.: setting to "YES" enables reporting of the strain and of disorientation of the radio siren as TAMPER.

Max time alarm: One minute/three minutes

NOTE: If you set a value of "Siren time" in the "Times" menu greater than "maximum sound duration" the siren will automatically turn off when the maximum time expires and the control unit will not activate it again in case of alarms if not after expiry of "Siren Time".

Sound level: there is a choice of 8 Levels. The values are relative to the sound level of both the Main Sound and the Alternative Sound. **1 is the Maximum and 8 is the Minimum**.

Pricipal sound tone: it is possible to select one of 8 tones for the Principal Sound

Power supply type: select the type of power supplied to the siren between Battery 6V or Power supply 12V + Battery

Tamper active siren: isetting to "NO", in case of tamper / antitear opening the siren transmits the event and sounds according to the schedule of the combined central unit setting to "YES", if the tamper / tear-off is opened, the siren transmits the event and sounds autonomously for the time set "Max. sound "or based on commands sent from the combined control panel.

Flash on / off: aenables the siren flash to flash the on / off of the central office;

On: continuous ignition for a few seconds - Off: three consecutive flashes

Vibration enable: setting to "YES" enables the integrated accelerometer "vibration" function.

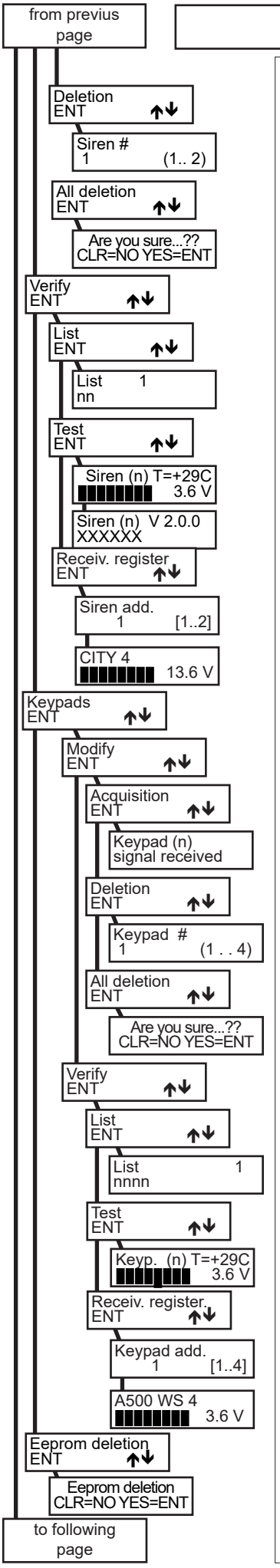
Vibration sens.: it is possible to adjust the sensitivity of the accelerometer present in the siren. 1 = High sensitivity - 8 = Low sensitivity

Vibration pulses number: it is possible to adjust the number of pulses of the Accelerometer present in the siren. 1 = Very sensitive - 16 = Little sensitive

NOTE: to manually send the parameters to the wireless sirens, enter the "Sirene Test" menu and type 1 or 2 according to the siren number to send the parameters to and wait for the siren information to appear on the display.

- Press **(CLR)** to vary
- Write the number to be set
- Press **(↑)** and **(↓)** to move
- Press **(ENT)** to confirm

Radio Device Management



Deletion (Deletion of siren from the control panel memory): entering this menu it is possible to individually delete the sirens acquired.

NOTE: to detach the siren from the control panel for reuse in another system, it is necessary to perform the following procedure to delete the control panel code memorised:

- tremove and reinsert the siren's battery
- in the first 10 seconds press the TAMPER button 3 times in quick succession
- If the operation is successful, the LED light will come up steadily for a few seconds

ATTENTION: It is recommended to acquire the programming in the XWIN software as, in the case of control panel board replacement, all that is required is to acquire from the new control panel the programming saved in order to retrieve the code of the control panel that was removed and the combination of all the existing radio sirens. Otherwise it will be necessary to perform the manoeuvre of deletion in the individual sirens as described above

All deletion (simultaneous deletion of all the sirens): entering this menu there is the option of simultaneously deleting all the sirens acquired. With deletion performed, the display shows **"performed".**

Sirens verify: in this menu it is possible to check which sirens are acquired and their characteristics.

Sirens list: the sirens acquired are marked with an (s)

Sirens test: it checks which siren has transmitted and displays its characteristics

type 1 or 2 according to the siren number and wait for the siren information to appear on the display

Screen 1:	**Siren 1** (Siren Number)	**T=+28C** (Operating temperature)
	▮▮▮▮▮▮ (Radio signal)	**3.6V** (Battery voltage) **A** (Attenuator)
Screen 2 (key 5):	**Siren 1** (Numero Sensore)	**V 2.0.0** (Versione firmware sirena)
	XXXXXX (Siren model)	

Reception log: displays the signal strength and the battery level detected in the last reception of the selected siren

Modify: in this menu it is possible to program acquisition and delete the selected keypad.

Acquisition: It is possible to acquire up to 4 radio keypads. Entering this menu the learning procedure of the keypads is active for 60 minutes.

Deletion (Deletion of keypad from the control panel memory): entering this menu it is possible to individually delete the keypad acquired.

All deletion (simultaneous deletion of all the radio keypads): entering this menu there is the option of simultaneously deleting all the keypads radio acquired. With deletion performed, the display shows **"performed".**

Verify: in this menu it is possible to check which radio keypad are acquired and their characteristics.

List: the radio keypas acquired are marked with an (s)

Test: it checks which radio keypad has transmitted and displays its characteristics

TAST 1 (Keypad radio number)
▮▮▮▮▮▮ (Radio Signal) **3.6V** (Battery Voltage)

Reception log: displays the signal strength and the battery level detected in the last reception of the selected radio keypad

Eeprom deletion: entering this menu there is the option of simultaneously deleting all the remote control sensors and sirens acquired. With deletion performed, the display shows **"performed".**

- Press **(CLR)** to vary
- Write the number to be set
- Press **(↑)** and **(↓)** to move
- Press **(ENT)** to confirm

from previus page

Dialler

In this menu it is possible to memorise up to 16 telephone numbers. For every telephone number, it is possible to define the communication protocol (Vocal, Fast, Sia 1st lev., Sia 2nd lev., Sia_Hayes, Contact-Id), the number of call attempts for every Tel. Num., with which interface (GSM) the calls are forwarded and if the main, the Partition and the additional phone must be communicated (for vocal protocols).

Small programming steps:
- Set existence of the telephone in the installation menu; GSM ENABLING: YES
- Set a communication protocol; ex: VOCAL
- Set a telephone number to call; in **"telephone number"** - ex: 049 9698 ...
- Set the communication interface: ex GSM if using the telephone on the gsm line.
- Associate a user to the set telephone number to give the number the user features (RTC - Calls block - Number recognition); leave 0 (zero) if no association is wanted.
- Associate the zones that will have to be communicated to the telephone number. - ZONES
- Associate the technical events that will have to be communicated to the telephone number. - ASSOCIATE EVENTS
- Associate the telephone numbers to the active Partitions. - "ASSOCIATE PARTITIONS"

Definition of "interface": physical mean with which a call is made.
Definition of "protocol": information distribution modality

Telephone numbers

Dialler
ENT ↑↓

Teleph. numbers
ENT ↑↓

Tel. num. #
1 (1 .. 16)

Telephone number: Select the telephone number to be programmed from 1 to 16.

Telephone Number 1: Set the wanted telephone number

Tel. num. #

Protocol
VOCAL

Protocol: defines, for every telephone profile, the modality with which the events must be transmitted.

- **VOCAL:** it is the protocol that is normally used to communicate the alarm messages in vocal.
- **FAST FORMAT:** this is a protocol that allows alarm and technical events to be communicated to special receivers installed at Security Firm headquarters
- **SIA1:** this is a protocol that allows alarm and technical events to be communicated to special receivers installed at Security Firms, more advanced compared to the FAST FORMAT.
- **SIA2:** this is a protocol that allows alarm and technical events to be communicated to special receivers installed at Security Firms, more advanced compared to the FAST FORMAT.
- **SIA-HAYES:** it is a more advanced protocol than SIA that allows alarm and technical events to be communicated to an AVS-certified modem connected to a PC on which the WINREC. reception software is installed.
- **CONTACT-ID:** this is a protocol that allows alarm and technical events to be communicated to special receivers installed at Security Firms, more advanced compared to the FAST FORMAT.
- **SMS/Email:** this is the protocol that allows communication of the alarm and technical events or via SMS and in this case requires setting of both the GSM interface or via email and in this case requires installation and setting of the WEB interface.
- **SIREN VOCAL:** it's the protocol that allows to communicate events using the sound of the siren.

Interface
GSM

Interface: Set the wanted interface towards which the calls are to be forwarded

- **GSM:** Select GSM if wanting to forward the call only on GSM channel.
- **GPRS:** Select GPRS if wanting to forward the call on the GSM line to a receiver set to the SIA - IP protocol (supports protocols SIA1, SIA2 and CONTACT ID)

Press **(CLR)** to vary
Press **(ON)** to activate the uppercase and **(OFF)** to activate lowercase letters
Writing keys:
(1)abc1 **(2)**def2 **(3)**ghi3 **(4)**jkl4 **(5)**mno5 **(6)**pqr6 **(7)**stu7 **(8)**vwx8 **(9)**yz. **(0)**_'0
Press arrows **(←)** and **(→)** to position the cursor
Press **(ENT)** to confirm
Press **(ESC)** to go back

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Telephone numbers

from previus page

Account code
ENT ↑↓

Account code: in this menu, the telephone numbers are associated to the active sectors. Each telephone number can be associated to one or more partitions.

Partition #
1 (1 .. 8)

Partition # : select the Partition to program

Account code
000000

Account code (Only showed with the **DIGITAL** protocol**):** the digital communications must communicate the Account Code (Client Code). Therefore, every telephone number, for every Partition, can have its own Account Code.
• In **SiA 1, SiA 2** the code is made of 6 digits;
• In **FAST FORMAT** and **CONTACT ID** the code is made of 4 digits;;

⚠ **Warning:** To enter the Account code, use buttons 0 to 9 for the numbers and buttons UP (ON) and DOWN (HO) for letters A, B, C, D, E, F.

Customizing vocal announcementl to introduce (Only showed with the **VOCAL** protocol**):** introducing a value different from zero (0) in the "WORD" programming menu, it is possible to activate the vocal announcement of the plant introducing message.

Associate part.
NO

Associate partition: by setting "YES", by setting "YES", voice communication of the events relating to the partition is enabled

Present. speech
0 (0 .. 415)

Presentation speech: introducing a value different from zero (0) will communicate the associated word (see word table).

Partition speech
0 (0 .. 415)

Partition speech: introducing a value different from zero (0) will communicate the associated word (see word table), linked to the associated partition.

⚠ Warning: The **Partition speech** programming inserts the associated sound in the voice message of the keyboards if on/off voice communication is enabled

Says part. number
NO

Says PARTITION number: choosing "YES" will communicate "Partition number" words.

Attempts number
3 (1 .. 16)

Attempts number (of telephone number calls): Communication is repeated for the number of times set. It is clear that if the communication should have positive result, the attempts will not repeat. With regard to the Vocal protocol, the control identifying the good result of the call is enabled through the "Listen Reply" option, if the "Listen Reply" option should be disabled the dialler will perform as many calls as the set attempts.
If all call attempts should fail systematically for more times consecutively, a warning message will be displayed in keypad: **"failed calls"**
It is possible to interrupt the call to ones' own telephone number by pressing key "4" on the telephone receiving the message or it is possible to interrupt the full cycle of calls by pressing key "3" on the telephone receiving the message, if the telephone number is associated to a User enabled for "interruption of the telephone communication";

User #
1 (1 .. 128)

User: It is possible to associate the telephone number to a certain User to give the number the user features. This association enables the called user to have the enablings dictated by its profile of reference (ex: RTC - Calls block - Number recognition).
The association of the telephone number to the user also allows, if enabled, to enter in RTC telephone on GSM channel directly upon recognition of the incoming number without requesting the code.
The calls interruption or input in RTC commands following a call from the control panel, will be subordinate

Enable RTC func.
YES

Stop dialler
YES

Zones
YYYYYYYYYYYYYY

Zones: In this menu the alarm zones are associated to the telephone number.
In this way, the **individual alarm and/or zone tamper** can be communicated to the programmed telephone number, if this is set at "YES" in the **menu: memorise alarm**. The zone reset is communicated if the **menu: memorise reset** is set at "YES".
WARNING: it is necessary to associate the telephone number to one or more sectors to ensure that the control panel can call in case of zones alarm. The control panel will communicate to the telephone number the sector zones associated to the telephone number.
WARNING: to comply with EN50131 Standards, at least one telephone number must be associated with all intrusion events.
Technical messages: the authorizations are automatic from the "EVENTS ASSOCIATION" submenu by the phone numbers' association and by the "SECTOR ASSOCIATION" submenu. From this very submenu, it is possible to do it for the digital communication thanks to the association of the account code or vocally thanks to the vocal message customization.

Events to dial
ENT ↑↓

Events to dial: The events to be sent to the telephone number are associated in this menu

Watch-Dog
YES

Watch Dog: Watch-Dog means a particular control function on the microprocessor; in cases of serious electrical disturbances (lightning, sudden voltage changes, etc.) this circuit causes a "restart" of the system without loosing any recorded data.

Com. Tamper
YES

Com. Tamper: Communication of all events of Tamper type, to the associated telephone number; If associated to a vocal protocol, the following message will be sent: "Tamper Alarm"
NOTE: By setting NO, the unit no longer complies with EN50131.

- Press **(CLR)** to vary
- Press **(ENT)** to confirm
- Press **(↑)** or **(↓)** to move
- Press **(ESC)** to go back

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Telephone numbers

- Battery YES
- Autotest NO
- Fire Zone NO
- Interference NO
- ON Arming YES
- HOME Arming NO
- AREA Arming NO
- PERI Arming NO
- Disarmed ON YES
- Disarmed HOME NO
- Disarmed AREA NO
- Disarmed PERI NO
- Zone bypass NO
- Sensor fault NO
- Antimask NO
- Sirens failures NO
- Com. codes NO
- Emerg. codes NO
- Us/Key false NO
- Com. Panic NO
- Com. Medic NO
- Com. Fire NO
- GSM events NO
- Label

Battery: Communication of the low level state of the battery

Autotest: Communicates the self-test

FIRE Zone: Communicates the fire protection alarm received from the Fire lines

Interference: Communication of radio interference signal.

ON Arming: Communication of the Arming in ON modality

HOMEArming: Communication of the Arming in HOME modality

AREA Arming: Communication of the Arming in AREA modality

PERI Arming: Communication of the Arming in PERIMETER modality

Disarmed ON: Communication of the disarming in ON modality

Disarmed HOME: Communication of the disarming in HOME modality

Disarmed AREA: Communication of the disarming in AREA modality

Disarmed PERI: Communication of the disarming in PERIMETER modality.

Zone bypass (NO FAST): Communication of an eventual zone exclusion

Sensor fault (NO FAST): Communication of non-receipt of the Survival for radio sensors

Antimask (NO FAST): Communication of reporting antimask wireless sensors enabled this feature.

Sirens failures (NO FAST): Communication of the faults relating to the Buzzers with serial connection

Communicates codes (NO FAST): Communication of the entering of an enabled code

Emergency code (NO FAST) - No entering of PATROL code: Communication to the associated number when an enabled Emergency Code has been entered on the keypad Only for the Partitons defined PATROL, communicates the “No entering of patrol code” if it sets the “manual rearming at YES”, to the associated number.

Us. /key false (user/false keys) (NO FAST): Communication by a user or reading of a false TOY

Communicates Panic (NO FAST): By keeping key **(CLR)** pressed, followed by **(1)** in keypad or pressing keys **A/B/C/D** followed by **(ENT)** if suitably programmed, a silent panic emergency call is trigered

Communicates Medic (NO FAST): By keeping key **(CLR)** pressed, followed by **(3)** in keypad or pressing keys **A/B/C/D** followed by **(ENT)** if suitably programmed, a medic emergency call is trigered.

Communicates Fire (NO FAST): By keeping key **(CLR)** pressed, followed by **(2)** in keypad or pressing keys **A/B/C/D** followed by **(ENT)** if suitably programmed, a fire emergency call is trigered.

GSM Events (NO FAST): Communicates the low and out SIM Card credit

Warning: (NO FAST) indicates the events that are not communicated using the FAST protocol.

Label: it is possible to associate a description of 16 alphanumerical digits for every telephone number;

- Press **(CLR)** to vary
- Press **(ON)** to activate the uppercase and **(OFF)** to activate lowercase letters
- Writing keys:
  (1)abc1 **(2)**def2 **(3)**ghi3 **(4)**jkl4 **(5)**mno5 **(6)**pqr6 **(7)**stu7 **(8)**vwx8 **(9)**yz. **(0)**_’0
- Press arrows **(←)** and **(→)** to position the cursor
- Press **(ENT)** to confirm
- Press **(ESC)** to go back
- Press **(↑)** or **(↓)** to move

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from previus page

Dialler

Telephone options

Teleph. options ENT ↑↓

- Answer listening YES
- Autoansw. machine NO
- Attempts pause 60 (0:255 sec)
- Vocal repetition 2 (0 .. 16)
- Stop dig. calls NO
- Enab. RTC by GSM NO
- SMS limiter 0 (0 .. 255)

Answer listening: If this function is enabled, the vocal message starts to be transmitted only after the called User has answered; in this case, the call is considered as **"completed with success"**, therefore, it will not be repeated to the set number if the first repetitive cycle is at least heard, or the call is voluntarily interrupted by the user by pressing key "4" or key 3 from the telephone receiving the message.
By not enabling this function, the message will start as soon as the dialler will have stopped dialling the telephone number and the vocal calls will be repeated for all "number of attempts" programmed for all entered numbers (see "Attempts ")
Warning: By setting NO, the unit no longer complies with EN50131.

Autoanswer machine: Should an answering machine be included, the overlapping can be activated (see "RTC Function").

Attempts pause: Should the calls not be completed successfully, the delay programmed here will be interposed between the second attempt and every subsequent attempt towards the same telephone number.
It must be noted that, according to regulation, a minimum pause of 6 seconds is automatically inserted between successive calls.
Vocal repetition: It defines how many times the eventual vocal message must be repeated when a telephone communication is activated.
In case of wanting to communicate the message to a **fixed** or **mobile answering machine**, we recommend setting a sufficient number of repetitions, such to guarantee the recording of the message on the answering machine.
Stop dig. calls: Enabling the function, after a successful telephone call to a digital number the central control unit blocks further calls to the other digital numbers memorised with the same protocol.
Enable RTC by GSM: By enabling the function, the panel answers the GSM channels to voice calls and commands via SMS. GSM answered after three rings.
SMS limiter: Defines maximum number of SMS to be sent in an interval of 1 hour. By entering 0 it is disabled, otherwise the control panel sends maximum that number of SMS in one hour and then memorises an event of "STOP SMS LIMIT N.". Starts sending again after an hour has passed from the sending of the first SMS of the series.

- Press **(CLR)** to vary
- Press **(ON)** to activate the uppercase and **(OFF)** to activate lowercase letters
- Writing keys:
  (1)abc1 **(2)**def2 **(3)**ghi3 **(4)**jkl4 **(5)**mno5 **(6)**pqr6 **(7)**stu7 **(8)**vwx8 **(9)**yz. **(0)**_'0
- Press arrows **(←)** and **(→)** to position the cursor
- Press **(ENT)** to confirm
- Press **(ESC)** to go back
- Press **(↑)** or **(↓)** to move

GSM

GSM ENT ↑↓

- PIN 0000
- SIM credit ctrl. YES
- GPRS ENT ↑↓
  - APN ENT ↑↓
    - APN
    - Username
    - Password

PIN: Enter the valid PIN code of the SIM card.
If the PIN code has been disabled this parameter is ignored.

SIM Credit ctrl: If this function is enabled, the control panel will check the credit of the SIM Card. Should a rechargeable card be installed, leave "NO".

GPRS: The parameters for data connection via GSM are programmed in this menu

APN (Access Point Name): Name of the access point (server) to which a mobile device will try to connect to gain access to the Internet to make data transfers.

APN: Access point name. If left blank, the panel will use the default names made available by the network operator used (valid only for Italy): TIM: ibox.tim.it, VODAFONE: web.omnitel.it, WIND: internet.wind

Username: user name for accessing the APN (if required by the operator)

Password: password for accessing the APN (if required by the operator)

- Press **(CLR)** to vary
- Press **(ENT)** to confirm
- Press **(ESC)** to go back
- Press **(ON)** to activate the uppercase and **(OFF)** to activate lowercase letters
- Press arrows **(←)** and **(→)** to position the cursor
- Press **(↑)** and **(↓)** to move
- Writing keys: **(1)**abc1 **(2)**def2 **(3)**ghi3 **(4)**jkl4 **(5)**mno5 **(6)**pqr6 **(7)**stu7 **(8)**vwx8 **(9)**yz. **(0)**_'0

to following page

from previus page

Dialler

GSM

Credit req. pers. ENT ↑↓

Credit tel. num.

Use SMS Credit NO

Credit SMS

Credit request personalization: In this menu, it is possible to personalize the credit request method, in the case of variation by the operator. The control panel is programmed for the request by the following operators:
Vodafone > call number = 404 TIM > SMS = PRE CRE SIN \ SMS calling number = 40916
WIND > SMS = SALDO \ SMS calling number = 4155
DO NOT USE THE FOLLOWING ACTION IF THE REQUEST PROCEDURE MATCHES THE ONE ALREADY PROGRAMMED.

Credit telephone number: Introduce the operator phone number to be used by the control panel for calling/ forwarding the SMS

Use SMS Credit: Activating this function, the control panel send the indicated SMS in “Credit SMS” for the credit request. Placing NO, the control panel will ring only once at the phone number indicated in “Credit phone number”.

Credit SMS: In this menu, it is possible to personalize the credit SMS message, as required by the GMS operator.

- Press **(CLR)** to vary
- Enter the telephone number
- Press **(↑)** and **(↓)** to move
- Press **(ENT)** to confirm

to following page

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FAST channels ENT ↑↓

- FAST arm/disarm 2 (1 . . 8)
- FAST tamper 1 (1 . . 8)
- FAST fire 5 (1 . . 8)
- FAST watch-dog 3 (1 . . 8)
- FAST mains fault 4 (1 . . 8)

Prog. Zone ENT ↑↓

- Zone Nr. : 1 (1 .. 32)
  - FAST channel 3 (1 . . 8)
  - SIA Code 2 (1 . . 16)
  - Says alarm/rest. YES
  - Says zone code YES
  - Says zone speech YES
  - Says zone number YES
  - Send string SMS YES
  - Vocal word 1 0 (0 .. 415)
  - Vocal word 2 0 (0 .. 415)
  - Vocal word 3 0 (0 .. 415)
  - Vocal word 4 0 (0 .. 415)

to following page

Dialler

Fast Channels

Programming of all Channels to be activated for the signalling in Fast Format that do not relate to the zone events. Below are all the Menus that allow entering the various parameters:

- **Fast Format** Channel for control panel **Armed/Disarmed** signal.
- **Fast Format** Channel for alarm signal of the **Tamper** dedicated zone.
- **Fast Format** Channel for alarm signal of the **Fire** dedicated zone.
- **Fast Format** Channel for microprocessor **Watch-Dog** signal.
- **Fast Format** Channel for signalling of **No mains fault**.

Press **(CLR)** to vary
Enter number to be set
Press **(ENT)** to confirm

Zones Programming

In this Menu all codes identifying the type of event to be transmitted for every control panel software zone and for every telephone protocol are defined.
It is also possible to customise the vocal alarm message of the single zones or state of the O.C. outputs using the available vocabulary (see telephone table).
Zone number (1..32): Select the zone to be customised and subsequently press **(ENT)**.
ZONES customisation:
FAST channel: The values of the channels to be entered vary from 1 to 8.
Example: *by receiving this code, the Fast Format receiving control panel opens, in case of alarm, a channel corresponding to the programmed code and closes it for resetting of the zone.*
SIA coding (also valid for VOCAL protocol): Depending on the code set, the message relating to the type of zone varies, both in the vocal communications and in those addressed to the Digital receivers (SIA; Contact ID). *(see "Example of telephone programming")*

The assignable **SIA** codes are:

Voice communication of zone codes		(Sia) WinRec 3.2 or above	
Code 1 GENERAL	Code 9 IRRIGATION	Code 1 " "	Code 9 SPRINKLER
Code 2 THEFT	Code 10 FLOODING	Code 2 THEFT	Code10 LIQUID LEVEL
Code 3 GAS	Code 11 TEMPERATURE	Code 3 GAS	Code11 COLD
Code 4 FIRE	Code 12 TAMPER	Code 4 FIRE	Code12 TAMPER
Code 5 TEMPERATURE	Code13 BURGLARY	Code 5 TEMPERATURE	Code13 SILENT
Code 6 DOCTOR	Code14 TECHNICAL	Code 6 DOCTOR	Code14 TECHNICAL
Code 7 PANIC	Code15 MASKING	Code 7 PANIC	Code15 MASKING
Code 8 EMERGENCY		Code 8 EMERGENCY	

For every input zone, the control panel is able to recognise and, therefore, automatically send, four different states:
a) ALARM b) RESET c) LINE EXCLUDED d) LINE RE-INCLUDED
Note: By varying this coding the nature of the transmitted vocal messages is varied

Zones automatic communications
Says alarm/reset (communicates alarm/reset): By setting "YES" the word ALARM or RESET is communicated in vocal or included in the SMS
Says zone code (communicates the zone coding): By setting "YES" the wording included in "SIA Coding" is communicated in vocal or in the SMS
Says zone speech (communicates the telephone zone): By setting "YES" the word ZONE is communicated in vocal or included in the SMS
Says zone num. (communicates zone number): By setting "YES" the ZONE NUMBER is communicated in vocal or included in the SMS
Send string SMS (sends zone strip on SMS): By setting "YES" the associated zone strip is included in the sending of the SMS

Zones customised communications
By entering a value different from zero (0) in the programming steps "Vocal word 1 - 2 - 3 - 4", it is possible to customise the vocal alarm communication of the control panel with a maximum of 4 customised words. (See telephone table)
Vocal word 1: By setting a numerical value different from "0", the control panel will communicate the word associated to the value (see telephone table)
Vocal word 2: By setting a numerical value different from "0", the control panel will communicate the word associated to the value (see telephone table)
Vocal word 3: By setting a numerical value different from "0", the control panel will communicate the word associated to the value (see telephone table)
Vocal word 4: By setting a numerical value different from "0", the control panel will communicate the word associated to the value (see telephone table)

Press **(CLR)** to vary
Enter number to be set
Press **(ENT)** to confirm

from previus page

Dialler

Custom speech
ENT ↑↓

Custom speech

Record messages
ENT ↑↓

Message 1
CLR ENT

Play messages
ENT ↑↓

Message 1
↑↓ ENT

All delation
ENT ↑↓

Are you sure..??
CLR=NO ENT=YES

Record messages: In this menu the voice messages can be recorded through the integrated microphone of the control units with on-board keypad (Raptor RK and RT).
Message 1: press ENT to start recording and talk (the maximum time for each recording is 16 seconds), recording stops automatically. press CLR to exit

Play messages: In this menu you can listen to personalized voice messages through the integrated loudspeaker of the control units with on-board keypad.
Message 1: with the arrows **(↑) (↓)** select the message you want to listen to, press ENT to start listening to the selected message.

All delation: In this menu you can delete all previously recorded voice messages.

- To access other entries press **(↑)** or **(↓)**
- Press **(ENT)** to confirm
- Press **(ESC)** to go back

Remote handling
ENT ↑↓

Account code
0 0 0 0 0 0

Remote handling

Account code: client code that will be used for the re-programming and downloading of the events memory.

NOTE.: <u>The Account Code must match the Customer Code assigned in the XWIN programme</u>
NOTE.: use keys 0 to 9 to enter the Account code

SIA-IP Receiver
ENT ↑↓

A
ENT ↑↓

IP Addr

Socket Port
0

B
ENT ↑↓

IP Addr

Socket Port
0

User Password

Int.LinkTest IP
0 [10...65530]

SIA - IP Receiver

GPRS interface

Ip digital protocols sent to 4 different receivers

Telephone profile SETTING:

- for SIA IP1> set 1 (or <empty>) on the telephone number / - for SIA IP2> set 2 to the telephone number
- for SIA IP3> set 3 to telephone number / - for SIA IP4> set 4 to the telephone number

"A" and **"B"** identify the complementary IP Addresses to which the communications are sent and the relative port.
E.G.: If the control panel does not dialogue via IP Addr **"A"**, it automatically reroutes communications to IP Addr **"B"** and remains connected until a dialogue block occurs with this IP Addr. Only in this case will communications return to IP Addr "A".

IP Addr: Technical network parameter

Socket Port: Technical network parameter

User Password: this is the encrypting password, it is identical for both IP addresses and it must match the one entered in the remote receiver.

Int.LinkTest IP: is the interval of the periodic presence test towards the SIA-IP receivers enabled (is sent to the receiver a null event).
- 0 (zero) the link test is disabled. - from 10 to 65350 seconds, interval between tests
Telephone profiles programmed with digital protocols and GPRS interface, where the "Autotest" event has been enabled, are used to send the LinkTest IP

- Press **(CLR)** to vary
- Press **(ENT)** to confirm
- Press **(ESC)** to go back
- Writing keys: **(1)**abc1 **(2)**def2 **(3)**ghi3 **(4)**jkl4 **(5)**mno5 **(6)**pqr6 **(7)**stu7 **(8)**vwx8 **(9)**yz. **(0)**_'0
- Press **(ON)** to activate the uppercase and **(OFF)** to activate lowercase letters
- Press arrows **(←)** and **(→)** to position the cursor

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Date / Time

Date/Time Programming: if the clock is managed by the hardware of the control panel the current date and time appearing on the display keypad are set; for the analysis of the events recorded in the events memory to be reliable, it is important that the date and time be correctly programmed.

- Press **(CLR)** to vary
- Press **(ENT)** to confirm
- Press **(ESC)** to go back
- Press **(ON)** to activate the uppercase and **(OFF)** to activate lowercase letters
- Press arrows **(←)** and **(→)** to position the cursor
- Press **(↑)** and **(↓)** to move
- Writing keys: **(1)**abc1 **(2)**def2 **(3)**ghi3 **(4)**jkl4 **(5)**mno5 **(6)**pqr6 **(7)**stu7 **(8)**vwx8 **(9)**yz. **(0)**_'0

Date / Time
ENT ↑↓

- Hours 15 (0 .. 23)
- Minuts 30 (0 .. 59)
- Day 10 (0 .. 31)
- Month 5 (0 .. 12)
- Year 13 (0 .. 99)
- Summer/Winter ENT ↑↓
  - Clock Ctr Panel
    - Operations Disabled
  - Timezone 0 (0..112)

Summer/Winter
In this menu you set the time using the hardware management of the Central or via synchronization to an NTP server over the Internet connection that is connected Eweb card.

Clock

Ctr Panel: the date and time must be set manually in the appropriate menu Hours / Minutes / Day / Month / Year and enables to control the function of the change summer / winter time automatically or individually.

Operations
- **Disabled**: Clock: the automatic change (winter><Summer) is disabled.
- **Automatic DST:** the time change is performed in automatic without considering that set in **steps Time+1/ Time-1.**
- **Custom:** the time change is performed following the parameters set in **steps Time+1 /Time-1.**

Hour+1: means the passing to standard time (bring clocks forward by one hour, from 2:00 to 3:00, usually the last Sunday in March)

Hour-1: mmeans the passing to summer time (bring clocks backward by one hour, from 3:00 to 2:00, usually the last Sunday in October)

- Timezone
in this menu you should set the time zone of the country where the plant is installed.
Values from 0 to 12 indicate positive deviations to 'UTC (Coordinated Universal Time / Coordinated Universal Time). Values from 101 to 112 indicate negative deviations to 'UTC.

Examples: **Italy, France, Germany** have the time zone UTC+1, setup Timezone: 1
Greece and **Bulgaria** have the time zone UTC+2 -> setup Timezone: 2
Guatemala and **Nicaragua** have the time zone UTC-6 -> setup Timezone: 106
Bolivia and **Venezuela** have the time zone UTC-4 -> setup Timezone: 104

Note: following a connection USB with the Computer, the date and time automatically update with the time on the PC.

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Autotest ENT ↑↓

- I autotest Hour 0 (0 .. 23)
- I Autotest Min. 0 (0 .. 59)
- Autotest Interv. 0 (0 .. 255)
- Autotest on arm NO

Autotest

The Autotest is a dynamic test of the batteries of the control panel and of the intelligent additional supply units **(mod. POWER1Q or POWER4Q);** it evaluates the discharging curve of the relative batteries and shows the result if negative. It can be carried out at the programmed time and can also be intended as “supervision test of the system”, if rogrammed to send a call to a tele-listening centre.
With the programming of the interval, it is established every how many hours the Self-test function will be carried out.

Note: By entering the value 0 (zero), an Autotest will be run at least every 24 hours during normal operation, as well as after about one minute after exiting the Installer menu or the initial control unit start-up.

In this case any anomalies are reported on the keyboard without activating telephone calls or outputs.

Whenever the programming menu is entered with the installer code, the programmed Autotest starts again from the hour and minutes set for the first Autotest.

Example: *the self-test function is to be activated at* **22:30 of every day***, both to evaluate the efficiency of the batteries and to communicate the supervision of the same system.*

Time 1st Autotest: 22

Min. 1st Autotest: 30

Autotest Interval: 24 (every 24 hours)

Autotest in Arming: NO (if enabled, the self-test is carried out upon arming of any sector of the control panel if this is at least 5 minutes from the previous).

Note: The arming of the control panel is subject to the good outcome of the self-test procedure.

Programm. Timer ENT ↑↓

- Operations ENT ↑↓
  - Day # 1 (1.. 7)
    - Operat. # 1 (1 .. 16)
      - Operation Hours : 0 (0 .. 23)
      - Operation Min. : 0 (0 .. 59)
      - Operation Type: Disarm. Part.
        - Partition # 1 (1 .. 8)
        - O.C. # 1 (1 .. 8)
        - Shift # 1 (0 .. 15)

Timer

The **Timer** has the possibility of managing the automatic armings of the system and the activations of the OC.

OPERATION TYPE

• **NO OPERATION:** no operation is carried out.

• **ACTIVATES O.C. (from 1 to 32):** to select the wanted output, confirm with **(ENT)** and press the arrow button downwards, then press **(CLR)**, enter the **number of the O.C.** and confirm with **(ENT).**
Attention: the O.C. output in this way associated must be programmed as **“O.C. timer”** so that it cannot be controlled by the User Code, or **“OC user”** so it can be controlled by the User Code, with a programmable time.

• **DEACTIVATES O.C. (from 1 to 32):** deactivates the O.C., subsequently programmed • Part. arm. ann.: activates the keypads buzzer in the time programmed in “Warning Duration”.
Example: *If having to warn the activation of an O.C. output a few minutes in advance, program the operation “Inclusion Warning” at the wanted time.*
Example: *(22:25 - Inclusion Warning) and (22:30 - Activation O.C. 12)*

• **Arm. ON Part. • Arm. HO Part. • Arm. AR Part. • Arm. PERI Sect.:** Arms the selector in ON-HOME-AREA-PERI

• **Disarm. Part.:** Disarms partition

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Timer

• **Start shift (from 1 to 15):** to select the start of the partition for which the User Codes and the Audio of the keyboards are enabled, confirm with **(ENT)** and press **(CLR)**, enter the number of the time band and confirm with **(ENT)**. Press **(ESC)** to exit.

• **End shift (from 1 to 15):** to select the end of the partition for which the user codes and the Audio of the keyboards are enabled.

Extraordinary Activation: While the warning time upon arming is sounding, a Code must be entered enabled for the inclusion of the extraordinary (see “Prog.User Code/ ... /Activate Extraord.” with a “YES”) and **key (8)** must be pressed. Every time arming is delayed by 1 hour for a maximum of 3 times. According to Standard CEI 79.2, the arming delay can be maximum of 180 minutes.

Disarms Active Timer: By entering a Code enabled for the disarming of the Active Timer (see “Prog.User Code/... / Disarms active Timer” with a “YES”), the User Code is allowed to disarm the system, even when the system should result armed by Timer.

Functioning modality: The Timing Programmer blocks in the case of an event and reports it on the hone to the numbers programmed (See Telephone /Associate events /Switching off ON).

Functioning modality: With **Conform.EN50131 set to YES**: if an event is present at switch-on, the Timing Programmer blocks and reports non-insertion on the phone to the programmed numbers (see Telephone / Associate events / Switching off ON). **With Conform.EN50131 set to NO**: If an event is present at switch-on, the Timing Programmer performs insertion even with the “Conditioned switch-on” set to YES.

Warning: the possibility of switching off a switch-on commanded by the Programming Timer from the keypad or from an external key can be programmed in the User Profiles and Activators > Switch-on zone menu.

The week day automatically synchronises with the date set in the system and makes the programming days correspond as follows:

(1) Mon - (2) Tue - (3) Wed - (4) Thur - (5) Fri - (6) Sat - (7) Sun

In this way, by programming day 3, the operations to be carried out on the Wednesday are programmed.

(ATTENTION IN ENTERING THE DATE CORRECTLY)

- Press **(CLR)** to vary
- Enter number to be set
- To access other entries press **(↑)** or **(↓)**
- Press **(ENT)** to confirm

Copy from Monday ENT ↑↓

Copy from Monday

to Friday or to Sunday

Copy from Monday

Copy from Monday:

• **To Friday:** copies all operations programmed for day 1 to day 5.

• **To Sunday:** copies all operations programmed from day 1 to day 7. To disable the timer, program every operation for day 1, with the “No Operation” modality, and use the function “copy to Sunday”.

- Press **(CLR)** to vary
- Enter number to be set
- To access other entries press **(↑)** or **(↓)**
- Press **(ENT)** to confirm

Holidays ENT ↑↓

Holiday # 1 (1 .. 10)

Start Day 0 (0 .. 31)

Start Month 0 (0 .. 12)

End Day 0 (0 .. 31)

End Month 0 (0 .. 12)

Holidays

It is possible to program n. 20 annual holiday periods, during which no programmed function will be carried out.

Example 1: *The holiday of only one day, ex. 22/07/97, must be set as follows:*
1st - [start day 22] [start month 07] [end day 22] [end month 07]

Example 2: *The holiday that starts on 25.04.97 and ends on 26.04.97 must be set:*
1st - [start day 25] [start month 04] [end day 26] [end month 04]

Example 3: *The holiday that starts on 25/12/96 and ends on 06/01/97 must be set:*
1st - [start day 25] [start month 12] [end day 31] [end month 12] and 2nd - [start day 01] [start month 01] [end day 06] [end month 01]

Example 4: *The following holiday is not admitted:*
1st - [start day 15] [start month 12] [end day 15] [end month 01]

Note: The order in which the holiday periods are entered is not important.

- Press **(CLR)** to vary
- Enter number to be set
- To access other entries press **(↑)** or **(↓)**
- Press **(ENT)** to confirm

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Copy
ENT ↑↓

Copy

Zones
ENT ↑↓

From =>
1 (1 ..999)

=> To
1 (1 ..999)

This menu enables copying of the features set for one “zone, O.C., User, telephone number” on another “zone, O.C., User and telephone number”.
Example - Zone
Just select the zone number to be copied
“From => n. zone (1..999)” and the zone number on which all features are to be copied “**=> To n. zone (1..999)”**.

!! Attention !!
no elements are copied and in particular for:

Zones:
- the link between “software” zone and physical input
- the zone strip

User
ENT ↑↓

From =>
1 (1 ..999)

=> To
1 (1 ..999)

User:
- the value of the user code
- the user strip

Telephone numbers:
- the value of the telephone number

Note: with regard to the copy of the telephone numbers, all associations of the telephone numbers to the events are also copied.

Teleph. numbers
ENT ↑↓

From =>
1 (1 ..999)

=> To
1 (1 ..999)

- Press **(CLR)** to vary
- Enter number to be set
- To access other entries press **(↑)** or **(↓)**
- Press **(ENT)** to confirm

Events Memory
ENT ↑↓

Events Memory

Partitio: 1 - 8 (+)
0

1° 09 : 22 15 / 09
Install. code 1

2° 09 : 10 15 / 09
Zone alarm 1

2° 09 : 10 15 / 09
Box

↓1 ↓8 16↓
nnssnnnnssnnnnn

↓17 ↓24 32↓
nnssnnnnssnnnnn

3° 09 : 05 15 / 09
Us.Cod. 1 P 1

2° 09 : 10 15 / 09
Mario

2° 09 : 10 15 / 09
Access iden. 2

↓1 ↓8 16↓
nnssnnnnssnnnnn

↓17 ↓24 32↓
nnssnnnnssnnnnn

All events that have been programmed for recording in the events memory of the control panel can be viewed.

The non-volatile memory contains up to 2000 events and when this limit had been reached, the new event will “delete the oldest”, which was the first to occur, so the last 2000 events will also be recorded.

By accessing the Events Memory Menu, there is the possibility of analysing everything that has occurred starting with the most recent event, to recede in time to the eldest.

When an event generated by a zone or a sector appears, press **[CLR]** once to display the **Associated String;** press again to see whether the **Event Signalled** by the phone dialler has been communicated to each of the phone numbers.

When an event generated by a user code appears, press **[CLR]** once to display the **Associated String;** press again to view the access ID assigned to the code; press a third time to see whether the **Event Signalled** by the phone dialler has been communicated to each of the phone numbers.

The event results always *not signalled* if, during programming, it has not been associated to the telephone number or if in “Telephone options”, “Listen Reply” is set at NO.

- Press (↑) (↓) to move
- Press **(CLR)** to view information on the event, like the string and result of telephone calls
- Press **(CLR)** to return to the displayed event

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EEPROM Reset
ENT ↑↓

Are you sure..??
CLR=NO ENT=YES

EEPROM Reset

Confirming **RESET EEPROM** causes the resetting of the entire control panel configuration bringing it back to default values, excluding the Events Memory.

- Press **(ENT)** to reset all default parameters
- Press **(CLR)** to go back

USB link
ENT ↑↓

USB link
>>>

USB link

Enter this mode to enable the USB connection to perform interactive programming.
Warning: In “Real Time” mode, only downloading of the event memory is permitted

Firmware update
ENT ↑↓

Communic. code
******

Are you sure..??
CLR=NO ENT=YES

FIRMWARE update

<u>This procedure should be performed only after loading the new firmware into the control panel.</u>
Confirming the **FIRMWARE Update** causes overwriting of the control panel management software with the one that has been preloaded.
If the procedure is unsuccessful, the control panel is reset with the latest firmware installed correctly.
This procedure does not delete programming of the control panel parameters; all settings relating to the keypads number, zones programming, codes, telephone, etc., remain even after the UP-GRADE procedure.

- Enter the communication code
- Press **(ENT)** to delete the FIRMWARE

Diagnostic

Diagnostic
ENT ↑↓

Ctr Panel
ENT ↑↓

Failed tel calls
ENT ↑↓

Battery
7.93 V

This programming step allows to monitor a series of parameters to verify the correct installation and operation of the control panel.

Control panel: to monitor the Control Panel parameters

- The arrow keys (↑) and (↓) allow scrolling of the various controls

Failed tel calls: In this menu, it is possible to verify the call that have been unsuccessful for different times.
Press ENT and see the phone calls.
If no calls are present, pressing ENT do not allow to access following menu.

Battery: Indicates the current battery level. With values equal to or lower than 6 V the control unit displays “Low battery”.

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Zones Walk Test

Zones Walk Test
ENT ↑↓

Ctr panel
ENT ↑↓

I.BA 1
YYY

The zones' test function allows to display the state of all zones for the control panel.

- Key **(5)**, allows to deactivate or activate the memory function. Also, by exiting and entering the MEMO function, the previous memorisations are deleted.
- Key (CLR), allows exiting from the Zones' Test function.
- The arrow keys (↑) and (↓) allows exiting from the Zones' Test function.
- The wording **(MEMO)** signals that the memorisation modality is active, therefore the unbalancing of one or more zones, causes the relative memorisation.

Note: for the lines on the keypads the MEMO function is always active and cannot be excluded

Menu standby
ENT ↑↓

Menù standby

Rem. time: (min.)
60

By accessing this modality, there will be the possibility of blocking all alarm signals for 60 minutes, in order to comfortably intervene in the installation or maintenance of the system.
The time can be reset at 60 minutes by simply exiting and accessing this menu again or by pressing any key.

EPROM version
ENT ↑↓

Eprom version

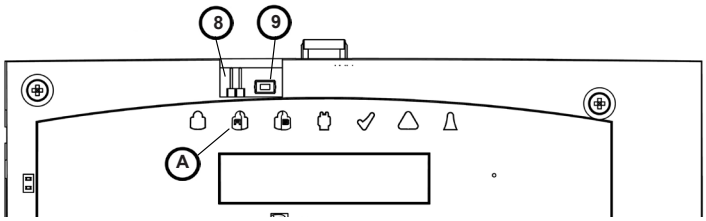
EPROM version
V x.xx

The software of the control panel is displayed in this menu.

The software version of the keypad is displayed by simultaneously pressing keys **(CLR)** and **(ESC)**.

End of programming and return to **"Installation"** menu

Reset the Codes - Disable Sectors - First Radio keyboard acquisition



RAPTOR RK LC 4G - Reset the Codes - Disable Sectors

In case of losing the Installer Code, programming of the control panel would be impossible as would the possibility of varying it.

It is possible to Reset the installer code by activating a particular procedure.

- Close the **SERVICE jumper (8)** on the board of central control unit and keep it closed.
- Press and release the RESET button **(9)**.
- the LED **(A)** activates after a few seconds; as soon as it does, remove the **SERVICE jumper (8)** on the board of central control unit**.**
- The alarm relay automatically de-excites after approximately 2 seconds.
- The control panel now disarms the previous armings, and immediately enters the installer menu on the keyboard with address 1, from which the eventual amendments to programming can be carried out
- The Installer code is reset to default value (**000000**)

ATTENTION: By setting programming step "R. Def Prg. Codes" to "YES", the Code Reset sets all programming to default values.

RAPTOR R LC 4G - First Radio keyboard acquisition

- Close the **SERVICE** Jumper **(8)**
- Press and release the **RESET** button **(9)**
- When the LED turns on, remove the **SERVICE** Jumper **(8)**
- When the 3 LEDs start flashing, it transmits the tamper of the radio keypad to be acquired
- The 3 LEDs turn on steadily when the radio keypad has been acquired and the control unit restarts automatically
- Close the **SERVICE** Jumper **(8)** to enable wireless communication with the keyboard just acquired
- Enable the first keyboard in programming

AVS electronics

Sistema di Qualità certificato ISO9001:2008

CE

DICHIARAZIONE DI CONFORMITA
(DECLARATION OF CONFORMITY)

Apparecchiatura radio
Radio Equipment

Questa dichiarazione è rilasciata sotto la sola responsabilità del costruttore
This declaration is issued under the sole responsibility of the manufacturer

Costruttore *(Manufacturer)*	AVS ELECTRONICS SPA
Indirizzo *(Address)*	Via Valsugana, 63 - 35010 Curtarolo (PD) - ITALY

DICHIARA CHE LA SEGUENTE APPARECCHIATURA
(DECLARES THAT THE FOLLOWING EQUIPMENT)

Nome dell'Apparecchiatura : *(Equipment Name)*	RAPTOR R / RAPTOR RK / RAPTOR RT / RAPTOR R LC / RAPTOR RK LC ESPRIT EG / ESPRIT EG B
Tipo di Apparecchiatura : *(Type of Equipment)*	Sistema centrale antifurto via radio *(Wireless Alarm control panel)*

RISULTA CONFORME CON QUANTO PREVISTO DALLE SEGUENTI DIRETTIVE COMUNITARIE:
(IS IN ACCORDANCE WITH THE FOLLOWING COMMUNITY DIRECTIVES)

2014/30/UE (EMC)	2014/53/UE (RED)
2014/35/UE (LVD)	

E CHE SONO STATE APPLICATE LE SEGUENTI NORMATIVE
(APPLYING THE FOLLOWING NORMS OR STANDARDS)

EN 50130-4; EN 61000-6-3	EN 300 220-3-2
EN 60950-1	EN 301 489-1; EN 301 489-3 EN 301 489-7; EN 301 489-17
EN 50131-1; EN 50131-3; EN 50131-6; EN 50131-10	EN 300 328
EN 50131-5-3	EN 301 511

Il costruttore dichiara sotto la propria responsabilità che questo prodotto è conforme al Regolamento 765/2008 dell'Unione Europea (marcatura) e soddisfa i requisiti essenziali e altre prescrizioni rilevanti della Direttiva 2014/53/UE (RED) in base ai risultati dei test condotti usando le normative armonizzate in accordo con le Direttive sopracitate. L'oggetto di questa dichiarazione è conforme alla corrispondente Legislazione armonizzata dell'Unione: Direttiva 2014/53/EU.

We declare under our sole responsibility that this product is in conformity with 765/2008 Regulation of the European Union (Marking) and complies with the essential requirements and all other relevant provisions of the 2014/53/UE (RED) Directive based on test results using harmonized standards in accordance with the aforementioned Directives. The object of the declaration described above is in conformity with the relevant Union harmonized Legislation: Directive 2014/53/EU.

Luogo *(Place)* : Curtarolo

Data *(Date)*: SEP 2017

Nome *(Name)*:
F. BARO

Firma *(Signature)*

Amm. Delegato
(General Manager)

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