XR800

WIRELESS CONTROL UNIT

INSTALLER MANUAL

CE | RoHS COMPLIANT 2002/95/EC

IMPORTANT NOTES

- The following manual has been prepared to provide assistance to users who use the system. All those who use the systems listed in this manual must be authorized.
- The information contained in this document are property of AMC Elettronica s.r.l.
- All information contained in this document is subject to change without notice.
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GUARANTEE

AMC Electronics s.r.l. ensures that products are free from defects in workmanship.
The product is not installed by the manufacturer and can be used with other products not manufactured by AMC Elettronica srl, the manufacturer does not guarantee or be held responsible for damage and / or theft or other types of issues caused by an incorrect installation and / or configuration of the system.
Is not guaranteed to:
- improper use of the panel
- programming errors
- manipulation and vandalism
- wear and tear
- lightning, floods, fire.
AMC Electronics s.r.l. reserves the right to repair or replace the defective product within the limits established for 24 months.
A different use from that stated in this manual will void the warranty.
The installation must be performed in a workmanlike manner by qualified personnel.

COMPLIANCE

AMC Electronics s.r.l. declares that the alarm control unit is provision of Directive 1999/5 /CE
On our web site www.amcelettronica.com

STANDARDS:

All products mentioned in this manual are in accordance with the rules:
EN 50131-1 + EN 50131-3 + EN 50131-6 (control and indicating equioment for alarm system)
EN 50136-1 + EN 50136-2 (GSM and PSTN alarm transmission)
Certifier: IMQ – Sistemi di sicurezza   Grade: 2 Class:2
Following is the list of normed products:
XR800
IP1: ip board
Xgprs: GSM/gprs module
X3G: gsm/gprs/3G module
UNIKA: keypad
Kblue: keypad
KLCD: keypad
KLight: keypad
KLight plus: keypad with 2 in/out terminal
KXIN: inputs expansion
KXOUT: outputs
Kradio: keypad with wireless receiver
EXPRS800: wireless receiver

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CONTENT OF THE BOX

In the carton box there is:

- Panel boards
- backup battery
- speaker, buzzer
- power supply
- housing fuse
- plastic bag with screws for fix all parts and close the box
- Adesive data label
- user manual

The packaging does not contain:

- Installation Manual
- programming Software **InstallDBExplorer**
- fisher for fix on the wall the palstic box

The material not included in the box can be purchased except:
the programming software and Installation manual can be downloaded from our site: **www.amcelettronica.com**

INTRODUCTION

XR800 security wireless control panel for building protection conform to:

EN 50131-1 + EN 50131-3 + EN 50131-6 (control and indicating equiment for alarm system) +

EN 50136-1 + EN 50136-2 2013 (GPRS - GSM alarm transmission)

The control panel are equipped of 64 wireless zones and 2 wired on board (expandible to 10 zones with 1 KX IN module)

It is possible program 56 wireless devices (20 keyfobs - 32 devices - 4 wireless sirens) without expnasion, only by using the internal wireless receiver. It is possible add anothe remote receiver (expr800 - Kradio) for dub the number of wireless devices.

ALARM COMUNICATION

XR800 are able to notify one or more situations of ALARM, ROBBERY, TAMPERING AN TROUBLE with different carriers:

- PSTN LINE ON BOARD **type ATS3/SP3 refered to EN 50136-2:2013 ****

- GSM/GPRS optional module **type ATS3/SP3 refered to EN 50136-2:2013 ****

- IP module optional **type ATS3/SP3 refered to EN 50136-2:2013 ****

The programmming can be via local keypad or a PC with specific software.

* after specific programming and by enable the automatic EN configurator in panel (see description below)
** to ensure the classification SP3 the periodic test call must be programmed for work every 30' minutes, or for have classification SP2, the periodic test call can be programmed for work every 25h.
See the table with option below

NOTIFICATION EQUIPMENT DESCRIPTION AND CONFIGUARATION

The notifications of alarm, robbery, intrusion, fault, manipultion, and other conditions must be signaled by ATS and Siren, in accordance with the requirements specified in Tables to ensure the certification EN 50131-1:2013 and the grade certified.

Option A	program 2 outs internal siren + SP2 comunication device (GSM/GPRS)
Option B	Autopowered Siren + SP2 comunication device (GSM/GPRS)
Option D	SP3 comunication device (GSM/GPRS) with life test call every 30'

LEVELS OF ACCESS

The standard EN 50131 defines the following access levels:

Level 1: access by any person (no code require)

Level 2: User Access by code. Level 2 is the access of person that will use the system like ARM/DISARM and all operation that the rules of EN 50131 approval permitted. This level allows the entry of the code level 3 (installer)

Level 3: Intsaller. This level is the person or gorup of persons that will program all function of panel according with rules of EN approval and in according with specific needs of Final user LEVEL 2. Another important function of Level 3 is teach to the user level 2 how to use the system when is already programmed.

Level 4: this is the manufactorer level, this access allow to modify the internal function of system. This level has the obligation to build and design the system following the current standards.

EVENT STORAGE SYSTEM

The system has a memory for storage all events produced from panel, the number of these events is 1000, when the system will arrive at the end of the number of events storable, will proceed to delete the old one of the1000 registered.

All events are stored in EEPROM components, and therefore not erasable and remain always stored, also in case of absence of main power.

The delete of events can be made only by the manufacturer.

DEVICES FOR CONTROL OF THE SYSTEM

There are 4 type of device for control of panel:

Type A: Klcd and Klight

Type B: Klight plus

Type C: Unika touch screen keypad

Type D: integrated keypad on the box

see the explanation in this manual

The main features are:

SPECIFICATIONS	XR800
zones wired	10 (2 on board and 8 with module)
wireless zones	64 (32 on board and 32 with expansion)
keyfob	40 (20 on board and 20 with expansion)
wireless siren	8 (4 on board and 4 with expansion)
outputs	2 on board - espandible to 14 (with 4 expansion)
user code/tag	64 users
partitions	4
group	4
keypad	2
tag reader	4
event memory	1000
phone numbers	8 for SMS + 8 for protocols
carriers	GSM/GPRS/3G/PSTN
other inputs	mechanical antiopening tamper
PC software	yes
remote management GPRS/3G/Lan	apps (Apple - Android)
timers	4 per day week

ELECTRIC SPECIFICATIONS	XR800
power supply	100V-240V Vac, 50Hz/60Hz
protection fuse	F500mAL 250V
out voltage	12V
Max consuption	0.5A
board consuption	500mA
max current	1.24A
Max volatge ripple	50mV
max recharge bettery current	240mA
back up battery	9.6V, 2400mAh NiMh
max curret on Load terminal	500mA
power supply type (en 50131)	type A
Dimensions	H = 200mm - L = 250mm - P = 48mm
weight	1kg

ENVIRONMENTAL CONDITIONS	KLight - KLight plus -Kblue - UNIKA - KXIN - KXOUT - karadio - expr800
Environmental Class	class II
Temperature	-10 °C - + 40 °C
Maximum Humidity	75% (non-condensing)

WALL MOUNTING PLASTIC BOX

The control panel is housed in BOX compound based on Acrylonitrile-Butadiene-Styrene (ABS).

UL94 V-0, with brominated flame retardant, without PBB / PBDE.

with dimensions: H = 200mm - L = 250mm - P = 48mm

For the installation of the panel on the wall, choose not easy accessible place to unknown person.

For the drilling of the wall, use the figure that represents the measurements of the distances of the holes of plastic box (fig below)

IMPORTANT: drill the place for install the tamper

Drill, taking care not to damage any piping in the back of the wall.

Insert for each hole, 1 fisher with dimater of 6mm

Slide the cables through provided holes

Fix the box on the wall with the right screw for fisher

hole for wall fixing

Tamper plastic blade

remove

block main power cable plastic

hole for main power

main power terminlas & fuse housing

and use for fix battery

hole for wall fixing
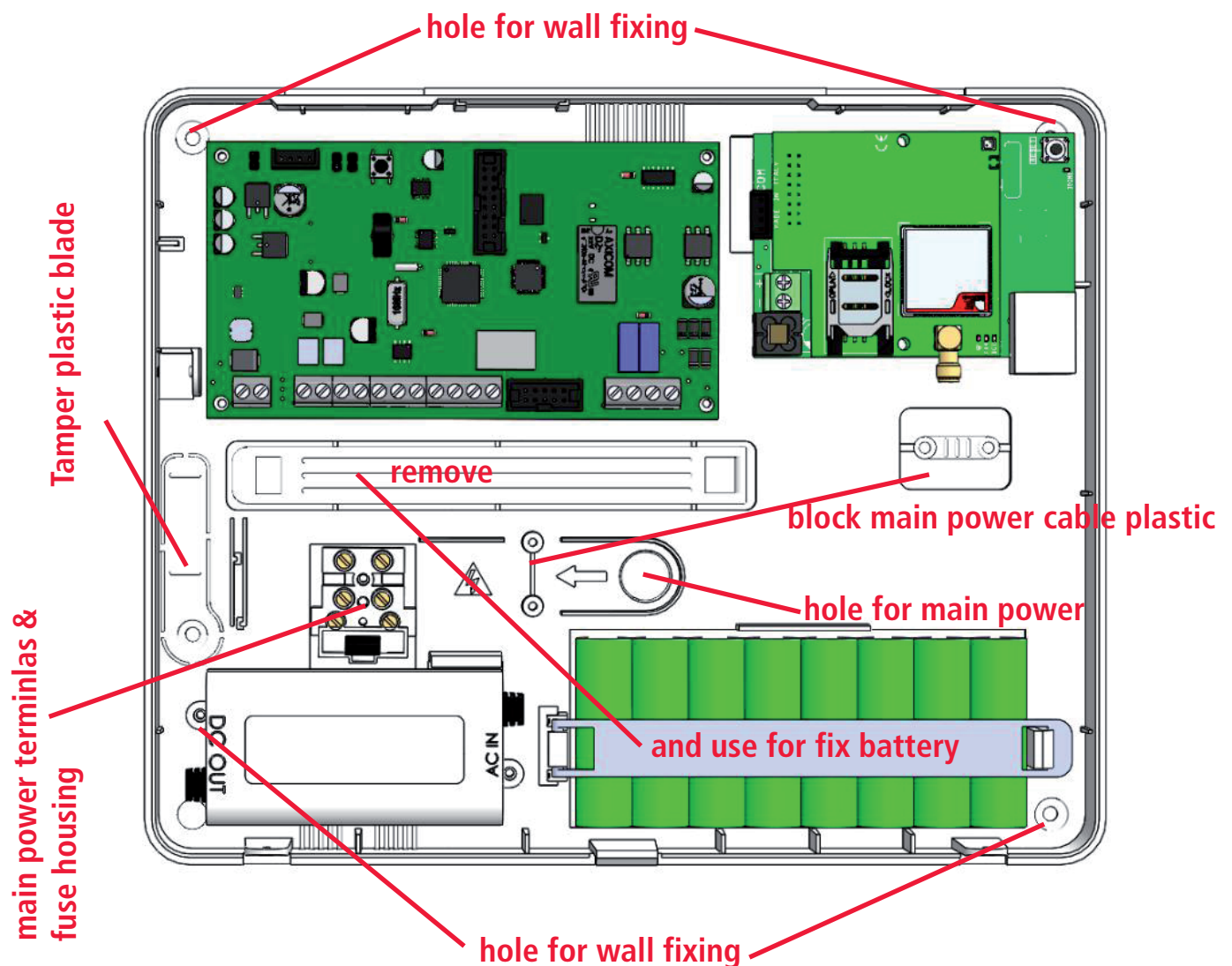
TAMPER PROTECTION

Fix the plastic blade for tamper with the right screw for 6mm fisher (see fig)

The tamper is made for protect the panel from open and remove the box.

I figure below is shown how to mounted the protection tamper:

- Fix on wall the plastic slat with a 6 mm diatmeter dowels (fisher)
- Fix the tamper switch into the slot
- Connect the terminal tamper to the socket on the panel board

In this way the system is protected from open and remove

tamper connection cable

tamper switch place antiopening/removing

hole screw for fixing blade for back tamper

DC OUT

AC IN
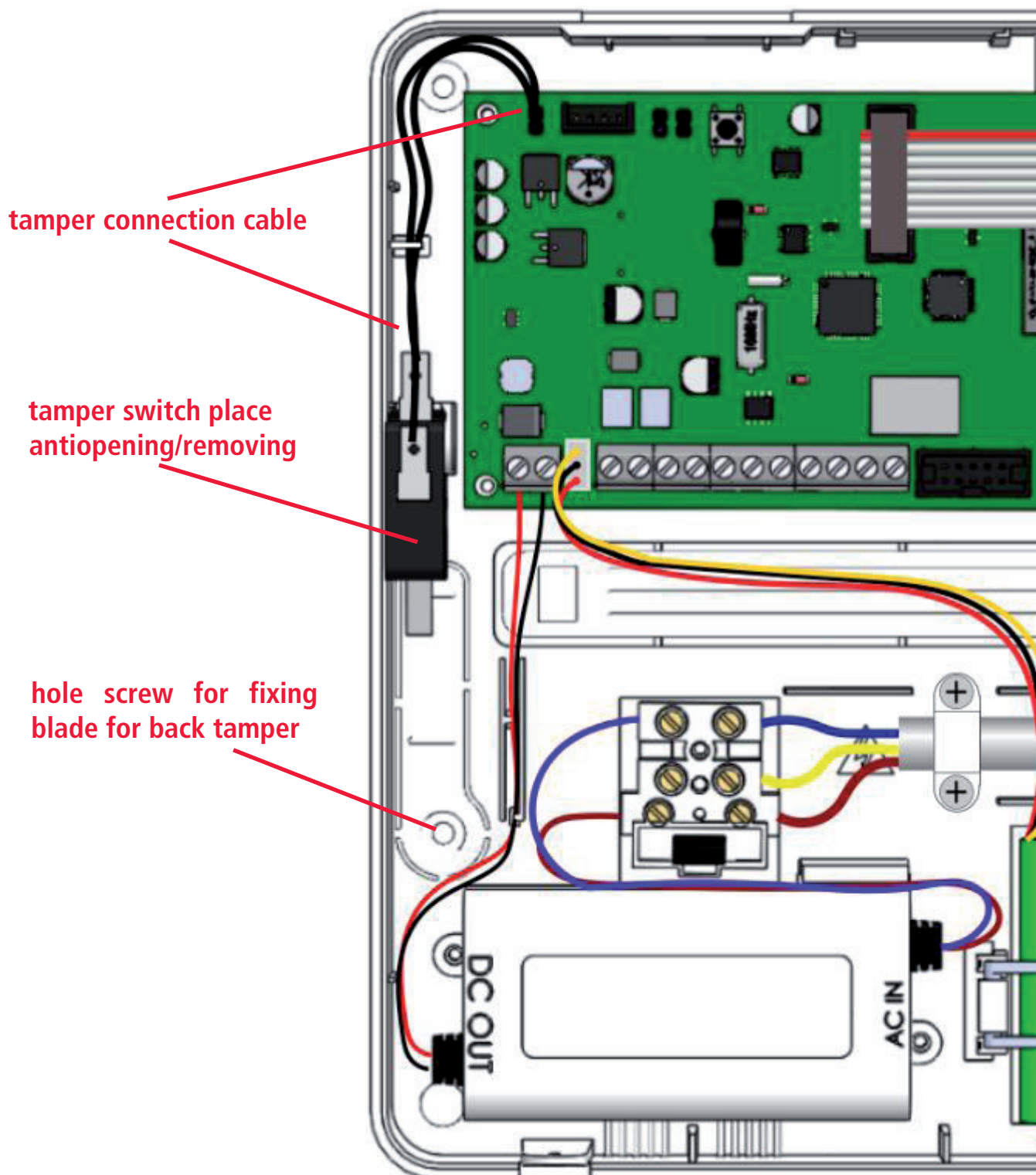
WIRING MAIN POWER AND EARTH

When the box is fixed on the wall proceed for main power cabling:

The power of the panel must be separate, and must be taken from the main power panel of the place.

The power line must be protected by devices of sectioning and protection in accordance with local regulations.

Must be connect after 16A circuit breaker device with operating curve type C, with supply conductors, (including earth), minimum section of 1.5 mm2.   Wiring connection in the panel box must be like in figure below:

- Connect phase, neutral and earth to the fuse housing like in figure
- make sure that the earth connection is like the fig
- fix the main power cable like figure, by using the plastic blade and block with the screw

block main power cable plastic remove from here and use for fix cable
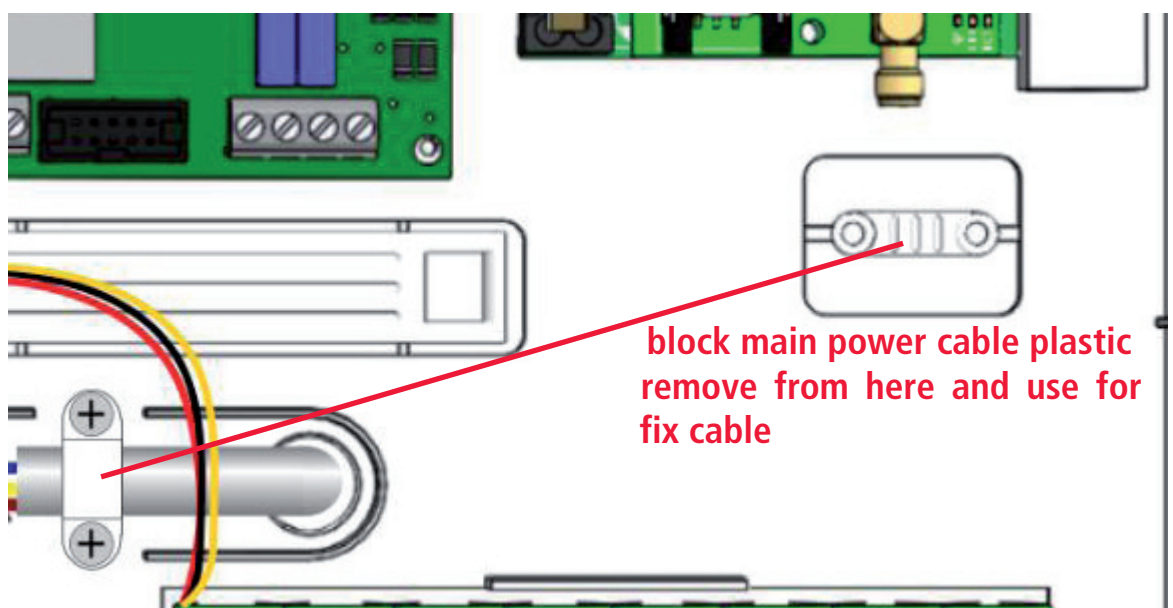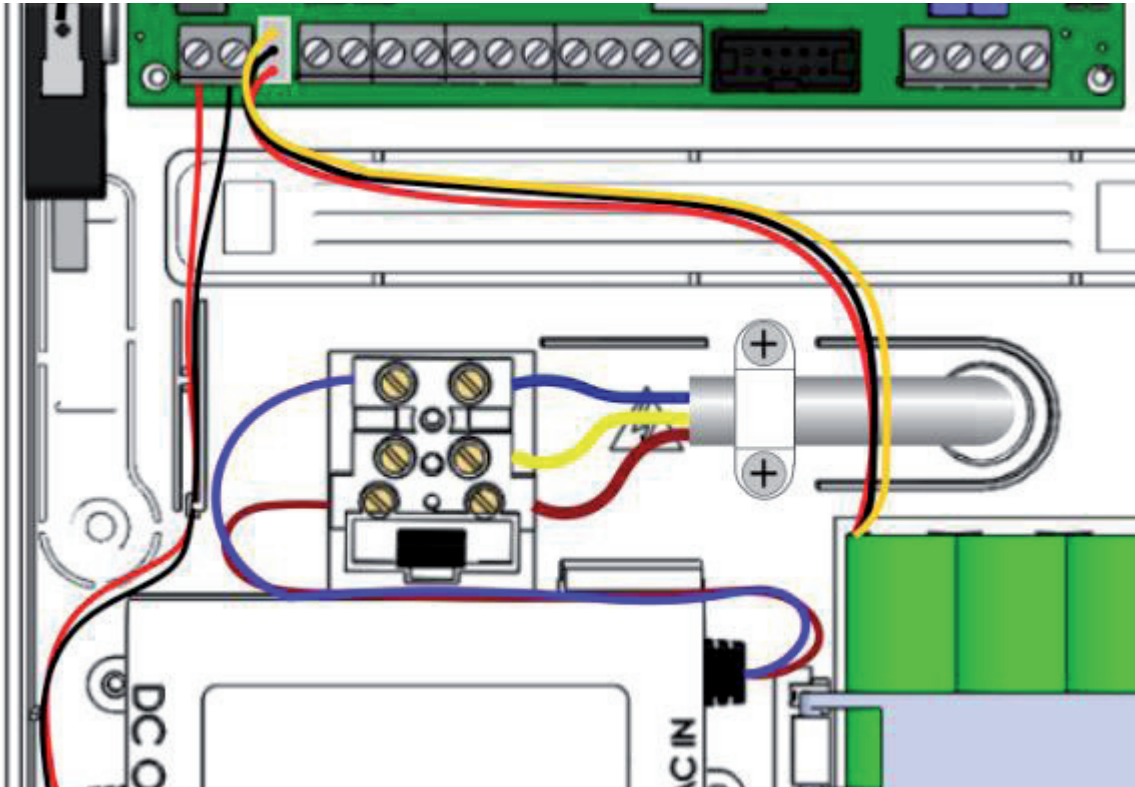
An example of wiring of the system:

IMPORTANT: Pay max attention during the cabling, to avoid electric shock, wiring system without power

Flat cable connection to front panel
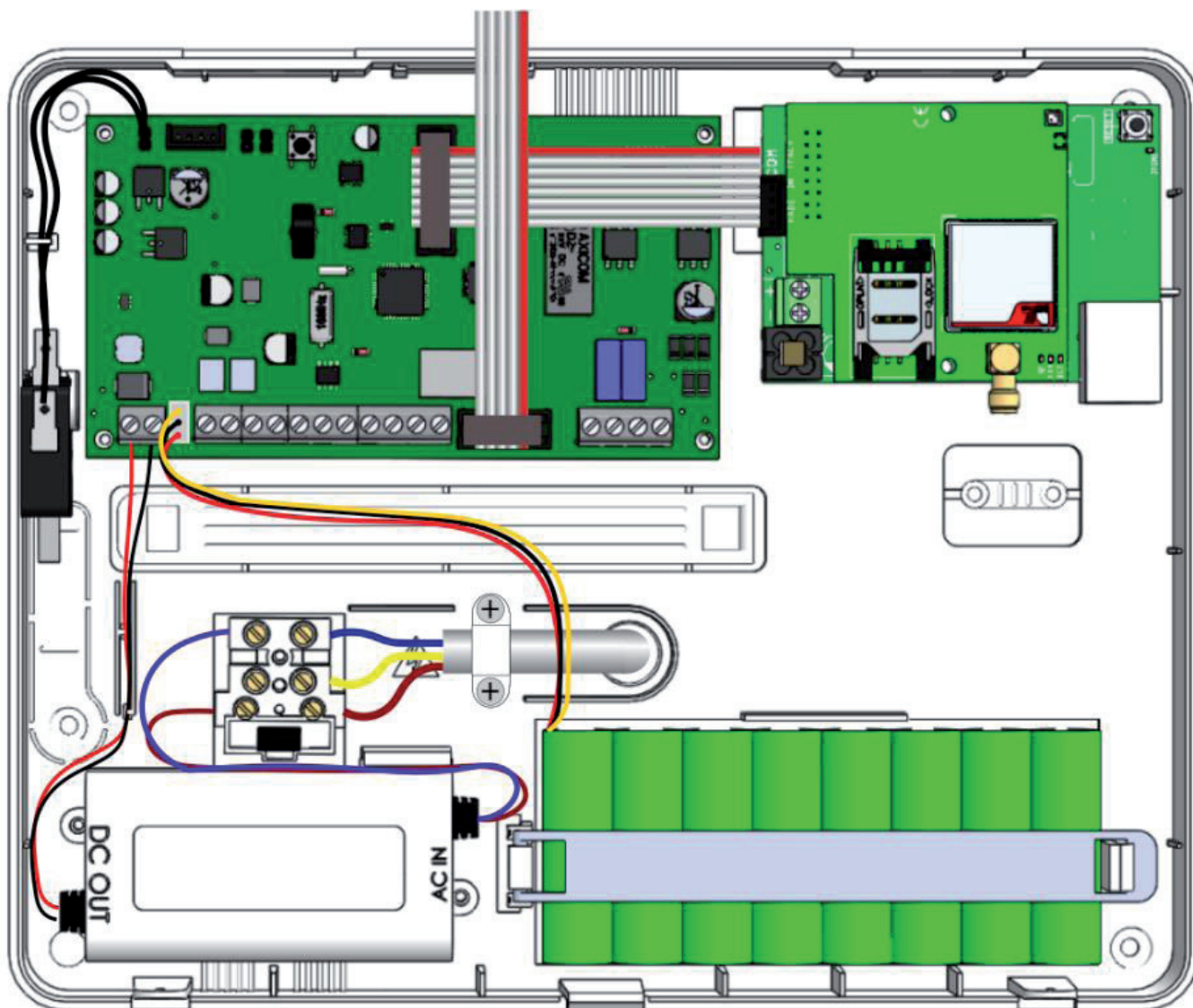
front panel

Flat cable connection to rear panel

int. siren

audio speaker

microphone hole
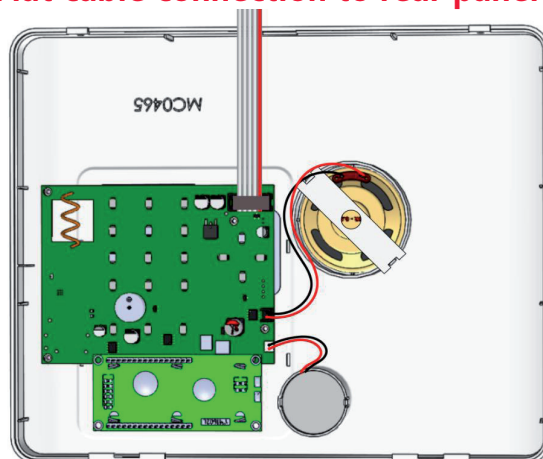
BACKUP BATTERY

The box of panel allows the housing of 9.6V, 2400mAh NiMh batteries with **UL94-HB flammability or higher.**
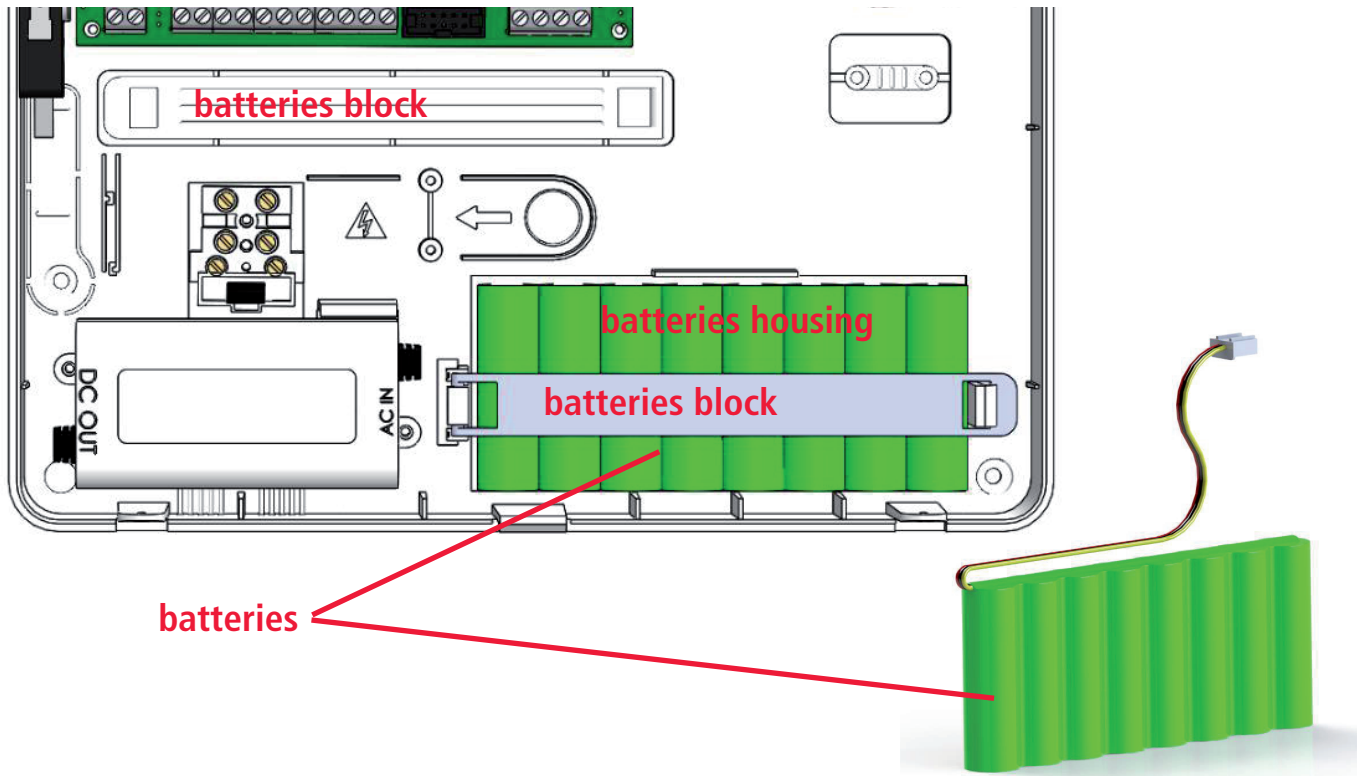
Fix the battery in housing with plastic blade (battery block) in fig.

For connect the battery use the cable with connector see fig.

The battery is the second source of main power of the system, and will work in case of absence of main power 230V.

The system check the status of battery every 10sec. , when the level of battery go down 8.8V the system will notify the discharge battery with a led alert in keypad. When the voltage exceeds 9.6V the system will notify the correct charge of battery.

XR800 MAIN BOARD

tamper connector

programming PC connector

reset & upgrade connector

flat cable for modules X3/gprs and IP1

PSTN work led

PSTN hook led

betteries connector

flat cabel for front panel
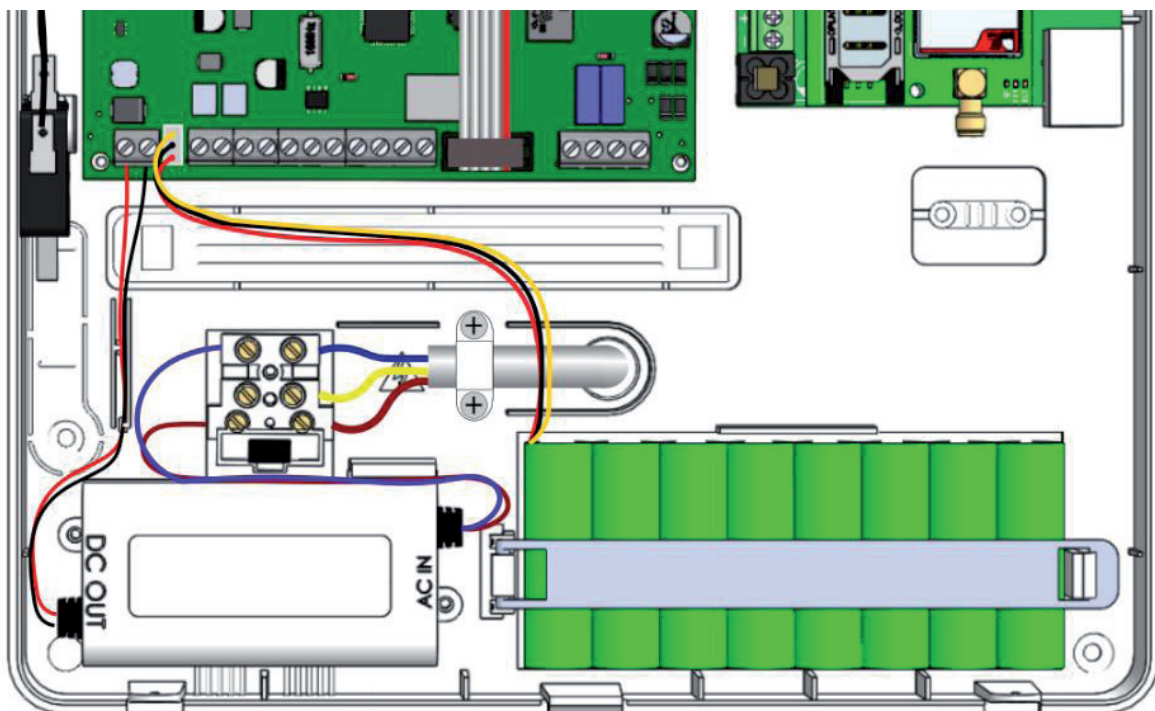
XPANELS TERMINALS

BATT = battery terminals
PWR= main power
IN1 - IN2 = WIRED zones
COM = negative reference for wired zones
PC = adpater socket for programming pc software
LOAD (+ -)= power supply AUX 12 Vcc for external device
A B (RS 485) = bus terminals for peripheral connection (see chapter fo bus connection)
O1= PGM programmable open-collector output 100mA max current
C - NO - NC = PGM programmable free realy out
TAMPER connector = for mechanical antiopening tamper (option)
L1 - L2 = ATS2 phone line terminal outs (carrier out)
T1 - T2 = terminals for internal local telephones (home telephones user)

UPG AND RST JUMPER ON BOARD

These jumpers must remain open
Are used for updating the firmware and total reset of the parameters. The guide for these is in the tool for upgrade FW panel.

LED DESCRIPTION

Led on board:
HOOK LED = red color led is in ON when panel take PSTN line (PSTN HOOK on)
PSTN STATUS LED:
        - STEADY YELLOW: phone line in standby stautus (no problems)
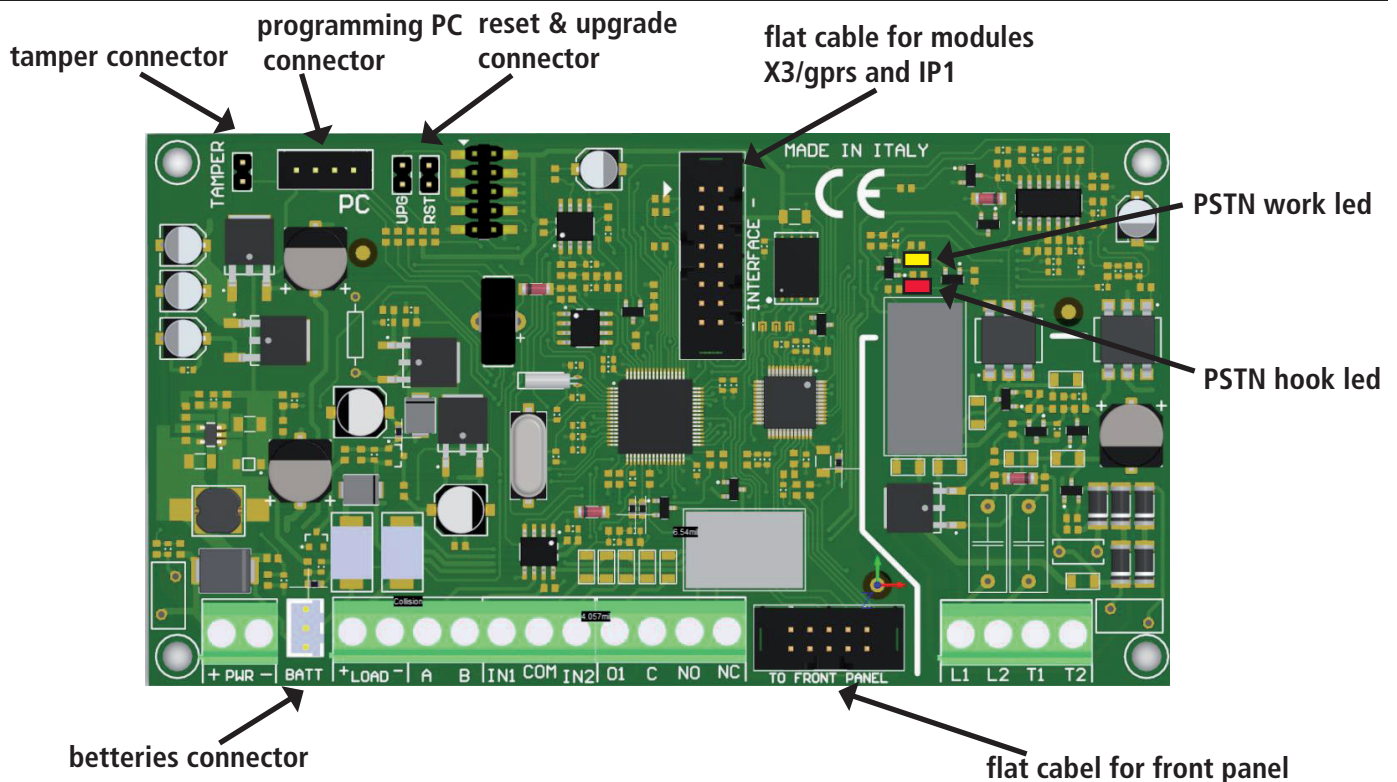   - FLASHING YELLOW : PSTN calling status

WIRELESS SIGNALING LED:
RFI LED = indication of transmission 1 blink for operation (reception and or transmission)
ADDR LED = wireless working indication:
        - flashing = work OK
        - OFF/steady = trouble

IP1 MODULE

IP1 is the module for connect the panel in to the web for AMC Cloud (smartphone app managing), and for sending monitoring station data via web.

Is plugged directly on the main board of panel in SOCKET EXP:

INSTALLATION ON PANEL

Panel with modules

ip board

socket for XGPRS board

XGPRS board

plastic turrets housing for both module mounting
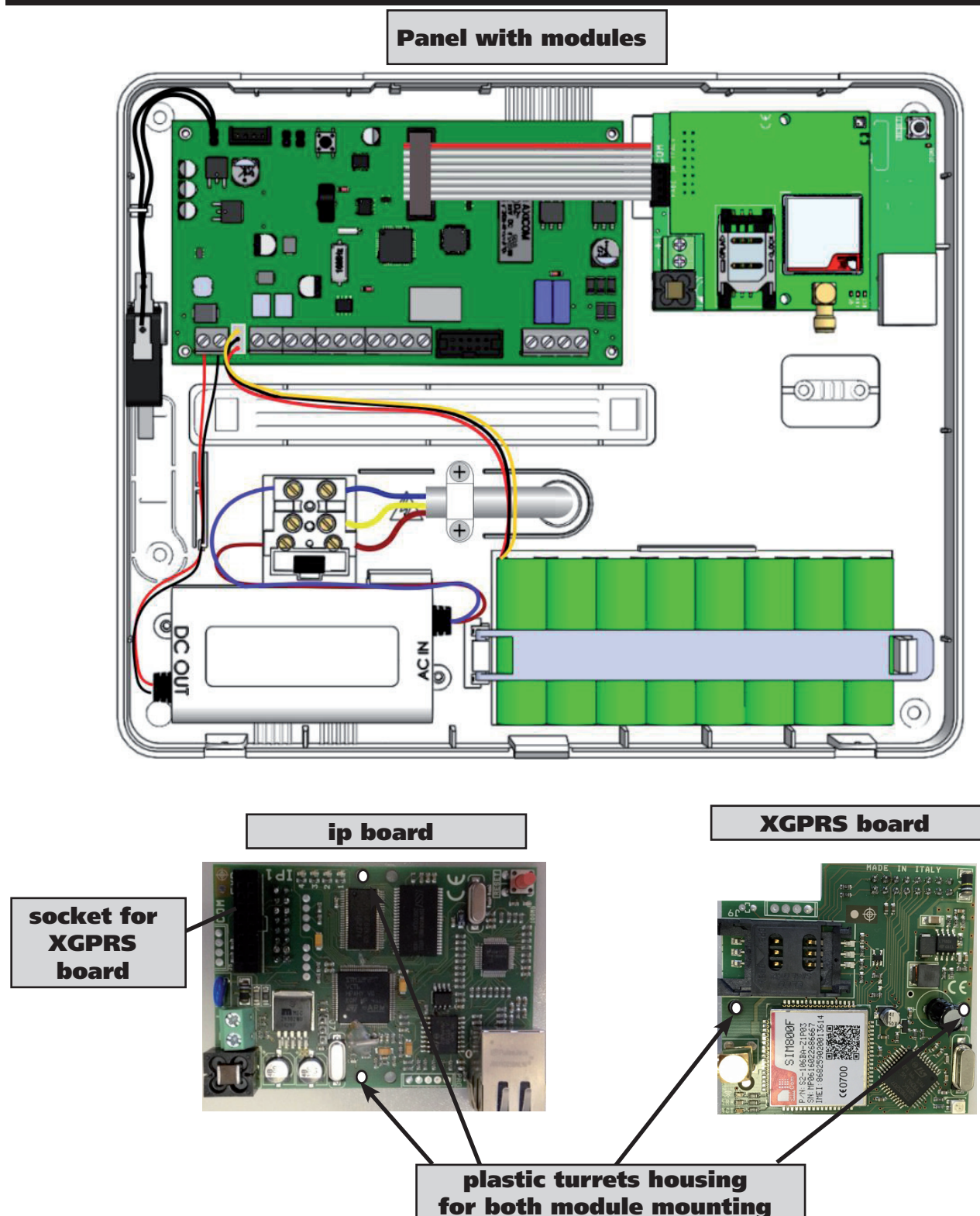
For fixing the IP1 module on the box of panel use the screw conatined in the panel screw kit, for connect use flat cable
For fix X3/gprs module the same of IP1, in case of use both modules: fix for first IP1 module, after fix in socket the X3/gprs module with plastic turrets.

IP1 BOARD DESCRIPTION

Ethernet plug

External power supply needed for upgrade FW

upgradeFW socket

reset button

normal running

Indications led

Socket for Xgprs

SPECIFICATIONS IP BOARD

SPECIFICATIONS	ip board
Power supply:	5-13,8Vcc
Current:	163mA @ 12V
MPU:	ARM® Cortex™-M3
RAM:	512KB
ROM1:	8MB
ROM2:	64KB
SYS:	RTOS v7.2
LAN:	10/100 BASE TX IEEE 802.1x Full Duplex
PROTOCOL:	Base: TCP/IP Encrypt: TLS/SSL Data: AMC Protocol V1.0 for system serie C-X-K
LED:	GREEN ON = OK "comunication to system ok". 　　　GREEN BLINKING = FAIL "no comunication to system" (Enable IP expansion on menu) 　　　YELLOW BLINKING = system running. 　　　RED 1 BLINKING = FAIL to connect to cloud server. "wait to connetting" 　　　RED2 BLINKING = Cable not connect;
BUTTON:	RESET = ONLY LAN BOARD
J7-J9:	**NORMAL RUNING**. 　　　JP7: 1-2 close 　　　JP9: 1-2 close
J7-J9:	**FIRMWARE UPDATE.** 　　　JP7: 2-3 close 　　　JP9: 2-3 close
COM:	DAPTER: COM-S,COM-USB (only for FIRMWARE UPDATE).
classification	ATS3/SP3 refered to EN 50136-2:2013 (*to ensure the classification SP3 the periodic test call must be programmed for work every 30' minutes, or for have classification SP2, the periodic test call can be programmed for work every 25h*)

XGPRS MODULE

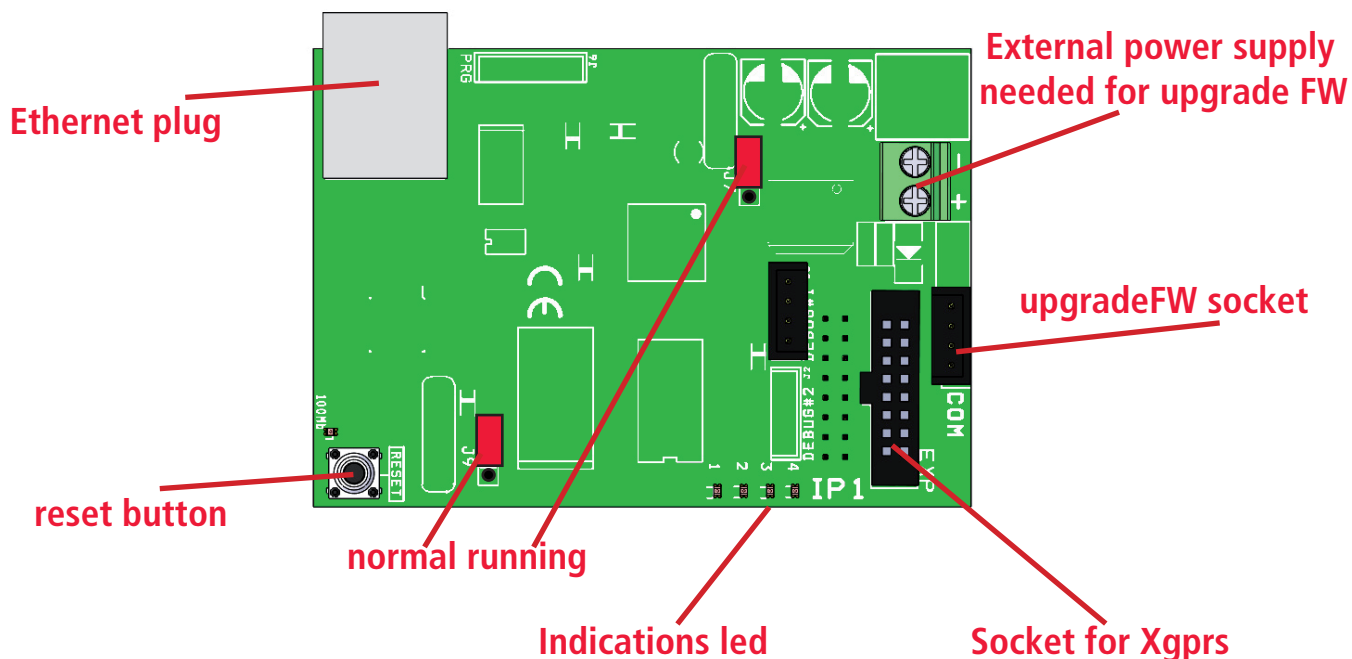X3 is the module for connect the panel in to the web for AMC Cloud (smartphone app managing), and for sending monitoring station data with a GSM data SIM. Is plugged directely on the main board of panel in SOCKET EXP, or on the IP1 socket like a backup for IP1 board. When the X3 is plugged it is possoble choose the priority of message sending (see manual below)

X3 - XGPRS BOARD DESCRIPTION

GPRS status multicolor led

GSM status led

connection socket

Antenna connector

SIM housing
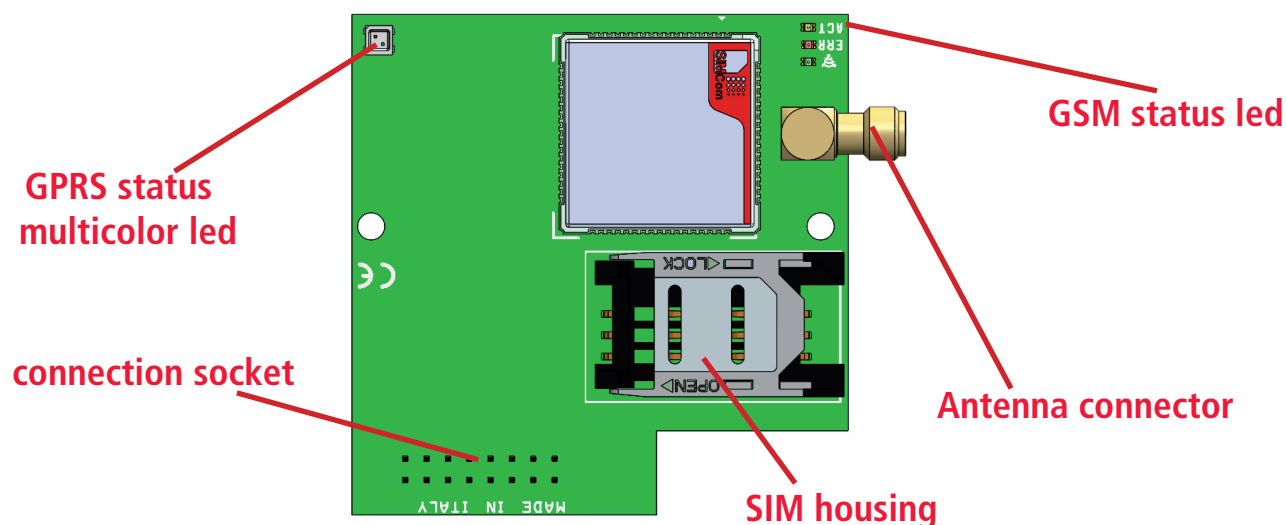
SPECIFICATIONS XGPRS BOARD

SPECIFICATIONS	XGPRS board
Power supply:	Vnom. :13,8Vcc
StandbyCurrent:	50mA @ Vnom.
Max Current	Imax: 380mA
Mobile engine:	SIM800F Quad-Band 850/900/1800/1900MHz, GPRS multi-slot class 12/10,GPRS mobile station class B
GSM	Compliant to GSM phase 2/2+
Classification	ATS3/SP3 refered to EN 50136-2:2013 (*to ensure the classification SP3 the periodic test call must be programmed for work every 30' minutes, or for have classification SP2, the periodic test call can be programmed for work every 25h*)

LED DESCRIPTION

LED	function	action	description
green	signal	1 blink	Low
		2 blink	sufficient
		3 blink	good
		4 blink	excellent
yellow	module activity	OFF	Not Ready
		ON	Ready
		slow blink 1sec.	outgoing call or SMS
		fast Blink 100ms	Ingoing Call
red	inizializazion	OFF	operating coorect
		ON	inizialization error
multicolor	GPRS Status	OFF	not used
		Steady green	ready
		green flash (4")	in use on Cloud
		blink green 100ms	data sending
		1sec. green blink	data receiving
		blink orange 100ms	in connection
		blink orange 1sec.	Cloud comunication for connect
		red steady on	Error initializzation

K LIGHT PLUS (TYPE B DEVICE)

K light plus is a Keypad that be connected to the RS485 bus. It is equipped of 2 line on board that be configured like INPUT and/or OUTPUT. K light plus is used for programming and ARM/DISARM panel, is protected from open and removing from wall.

For fix the Keypad on the wall, use fisher of 4mm. For removing protection fix 1 fisher in the specific hole (see fig.)

Close the shape of keypad with the screw contained in the package (see fig.)
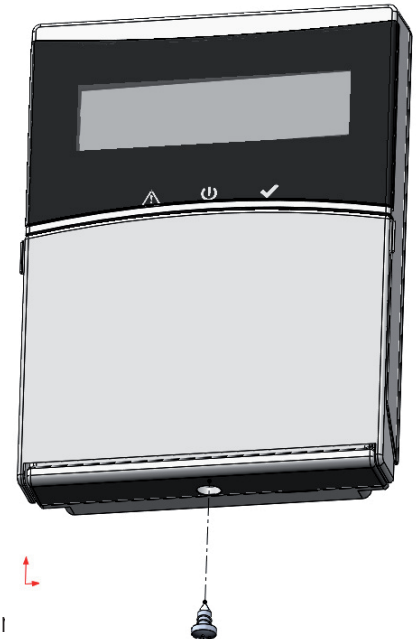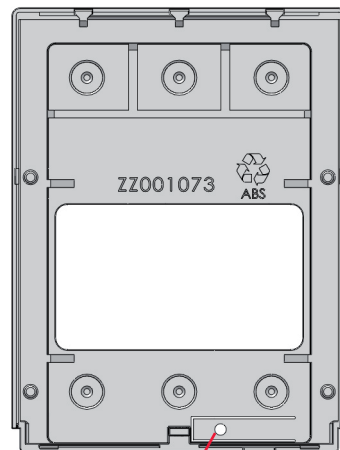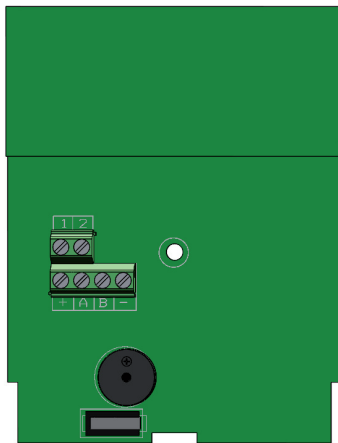
tamper hole

Power supply voltage: 13.8Vdc
Rated current: 25mA
Maximum current: 160mA

+ A B - (RS 485) = bus terminals for peripheral connection (see chapter fo bus connection)
terminal 1 - 2 = terminals that be programmed like input and/or output

K LIGHT (TYPE A DEVICE)

K light is used for programming and ARM/DISARM panel, is protected from open and removing from wall.

For fix the Keypad on the wall, use fisher of 4mm. For removing protection fix 1 fisher in the specific hole (see fig.)

Close the shape of keypad with the screw contained in the package (see fig.) K Light has no input / output terminals.

K LCD (TYPE A DEVICE)

K LCD is a Keypad that be connected to the RS485 bus. K LCD is used for programming and ARM/DISARM panel, is protected from open and removing from wall.

For fix the Keypad on the wall, use fisher of 4mm. For removing protection fix 1 fisher in the specific hole (see fig.)

K LCD is equipped with 4 terminal:
+ A B - (RS 485) = bus terminals for peripheral connection
(see chapter fo bus connection)

knock-out protection tear

fixing holes

fixing holes

cable routing
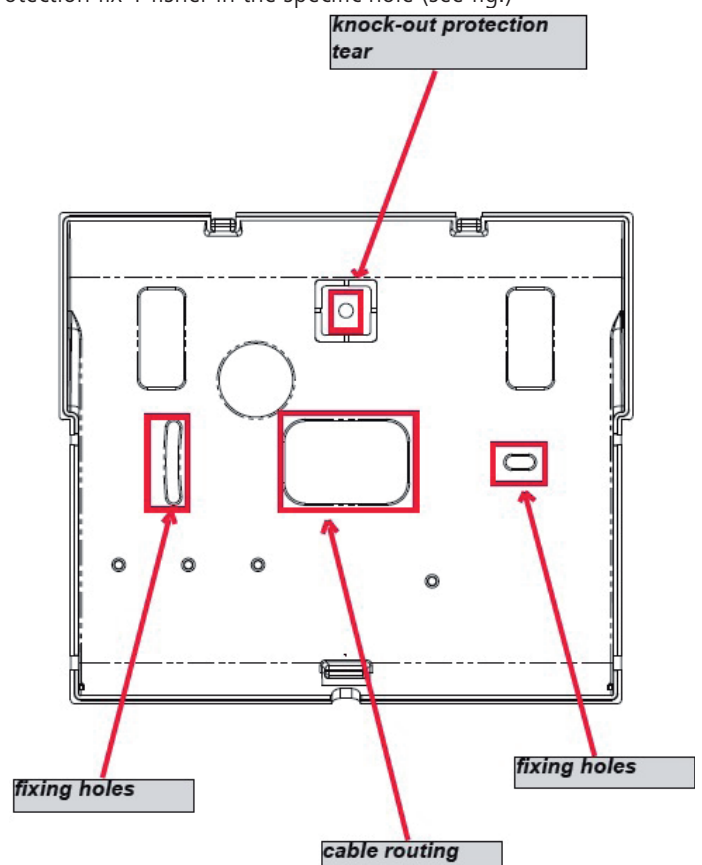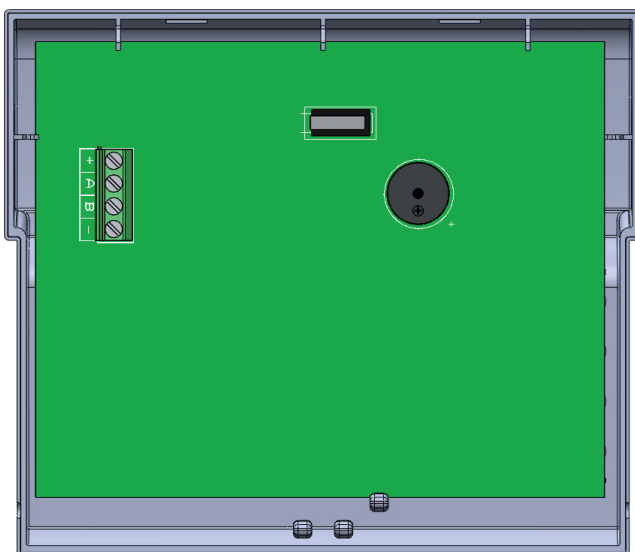
Power supply voltage: 13.8Vdc
Rated current: 25mA
Maximum current: 160mA

K BLUE (TYPE B DEVICE)

K BLUE is a Keypad that be connected to the RS485 bus. It is equipped of 2 line on board that be configured like INPUT and/or OUTPUT. Is used for programming and ARM/DISARM panel, is protected from open and removing from wall.
For fix the Keypad on the wall, use fisher of 4mm. For removing protection fix 1 fisher in the specific hole (see fig.)
Close the shape of keypad with the screw contained in the package (see fig.)

fix holes

tamper tear   open/close screw   cables
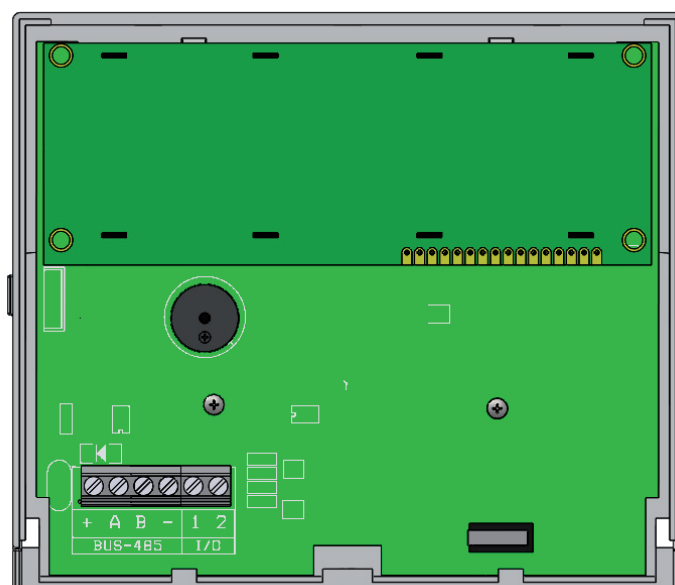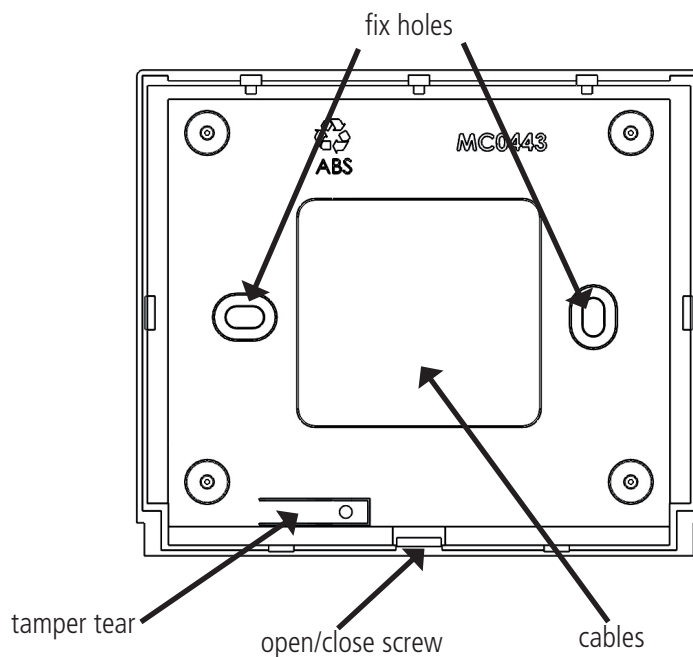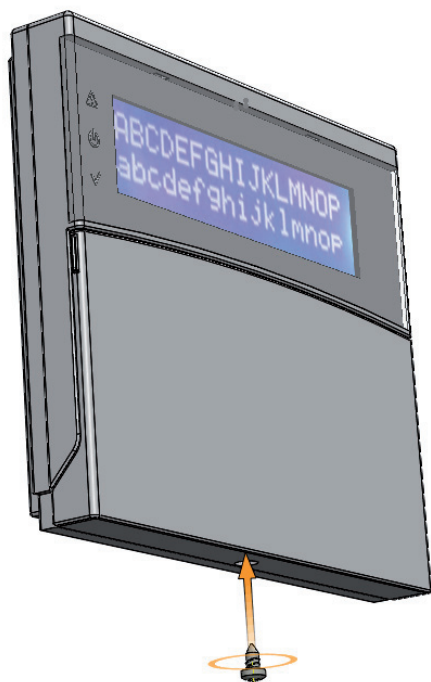
Power supply voltage: 13.8Vdc
Rated current: 35mA
Maximum current: 50mA

+ A B - (RS 485) = bus terminals for peripheral connection (see chapter fo bus connection)
terminal 1 - 2 = terminals that be programmed like input and/or output

UNIKA (TYPE C DEVICE)

Unika is a touch screen Keypad that be connected to the RS485 bus. It is equipped of 2 line on board that be configured like INPUT and/or OUTPUT. Is used for programming panel and ARM/DISARM panel, is protected from open and removing from wall.
For fix the Keypad on the wall, use fisher of 4mm. For removing protection fix 1 fisher in the specific hole (see fig.)
Close the shape of keypad with the screw contained in the package (see fig.)

setup area: press and hold with thin instrument for enter

cable hole

fix holes

tamper

closing screw
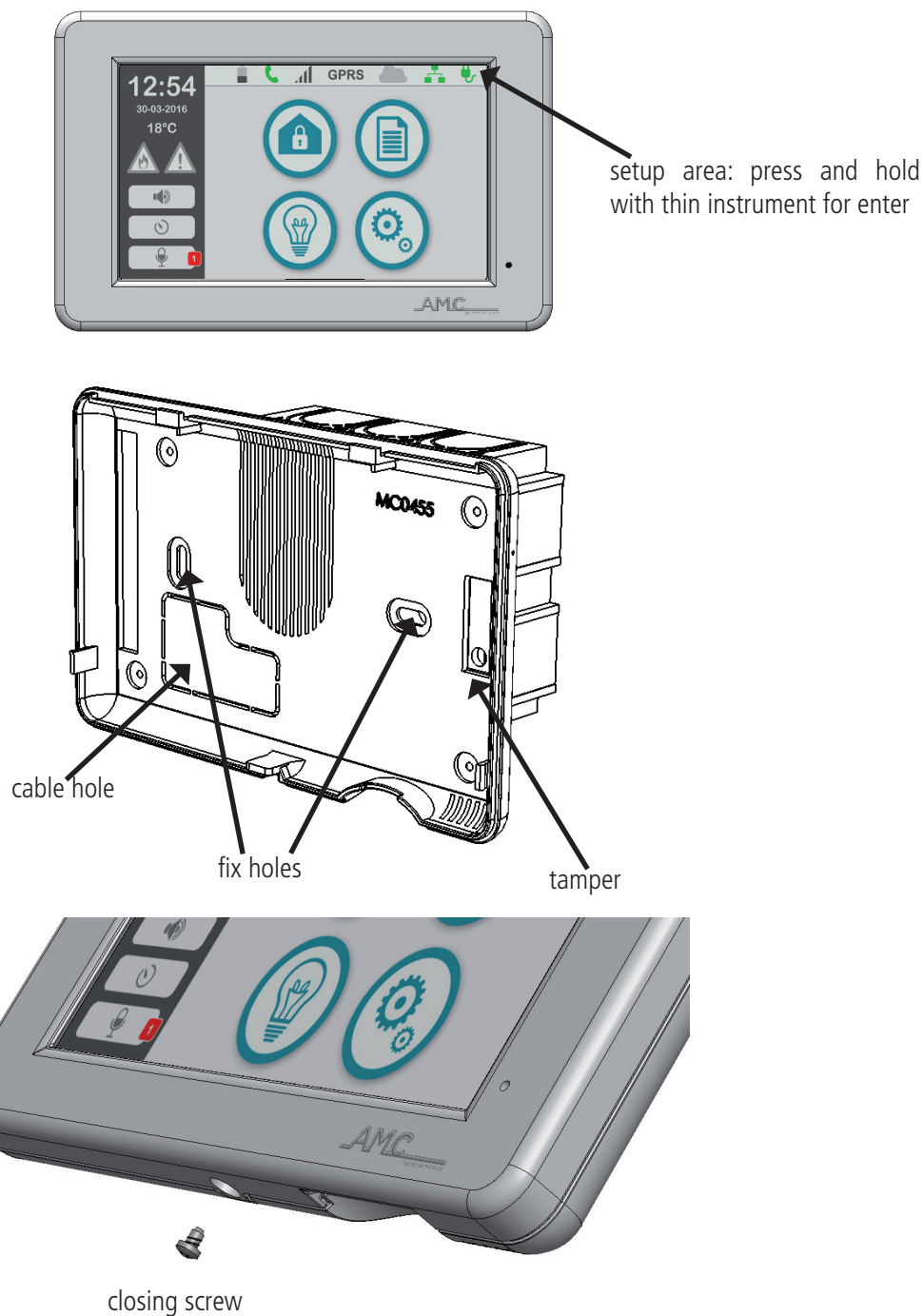
Power supply voltage: 13.8Vdc
Minimum current: 87mA
Maximum current: 105mA

+ A B - (RS 485) = bus terminals for peripheral connection (see chapter fo bus connection)
terminal 1 - 2 = terminals that be programmed like input and/or output

KX MODULES: KXIN - KXOUT

KXin is a module of expansion input. Can be used with the following model of panel:

> **K4 panel** (1 module)
> **K8 panel** (2 modules)
> **K8PLUS panel** (7 modules)
> **X412 panel** (1 module)
> **X824 panel** (2 modules)
> **X864 panel** (7 modules)
> **X64GPRS panel** (7 modules)
> **XR800 wireless combo panel**

KXout is a module of expansion output. Can be used with the following model of panel:

> **K4 panel** (1 module)
> **K8 panel** (2 modules)
> **K8PLUS panel** (4 modules)
> **X412 panel** (1 module)
> **X824 panel** (1 modules)
> **X864 panel** (4 modules)
> **X64GPRS panel** (4 modules)
> **XR800 wireless combo panel**

The expansion modules are contained in ABS protected box.

This modules must be connected directicely to the RS485 bus from panel, most important before power the panel, set the address of each connected module. All module start from addres n° 1.

Eg. if you have 3 connected module the addresses are 1-2-3, if you have another 2 OUT **(KXout)** modules the addresses will be 1-2.

The main features are:

SPECIFICATIONS	KXin	KXout
Supply	10 - 14.5Vcc (nominal 13.8Vcc)	10 - 14.5 Vcc (nominal 13.8Vcc)
Current	31mA@13.8V	75mA@13.8V
Zones	8 for each module	-
Outputs	-	3 free contact relay outputs (30V 1A)
Protection	antiopening / back tamper	antiopening / back tamper
Bus	tamper connections monitored	tamper connections monitored

FIXING HOLES
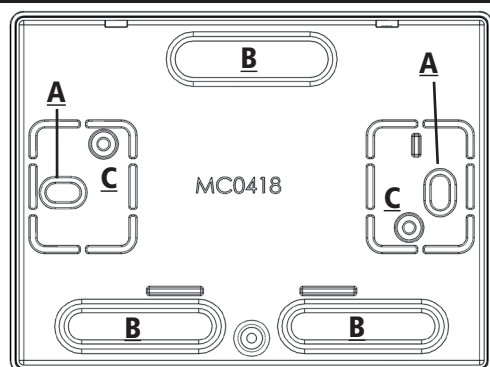
Knock out (where necessary) the points B, for cable entry.
Fix the bottom of the box plastic, with 2 screws at points A
Fix the board at points C
NOTE: The fix points A, also serve for the back tamper system
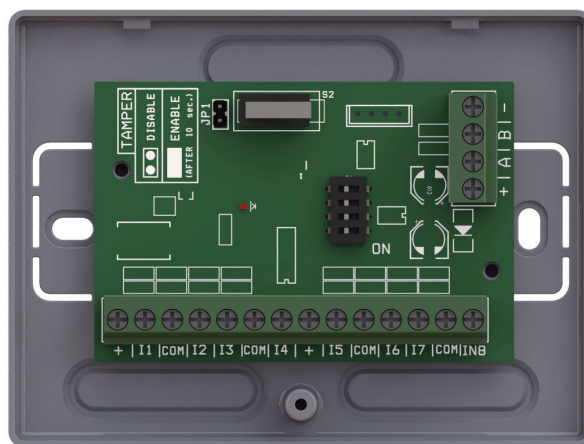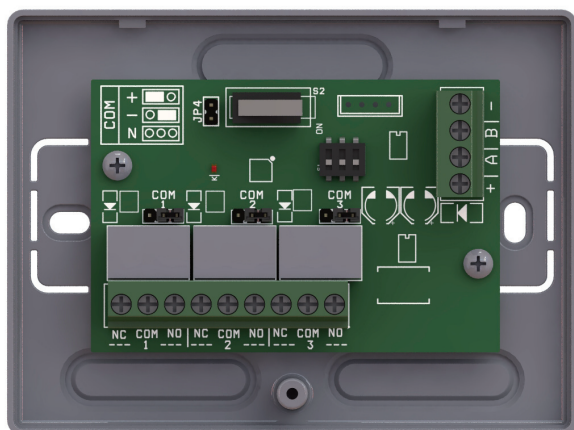
KXin TERMINALS

(+ -) = power supply nominal 13.8 Vcc

+ A B - (RS 485) = bus terminals

+ = out terminal 13.8Vcc

I1-I2-I3-I4-I5-I6-I7-I8 = input terminals

COM = negative reference for inputs

JP1 = jumper for enable or disable opening and back tamper

KXin BOARD DESCRIPTION
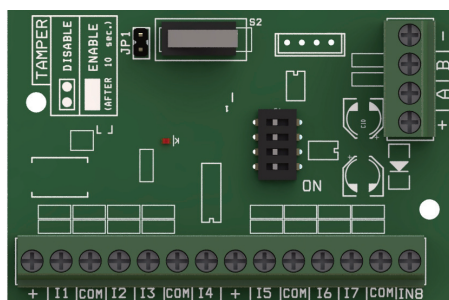
DIP-Switch Configuration

Note: in CONFIGURATION 1 ALL DIPSWITCHES ARE OFF

KXout TERMINALS

(+ -) = power supply nominal 13.8 Vcc

+ A B - (RS 485) = bus terminals

1 - 2 - 3 (NC COM NO) = free realay contact

JP4 = jumper for enable or disable opening and back tamper

jumpers COM 1-2-3 =COM terminal reference

KXout BOARD DESCRIPTION
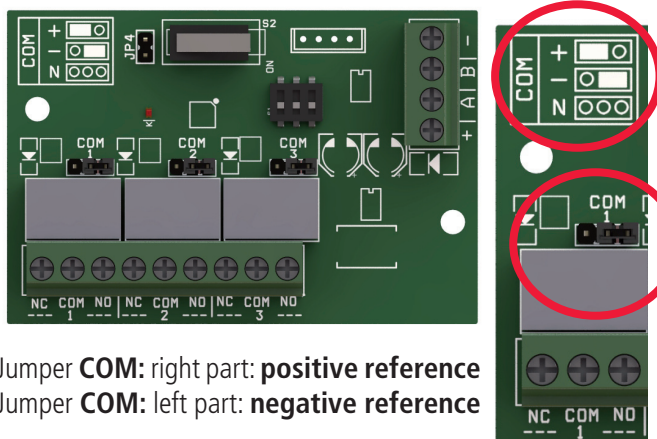
DIP-Switch Configuration

Note: in CONFIGURATION 1 ALL DIPSWITCHES ARE OFF

Jumper **COM:** right part: **positive reference**
Jumper **COM:** left part: **negative reference**

CONNECTIONS - SERIAL BUS

The peripherals (keypads, expansions, sockets, etc.) are connected to the electronic board through an RS485 line, terminals A and B. This connection complies with the generally adopted rules for this type of line. The maximum length of the entire bus section can be up to about 1000m.

When cabling is done over large distances, over 400/500m, certain precautions must be taken:
- It is best to use twisted cables suitable for serial lines
- It is best to connect all the peripherals in cascade (with the traditional enter and exit)
- avoid making too many junctions on the line
- avoid making too many nodes or star connections with several branches

For the use of cables that also have 2 power supply conductors for the peripherals themselves, there are no special precautions. You must keep in mind the consumption level and that the distances do not cause high voltage drops. From the peripherals you can also supply all of the sensors connected to it with no operating problems. The bus supply terminals supply 12Vdc - 500mA protected by an independent, self-resetting fuse.

If connecting supplementary power supplies, remember that the negatives must always be in common and that the technical characteristics must be identical to those provided by the manufacturer (see the technical data)

note: all of the devices that can be connected START WITH ADDRESS 1 (ex. keypad 1 - socket 1 - expansion 1 - expansion 2)

CONNECTIONS - LOADS

The voltage supplied is 12Vdc. with 500mA see the electric spcification.

CONNECTIONS - OUTPUTS

All outputs are the OPEN - COLLECTOR type, with a maximum current of 80mA. For connection to the O.C. outputs, the closure is negative and the current, as mentioned above, is a maximum of 80mA. It is therefore considered to be an open output when not closed/connected to negative. For relay connections or other types of low absorption loads, use a positive as reference (positive supplied on the output group terminal) or any positive that has the negative in common with the one on the control unit.

You can also use the outputs with the PULL UP resistors (value 1K) to vary the reference voltages, ex. to have positives and negatives that change based on a certain programmed event.

TAMPER SWITCH KEY

The board is also equipped with a TAMPER terminal. To be used, with the tmper package (see instruction) Afterwards, enable the protection from the related menu (other parameters)

PC CONNECTOR

There is a 4-pole connected on the board called PC. This is for programming the control unit using PC Software. For programming you must use the optional COM S accessory.

Refer to the specific paragraph for details.

PERIPHERALS THAT CAN BE CONNECTED

K-LIGHT

Up to a maximum of 8 keypads can be connected.

The keypads must be connected to the BUS-485 line with the respective terminals A, B, +12V and -.

After power, the keypad automatically configures the address (visible directely in LCD). For modify the address press in the same time **X** and **V buttons** (see the istruction for K-LIGHT)

K-LIGHT PLUS

Up to a maximum of 8 keypads can be connected.

The keypads must be connected to the BUS-485 line with the respective terminals A, B, +12V and -.

After power, the keypad automatically configures the address (visible directely in LCD). For modify the address press in the same time **X** and **V buttons** (see the istruction for K-LIGHT)

In K-light plus there are 2 line that be programmed like input and/or output. See on Peripheral menu how to program these terminals. It is possible use these zone in all place except on board (eg. on panel from 01 to 08 is not possible, it is possible from zone 09). For output configuration you can increase the total number of output from panel that is connected (k light plus).

K-BLUE

Up to a maximum of 8 keypads can be connected.

The keypads must be connected to the BUS-485 line with the respective terminals A, B, +12V and -.

After power, the keypad automatically configures the address (visible directely in LCD). For modify the address press in the same time **X** and **V buttons** (see the istruction for K-LIGHT)

In K-Blue there are 2 line that be programmed like input and/or output. See on Peripheral menu how to program these terminals. It is possible use these zone in all place except on board (eg. on panel from 01 to 08 is not possible, it is possible from zone 09). For output configuration you can increase the total number of output from panel that is connected (k light plus).

UNIKA

Up to a maximum of 8 keypads can be connected.

The keypads must be connected to the BUS-485 line with the respective terminals A, B, +12V and -.

After power in necessary set the address in kpad: press with a thin instrument (ex. screwdrive) the right top angle of touch display (see fig. on page of description UNIKA).

In UNIKA there are 2 line that be programmed like input and/or output. See on Peripheral menu how to program these terminals. It is possible use these zone in all place except on board (eg. on panel from 01 to 08 is not possible, it is possible from zone 09). For output configuration you can increase the total number of output from panel that is connected.

INPUT EXPANSIONS "KXIN"

The control unit has inputs, which can be expanded by using the optional Expin module.

The module must be connected to the BUS-485 line with the respective terminals A, B, +12V and -.

Before providing power to the system, in order to differentiate the peripherals, you must address them using their microswitches (DIP-SWITCHES), referring to the following figure.

1 *DIP-Switch Configuration*
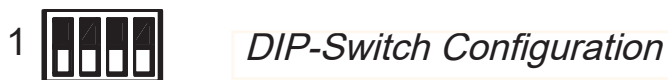
Please Note: in CONFIGURATION 1 ALL DIPSWITCHES ARE OFF

OUTPUT EXPANSIONS "KXOUT"

The control unit has outputs, which can be expanded by using the optional Expus module.

The module must be connected to the BUS-485 line with the respective terminals A, B, +12V and -.

Before providing power to the system, in order to differentiate the peripherals, you must address them using their microswitches (DIP-SWITCHES), referring to the following figure.

DIP-Switch Configuration

1   2   3   4

Please Note: in CONFIGURATION 1 ALL DIPSWITCHES ARE OFF

For the use of O.C. outputs, refer to the manual, paragraph CONNECTIONS - OUTPUTS.

Please Note:
in CONFIGURATION 1 ALL DIPSWITCHES ARE OFF

1   2   3   4

Programmable signalling LEDs
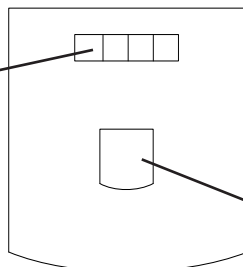
Courtesy LEDs notify of key reading and remain lit to indicate that the reader is processing the operation. You can move the key close to it again once the lights go out.

How it is used:

Move the tag close to the internal frame on the reader. The courtesy lights and arming signalling LEDs will light up at the same time to indicate the chosen program. Move the key away when the chosen arming type is displayed. (total, partial 1, etc.)
NOTE: all tampers must be closed for the device to operate properly

PROXIMITY SMALL

Please Note: in CONFIGURATION 1 ALL DIPSWITCHES ARE OFF

1   2   3   4
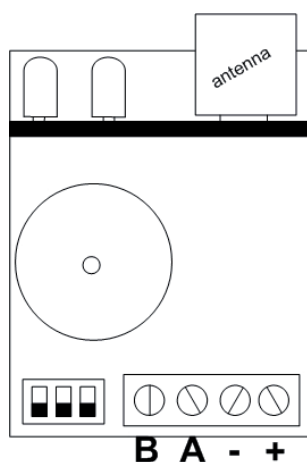
How it is used:

Bring the tag near the key reading area (see fig.) on the reader. The arming signalling LEDs will activate to indicate the chosen program. Move the key away when the chosen arming type is displayed.

AS   AD
LED
BS   BD

KEY
Reading
area
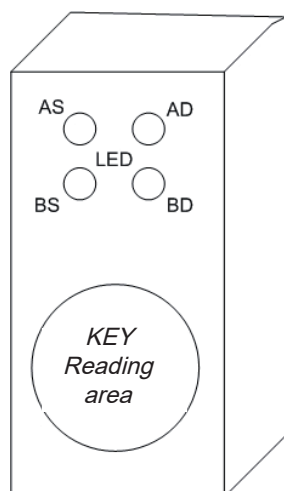
IMPORTANT: individual LEDS for each type of reader can be freely associate with each partial. Therefore, you can have readers with LEDs that activate different programs depending on their position in the site to be protected

WIRELESS REMOTE MODULE

EXPR800 DESCRIPTION

EXPR800 is a 56 device wireless receiver that be used in K series and X series panels. In this way will be possible have a hybrid alarm system. The connection with panel is the same for all peripheric (keypad, input module, output module etc.)
Characteristics:
- Wireless Digital Transmission FSK
- Transmission on 124 bits AES rolling code
- 56 programmable wireless device (32 sensors, contact, etc. 20 keyfob 4 wireless sirens)
- Antiopening/Antiremoval TAMPER and line bus tamper

TERMINALS = + - power supply from Panel, A B, teminal of bus RS 485 from Panel
SIGNALING LED: RFI indication of transmission and reception, ADDR Aaddress on bus.
TAMPER: protection for opening and removing
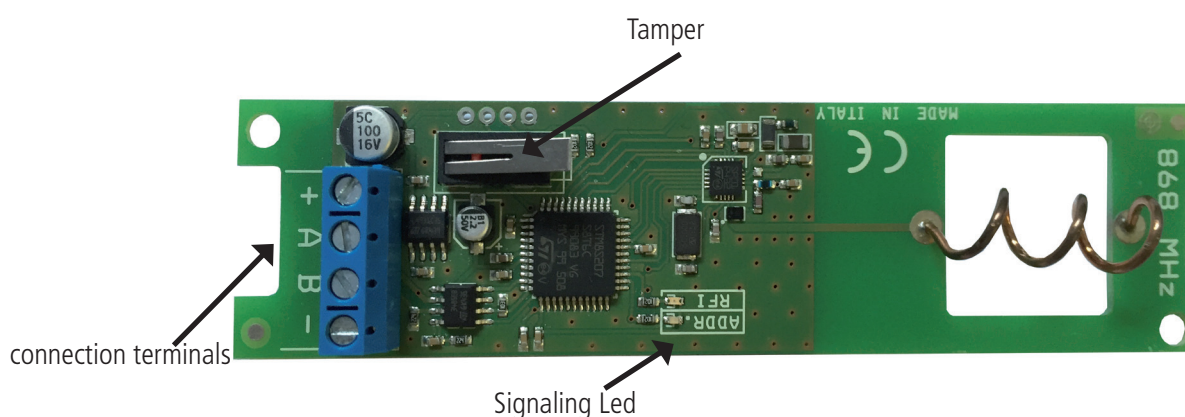
EXPR800 must be connected in to the + - A B terminals in panel, for enabling the board go in peripheral menu from panel.
 Reset hardware procedure: it's possible reset the board directely from panel menu, but is possible reset direst on board:
- Turn OFF power and disconnect A & B terminals
- re power with tamper open, the LED ADDR and RFI start to slow blink alternately
- **close and open tamper,** the led combination start to increase the alternately blink, when they stop the board is reset

EXPR800 WALL INSTALL

Remove the board from the shape, fix the bottom of shape in needed position with 5mm fisher, route the cables in the appropriate hole, fix the board, close the shape and check if is the TAMPER blade is closed.

EXPR800 SPECIFICATIONS	
Measures	L77 H36 P20 mm
Power volatge	13.8 Vcc
Consumption	33mA
Maximum consumption	63mA
Frequency	868.3 MHz
Environmental Conditions	da +0°C a +40°C

K-RADIO 800 (LCD KEYPAD WITH INTEGRATE WIRELESS MODULE)
EXPR800 DESCRIPTION

Kradio800 is a keypad with 2 wired terminal that be configured like input end/or output, and 56 device wireless receiver that be used in K series and X series panels. In this way will be possible have a hybrid alarm system. The connection with panel is the same for all peripheric (keypad, input module, output module etc.)

Characteristics:
- Blu LCD 16x2 characters keypad
- 2 wired terminal the be programmed like input and/or output
- Wireless Digital Transmission FSK
- Transmission on 124 bits AES rolling code
- 56 programmable wireless device (32 sensors, contact, etc. 20 keyfob 4 wireless sirens)
- Antiopening/Antiremoval TAMPER and line bus tamper

TERMINALS = + - power supply 13.8V from Panel, A B, teminal of bus RS 485 from Panel
SIGNALING LED: RFI indication of transmission and reception, ADDR Aaddress on bus.
JP1: jumper for change the address bus of wireless receiver
TAMPER: protection for opening and removing

LCD display

Antenna

buzzer

connection terminals

Signaling Led

Tamper

address change jumper
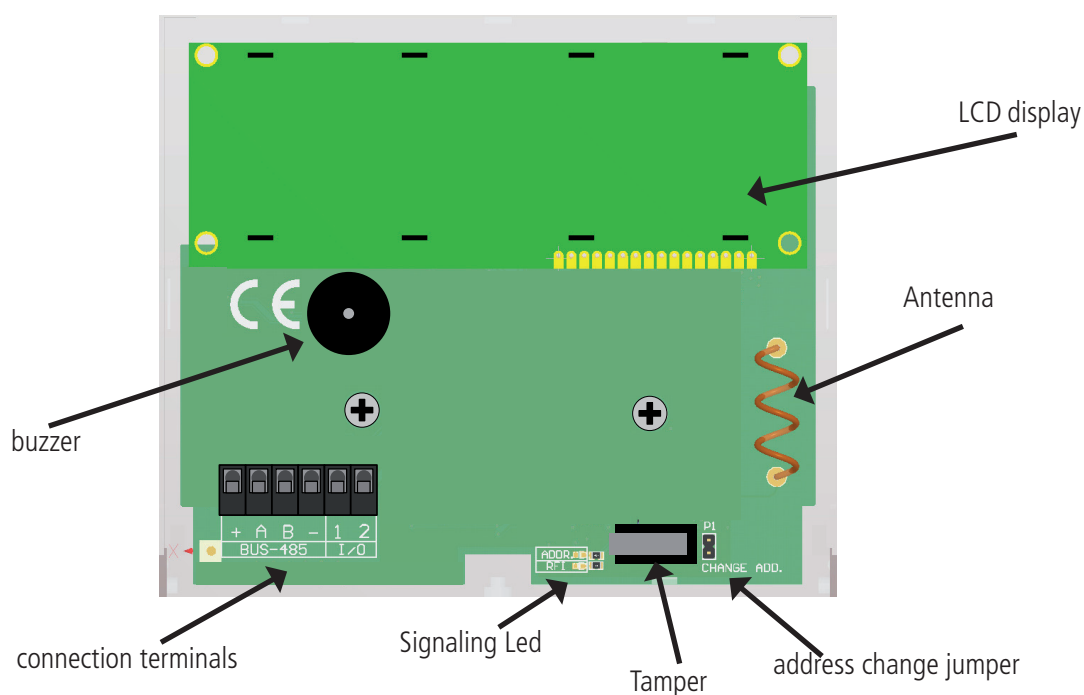
K-Radio 800 must be connected in to the + - A B terminals in panel, for enabling the board go in peripheral menu from panel.
 Reset hardware procedure: it's possible reset the board directely from panel menu, but is possible reset direst on board:
- Turn OFF power and disconnect A & B terminals
- re power with tamper open, the LED ADD and RFI start to slow blink alternately
- **close and open address,** the led combination start to increase the alternately blink, when they stop the board is reset

K-RADIO800 WALL INSTALL

Remove the board from the shape, fix the bottom of shape in needed position with 5mm fisher, route the cables in the appropriate hole, fix the board, close the shape and check if is the TAMPER blade is closed.

fix holes

tamper tear

open/close blade

cables
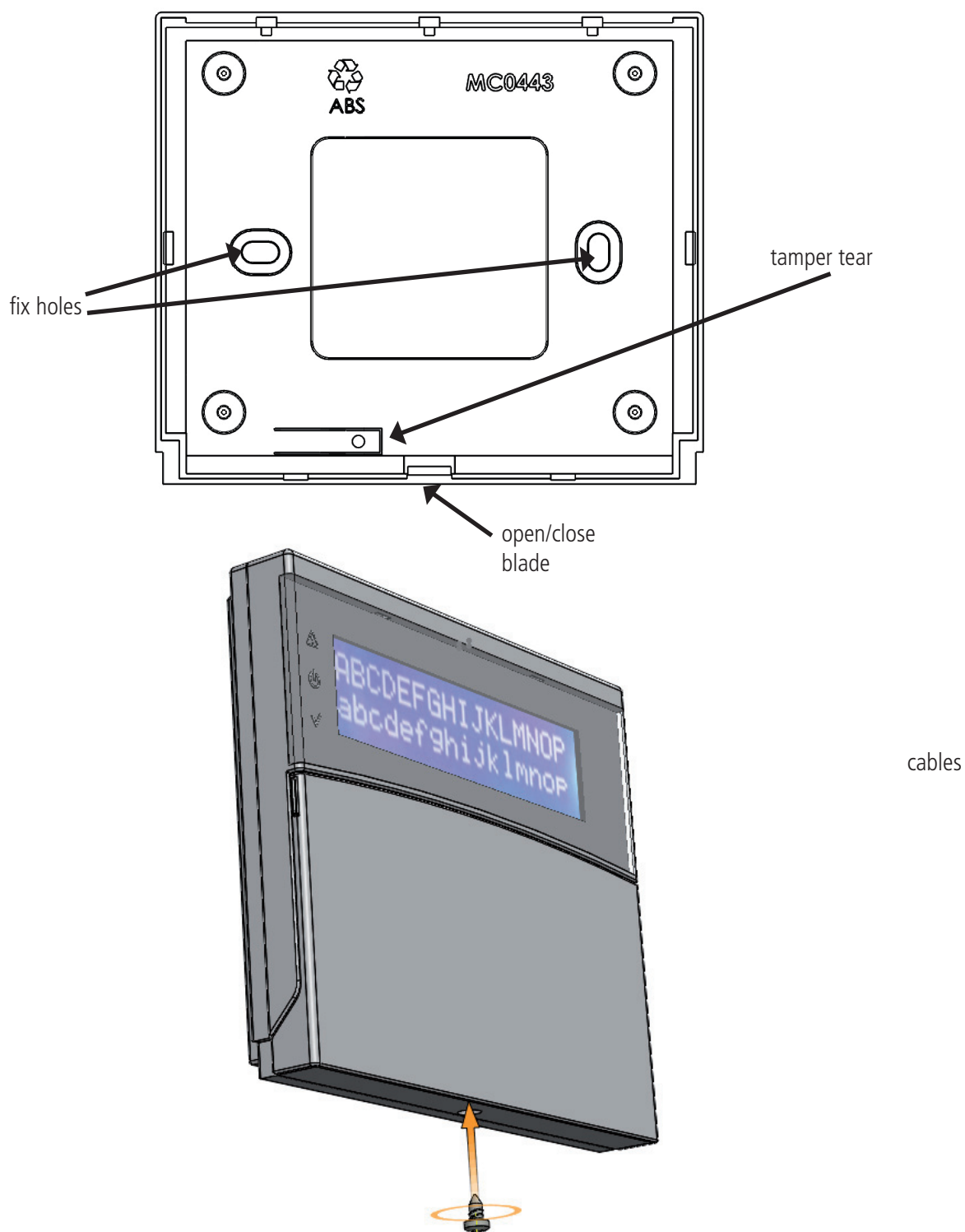
EXPR800 SPECIFICATIONS	
Misure - Measures	L77 H36 P20 mm
Power volatge	13.8 Vcc
Consumption	43mA
Maximum consumption	112mA
Frequency	868.3 MHz
Environmental Conditions	da +0°C a +40°C

FIRST START UP

When all the connections are complete, especially those tied to the serial bus, you can power up the control unit.

When you remove power from the control unit, you will not lose any data, including the date and time.

With Panel powered, check the following:

- Keypad on board must communicate properly with the base.
- make sure that the control unit has no system error notifications such as no battery or no 220Vac, etc. You can check this through a quick consultation of the notifications by pressing the X key once followed by an enabled code. (default: MASTER 111111).

Note: pressing the X key will give you other system information (battery status, power supply, model, FW and HW version, cloud status, data staus etc.)

STARTING RESET

If you want RESET the control unit back to the starting condition, you can do different reset types:

- general parameter reset
- user code reset
- event reset (operation can only be performed by the manufacturer)

To perform the reset you must know the installer code.

For details, consult the specific paragraph in this manual.

DISARM KEYPAD STATUS

With disarmed pannel it is possible to see at LCD the status of the zones not ready, also the troubles (battery low, power supply, GSM and data problems).

Pressing the X button, it is possible to see FW and HW version, GSM signal, and much more info from system.

PROGRAMMING (FROM KEYBOARD)

ENTER PROGRAMMING MOVE TO THE MENU

The control unit programming logic is the same as all the control units from previous series:

- ENTER INSTALLER CODE and confirm with enter key **(V)**
- CANCEL key **(X)** = for delete wrong codes and activate and deactivate assignment square when flashing
- Arrow keys UP - DOWN - RIGHT - LEFT = movements between vertical menus, horizontal zone/output selection, etc.
- Esc. button and > key = exit menu, switch to previous menu and sometimes the same function as the RIGHT arrow.
- G button = quick arming **(only with remote keypad)**
- Alphanumeric keys = data insertion, names, etc.

THE DEFAULT INSTALLER CODE IS 000000
THE DEFAULT MASTER USER CODE IS 111111

EN 50131 CONFIGURATOR

The option EN50131 configurator is an automatic tool that change all parameters necessary to have the panel configured for EN 50131 approval. This Parameter is on OTHER PARAMTER menu, for enable the configurator switch from 0 to 1 the value, and the following parameters become like the following list:

- the otption Autoexclusion for zones is disabled
- disabled the option that show not ready zones in display, for see this information needs user code
- All wired zones become duobble EOL protection
- Exit/Entry time is set with max time 45"
- Enable block arming for: (no power, no PSTN, no GSM, Battery low, all types tamper, trouble interconnections, wireless supervision)
- Information about STATUS of panels, LED, and zones are shown only in the first 30" during arming, after this time will be obscured
- the Info about GSM signal, FW & Hw version, PSTN status, battery, main power, are shown only under user code
- All function and info about alarm in keypad are obscured, it is possible see information only with user code
- Installer access (level 3 user) must be enabled from user code (level2)
- the Timer arming is provided of 1 minute before signals of pre arming
- For all zones that be excluded is enabled the autoinclusion function when the zones return ready
- The manipulation signal, when the system is disarmed, trig only internal siren
- During in entry time, if one sensor with immediate alarm function is triggered, immediately start external siren but the messages about it start after 30". If in this 30" time the user disarm the panel the message will be not delivered.
- If the zone with ENTRY/EXIT function remain not ready at finish the exit time, the panel block the arm and show in keypad
- Every time the panel stop arming procedure for trouble, in keypad display appear the cause that block, and start sound for 60" second. For stop sound alert set the user code.

PERIPHERALS MENU

Menu used to activate the peripheral devices attached to the bus:
- keypads
- tag reader
- remote input modules
- remote output modules
- wireless modules (1 integrated, amother via bus)

Important: enable only the peripherals actually connected to the RS 485 bus

The peripheral assignment logic is represented with a square activated in the related menu while a dot means the peripheral is not enabled (fig.)

```
Keypad      12345678
ON/OFF      ■■■ · · · · ·
```

As you can see in the figure, keypads 1 - 2 - 3 are enabled while the rest are not.
- digit the installer code
- Use the vertical arrow keys to select the specific menu (see title)
- Press ENTER to enter. Select the specific menu using the vertical arrow keys.
- Press and confirm with ENTER until the peripheral cursor flashes
- Use the horizontal arrow keys to select the number of the desired peripheral
- Use the CANCEL key to select/unselect
- Confirm with ENTER
- Use the # or ESC. key to exit the menu

Repeat the operation for all types of peripherals you wish to enable

For keypads and tag reader, you can enable the buzzer in various ways:

K = key sound
< = Input times
> = Output Time
A = Chime

```
Keypad 01      K<>A
Sound          ■■■ ·
```

The enabling method is the same. In the example in the figure, the key sound was enabled along with the input and output times.

K LIGHT PLUS TERMINAL PROGRAMMING

K light has 2 terrinal on board that be used like input and or outputs. For programming these teminal is necessary select the following menu from peripheral menu:

```
In / Out Keypad 01
1 - OFF      2 - OFF
```

When is selected (by press enter) one terminal, that start to blink, with vertica arrow is possible select if that terminal will be input or output and the postion (see figure)

```
In / Out Keypad 01
1- IN 09  2- IN 22
```

In the figure above the terminal 1 is a input in 09 place, the terminal 2 is input at place 22

```
In / Out Keypad 01
1- IN 09  2- OUT 05
```

In the figure above the terminal 1 is a input in 09 place, the terminal 2 is an output at place 05

After this configuration go in the input and/or output parameter and program like a normal zone or output

MENU OF TELEPHONE NUMBERS

PROGRAM THE TELEPHONE NUMBERS

There are 8 phone numbers available that can be freely associated to the individual inputs and all available events.

> **TEL.number   [01]**
> **00033445856456**

Go to the telephone number menu

Press ENTER when the cursor flashes, insert the telephone number using the number keys.

Right or left arrow key to move within the number

Use the CANCEL key to delete

Confirm with ENTER

PROGRAM THE TELEPHONE PREFIX

For each number it is possible to set 2 different type of prefix, one for PSTN and another for GSM.

The PSTN one is used for exit from telephone exchange (eg. 0 pause number)

Thr GSM one has 3 characters and is used in case of diffrence of prefix between PSTN number and GSM number.

> **PREFIX TEL   [01]**
> **Pstn ( ) GSM (   )**

Go to the telephone number menu

Press ENTER and with vertical arrow select number

press ENTER with orizz. arrow select where put the prefix (PSTN or GSM)

Confirm with ENTER

PROGRAM THE TELEPHONE OPTION only X series

There are 3 phone numbers option available that can be freely associated to the individual number.

> **TEL. OPTIO0N ABC**
> **Tel.1   ▣ ▣ ·**

Go to the telephone number menu

Press ENTER and with vertical arrow select menu.

press ENTER with orizz. arrow select option and with X select dot or square to enable option

Confirm with ENTER

A = answer confirmation by pressing #

B = direct menu panel access (without code)

C = reset call progress

SYSTEM EVENTS MENU

LINK PHONE NUM.

The events list that can be associated to telephone numbers **(s = SMS   V = voice   T = sms-voice   - = not associated)**

- Go to the link phone num. menu

- Press ENTER and use the vertical arrows to scroll through the available events marked with M (see list above)

- Press ENTER when the cursor flashes, use the right or left arrow key to move to the desired telephone numbers.

- Use the S button to assign the sms to the telephone numbers.

- Confirm with ENTER

S = ONLY SMS   V = ONLY VOICE   T = SMS+VOICE   - = NO ASSOCIATION (CANC KEY)

M01/Tel   12345678
* - Play   VS-T--------

* **button pressed**

fault 230V
* - Play

NOTE: by pressing left arrow or * it is possible to see the description of M event

Select the desired events from the assignment menu:

M1 = no main power

- now general power to the system, you can delay the SMS and voice notification from 0 to 240 min

M2 = main power return

- immediate return of the general system power supply

M3 = Low battery

- backup battery in the control unit is low, notification after 1 min. (below 10.5Vcc low, above 11.5Vcc charged)

M4 = life test

- Period lift sign test, can be set from 1 to 240 hours

M5 = no gsm network

- notification of no GSM network/signal, immediate.

M6 = tampering

- opening of the control unit, tamper line tampering, serial line tampering, balance line sensor tampering (Note: you can check the details of each tampering in the event log)

M7 = radio disturbance

- Notification of radio signals issued by other equipment on the same frequency range. It does not compromise operation.

M8 = radio saturation

- Radio signals issued from other equipment that compromise the safety of the system, radio blinding alarm. The system is no longer communicating with the radio peripherals.

M9 = radio battery KO

- Notification of low battery in a saved radio device (remote controls, sensors, contact, etc.). You can consult the event log for details regarding the device.

M10 = no supervision

- Notification of lack of supervision by the programmed radio devices. This notification is activated when the system does not receive 8 consecutive transmissions.

M11 =tamper disp.radio

- Notification of tampering with/opening of programmed radio devices

M12 = user access not enabled

- Notification of attempted access by a user with a timer blocked code. This is activated when the code is not enabled in a programmed time frame.

M13 = block from incorrect codes

- Notification of system block due to repeated access attempts by invalid user codes or codes not enabled by the timer. The event is activated after 5 attempts (The system remains locked for 10 minutes). Each reset attempt or other manoeuvre, including general shutdown of the system, resets the counter which starts the count over from the top.

M14 = anti-aggression panic

- Notification of anti-aggression panic event. It is generated by a user code programmed for anti-coercion. This code works like a normal user except it activates and emergency coercion call to the programmed numbers.

M15 = fault connection

- Problem of interconnection of serial BUS (comunication error from peripheral)

M16 = arm failed

- block arm during in exit time (arm failed for block arm event with EN 50131 parameter enabled)

M17 = system arming

- System armed

M18 = total disarming

- system disarmed

M19 = Part. DISARMING

- Partition disarmed

CREDIT

- Notification of credit below the set threshold. This event can only be programmed in SMS mode.

ECHO

- Activation of forwarding of all incoming SMS to programmed numbers. This event can only be programmed in SMS mode.

XR800 HOW TO PROGRAM ZONES

XR800 is a wireless panel, and the first step of programming zone is enroll device.

Is possible enroll device with self learning, or by add the code of device. When you are in enroll new press eneter and panel show this screen:

Here is possible send the signal from

device by pressing programming button

```
[01] Add
ID: --------------------
```

(self learning mode) or copy the code from label on devive

It is possible check enrolled devices or is possible change zones in Wired zones:

With this panel is possible have 10 wired zones, **in the first 10 place:**

the first 2 of 10 zones selected are fixed on first 2 terminal on main board (ex. zone 1= wired --> terminal 01 of main board)

the rest of wired from 3 to 10 are placed in the expansion module from terminal 1 to 8.

In case of use 1 keypad with zone terminal, it is possble link zone from keypad menu and subtract 1 zone from expansion:

example: Zones 1 and 2 = on main board of panel, zone 3 on terminal 1 of keypad, zones 4 to 10 on terminals of expansion module by starting from terminal 2 (first terminal of expasion is lost because the zone 3 is on keypad)

When a zone is selected, there are the names in default, for ex. main door for zone 1. In the same way all zone are programmed with default function for work in a standard installation. It's programmed areas, group, timing etc.

For check how is programmed panel, select zones menu:

The first menu is selection of zone:

- if is pressed down/up arrows will appear all zones with defualt name

- press enter for, enroll new wireless device

- use vertical arrows for selection other selection:

```
[01] main door
    V - SELECT
```

            - erolled zones selections
            - wired zone selection
            - parameters zones selection

When is selected **parameter** selection by pressind enter is possible check all parameter for zone:

- function
- polarity
- lock exclusion
- test enabling
- chime
- autoexclusion
- unbypass
- alarm pulse
- autoexclusion cycles
- zone delay
- area1 link
- area2 link
- area3 link
- area 4 link
- phone 1 to 8 link
- name 1 to 4 link

 all these function are shown by pressing Enter key (V button)

 for change value of single parameter use the vertical arrows, when the parameter is change will blink, press eneter again for confirm

 In case of return in previous menu or not confirm changement press ESC key.

FUNCTION

silent panic 24H

Generates a panic event with no visible notification (it does not take into account the system status)

instant alarm

Immediate alarm as soon as activated (with armed system and even during entry/exit times)

robbery

Immediate alarm as soon as activated (with armed system and even during entry/exit times) this function is not excludable

Follow

Instant alarm. It is delayed following the set times only in 2 cases, during entry time if an ENTRY EXIT input is breached and during exit time to give enough time to leave the location protected during system arming.

Fault

This function is used for notify an error, if the input remain open for 10 seconds start the notification error (with the programmed carrier, SMS, data etc.)

24h alarm

Generates an immediate alarm regardless of the system status, whether armed or disarmed

entry exit

The sensor does not alarm if activated or deactivated during entry and exit times. If it remains open after those times, the system will raise an alarm.

Silent

Generates an alarm event and activates the communicator with the system armed, without activating the siren.

technological

Generates a technical event without taking into account the system status, whether armed or disarmed

POLARITY

With this parameter it is possible change the polarity of all type of input.

This parameter it is usable for all configuration type of inputs.

LOCK EXCLUSION

With this parameter it is possbible prevent the bypass zone when that is open during in the arming.

Therefore, if they are not ready, the system cannot be armed.

TEST ENABLING

It possible put in test mode the problematic zones (false alarms or other).

In the test status the zone call only a set telephone number (number 8) and disabling the siren, all alarms generated from test zone are notified in the log, also with the test description.

CHIME

With this function it is possible to have an audio signal from keypad buzzer when the programming zones are open.

AUTOEXCLUSION

It is possible set automatic bypass when one zone is not ready close, during in the remote arming without keypad, with remote radio command, or with tag reader.

The esclusion **is not permanent**, is valid only for one arming procedure, when the control panel is disarmed, the zone is reincluded.

UNBYPASS

Is it possible set automatic unbypass (re include) when one zone come back close, after a bypass for not ready status.

ALARM PULSES

For each zone you can set the number of pulses before itself triggers the alarm.

The parameter ranges from 1 to 100. The reset threshold is 1 minute.

EXCLUSION CYCLES

For each zone you can set the number of pulses before bypass for trouble for many alarms.

The parameter ranges from 1 to 10, and reset with disarm.

ZONES DELAYS

For each zone with ENTRY/EXIT function it possible set a time. This time starts when entry/exit zone is violated with armed system.

AREAS LINK

For each zone is possible link the area of operating, after selection zone, set yes or no.

TELEPHONES LINK

For each zone it is possible to link a call and/or sms to the programmed numbers.

NAME

In panel there is a vocabulary with pre-recorded words. It is possible link this words for each input.

The names are represented by numbers that are equivalent to words (see the list on the next page).

For each zone is possible link 4 words (name1 -2-3-4) These words are also used sms messages and for calls phone and app.

If are needed new words that not in vocabulary, there are 30 empty slot for write and record.

the list of prerecorded with corresponding number:

VOCABULARY

The slot from 1 to 30 are completely editable and recordable. The follwing list are fix words and audio recocords

031 masking	066 closed	101 local	136 main	171 temperature
032 ignition	067 5	102 skylight	137 4	172 curtain
033 on	068 conditioner	103 warehouse	138 radio	173 ground
034 working	069 freezer	104 magnetic	139 robbery	174 terrace
035 aggression	070 contact	105 tamper	140 reception	175 land
036 flooding	071 corridor	106 attic	141 reset	176 roof
037 alarm	072 kitchen	107 masking	142 network	177 total
038 high	073 front	108 matrimonial	143 back	178 3
039 entrance hall	074 right	109 shop	144 closet	179 office
040 angle	075 behind	110 night	145 heating	180 1
041 open	076 off	111 overnight	146 salon	181 output
042 accessible	077 muted	112 9	147 scales	182 open galley
043 opening	078 disarmed	113 workshop	148 secondary	183 glass door
044 area	079 2	114 ok	149 secretariat	184 showcase
045 lift	080 entry	115 8	150 6	185 volumetric
046 penthouse	081 external	116 master	151 basement	186 0
047 active	082 window	117 program	152 detector	
048 activation	083 smoke	118 program 1	153 7	
049 armed	084 garage	119 program 2	154 left	
050 bathroom	085 gas	120 program 3	155 siren	
051 balcony	086 general	121 program 4	156 attic	
052 barrier	087 garden	122 program 5	157 stay	
053 tilting	088 day	123 program 6	158 loft	
054 battery	089 great	124 program 7	159 above	
055 lock	090 group	125 program 8	160 under	
056 box	091 fails	126 floor	161 off	
057 boiler	092 failure	127 perimetric	162 shut down	
058 room	093 lighting	128 blind	163 stopped	
059 small room	094 fire	129 plan	164 room	
060 pound	095 inertial	130 small	165 study	
061 gate	096 zone	131 reduced	166 tamper	
062 cellar	097 inserted	132 pool	167 shade	
063 system	098 internal	133 door	168 keypad	
064 center	099 irrigation	134 arcade	169 tavern	
065 lock	100 laundry	135 doorway	170 camera	

TYPE FOR WIRED ZONES

YOU can program different wired zones types:
- Select the Type menu
- Use the UP and DOWN arrows to select the desired input, then press enter again
- At the end, confirm with ENTER
•   No EOL (N.C. or N.O.)
•   Switch Alarm (hight speed Pulse Counter)
•   EOL SEQUENCE:

•   1BAL 1K
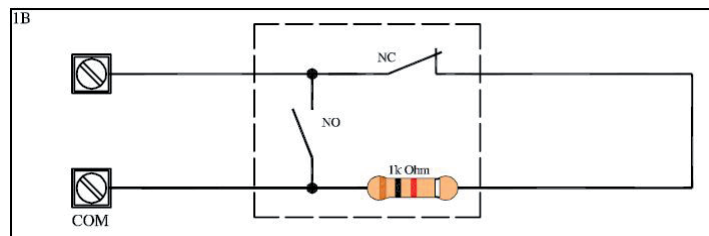
•   1BAL 2K2
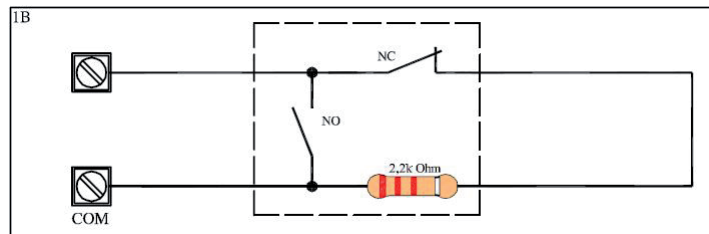
•   1BAL 3K3
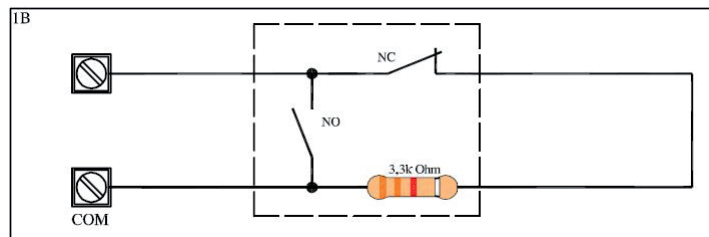
•   1BAL 3K9
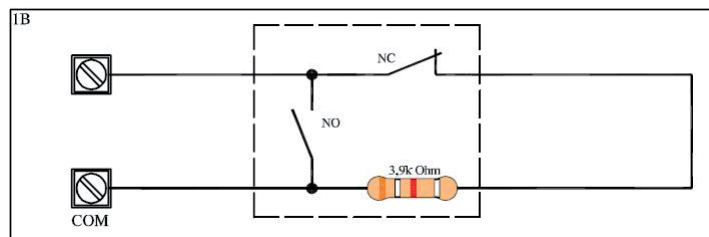
•   1BAL 4K7
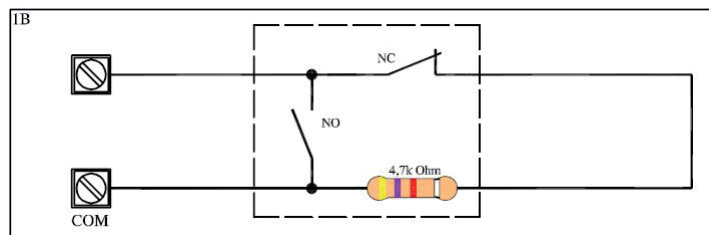
•   1BAL 6K8
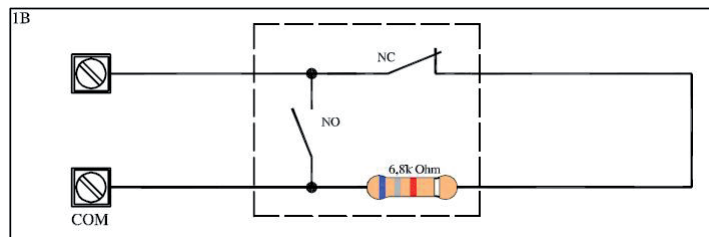
•   1BAL 8K2
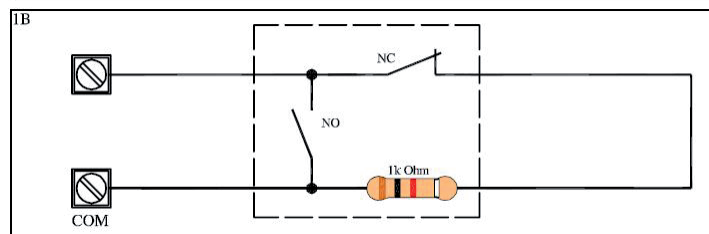
- 2BAL
  - 4K7 Zone
  - 2K2 Tamper
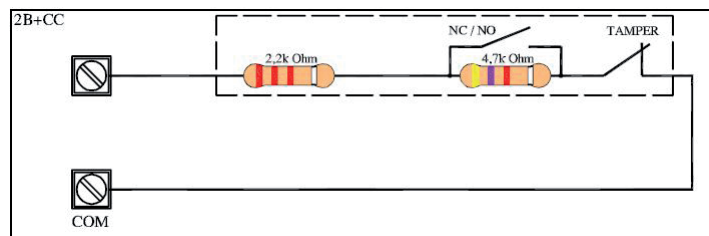
- 2BAL
  - 6K8 Zone
  - 3K3 Tamper
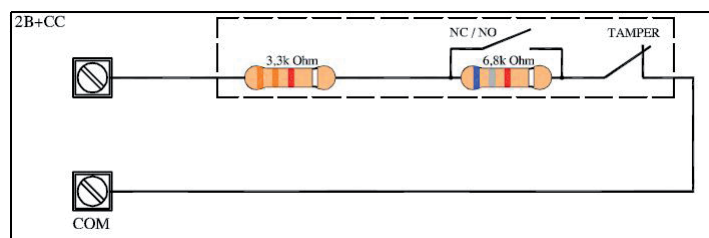
- 2BAL
  - 2K2 Zone
  - 1K Tamper
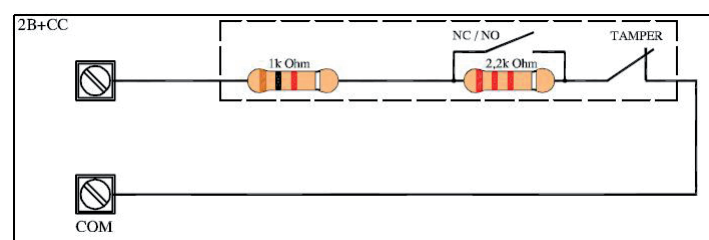
- 2BAL
  - 6K8 Zone
  - 6K8 Tamper
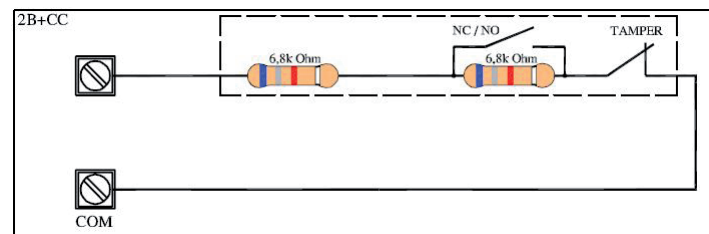
- 3BAL
  - 2K2 Zone
  - 1K Tamper
  - 4k7 Mask
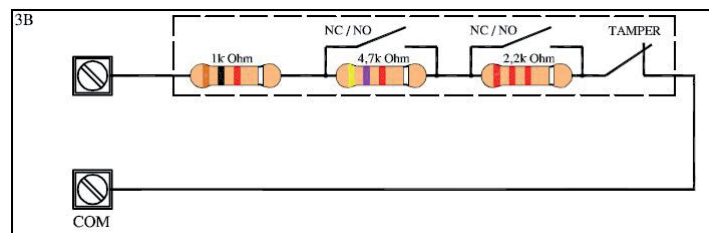
ZONE STATUS

It is possible to check the zones in real time during the opening and closing phase on the synoptics panel:

[01] main door
■ . . . . ■ . . . . .

The figure shows the synoptics panel, indicating inputs 1 and 12 open. The opening is represented by the square. The areas at rest are represented by the dot.
- Select the Status menu in the MENU OF INPUTS parameter. Press ENTER
- Use the LEFT and RIGHT arrows to select the desired input

MENU KEYFOB

In this menu is possible enroll keyfob. For enroll TR800, enter in menu enroll new, confirm and press 2 vertical button in same time. Is not important witch type of button, choose vertical combination: Arm + perimeter, or Disarm + *. If are not nedeed self learning is possible to enroll by writing the code of device.

After enroll, is possible check all data regarding keyfob, and re program the button functions.
- RSSI: is the indication of range
- battery: is level of charge
- zone: is synoptic panel of buttons
- ID: is the number of device for manual enroll
- panic with siren activation: 0=disable, 1 enable. (total+disarm key)
- Silent panic activation: 0=disable, 1 enable. (perimeter+* key)
- user link: link user to remote
- key tot link: (areas - outputs - led indication)
- key OFF: (areas - outputs - led indication)
- Key par: (areas - outputs - led indication)
- Key *: (areas - outputs - led indication)

Areas: linked areas for button
outs: linked areas for button
led indication: are the led on keyfob, is possible program a sopecial combination for each button.
After pression of single button, wait the answer from panel: 3 flash means activation, 1 long flash means deactivation.
note: keyfobs are bidirectional, for each pression of remote is mandatory always wait the answer from panel.

Replacing menu: for replace programmed keyfob without loose the programming
erasing menu: for erase programmed menu

indication LED		key OFF button
key ON button		
		info button
key PAR button		* button

MENU SIRENS

In this menu is possible enroll sirens. For enroll siren, enter in menu enroll new, confirm and press red button on board (self learning) is possible to enroll by writing the code of device.

After enroll, is possible check all data regarding keyfob, and re program the button functions.
- RSSI: is the indication of range
- battery: is level of charge
- tamper status
- supervion status
- ID: is the number of device for manual enroll

Replacing menu: for replace programmed keyfob without loose the programming
erasing menu: for erase menu
Note: for all parameter of sound siren go in menu siren in other parameters menu.

MENU OF OUTPUTS

MENU OF OUTPUTS: NAMES

It is possible to change the name for each output. The names are represented by numbers that are equivalent to words. These words are also used for sms. When the name is set in this section, in authomatic it is right for SMS.

The following is an example of the keyboard screen:

U01 -   Output   01
V - Edit

U01 -   Output   01
079 067 003 000

The example above shows the name set for output 1 as irrigation garden on.
Where 079 = irrigation, 067 = garden, 003 = on, 000 = no value.
Note that each name is made up of 4 words. In this case only 3 words were used with the 000 equal to no text.
In order to change the name:
- Select the Names menu in the MENU OF OUTPUTS parameter. Press ENTER
- Use the down and up arrows to select the desired output, then press ENTER again
- Insert the numbers that correspond to the words using the number keys
- Press CANCEL to delete the existing name
- At the end, confirm with ENTER
 Note: The words are the same of the zones.

MENU OF OUTPUTS: FUNCTION

The keypad assignment method for the output functions is identical to the procedures explained previously for zone.
- = output disabled

1 - 4 = partial arming
Follow the arming partition status

A = external alarm (siren)
follows the performance of the external siren

B = low battery
This is activated when the buffer battery is low (below 10.4Vdc)

C = system arming status
this activates when the system is armed in any scenario

D = bell buzzer
This is activated when inputs with the option buzzer are activated

E = attempted user timer access
This is activated when a temporarily disabled user by the timer, enter personal code.

F = alarm memory by siren
This function is used to pilot the sirens with separate sound command and flashing lights. When it is enabled, the flashing light can be used as an alarm memory therefore it will be activated with siren activation and will remain active even after the siren is silenced. It will only turn off after a valid user code is keyed in.

G = no gsm signal
when there isn't GSM signal

H = anti-aggression panic
This is activated following a panic even (user code, panic input)

I = activation on input opening (from zone Menu)
linked to the zone, when one zone is opnening trig the on the out

L = System lock
out trig in ON when the system is locked

N = PSTN fault (red keypad LED)
Fault PSTN line

M = memory (red keypad LED)
follow the keypad memory signal led

O = total arming
when the system is total armed

R = Disarming
when the system is disarmed

P = pilot
Outputs that can be activated by a phone ring with programmed ID. The activation is step-by-step (Ring = activation --> ring = deactivation) or, if a pulse sound time is set. At each ring activation, the operation will be confirmed by an answering ring

Q = shortcut
Outputs that can be activated by holding the number key in keypad for few seconds, the output number corresponds to the number pressed on the keyboard **(eg. button 3= out 3).**

S = system control (green keypad LED follows)
follow the zones status, the same of ready led in keypad

T = timer activation
follow the period timer arming

U = user code activation (local and remote)
out linked directely to user code

V = no 230 Vac
absence mains voltage

w = Multi
Out with multi function, it is possible manage with: shortcut + usercode + app + pilot + timer

Y = no radio supervision
lost radio device

Z = radio batteries low
battery low from radio device

```
[01]    output    01
VBZT - - - - - - - - - - -
```

The figure shows only the first 4 outputs programmed. The following ones, are not assigned any function. As always, the menu is the horizontal type, therefore once inside, when the cursor flashes, use the horizontal arrows to select the outputs and use the keypad to set the function.

MENU OF OUTPUTS: DURATION

A duration can be set for each output. The output with a duration of 0 is the stable type and therefore only activates with a programmed event or deactivates when it re-enters. If a duration time is set, the output will become by pulse. The pulse duration is set by this parameter.

```
[01]    output    01
03 h    15 min    10
```

In the figure, output 01 has a duration of 3 hours and 15 minutes and 10 seconds. The maximum time that can be set is 17 hours, 59 minutes and 59 seconds. To set it from the keypad, go to the duration menu. When the cursors for the hour, or rather the minutes or seconds flash, after pressing ENTER, use the keypad to set the times and confirm.

MENU OF OUTPUTS: DELAY

Each output associated to a given event is activated as soon as the event itself occurs. Activation can be delayed by a time you can set. When the delay time is 0, activation is instantaneous.

```
[01]    output    01
01 h    10 min    30
```

In the figure, output 01 has a delay of 1 hour, 10 minutes and 30 seconds, therefore, when an event occurs, the output will activate after that amount of time. The maximum time that can be set is 17 hours, 59 minutes and 59 seconds.

To set it from the keypad, go to the duration menu. When the cursors for the hour, or rather the minutes or seconds flash, after pressing ENTER, use the keypad to set the times and confirm.

Note: A delayed activation may be reset or not based on the reset of the event that occurred. If we set a delayed output at 1 hour for no power and it comes back on before the hour is up, we can choose what to do, either not activate it or activated it after the set time (see autoreset parameter).

MENU OF OUTPUTS: POLARITY

The polarity can be set for each output. Being Open Collector type outputs, when they are deactivated that means they are not closed negative.

```
[01]    output    01
00000001111000000000
```

The figure shows that some outputs are N.A. (symbol 0) and some are N.C. (symbol 1).

Note: Output 2 is the only one with a free exchange relay.

MENU OF OUTPUTS: AUTORESET

This parameter must only be used for delayed outputs. The autoreset function resets the activation of a delayed output if before the activated, the triggering event is reset (also see delayed outputs)

```
[01]    output    01
10000000000000000
```

The figure shows how output 1 is configured as auto reset.

Ex. 1 O1 with NO 220ac function with a 1 hour delay - the 220Vac power returns within a half hour and the output interrupts the delay and stops the activation process.

Ex. 2 O2 with NO 220ac function with a 1 hour delay - the 220Vac power returns within a half hour and the output does NOT interrupt the delay BUT CONTINUES the activation process. AFTER AN HOUR IT IS ACTIVATED.

MENU OF OUTPUTS: OPERATING CONDITIONS

For each output you can establish the operating conditions based on the system conditions.

X = function always active. As soon as the event occurs, the output activates with its times

A= only with system armed. It activates only if the system is armed.

D= only with system disarmed. It activates only if the system is disarmed

T= only Total. It activates only when the system is armed in Total mode.

1 – 4 = corresponding partial. It activates only when the partial selected is armed

```
[01]    output    01
XTXXXXXXXXXXX
```

In the figure you can see how only output 2 can be active and only when the system is completely armed. The remaining outputs can be activated in any conditions.

MENU OF OUTPUTS: TELEPHONES LINK.

For every output programmed with the **PILOT** function you can associate up to 8 telephones.

Remember that this type of association is for outputs that can be ring activated.

You must program the telephone numbers with the international prefix (+393354568526) to give the system the possibility of recognising the ID of the number, which must be visible.

```
O01/Tel    12345678
output 01   ◻◻◻ · · · ·
```

In the figure you can see that output no. 1 has the first 3 telephone numbers associated out of the 8 available.

MENU OF OUTPUTS: USERS LINK

For each output programmed using the associated user function, it is possible associate several user codes.

This association allows a user to activate a stable or pulse output by simply keying in their code.

Remember that an output with a duration of 0 is stable so the operation is step-by-step (code=ON --> code=OFF)

```
O01 - User  Nr 01
◻◻◻ · · · · · · · · · ·
```

In the figure you can see that output no. 1 has the first 3 users associated, therefore, when the codes for those users is entered, the output will activate or deactivate based on the status.

MENU OF OUTPUTS: INPUTS LINK

For each output programmed using the associated input function, you can associate several inputs.

This association allows an output associated to inputs to be activated based on the operating conditions of the output itself.

Ex. an input can move 2 outputs, one with the system armed (garden lights) and one with the system disarmed (entry door courtesy light)

```
001 - input one
◻◻◻ · · · · · · · · · ·
```

In the figure you can see output no. 1 has the first 2 inputs associated.

WIRELESS RECEVERS

In this menu there are the reset for internal wireless module and for additional remote wireless module.

And is possible check the RSSI disturbance in receivers modules internal and remote.

AREAS MENU

The control unit has 4 programs that can be named with the following characteristics:
- Can be independently armed/disarmed
- Can be freely associated to users
- can be freely associated to arming/disarming timers
- can have independently programmable arming times
- can be clustered in activation groups, which can also be named

AREAS MENU: AREAS NAMES

The system for assigning names to the partials is identical to the one used for inputs and outputs. The vocabulary used is the same.

```
A01-area Nr.01
     V - Edit
```

```
A01-area Nr.01
  009 123 076 000
```

AREAS MENU: AREAS ZONES

It is possible to associate any zones to each partial. It is possible also have the same inputs associated to several partials.
Go to the programs menu and select PARTIAL ZONE 1. Using the vertical arrow keys, select the desired partial and press enter to associate the zones (fig. below)
The figure shows the association of the first 3 zones to partial 1.
The zone assigning method is the same as the one already mentioned for other menus (inputs, outputs)
- Use the RIGHT and LEFT arrows to select the desired input, then press ENTER again
- Enable it by pressing CANCEL when the cursor flashes
- Press CANCEL again to delete
- At the end, confirm with ENTER

```
[01] input one
□□□ - - - - - - - - - - -
```

AREAS MENU: EXIT TIMES

For each partial there are different output time.
When several partials are armed at the same time, the longest time is taken into consideration.
In figure on, an output time of 30 seconds was associated.

```
[01] program 01
   [Sec.]       30
```

GROUPS MENU

It is possible create the arming scenarios (group), that include several partials. There are 4 scenarios, they can be armed by using the G1 - 2 - 3 - 4 keys from keypad. In the control unit menu they are called groups and some partial can be placed in arming group.
It is possible to use the group for quick arm procedure.
Note: the numbering of the groups is only an example, the program default is:
G1 = Total (all partials) - G2 = Perimeter (partials 1 - 2) - G3 = Night (partials 3 - 4) G4 = no programming

GROUPS MENU: NAMES

As in the figure, the system for assigning names to the GROUPS is always the same, including the vocabulary.
Fig 1 shows the change menu for the name, fig 2 shows the method (shown previously) to assign the names (the 3 digit numbers indicate the vocabulary, see page 34, for a total of 4 words for each name)

```
G01 - Group 01
     V - Edit
```

GROUPS MENU: GROUPS

associate partials to groups: In the figure at Group 1 (perimeter) are associated the first 3 partial.
- The groups are selected using the vertical arrow keys.
- RIGHT and LEFT arrows to select the partial, then press ENTER
- Enable it by pressing CANCEL when the cursor flashes
- Press CANCEL again to delete
- At the end, confirm with ENTER

```
G01/Prg     12345678
Perimeter   □□□ - - - - -
```

PSTN MENU

the entire section of the public PSTN telephone network. It 'important to connect the control unit to a clean line. In case of lines with internet access is essential to use special filters upstream of the line. Any phones connected to the line must be connected to terminals T1 and T2 of the plant, in order to be released when it makes a call.
The following configuration parameters:

```
            PSTN
Notification            0
```

This parameter enables or disables the notification of fault of PSTN line.

```
            PSTN
Line Check              0
```

This parameter enables or disables the control of the presence of PSTN telephone line voltage.

```
            PSTN
DialTone Check          0
```

This parameter check for dial tone; in case of absence the system doesn't dial.
If this parameter is enabled, in the absence of tone the system notice the event " TEL.LINE FAIL ".
If disabled, it always dial 2/3 seconds after it has taken the line.

```
            PSTN
RingBack Check          0
```

This parameter enables or disables the tone control of sound free / busy after dialing the number. Once the panel compose the number hears this tone and, when it is interrupted by a response of digital receiver, it executes the set message (digital). When disabled, the control panel will not hear this tone and most waits for a response from the recipient or digital protocols.

```
            PSTN
Ring Pause            4.5
```

This parameter modifies the break dial tone once done the call. This pause changes according to the standards adopted in different countries. In case of problems with the default setting 4.5sec. you can shorten or lengthen the pause to allow the panel to better understand the tone of free and the responses from users / receivers.

```
            PSTN
DTMF amplitude          0
```

This parameter change the amplitude of DTMF signal, in case of noises of PSTN line, it is possible increase the amplitude of DTMF:
0 = normal signals amplitude
1 = doubble signals amplitude

```
            PSTN
Compos.Waiting          0
```

This parameter is used when is disable the line control, the system take the line and wait few second before start the composistion, the pause is used for allow the line to go in stable level. Normally when is active the control the system detect when can start the composition, when is disabled is important set a pause.

ARMING LOCK MENU

System activation is blocked by several situations that can compromise security. These situations are, in particular:
- no main power (no 230Vac)
- Low batteries in the control unit
- Anti-opening protection activated (tamper)
- manipulation protection activated (Tamper line)
-Tamper peripheral protection (radio, wired, ext.)
- Comunication failed with one or more peripherals connected to the bus
- No GSM network
- interconnection fail (peripheral problems on th bus)
- wireless lost life test
- Fail of PSTN telephone line

These blocks can be momentarily disabled to perform tests or other operations.
Note: Installations without these blocks are to be considered not in compliance with E 50131-1 and EN 50131-3 certifications.

In the figures the parameters can be changed to stop the system arming block.
0 = unlocked
1 = locked

```
ARMING LOCK
No220V          1
```

```
ARMING LOCK
Battery         1
```

```
ARMING LOCK
Tamper          1
```

```
ARMING LOCK
Line Tamper     1
```

```
ARMING LOCK
Periph. Tamper  1
```

```
ARMING LOCK
NoGsm           1
```

```
ARMING LOCK
interconnection 1
```

```
ARMING LOCK
Wirel. Inactiv  1
```

```
ARMING LOCK
NoPstn          1
```

TIMERS MENU

*T*he control unit is equipped with a very versatile timer system, which can be used to perform various operations at different times and simultaneously:
- automate the arming and disarming of one or more partials
- inhibit users at pre-established times with no limit (with notification of attempted access)
- activate and deactivate outputs automatically, following a precise calendar

With the timer system, for each day of the week you can have 4 or 8 time settings to which you can associate operations related to: partials, users and outputs.

Besides these 8 timers, you can manage 8 exclusions that can be set for start and end date and associate them precisely to any day and any time.

The following is an example to clarify this operation concept.

Monday --> [timer-1 08:15:00] -->   **partial 1 arming**
                                          partial 2 arming
                                          user 5 inhibition
                                          output 3 activation

----

Monday --> [timer-2 20:10:00] -->   **partial 1 disarming**
                                          partial 2 disarming
                                          user 5 code unlocked
                                          output 3 turned off

----

Monday --> [timer-3 22:30] -->output 8 activation (garden lights)

Tuesday --> [timer-2 06:10] -->output 8 deactivation (garden lights)

For each day of the week you can set different timers and different operations linked to them.

TIMERS MENU: SETTING

In this menu, the days of the week, the number of times to be set and the association of partials, outputs and users are selected.

The down arrow key scrolls through the day of the week fig 1

fig 1

```
        TIMERS
Day            [Sun]
```

```
        TIMERS
Day            [Sat]
```

In the following screen you can select the 4 timers available for the day selected and change the time
Fig 2

fig 2

```
Timer 01 - Sun
hr   00:00    min
```

```
Timer 08 - Sat
hr   00:00    min
```

The following screens indicate the association
of timer 1 to the users, partials and outputs Fig. 3

```
Timer 01 - Sun
    PROGRAMS
```

fig 3

```
Timer 01 - Sun
    OUTPUTS
```

```
Timer 01 - Sun
    USERS
```

When is selected the timer, set the hour and selected the users and/ or outputs and/or partials, you must set the base parameter, in other words, whether at that time they are activated or deactivated.
In the figures to the side you can see the related screens:

```
Prg.         1234
Perimeter  01- -
```

0 = deactivation/block of partial/user/output
1 = activation/unblock if partial/user/output
- = no association

```
[02]  output two
- 1- - -
```

fig 1, turning off of partial one and arming of partial 2 was programmed.
Fig 2, activation of output 2 was programmed
Fig 3, block of user 1 was programmed

```
[01]  User  Nr 01
0 - - - - - - - - - - - - - -
```

TIMERS MENU: EXCLUSIONS

Once you have set the timers and created the weekly profiles, you can make it so the automatic action is suspended for a period of time (e.g., for vacations, holidays, etc.)
The exclusion periods have a start and end date.
The beginning starts at 00:01 and the end at 23:59:59.

```
Period 03
 10/02 < - - > 25/02
```

In the figure you can see that exclusion period no. 3 was programmed. This period starts at 00:01 on 10/02 and ends at 23:59:59 on 25/02

TIMERS MENU: ENABLE EXCLUSIONS

After having set the exclusion period, it is activated by associating it to one or more timers.
The exclusion periods can be associated precisely to the individual timers (of the 8 available for each day of the week) Each timer can have more than one period of exclusion.

```
T01-Mon   12345678
          ▯ - ▯ - - - - -
```

In the figure you can see that at timer no. 2 for Monday, 2 exclusion periods were associated, no. 1 and no. 3.

MENU USERS

The control unit has a total of 64 users, all of which can be freely associated to groups and partials. Each user can be programmed with specific privileges (detailed information on these privileges below)

MENU USERS: USER NAMES

The user names are programmed using the traditional method, entering the name by alphanumeric keys.

In the NAME menu, press ENTER, Using the Up and Down arrow keys, select the desired user, then press enter again

- Press CANCEL to delete the existing name

Enter the new NAME using the alphanumeric keys

Confirm with ENTER

MENU USERS: USERS TYPE

I = display only the system status: This function is simply for displaying the armed/disarmed status of the system on the keypad when not visible (setting tied to EN 50131)

R = change user code and program keys: This function generates a user that operates only with the system disarmed and changes all the user codes and programs keys.

M = master: This function generates the user with the maximum privileges: change user code, function, program and group link, read events, change date/time, program keys, delete keys, display input status, display residual credit, block timer.

U = user enabling and disabling: This is the standard user function, they can enable and disable associated programs, and modify their own code.

C = user for activate and deactivate outputs: This code is used for activate/deactivate all programmed outputs. It is possible use this code in all conditions (armed/disarmed)

H = holiday code: This code is used when you leave the protected area for a long time (eg. holiday) In this mode of arming, all entry/exit zone with delay time becomes immedialtely.

P = panic code: this code is the same to U type code, but when be used the panel send a secret message of silent panic.

NOTE: for sending a panic silent message it is possible push in the same time G2 and G3 buttons

In the figure user 01 as MASTER. Use the alphanumeric keys to program the type.

> [01] User Nr 01
> M

MENU USERS: CODES AND LENGHT CODES

Is it possible to have user code with 6 or 4 characters, in menù code after last user, there is LENGHT parameter, select 4 or 6.
For modify codes select the number of user and then set the number with number buttons from keypad.

MENU USERS: PROGRAMS LINKING

It is possible to associate one or more partials and one or more groups to each user.

Therefore, the users have to possibility of arming and disarming only their assigned partials and groups.

In the figure, the user 01 has associated partials 1 and 3 and user 3

The groups are selected using the vertical arrow keys.

- Use the RIGHT and LEFT arrows to select the desired partial, then press ENTER
- Enable it by pressing CANCEL when the cursor flashes
- Press CANCEL again to delete
- At the end, confirm with ENTER

> U01/Prg   1234
> User Nr01 ▯ · ▯ ·

QUICK ARM USER

The user N° 64 is also utilized for configuration " Quick Arming " function. Therefore, when you activate this feature (from menu OTHER PARAMETR) , you must set the privileges on the users 64.

DATE/HOUR MENU

For change the date and time on the system using this menu

Once you have entered the menu, press ENTER to change

Press ENTER again to enter the day of the week (1 for Mon, 2 for Tue...0 for Sun)

Press the Right arrow to enter the day/month/year/hours/minutes in sequence

Confirm with ENTER

It's possible enable the auto change hour for summer time, set the change or live the default and enbale from menu.

EVENTS MENU

The control unit saves each system operation and occurrence.

The system can save 1000 events with a rotating update system. Once the log capacity is full, the system will delete the oldest event to make space for new ones. In order to make reading easier, 2 systems were adopted:

- traditional reading: Traditional reading consists of entering the event menu and reading them.
- notification system: You can also group them by type of event to make searching and reading easier:

Fig1 Reading menu for all events

> **EVENTS MEMORY**
> **All**
> *fig 1*

Fig 2 Reading menu for only unread events

> **EVENTS MEMORY**
> **Unread**
> *fig 2*

Fig 3 Reading menu for only alarm events

> **EVENTS MEMORY**
> **Alarms**
> *fig 3*

Fig 4 Reading menu for events connected to operating errors

> **EVENTS MEMORY**
> **Anomalies**
> *fig 4*

Fig 5 Reading menu for system arming and disarming events

> **EVENTS MEMORY**
> **Arming/Disarming**
> *fig 5*

Fig 6 Reading menu for user accesses

> **EVENTS MEMORY**
> **Users**
> *fig 6*

The notification system is comprised of signalling individual alarms and errors from the control unit through the red LED using quick access. When the red LED on the keypad turns on, the control unit is notifying you that there is an event to read. Pressing the CANCEL key accesses the notification screen. In the figure, the system shows that there are 3 notifications to read. They can be read after inserting an enabled code.

Fig 1 the system shows 3 notifications

> **3 Events**
> **[   ]**
> *fig 1*

Fig 2 When the code is entered, the system shows the notifications in chronological order. You can scroll through the log using the up arrow key.

> **16:35 - 27/02/13**
> **lounge radar alarm**
> *fig 2*

Fig 3 When they have been read the red LED will turn off and the message in the figure will appear

> **<<   NO NEW   >>**
> **<< EVENT >>   #Exit**
> *fig 3*

SYSTEM RESET MENU

The parameter reset on the control unit can only be done with the installer code.
Resets are done in a specific menu and are divided into 3 categories:
- users codes menu reset
- configuration reset
- events memory reset (can only be done by the manufacturer)
IMPORTANT: if the installer code is lost, the control unit must return of producer.

Fig 1 With this time of reset, all of the user codes and related parameters are deleted, except for the first one that is set to the default value (111111)

```
SYSTEM RESET
Users Codes
```
fig 1

Fig. 2 With this type of reset all of the control unit parameters are set to default except for the event log which cannot be deleted.

```
SYSTEM RESET
Configuration
```
fig 2

Fig. 3 With this parameter you can reset the entire event log. Only the manufacturer can perform this operation for security reasons.

```
SYSTEM RESET
Events Memory
```
fig 3

EDIT VOCABLES MENU

With thi s menu it is possible to change some word of vocabolary for the name of zone, ouput, ext.

In X series where there is pre record vocabulary, there is the possiblity to add 30 recordable words to the vocabulary:

- select **vocables list from** EDIT VOCABLES menu
- select the number or the vocables that is be changed
- press ENTER and use the alphanumeric keypad for modify
- select audio messages
- the number of place from 1 to 30
- press * to play and select X to record new audio.

ADEMCO MENU

The control unit is set to send digital protocols ademco 4+2 and CONTACT ID. The system can be freely configured for each input zone and each type of event. You can have up to 8 telephone numbers with 8 different system IDs that can send data to various reception control units. It is possible to send contact ID data via PSTN, GSM, GPRS,LAN.

CID EVENTS

With this parameter you can display and change all of the codes related to all of the events available in the control unit.

SIREN 320	WIR.DEV.LOW BAT. 384	TECNO INPUT 150
ZONE TAMPER 137	WIREL.NO SUPER. 381	EVENT LOG RESET 621
NO 220V 301	WIRELESS TAMPER 383	GENERAL RESET 313
LOW BATTERY 309	PERIPH.TAMPER 341	PHONE LINE 352
NO GSM LINE 351	PROG.MODE ENTRY 627	MASKING 138
SYSTEM ON/OFF 401	SYSTEM RESTART 305	CONNECT FAILURE 143
REMOTE ON/OFF 407	WRONG CODE 461	INPUT FAILURE 144
ON/OFF BY TIMER 403	ZONES EXCLUSION 570	AMRMING FAILED 453
LIFE TEST 602	COERCION 121	[01] zone 1 130
RF NOISE 344	ZONE PANIC 120	[64] zone 64 130

In the figure, the list of events that can be transmitted in CID, the event code number including the brackets and the standard ones used by the protocol. It is freely changed all of the event codes for any zone input and any type of event available. Select the desired event and confirm with SEND . The number flashes and so can be changed.

ENABLE CID

It is possible enable or disable the single events of sending.

ARM ▪	*ARM* ▯
event disabled	event enabled

For enabled/disabled events, press ENTER in the single event and modify by pressing CANCEL

ADEMCO PHONE NUMBER

Set the number fo CMS, select the prefix where is requested, and select the type of message that will be sent.

TEL.number [01] *00033445856456*	*PREFIX TEL [01]* *GSM ( )*	*enconding TEL [01]* *Contact ID*

RESPONSE WAIT

This is the amount of the time the system waits for a response during a call before going on to the next one. It can be set from 1 to 50 seconds.

ADEMCO NETWORK PARAMETERS

When the event is enabled, there are the network settings:

| IP/domain [01] 192.168.1.1 | IP address of monitoring station receiver n°1 |

| IP/domain [02] 192.168.1.1 | IP address of monitoring station receiver n°2 |

| Port num. [01] 10000 | Port number of first IP number |

| Port num. [02] 10001 | Port number of second IP number |

| Protocol [01] Tcp/Udp | Protocol type TCP or UDP |

| Protocol [02] Tcp/Udp | Protocol type TCP or UDP |

Encoding dc09 CID

Type of encoding:
- select 0 for set: IT GPRS RX
- select 1 for set: DC09 CID
- select 2 for set: DC09 SIA

IT gprs RX is a proprietary protocol, and needs the HW receiver in monitoring station. DC09 CIDand SIA is a standard IP protocol.

Data session (sec.) 60

This parameter mean that the max time for sending/contact the receiver, is needed for close the comunication in case of error from receiver.

Phone SMS Backup

this is a special number that is used in IT GPRS RX for IP backup, in case of fault comunication via IP, the system will send the SMS.

ADEMCO NETWORK MONITOR

The monitor, is a special signal that is used for life test of the IP connection between the monitoring station.
This signal can be sent directely on special database soft, or in IT GPRS RX.

IP/domain 192.168.1.1

IP address of monitoring station receiver

Port Number 8000

Port number of receiver

ID monitor 12345678

Number of identification system

time monitor 1 min

Time between signals

ADEMCO SYSTEM ID

For each partition it is possible set a ID number:

| ID prg. 01 1234 | ID prg. 08 7788 |

4+2 EVENTS

With this parameter it is possible view and modify all the codes for all available events with Protocol 4 +2. When you see the value " ?? " it means that you have not yet entered any code for the selected event. The procedure to enter the codes is as follows:
- Select the desired event (ex: zone alarm)
- Select the zone number (ex: zone 5)
- Once selected the event and the number, by pressing the ENTER key the blinking cursor moves on the 2 numbers at the bottom. (?? or 00)
- At this point you can set the hexadecimal code to be sent to the receiver.

```
ZONE ALARM        05
          5A
```

Below is the list of the events default programmed:

ARM.BY USER 01 [10]	DISAR.BY USER 01 [20]	ZONE ALARM 01 [30]	ZONE RECOVERY 01 [40]
ZONE BYPASS 01 [50]	AC MISSING [60]	AC RECOVERY [61]	LOW BATTERY [62]
RECOVERY BATTERY [63]	TAMPER [64]	TAMPER RECOVERY [65]	REMOTE ARMING [66]
REMOTE DISARMING [67]	ROBBERY [68]	CALL TEST [00]	ARMED BY PRS [70]
DISARMED BY PRS [80]	FAILED ARM [90]	PANIC [A0]	PANIC RECOVERY [B0]

ADEMCO - MAX ATTEMPTS

With this parameter it is possible establish the number of call attempts that the system must perform before notify the error in the event of no CID notification. In this case the attempt performance is not by rotation, but all of the attempts set will be made to the same number. In the event of failed notification, the system will move on to the next number (programmed from 1 to 10)
Important: every failed attempted is shown in the event log.

ADEMCO - ZONES RECOVERY

The use of this function activates the real time report for the activity in the individual zone during an alarm cycle. By activating it you can determine when the intruders leave the protected area.
0 = deactivated
1 = activated
Note: The reset activity is managed by the alarm cycled determined by the siren time. Therefore the shorter the siren time, the closer the notification of the resets.

ADEMCO - DELAY RECOVERY

With this parameter is possible to have the recovery zones after siren time:
0 = deactivated
1 = activated

TEST MENU

The control unit is equipped with a test tool to be able to verify that the system is operating properly.

The tests that can be performed are:
- siren
- inputs
- outputs
- Contact ID call

```
TEST
Siren
```

```
SIREN TEST
Activate ??
```

In the fig. you can see the screens for performing the siren test. Once you have entered the menu, use the
ENTER key to activate and deactivate the siren test

```
SIREN TEST
Disactivate ??
```

The zones test is performed by counting down the breached areas. In the example in the figure there are still 34 inputs to test. Each time an input is unbalanced, the system decreases the counter and activates the keypad buzzer. The test can be interrupted at any time by pressing ENTER. This system allows you to test all the inputs without any staff. Only one person is needed.

```
ZONES TEST
Tot:34          V-stop
```

The output test calls for the selection of the desired output and activation of it for 5 seconds.
The figure shows the test screen. Use the ENTER key to activate the output.

```
TEST OUTPUTS
Tot:17          V-start
```

```
01-output 1
Activate ??
```

```
01-output 1
Activated (4.3.2...)
```

voice call test:
For the test, the call will be made to telephone number no.1, communicating the life test event. The call is activated by pressing ENTER and waiting for it to arrive. In case the voice module is not plugged the system will send bip sounds.

```
TEST
voice call GSM/PSTN
```

Ademco protocol test:
For the test, the call will be made to telephone number no.1, communicating the life test event. The call is activated by pressing ENTER and waiting for it to arrive. The event that is sent is always the life test(event no. 602) for CID and 4+2.

```
TEST
ContactID  GSM/PSTN
```

```
TEST
Ademco4+2 GSM/PSTN
```

This section regarding the test via IP (LAN and or GPRS)
It is possible test the DC09 standard with CID

| TEST |
| ContactID 2G/3G/lan |

This section regarding the test of SIA IP protocol with DC09 encoding. It's possible test the GPRS and LAN module for sending.

| TEST |
| SIA IP 2G/3G/lan |

This section regarding the test of Ademco 4+2 protocol via PSTN and GSM with DTMF.

| TEST |
| ademco4+2 GSM |

MENU NETWORK

CLOUD PARAMETERS

DON'T MODIFY THIS FIELD this is the cloud address

ACCOUNT

I this menu are all parameter that used for registartion to the cloud. (for APP)

Enable Cloud service: this parameter is important, because is the activation of 30″ ping on Cloud, for maintain the system always connected to the Cloud. **The transmission on Cloud is in SSL4 cripted**

username:it used for name ID, the same name must be inserted to the APP during to the registration panel

password: password, the same password must be inserted to the APP during to the registration panel

UID CODE: this code is most important because is the unique identification code of panel. Must be inserted to the APP with all number and characters **IDENTICAL.**

NOTE:it is possible have the same password and username with different UID in the same APP (main house, beach house etc.)

CLOUD NOTIFIC.

With this parameter it is possible to enable and disable smart notification in phone APP when it closed.

ALARM: when the system trig in alarm it is possible receive notification on smartphone (even when the application is closed)

USERS: when is enabled every action by all user are sent by notification APP (even when the application is closed)

ARMING: When is enabled every arm and disarm for each program are sent by notification (even when the application is closed)

For enable notification turn from 0 to 1 every single voice:

eg. ALARM = 1 (ENABLED) ALARM=0 (DISABLED)

GPRS/3G PARAMETER

In this section there are all parameters for enable the GPRS system for cloud APP and for sending CMS messagges:

Enable GPRS/3g/auto: this parameter enable the module to work with data, when is disabled the system work only in GSM mode.

Access point APN: set the name of access point

User name APN: some provider needs the name and password, in this section set the name

User password APN: some provider needs the name and password, in this section set the password

SIREN SETTINGS: SIREN DURATION

This parameter sets the duration time of the siren sound in the event of an alarm.

To set the new value press ENTER to confirm. Can be set (from 0 to 240 sec) press CANCEL to delete the current value

Note: setting 0, the "siren" commands are not activated.

SIREN SETTINGS: SIREN PAUSE

This parameter sets the pause time between one activation and the next in the event of a persistent alarm.

To set the new value press ENTER to confirm. Can be set (from 0 to 240 sec) press CANCEL to delete the current value

Note: by setting 0, there will no longer be a pause between one activation and the next.

SIREN SETTINGS: SIREN CYCLES

Siren cycle means the maximum number of siren activations in one 24 hour day (from 00:00 to 23:59).

Ex., 5 cycles of 1 minute means that the siren can ring for 1 minute for a maximum of 5 times in one day. Once the limit assigned in the case of alarm has been reached, the siren will no longer ring. This stop will be reset at 23:59:59.

To set the new value press ENTER to confirm. Can be set (from 0 to 32 sec) press CANCEL to delete the current value

Note: enter the value 0 to not have ring limits

SIREN SETTINGS: SIREN TO KEYPAD

With this parameter it possible set the keypad for repetition of alarm siren with internal buzzer.

Set 1 for enable, set 0 to disable

SIREN SETTINGS: SQUAWK FUNCTION

With this parameter it is possible to have a signal from siren when the system is armed and disarmed.

For wireless sirens it is possoble have another info, the memory alarm.

there are 2 menu parameters, 1 for wired sirens, and another for wireless sirens:

WIRED SIREN:

```
    SQUAWK
Duration (sec.)    0.0
```

WIRELESS SIREN:

```
    SQUAWK
Arm/disarm visual  0
```
notification with light of arm disarm, switch to 1 for enable.:

```
    SQUAWK
Arm/disarm sound  0
```
notification with sound of arm disarm, switch to 1 for enable.:

```
    SQUAWK
Alarm memory  0
```
alarm notification when disarm panel, the siren will notify with a low power sound and lamp flashing switch to 1 for enable.:

OTHER PARAMETERS: TAMPER SETTINGS

TAMPER SETTINGS: SYSTEM TAMPER

This parameter enables or disables the anti-opening protection.

Press ENTER to set the value (0=disabled, 1=enabled) Confirm with ENTER

TAMPER SETTINGS: TAMPER AP

This parameter enables or disables the AP tamper protection on the control unit line (see fig. and board description).

Press ENTER to set the value (0=disabled, 1=enabled) Confirm with ENTER

TAMPER SETTINGS: TAMPER AP TYPE

This parameter determines the type of AP tamper on the control unit line (see fig. and board description).

Press ENTER to set the value (CANC = NC; 1=balancing 1k) Confirm with ENTER

TAMPER SETTINGS: TAMPER PERIPHERALS

This parameter enables or disables the anti-sabotage protection of the entire bus 485 line, therefore if it is left disabled, any tampering from the peripherals will not be reported. Press ENTER to set the value (0=disabled, 1=enabled) Confirm with ENTER

OTHER PARAMETERS: DIALER SETTINGS

DIALER SETTINGS: RING NUMBER

This parameter set the ring number during in the incoming calls. It use to manage system with audio support.

Press ENTER to set the value. Confirm with ENTER

DIALER SETTINGS: EVENT DELAY

This parameter set the time between 2 same events for to be logged in memory events and for calls and SMS.

Eg. if there is 10 times same events of manipulation, it is possible put a pause between of 10 sec. in this way you avoid numerous reports and calls for the same event. Press ENTER to set the value. Confirm with ENTER

OTHER PARAMETERS: RADIO SETTINGS

RADIO SETTINGS: SATURATION

This parameter enables the radio saturation notification. Saturation is the complete obscuring of communication between the devices and receivers. The notification and subsequent system alarm is activated after 2 minutes of total radio obscuring.

Press ENTER to set the value (0=disabled, 1=enabled) Confirm with ENTER

OTHER PARAMETERS: EN50131 SETTINGS

EN50131 SETTINGS: ENABLE 50131

This parameter is an automatic configurator for the set up of the control unit in order to be in compliance with EN 50131 - 1 and EN 50131 - 3. When the function is activated the following parameters are changed:

- input and output times set to 45" (only if set higher)
- all inputs configured as double balancing
- masking of the display of the system status. The system status will only appear in the first 30" after arming and disarming.
- activation of all arming blocks for conditions other than the standard ones (open zones, errors, tampers, etc.)

Press ENTER to set the value (0=disabled, 1=enabled) Confirm with ENTER

EN50131 SETTINGS: VISUAL.STATUS

This parameter enable the masking from the display of the system status. The system status will only appear in the first 30" after arming and disarming. Press ENTER to set the value (0=disabled, 1=enabled) Confirm with ENTER

EN50131 SETTINGS: VISUAL.ZONES

This parameter activates the masking of the not ready zones in LCD. In normal mode when there are zones not ready and/or troubles, the LCD displays such zones/troubles. Press ENTER to set the value (0=disabled, 1=enabled) Confirm with ENTER

EN50131 SETTINGS: NO 220 (MIN)

This parameter is the time that elapses between the no power notification, which is instantaneous, and the remote communication through the GSM communicator (SMS, CID). Press ENTER and set the value (value can be set from 0 to 240 sec.) Confirm with ENTER
default: 0 seconds, immediate call

EN50131 SETTINGS EN 50131: SELF-EXCLUSION

It determines the maximum number of consecutive alarms/tampers for zone after which the system will automatically disable it for that single Arming/Disarming. (after disarm the exclusion reset)

Press CANCEL to delete the current value. Set the new value and press ENTER to confirm. It can be set (from 1 to 10) Default = 5

OTHER PARAMETERS: LIFE TEST

This parameter indicates after how many hours the system must regularly inform the user that the life test result is successful and that therefore the system system works properly. (the value to be inserted is expressed in hours)
Press ENTER, press CANCEL to delete the current value. Set the new value and press ENTER to confirm. Can be set from 0 to 240.
Note: the default value is 0 = disabled
It is possible set the hour of start the life test.
eg. every 24hours at 04:00 AM

OTHER PARAMETERS: SPEAKERPHONE

with this parameter is possible disable the audio support from speaker on board, set 0 for disable, 1 for enable.
For volume setting use user menu (111111 default)

OTHER PARAMETERS: QUICK ARMING

With this parameter the control unit can be armed without using your personal code. The settings of " Quick Arming " function are related to the last user available (32th) for link the areas and groups.
Press ENTER and press 1 to enable press 0 to disable **(is important to ready programmed linking programs on user 32)**
Note: the quick Arm work with remote keypads, is not possible use thius feature with on board keypad.

OTHER PARAMETERS: MAINTENANCE

With this parameter put the control unit in maintenance mode. This condition means the system, even in the presence of alarms, tampers, errors, etc., does not activate the siren or remote communications.
When the control unit is in maintenance mode it will show on the display.
Press ENTER set 1 to enable or 0 to disable

```
* MAINTENANCE!   *
    14:30:15
```

PROGRAMMING PANEL WITH SOFTWARE

It is possible program the panel via software, DBexplorer.
There 2 mode for programming: local and remote via cloud system.

Local programming:
- adapter connector COM/USB
- driver for COM/USB
- a cable USB to mini USB standard
- DBexplorer Software

Set the telemanagement code (default is 7777777) **via keypad** go to user code, in installer editor(defalut code 000000) and set **telemang. code**, the same code must be set in the soft, in the tab of user infomartions.

Enable the panel for soft programming, via keypad go to user menu (default 111111) set the menu **enable telemang.** and set **1**.
Open the soft **db explorer** and set the parameter of comunication serial port.
Now it is possible change, send and get all setting from or to the panel.

remote programming, via cloud service:
- Panel must be connected to the cloud with IP board and/or GPRS module

Set the telemanagement code (default is 7777777) **via keypad** go to user code, in installer editor(defalut code 000000) and set **telemang. code**, the same code must be set in the soft, in the tab of user infomartions.

Enable the panel for **remote soft programming**, via keypad go to user menu (default 111111) set the menu **enable telemang.** and set **2 remote cloud programming**.

IMPORTANT: when is enabled the remote programming, set 2, the APP will be inactive for all time that this option is on 2 mode.

Open the soft **db explorer** and set the parameter of comunication remote programming, and Put the **UID CODE** in the space tab.
note: the UID CODE must be copied from installer editor in the **NETWORK MENU --> CLOUD ACCOUNT.**
Now it is possible change, send and get all setting from or to the panel.
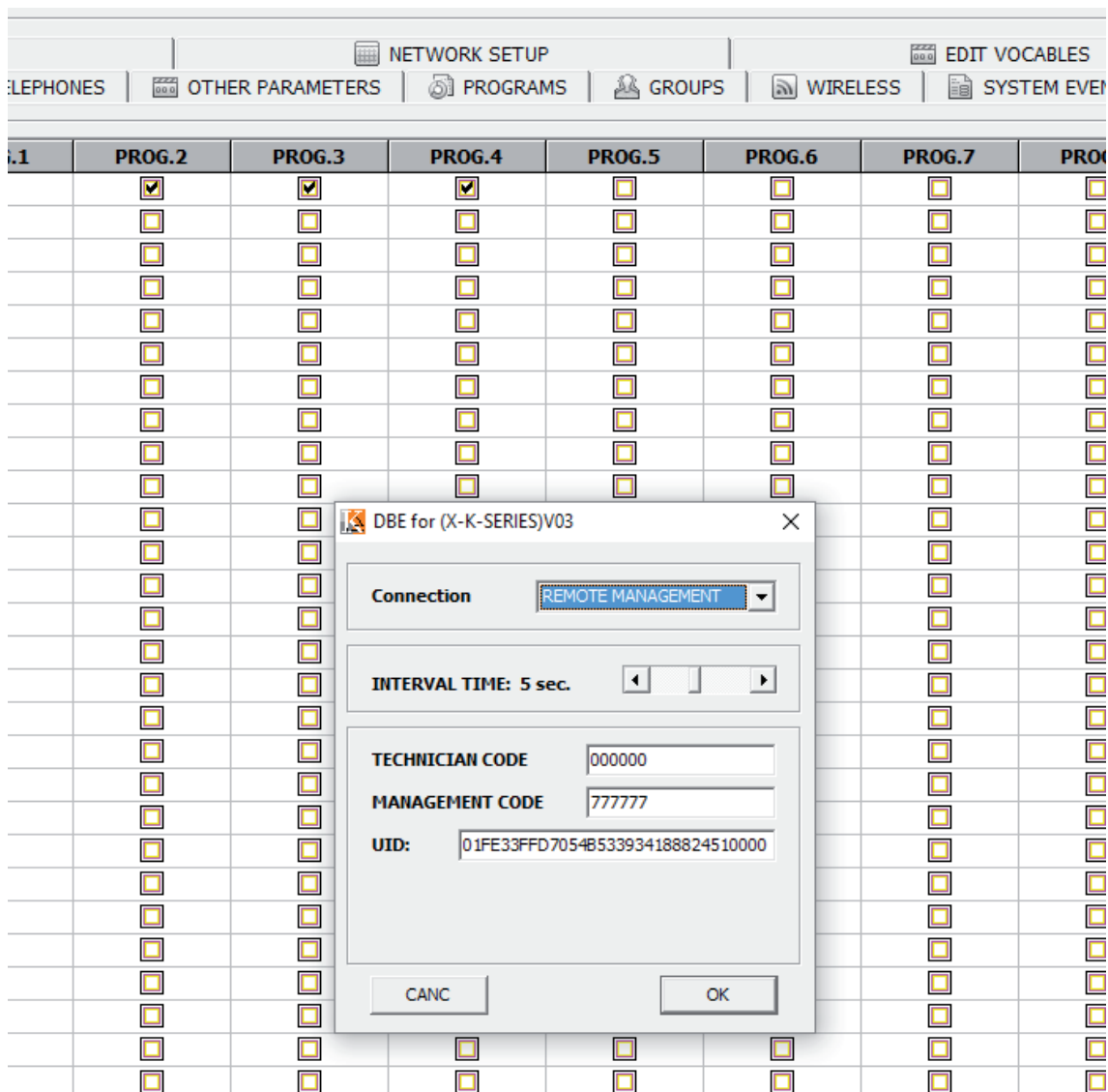
AMC AMANAGER APP

AMC MANAGER is an application for smrtphone that allow the user to manage many parameters of panel:

- **arm and disarm all partitions of panel**
- **bypass all programmed zones**
- **turn ON and OFF all programmed output**
- **monitoring system status**
  - **back up battery**
  - **main power**
  - **all type of Tamper**
  - **gsm signal**
  - **PSTN line status**
  - **peripheral status**
  - **connection cables**
  - **wireless trouble**
- **Log events**

REGISTER APP

After download APP is necessary to register it.

Complete all field:
EMAIL: that you can receive directly to the mobile
Password: create a password for register
After these operations press login and wait email from Cloud AMC.
The cloud will send a mail with:
- 1 code that be set in the app for finish the registering operation or
- 1 button CONFIRM with the link for the direct confirm without code (important: the link must be open directly with APP)

Important: if don't receive mail check in junk mail, if don't work the confirmation button use code.

Important with Android: when you push confirm button must be open the APP, if this do not happen, go in application management, find broswer application and delete default preference.

ADD PANEL TO THE APP

In this section it is possible enter the panels.
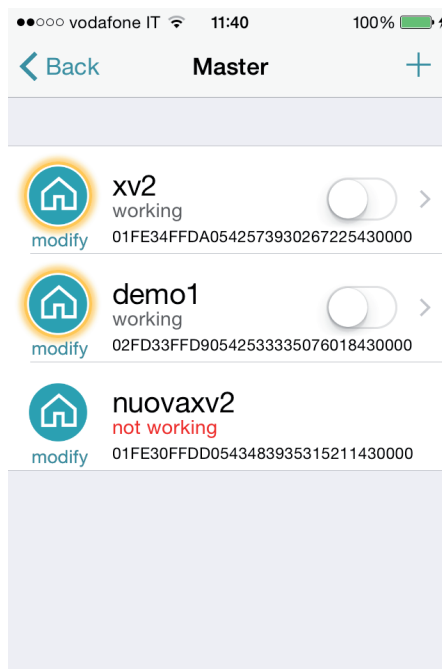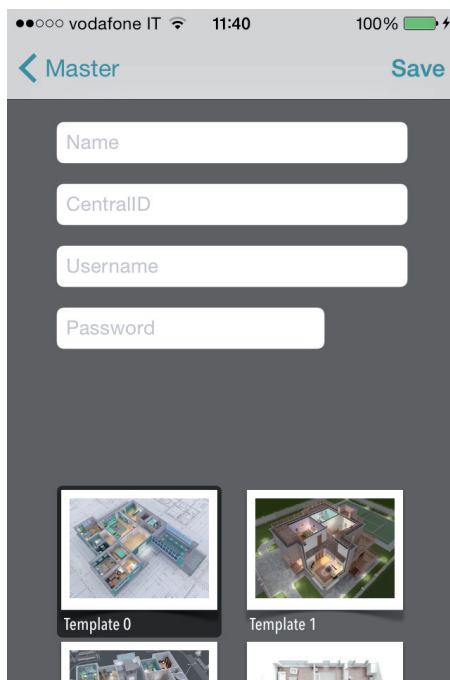
Name of installation ex. **main Home**.
ID: is the **UID CODE** that you found in tha menu **CLOUD ACCOUNT** in the panel
USERNAME and PASSWORS: are be the same that is set in **CLOUD ACCOUNT** menu in the panel

It is possible select a template for map, or use a custom image, or take a photo from internal camera of smartphone.
After this it is possible to manage panel (in pic it is possible to see 3 panel in the same APP)
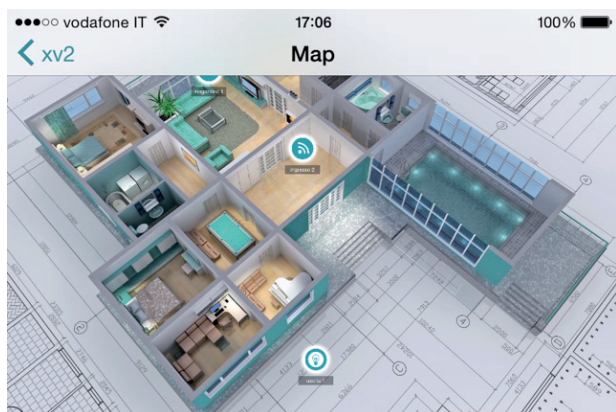
In figure it is possible to see the map when the phone is in land screen (horizontal). It is possible to add and set in right position the zone and the output. Select the photo for each zone and outs.
The app show when the zone is:
ready: green circle
open: orange circle
alarm: red circle
it is possible check and move programmed outs.
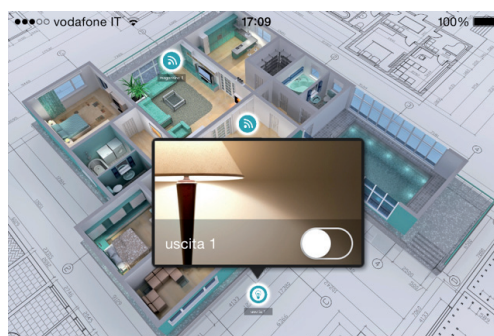
TROUBLES AND STATUS INFO
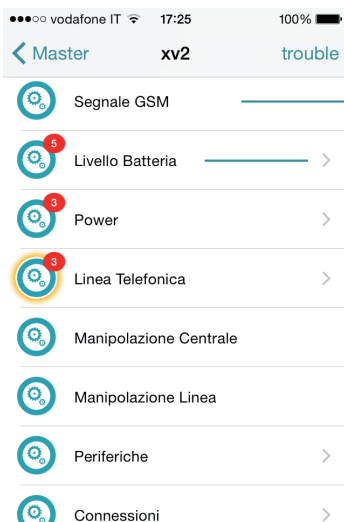
In figure it is possible to see the status of panel:
- back up battery
- main power
- all type of Tamper
- gsm signal
- PSTN line status
- peripheral status
- connection cables
- wireless trouble
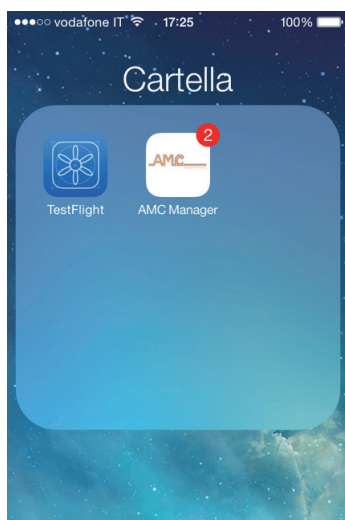
In case of alarm it is possible receive notification with push technology (save battery life) In figure it is possible to see events and notification.

HOW TO USE THE SYSTEM (USER MANUAL)

ARM/DISARM PARTIALS AND GORUP

When the system is disarmed, digit personal code (default 111111).
The screen that appear will be the program and/or group that is linked
to the code, **AFTER 3 SEC. START THE COUNTDOWN OF ARMING.**

Before starting time exit (3 sec.) it is possible change the program
and/or group by using the number keys and G keys. Figure 2 shows
the activation of partial 1, the line above shows the name and the
line below shows which partial was selected.
Fig. 3 shows the activation of Group (1 and 2). By using G key.
After selection in 3 sec. will start again time exit.

fig1

| *Total* |
| *1234* |

fig2

| *program 1* |
| *1 - - - - - - -* |

fig3

| *perimetric* |
| *1 2 - - - - - -* |

**Note: partial selection is step-by-step so pressing the number of
the partial more than once turns it off and back on.**

ARM/DISARM GROUPS BY QUICK ARM (ONLY FOR REMOTE KEYPADS)

Each group can be given a name and be associated with the desired partials.
Once programmed, activation is done in the same manner as the partials (see below ... ARM and DISARM)
with G keys it is possible set the quick ARM (arming without code, 1 touch). For set quick code, go in other parameters, menu QUICK
ARM and enable (switch to 1). For modify the Group (G 1-2-3-4) that be start without code, set the user 32 or 64 of panel, this user
is used for set the quick code. **After settings when one of G is pressed will start the arming Group (G).**
For change the group before starting press anothe G keys in 3 seconds before starting time exit.

| G1 | | G2 | | G3 | | G4 |

fig2

| *PERIMETER* |
| *- 2 3 4 - - - -* |

In the figure, the group called "PERIMETER" is made up of 3 partials (2-3-4)

Note: When is active the option **EN 50131** is not possible arm the panel when there are the following troubles:
**no main power, battery low, tamper, line tamper, peripheral tamper, no gsm, no lan, interconnection between
devices, wireless fault wake up.**

BYPASS ZONE

There are 2 different way of bypass: **EXCLUSION and INHIBITION.**

EXCLUSION **(P)** = Permanent mode, the zone will remain bypassed always. For unbypass you need go in specify menu
INHIBITION **(T)** = Temporary mode, the zone will remain bypassed only for actual arm, after disarming the zone will return ready.
NO BYPASS (■) = No bypass, the zone is ready
NO BYPASS (█)=No bypass, the zone not ready

Bypass with not ready zones: during in the arming procedure the system show the message zones not ready, and invite to
select the buttons for check,bypass, include (1 = include, 2 = inhibition, 3 = check) when is pressed 3, the system will show the
menu of bypass (fig)

| *BYPASS ZONES* |
| *V-Select* |

| *[01] Zone 01* |
| *P T ■ ■ ■ ■ ■* |

press ENTER for go in menu zone bypass, press X key for choose between **P T**
Bypass with system ready (all zone closed): during in the arming procedure, immediately after selected partitions, press X
button to go in the bypass menu, the procedure is the same.
When the system is armed with bypassed zones, the type is armed will be **FORCED** in event log it is possible to see witch zone is
bypassed and in witch way.

NOTIFICATIONS (QUICK VIEW OF LAST EVENTS)

The notification system is a quick view of last events from the control panel. When the red LED on the keypad turns on, the control unit is notifying that there are events to read. Pressing the CANCEL key accesses the notification screen. In the figure, the system shows that there are 3 notifications to read. They can be read after inserting an enabled code.

Fig 1 the system shows 3 notifications

```
     3 Events        fig 1
     [          ]
```

Fig 2 When the code is entered, the system shows the notifications in chronological order. You can scroll through the log using the up arrow key.

```
16:35 - 27/02/13      fig 2
lounge radar alarm
```

Fig 3 When they have been read the red LED will turn off and the message in the figure will appear

```
<<      NO NEW    >>   fig 3
<<   EVENT  >> #Exit
```

EVENTS MENU

The system save 1000 events with rotating update system. Once the log capacity is full, the system will delete the oldest event to make space for new ones. Is it possible read the event log sort by type.
For enter in menu event, insert code select MENU EVENT with vertical arrow, press enter and choose.

```
EVENTS MEMORY
     All
```
Fig1 Reading menu for all events

```
EVENTS MEMORY
    Unread
```
Fig 2 Reading menu for only unread events

```
EVENTS MEMORY
    Alarms
```
Fig 3 Reading menu for only alarm events

```
EVENTS MEMORY
   Anomalies
```
Fig 4 Reading menu for events connected to operating errors

```
EVENTS MEMORY
Arming/Disarming
```
Fig 5 Reading menu for system arming and disarming events

```
EVENTS MEMORY
    Users
```
Fig 6 Reading menu for user accesses

SYSTEM INFO

The control panel has a quick menu to access to basic information. When panel is disarmed if is pressed X, after code it is possible view these info system, every X pression give more info:

- **quick event log menù**
- **PSTN status**
- **GSM status**
- **Battery status**
- **Main Power status**
- **IP board Internet status**
- **2G/3G board Internet status**
- **Cluod connection status**
- **Firmware version**
- **Hardware status**

ENABLE INSTALLER ACCESS

The rules of EN standards require that a **user level 3** need permission of **user level 2** for enter in programming menu panel.
This parameter is ENABLE INSTALLER ACCESS. When this parameter is set to 1, the installer can enter in programming menù.
Use personal code (level 2) and with down arrow go to parameter ENABLE INSTALLER ACCESS,Press enter and set 1 to allow.
(0=not allowed)

ENABLE REMOTE MANAGEMENT

For programming panel with software PC, is necessary enable the system.
There are 2 ways for prgramming panel:
1 = local programming with usb cable and adapter socket
2 = remote internet programming via cloud
Use personal code (level 2) and with down arrow go to parameter ENABLE TELEMANAGEMENT, Press enter and set:
0 = FOR DISABLE PROGRAMMING SOFTWARE (ONLY KEYPAD)
1 = LOCAL PROGRAMMING SOFTWARE
2 = REMOTE INTERNET PROGRAMMING VIA CLOUD **(when this option is enabled, the app no working)**

ENABLE TELEMANAGEMENT	*TELEMANAGEMENT* *Enabled 1*

CHANGE CODE MENU

Every user (level 2) can change its own code.
Use personal code (level 2) and with down arrow go to parameter CHANGE PERSONAL CODE, Press enter and set new code.
Is important set another code, with same length of characters, in case of error system do not permit to save new code.
Note: with MASTER code (particular level code) it is possible modify all user level 2 codes.

CHANGE PERSONAL CODE	*CODE: User Nr 01* *111111*

DATE/TIME MENU

Set the date and time on this menu
Enter the menu, press ENTER to change
Press ENTER again to enter the day of the week (1 for Mon, 2 for Tue...0 for sun)
Press the Right arrow to enter the day/month/year/hours/minutes in sequence **Confirm with ENTER**

ACTIVATE PROGRAMMED OUTPUTS

The control unit has a system with a synoptics panel for quick activation of the outputs associated to a user code. Once entered in the output activation menu, press ENTER and go to the associated outputs. Use the vertical arrow keys to activate and deactivate.

The figures to the side show the output activation screens. The outputs that can be activatedare only those showing 0=deactivated and 1=activated.
All outputs marked with a dash cannot be activated because they are programmed with other functions.
Once you have entered the activation menu, use the horizontal arrow keys to move from one output to the other and the vertical arrow keys to activate or deactivate
(up arrow = activate, down arrow = deactivate)

ACTIVATE OUTPUTS

[05] name output 05 *0 - - - 0 - - - - - - - - - -*

[05] name output 05 *0 - - - 1 - - - - - - - - - -*

SHORTCUT

The system has quick keys (SHORTCUT) with which to active some signals and outs.
Panic shortcut: panel has 2 type, **silent with G2 and G3**, press in the same time for 2 seconds, **siren with G1 and G4.**
Activation outputs shortcut: it is possible program and link the outs direct to the number button of kepad, when this button is press and hold for few seconds, the outs turn status and dipslay show the operation.

garden light activate

garden light deactivate

MENU TIMER

The panel has a system timer, for arm and disarm, for enable and disable outs, for enable and disable users.

During the autoarming will start a extra time of 1 minutes, after this time will start the exit time.

During in exit time is possible stop the autoarming by insert code level 2.

It is possible set the timer for auto arming in a sequence of arming with sequential hour:

For example:

- first try to arm at 8:00

- second try to arm at 9:00

- third try to arm at 10:0

In this way if the user stop the first sequence by code, the panel will try with second try to arm after 1 hour.

In autorming mode, the panel will arm only if all condition are ok:

- All zone ready

- No error or fault

In case of zones not ready, and/or some Tamper or fault, the system will not arm, and the same time will send the notification of fail arm.

With autoarming is not possible bypass zone.

The user level 2 can stop all operation by timer:

- Enter code level 2

- with vertical arrows go to menu timer

- press enter for modify parameter: (0 = timer disabled, 1 = timer enabled)

When the timer is set on 0, all operation are stopped.

PROGRAMMING AND CANCELLING KEYS

The Master user can program the key of tag reader for all user:

Selected the PROGRAMMING KEYS menu, confirm with ENTER, select the user by using the vertical arrow keys, send the learning command by pressing ENTER, 15" countdown will start during which the LEDs on the READER will flash and the user must place a key close to the READER when the code is learned, the led stop, and in keypad diplayed succesfull.

PROGRAM KEY User Nr 01	Insert Key by 15 sec.

Cancellation is done in exactly the same manner as programming. Once the user to be cancelled is selected, press ENTER to confirm cancellation.

CREDIT MANAGEMENT

In this menu is it possible enter the parameters for sending the credit request SMS.

A specific menu "TEL. provider" and "SMS provider" can be used to enter data for Other Mobile Phone Providers.

For Check the correct value of SIM credit, is important that the KEYWORD be entered. The keyword is a word immediately before number of credit value, in the SMS sent by provider. The Credit value is always updated each time the control unit performs a data CMS call or sends an sms. The message received from the provider containing the credit value will be shown directly on the display. Credit threshold is the minimum level credit before send the info. (default is 3€ or other currency)

MENU NETWORK

ACCOUNT CLOUD

I this menu are all parameter that used for registartion to the cloud. (for APP)

username:it used for name ID, the same name must be inserted to the APP during to the registration panel

password: password, the same password must be inserted to the APP during to the registration panel

UID CODE: this code is most important because is the unique identification code of panel. Must be inserted to the APP with all number and characters **IDENTICAL.**

NOTE:it is possible have the same password and username with different UID in the same APP (main house, beach house etc.)

enable cloud: the cloud service must be enabled for have APP and push in real time, the cloud is used for remote programming too.

system name: is only the name of panel, in 1 app it is possible program more panels with diffrent name

TEST MENU

The control unit is equipped with a test tool for check if the system work properly.
The tests that can be performed are: - sirens - inputs - outputs - voice call - CMS call - ETC.

In the fig. it screens the siren test. ENTER key to activate and deactivate the siren test

TEST
Siren

SIREN TEST
Activate ??

SIREN TEST
Disactivate ??

The wireless test, is a tool that permit to test the distance of installation in real time of each device that is programmed

TEST
WIRELESS

PRESS TAMPER
DEVICE

MAIN DOOR
▮▮▮▮▮▮▮▮▯▯

The zones test is performed by counting down programming zones. In the figure there are 34 inputs to test. After test (by passing in front of sensors) press enter, in case some sensor don't work the system will show that sensor.

ZONES TEST	
Tot:34	V-stop

The output test is made by select the out and activate for 5 seconds. The figure shows the test screen. Use the ENTER key to activate the output.

TEST OUTPUTS	
Tot:17	V-start

01-output one
Activate??

01-output one
Activated (4.3.2...)

For the CMS test, the call will be made to telephone number no. 1, communicating the life test event. The call is activated by pressing ENTER and waiting for it to arrive.
The event that is sent is always the life test (event no. 602).
It is possible test with all vectors, for each vector it is possible have feedback info.

TEST
VoiceCall PSTN/GSM

TEST
ContactID PSTN/GSM

TEST
ContactID GPRS/Lan

TEST
Sia FSK PSTN

TEST
Sia IP GPRS/Lan

TEST
4+2 PSTN/GSM

SMS MANAGEMENT

ARM/DISARM THE CONTROL UNIT VIA SMS

To arm and/or disarm the control unit you must have a user code:

UPWD:111111 ARM=T	TOTAL ARMING
UPWD:111111 ARM=1	PARTIAL1 ARMING
UPWD:111111 ARM=123	ARMING OF PARTIALS 1 - 2 - 3
UPWD:111111 DISARM=T	TOTAL DISARMING
UPWD:111111 DISARM= 2	DISARMING OF ONLY PARTIAL 2
UPWD:111111 DISARM= 12	DISARMING OF PARTIALS 1 - 2
UPWD:111111 ARM?	

ARMING STATUS REQUEST FROM THE CONTROL UNIT

ARM = 0 DISARMED
ARM =T TOTAL ARMED
ARM = 12 PARTIALS 1 - 2 ARMED

UPWD:111111 ARM=T TOTAL ARMING

Without spaces   **One space**   **Without spaces**
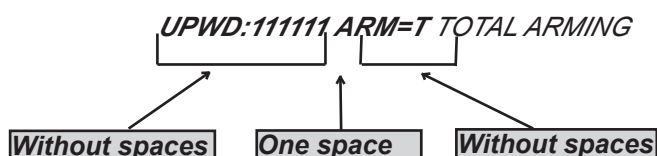
SMS COMMANDS

This is the complete list of all of the system programming/querying commands

LOCK	SYSTEM UNLOCK COMMAND (to allow to modify phone numbers) (**LOCK=1** for unlock)
TPWD	TECHNICIAN PASSWORD DECLARATION (**TPWD:000000** CODE)
UPWD	USER PASSWORD DECLARATION (**UPWD:111111** CODE)
ARM	ARMING COMMAND (**T=total 1=partial 1 etc.**)
DISARM	DISARMING COMMAND (
OUT.x	OUTPUT SELECTION COMMAND
IN.x	INPUT SELECTION COMMAND
TEL.x	TELEPHONE SELECTION COMMAND
:	IS USED FOR USER/INSTALLER CODE
=	COMMAND FOR ASSIGN PARAMETER
?	REQUEST INFO COMMAD

HOW TO CREATE A REQUEST AND PROGRAMMING SMS

To send a command to the system you need follow a few simple rules:

For example, in order to the installer to change a telephone number, he must first have authorisation from the system owner (system unlock)

UPWD:111111 LOCK=OFF this command unlocks the programming via sms for 20 minutes.

This unlock must be done by the system owner. (final user)

Now the installer can give the command:

As you can see, the message is made up of two commands:

TPWD:000000   **TEL.1=+393358554574**

Without spaces   **One space**   **Without spaces**
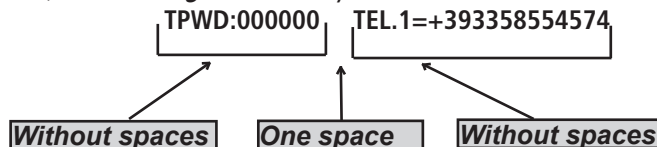
1 - the password declaration (TPWD:000000 or UPWD:111111) This command requires the (:) (colon) to enter the code.

2 - this is the operational part of the message that uses the (=) to assign the operation, the (?) to request information (a few examples follow)

TEL.1=+393358554574 setting telephone number response from the system TEL.1:OK
OUT.2=onoutput 2 activation response from the system   OUT.:OK
OUT.4=off deactivation of output 4 response from the system   OUT.4:OK
IN.2? input 2 status request response from the system IN.2=OP (if open) IN.2=CL (if at rest)

```
TECHNICAL
CODE
```

```
MENU
PERIPHERALS
```
→
```
Keypads
```
→
```
Keypad    12345678
ON/OFF   □●●●●●●
```

```
Keypad 01    K<>A
SOUND        □●●●
```
- - →
```
K = Key sound
< = input time sound
> = output time sound
A = buzzer input sound
```

```
In/Out keypad 01
1-OFF    2-OFF
```
→
```
In/Out keypad 01
1-IN 05    2-OUT 02
```

```
Zones exp.
```
→
```
Expansion 1234567
ON/OFF   □●●●●●●
```

```
Outputs exp.
```
→
```
Expansion      1234
ON/OFF        □●●●
```

```
Wireless exp.
```
→
```
Expansion        1
ON/OFF           □
```

```
GSM Exp.
```
→
```
GSM Exp.        1
ON/OFF          □
```

```
IP module
```
→
```
IP module       1
ON/OFF          □
```

```
Tag Reader
```
→
```
Plug            1234
ON/OFF        □●●●
```

```
Plug 01      K<>A
SOUND        □●●●
```

```
AreasTagReader 1
```
→
```
Prg.           1234
LED1          □●●●
```

```
Prg.           1234
LED4          □●●●
```

```
MENU
TEL.NUMBERS
```
→
```
TEL. NUMBER [01]
(from 01 to 08)
```
· · · · ·
```
TEST  NUMBER [08]
```

```
PREFIX TEL [01]
Pstn( ) Gsm( )
```

```
TEL. OPTION ABC
Tel 01        □●●
```
→
```
TEL. OPTION ABC
from 01 to  08
```

```
SET A = for aswer confirm by #
SET B = menu access without code
SET C = reset call progress
```

```
TEL. NUMBERS
AttemptsTime  15
```

```
TEL. NUMBERS
Waiting Reply 50
```

```
TEL. NUMBERS
Attempts Num.  3
```

```
TEL. NUMBERS
Mex Repetition 2
```

```
Call Reset
999999
```

```
MENU
SYSTEM EVENTS
```
→
```
SYSTEM EVENTS
Link Phone Numbers
```
→
```
M01/Tel    12345678
*-View     T-V -S- - -
```

```
SYSTEM EVENTS
Play / record
```

```
Press* to see event
```

```
SET S = for SMS Messages
SET V = for voice
SET t = all )VOICE and SMS
```

```
FAULT        230V
*-View     S- -S- - -
```

```
M1 = FAULT 230V
M2 = RECOVERY 230V
M3 = FAULT Battery
M4 = Life Test
M5 = FAULT   GSM
M6 = Tamper
M7 = RF Noise
M8 = RF Saturation
M9 = RF Battery
M10 = No Supervision
M11 = RF Tamper
M12 = User Disabled
M13 = System Lock
M14 = Coercion
M15 = Line  TEL FAULT
M16 = Line TEL.RECOV.
M17 = FAULT Connection
M18 = ARM FAILED
M19 = System Arming
M20 = Total Disarming
M21 = Part.  Ddisarming
Credit
Echo
```

MENU
ZONES

→

[01] name zone
V-select

[01] name zone
ENROLL NEW

→

[01] ADD
Id: ---------

[01] name zone
ENROLLED DEVICES

[01] name zone
WIRED ZONE

→

TYPE
OFF

→

[01] name zone
PARAMETERS

→

Zones Menu
Function

→

(Z01) → Off = not configured
(Z01) → No EOL = N.C. or N.O.
(Z01) → Switch Alarm
(Z01) → wireless
(Z01) → 1 Bal. 1K
(Z01) → 1 Bal. 2K2
(Z01) → 1 Bal. 3K3
(Z01) → 1 Bal. 3K9
(Z01) → 1 Bal. 4K7
(Z01) → 1 Bal. 6K8
(Z01) → 1 Bal. 8K2
(Z01 – TAM) → 2 Bal. 4K7 2K2
(Z01 – TAM) → 2 Bal. 6K8 3K3
(Z01 – TAM) → 2 Bal. 2K2 1K
(Z01 – TAM) → 2 Bil. 6K8 6K8
(Z01 – TAM - MAS) → 3 Bal. 2K2 1K 4K7

silent panic 24H
instant alarm
Entry / Exit
Fault
24h alarm
on/off Key switch
Follow
robbery
only dialer when system armed (Silent Alarm, No Siren, Yes in event log)
technological

Polarity
Norm. CLOSED

Lock Exclusion
no

Test Enabling
no

Chime
no

Autoexckusion
no

Unbypass
no

Alarm Pulses
1

Autoex. cycles
3

Zone delay   sec.
30

Perimeter
Yes

Volumetric
Yes

Area 3
No

Area 4
No

Phone nr. 1 - 8
Not used

Name1   [136]
main

Name2   [133]
door

Name4   [0]
-

MENU
Zone status

→

[01] zone name
●●●●●●●●●●●●●●

```
┌──────────────┐      ┌──────────────┐     ┌──────────────────┐    ┌──────────────────┐       ┌─────────────────┐
│    MENU      │ ───→ │ MENU OUTPUTS │ ──→ │ U01-Output Nr 01 │ ─→ │ U01-Output Nr 01 │ ----→ │ 01 Kitchen      │
│   OUTPUTS    │      │    Names     │     │  * - play  V-Edit│    │ 180 179 000 000  │       │ 02 Salon        │
└──────────────┘      └──────────────┘     └──────────────────┘    └──────────────────┘       │ 03 Window       │
      │                      │                                                                 │ 04 Blind        │
      │                      ↓                                                                 │ 05 Shade        │
      │               ┌──────────────┐     ┌──────────────────┐                                │ 06 Bathroom     │
      │               │ MENU OUTPUTS │ ──→ │ [01] output one  │                                │ 07 etc. etc.    │
      │               │   Function   │     │        XVBNA---  │                                └─────────────────┘
      │               └──────────────┘     └──────────────────┘
```

- = output disabled
1 – 8 = partial arming
A = external alarm (siren)
B = low battery
C = system arming status
D = bell buzzer
E = attempted user timer access
F = siren log
G = no gsm signal
H = anti-aggression panic
I = activation on input opening (from Input Menu)
L = System lock
M = memory (red keypad LED)
N = PSTN line fault
O = total arming
P = pilot
Q = shortcut
R= System Disarmed
S = system control (green keypad LED follows)
T = timer activation
U = user code activation (local and remote)
V = no 230 Vac
W = multi function
Y = no radio supervision
Z = radio batteries low

```
┌──────────────┐     ┌──────────────────┐
│ MENU OUTPUTS │ ──→ │ [01] output one  │
│  Durations   │     │ 00 h  00 min  00 │
└──────────────┘     └──────────────────┘

┌──────────────┐     ┌──────────────────┐
│ MENU OUTPUTS │ ──→ │ [01] output one  │
│    Delay     │     │ 00 h  00 min  00 │
└──────────────┘     └──────────────────┘

┌──────────────┐     ┌──────────────────┐
│ MENU OUTPUTS │ ──→ │ [01] output one  │
│   Polarity   │     │        00000000  │
└──────────────┘     └──────────────────┘

┌──────────────┐     ┌──────────────────┐
│ MENU OUTPUTS │ ──→ │ [01] output one  │
│  Auto Reset  │     │        00000000  │
└──────────────┘     └──────────────────┘

┌──────────────┐     ┌──────────────────┐
│ MENU OUTPUTS │ ──→ │ [01] output one  │
│Operating Cond.│    │       XXXXXXXX   │
└──────────────┘     └──────────────────┘
```

X = function always active
A = only when system armed
D = only when system disarmed
T = only Total
1 – 8 = corresponding partial

```
┌──────────────┐     ┌──────────────────┐
│ MENU OUTPUTS │ ──→ │ O01/Tel  12345678│
│Telephones Link.│   │ output one ●●●●●●│
└──────────────┘     └──────────────────┘

┌──────────────┐     ┌──────────────────┐
│ MENU OUTPUTS │ ──→ │ O01- User Nr 01  │
│  Users Link  │     │ ●●●●●●●●●●●●●●   │
└──────────────┘     └──────────────────┘

┌──────────────┐     ┌──────────────────┐
│ MENU OUTPUTS │ ──→ │ O01- zone  one   │
│  Zones Link  │     │ ●●●●●●●●●●●●●●   │
└──────────────┘     └──────────────────┘
```

This parameter lets you activate the output by a ring of a telephone.
Select the output and associate the telephone numbers.
IMPORTANT: always enter the telephone number with the
international prefix (+39 for Italy)

```
┌──────────────┐      ┌──────────────┐
│  WIRELESS    │ ───→ │  WIRELESS    │
│  RECEIV.     │      │ LOCAL RESET  │
└──────────────┘      └──────────────┘
      │                      │
      │                      ↓
      │               ┌──────────────┐
      │               │  WIRELESS    │
      │               │ EXPR1  Reset │
      │               └──────────────┘
      │                      │
      │                      ↓
      │               ┌──────────────┐
      │               │  WIRELESS    │
      │               │ Local RSSI 0%│
      │               └──────────────┘
      │                      │
      │                      ↓
      │               ┌──────────────┐
      │               │  WIRELESS    │
      │               │ Expr1 RSSI 0%│
      │               └──────────────┘
      ↓
```

MENU
AREAS

MENU AREAS
Areas Names

P01-AREA Nr01
V-Edit

P01-AREA Nr01
106 000 000 000

01 Kitchen
02 Salon
03 Window
04 Blind
05 Shade
06 Bathroom
07 etc. etc.
08

MENU AREAS
Area 1 Zones

[01] zone one
□□□□□□□□●●●●●●

MENU AREAS
Exit Times

[01] AREA 1
[Sec]   30

MENU
GROUPS

MENU GROUPS
Names

G01- Group 01
*-Play   V-Edit

G01- Group 01
176 000 000 000

01 Kitchen
02 Salon
03 Window
04 Blind
05 Shade
06 Bathroom
07 etc. etc.
08

MENU GROUPS
Groups - areas

G01/Prg   1234
total   □□□□

MENU
PSTN

PSTN
Notification   1

PSTN
SkipAnsw.Mach. 0

PSTN
Line check   1

PSTN
DtmfAmplitude   0

PSTN
Dial tone check   1

PSTN
Compos. Waiting 2

PSTN
RingBack check   1

PSTN
Ring Pause   4.0

MENU
ARMING LOCK

ARMING LOCK
No220V   0

ARMING LOCK
Battery   0

ARMING LOCK
Tamper   0

ARMING LOCK
LineTamper   0

ARMING LOCK
Periph.Tamper   0

ARMING LOCK
NoGsm   0

ARMING LOCK
Interconnetion   0

ARMING LOCK
Wireless inact.   0

ARMING LOCK
NoPstn   0

MENU
TIMERS

TIMERS
Setting

TIMERS
Day   [Sun]

Timer 01 – Sun
hr 00:00 min

Timer 01 – Sun
AREAS

Prg.   1234
AREA 1   - - - -

TIMERS
Day   [Sat]

Timer 04 – Sun
hr 00:00 min

Timer 01 – Sun
OUTPUTS

[01] output one
- - - - - - - -

TIMERS
Exclusion

Period 01
00/00 ←→ 00/00

Timer 01 – Sun
USERS

[01] User Nr 01
- - - - - - - - - - - - - - - -

Period 08
00/00 ←→ 00/00

TIMERS
Enable Exclusion

T01-Sun   12345678
●●●●●●●●

T04-Sat   12345678
●●●●●●●●

TIMERS
Alert   (Min) 0

| MENU
USERS | → | USERS
Users Names | → | User Num.   [01]
User Nr 01 |

| | USERS
Users Type | → | [01] User Nr 01
                    M |

C = *only for activate outs*
H = *vacation mode*
I = *display only system status*
M = *master (read events, date, time, program keys, delete keys, display input status, residual credit, adjust volume, chenge timer)*
P = *Silent Panic / duress*
R = *change user code and program keys*
U = *user arming and disarming*

| | USERS
Codes Setting | → | Technician Code
000000 |

Telemanag. Code
777777

CODE:User Nr 01
111111

CODE LENGHT
                    6

| | USERS
Areas Linking | → | U01/Prg   12345678
User Nr 01 ☐☐☐☐☐☐☐☐ |

| | USERS
Groups Linking | → | U01/Group   1234
User Nr 01   ☐☐☐☐ |

| MENU
DATE/HOUR | → | DATE HOUR
Settings | → | Sun 01/01/00
08:00:00 |

DATE HOUR
Summer Time   0

| MENU
EVENTS | → | EVENTS MEMORY
All |

EVENTS MEMORY
Unread

EVENTS MEMORY
Alarms

EVENTS MEMORY
Anomalies

EVENTS MEMORY
Arming/Disarming

EVENTS MEMORY
Users

| MENU
SYSTEM RESET | → | SYSTEM RESET
Users Codes | → | Reset Ongoing
Wait... | → | Reset Completed
Exit |

| | SYSTEM RESET
Configuration | → | Reset Ongoing
Wait... | → | Reset Completed
Exit |

| | SYSTEM RESET
Events Memory | → | Autorization
[   ] | → | Reset Ongoing
Wait... | → | Reset Completed
Exit |

| MENU
Edit Vocables | → | EDIT VOCABLES
Vocables list | → | Voc. Num.   [001]
masking |

Voc. Num.   [009]
alarm

| EDIT VOCABLES
Audio message | → | WORD NUM [001]
*-PLAY x-REC |

| MENU
Priority vector | → | Priority   [01]
PSTN |

Priority   [04]
LAN

MENU ADEMCO	→	ADEMCO CID Events

| ADEMCO
Enable CID | → | SIREN
. |

ADEMCO Phones Numbers	→	TEL.NUMBER [01] *(from 01 to 04)*
		BACKUP TEL. [01] *(from 01 to 04)*
		RESPONSE WAIT (sec.) 15

ADEMCO Network Parameters

| IP/DOMAIN   [01]
192.168.1.1 |
| IP/DOMAIN   [02]
192.168.1.21 |
| PORT NUM.   [01]
10000 |
| PORT NUM.   [02]
10001 |
| PROTOCOL [01/02]
Tcp/udp |
| ENCODING
DC09 cid/sia |
| DATA   SESSION
(sec.)   60 |
| PHONE SMS
BACKUP |

ADEMCO Network Monitor

| IP ADDRESS
192.168.1.100 |
| PORT NUMBER
8080 |
| ID MONITOR
12345678 |
| TIME MONITOR
1 MIN. |

ADEMCO System ID	→	ID Prg 01 1234
		ID Prg 08 1234

ADEMCO
4 + 2 Events

| ADEMCO
Max Attempts   4 |
| ADEMCO
Zone Recovery   1 |
| ADEMCO
Delay Recovery   0 |

4 + 2 Events list:

| ARM. BY USER 01
[10] |
| DISAR.BY USER 01
[20] |
| ZONE ALARM 01
[30] |
| ZONE RECOVERY 01
[40] |
| ZONE BYPASS 01
[50] |
| AC MISSING
[60] |
| AC RECOVERY
[61] |
| LOW BATTERY
[62] |
| RECOVERY BATTERY
[63] |
| TAMPER
[64] |
| TAMPER RECOVERY
[65] |
| REMOTE ARMING
[66] |
| REMOTE DISARMING
[67] |
| ROBBERY
[68] |
| LIFETEST
[00] |
| ARMED BY PRS
[70] |
| DISARMED BY PRS
[80] |
| AUTOARM.FAILED
[90] |
| PANIC
[A0] |
| PANIC RECOVERY
[B0] |

CID Events list:

| SIREN
320 |
| ZONE TAMPER
137 |
| NO 220V
301 |
| LOW BATTERY
309 |
| NO GSM LINE
351 |
| SYSTEM ON/OFF
401 |
| REMOTE ON/OFF
407 |
| ON/OFF BY TIMER
403 |
| LIFE TEST
602 |
| RF NOISE
344 |
| WIR.DEV.LOW BAT.
384 |
| WIREL.NO SUPER.
381 |
| WIRELESS TAMPER
383 |
| PERIPH.TAMPER
341 |
| PROG.MODE ENTRY
627 |
| SYSTEM RESTART
305 |
| WRONG CODE
461 |
| ZONES EXCLUSION
570 |
| COERCION
121 |
| ZONE   PANIC
120 |
| TECNO INPUT
150 |
| EVENT LOG RESET
621 |
| GENERAL RESET
313 |
| PHONE LINE
352 |
| MASKING
138 |
| CONNECT FAILURE
143 |
| INPUT FAILURE
144 |
| AMRMING FAILED
453 |
| [01] zone 1
130 |
| [64] zone 64
130 |

MENU
TEST

TEST
Siren

SIREN TEST
Activate??

SIREN TEST
Disactivate??

TEST
zones

ZONES   TEST
Tot:08   V-Stop

ZONE   TEST
01- zone 1

TEST
Outputs

TEST OUTPUTS
Tot:05   V-Start

01-output   1
Activate??

TEST
Voicecall GSM

TEST
ContactID GSM

TEST
ContactID 2G/3G/LAN

TEST
Sia ip 2G/3G/LAN

TEST
Ademco4+2 GSM

NETWORK
Lan Parameters

AUTOMATIC IP
Dhcp   0

AUTOMATIC IP
Dhcp   1

Ip address
192.168.1.1

Subnet mask
255.255.255.000

Gateway
192.168.1.5

DNS1
000.000.000.000

DNS2
000.000.000.000

MENU
NETWORK

NETWORK
Cloud parameters

Do not
Modify!!!!

NETWORK
Cloud Account

CLOUD SERVICE
Enabled   0

USER NAME
Administrator

PASSWORD
admin

SYSTEM NAME
example   K8 +

UID CODE

NETWORK
Cloud notificat.

NOTIFICATIONS
Alarms   1

NOTIFICATIONS
Users   1

NOTIFICATIONS
Arm/Disarm   1

NETWORK
Gprs parameters

ENABLE GPRS
                  0

ACCESS POINT

USER NAME APN

PASSWORD APN

```
┌──────────────────┐      ┌──────────────────┐      ┌──────────────────────┐
│ MENU             │      │ OTHER PARAMETERS │      │ OTHER PARAMETERS     │
│ OTHER PARAMETERS │─────▶│ Siren Settings   │─────▶│ Siren Pause      15  │
└──────────────────┘      └──────────────────┘      └──────────────────────┘
                                   │                           │
                                   │               ┌──────────────────────┐
                                   │               │ OTHER PARAMETERS     │
                                   │               │ Siren Durat.     45  │
                                   │               └──────────────────────┘
                                   │                           │
                                   │               ┌──────────────────────┐
                                   │               │ OTHER PARAMETERS     │
                                   │               │ Siren Cycles      0  │
                                   │               └──────────────────────┘
                                   │                           │
                                   │               ┌──────────────────────┐
                                   │               │ OTHER PARAMETERS     │
                                   │               │ Siren to keypad   0  │
                                   │               └──────────────────────┘
                                   │                           │
                                   │               ┌──────────────────────┐      ┌──────────────┐      ┌─────────────────┐
                                   │               │ OTHER PARAMETERS     │      │ SQUAWK       │      │ PROG     1234   │
                                   │               │ Squawk setting       │─────▶│ Enable       │─────▶│ LOCAL    . . . .│
                                   │               └──────────────────────┘      └──────────────┘      └─────────────────┘
                                                                                        │               ┌─────────────────┐
                                                                                        │               │ PROG     1234   │
                                                                                        │               │ REMOTE   . . . .│
                                                                                        │               └─────────────────┘
                                                                                 ┌──────────────┐      ┌──────────────────────┐
                                                                                 │ SQUAWK       │      │ SQUAWK               │
                                                                                 │ Wired Siren  │─────▶│ Duration(sec.) 0.0   │
                                                                                 └──────────────┘      └──────────────────────┘
                                                                                        │                           │
                                                                                 ┌──────────────┐      ┌──────────────────────┐
                                                                                 │ SQUAWK       │      │ SQUAWK               │
                                                                                 │ Wireless Siren│────▶│ Arm/Dis.Visual  0    │
                                                                                 └──────────────┘      └──────────────────────┘
                                                                                                                    │
                                                                                                        ┌──────────────────────┐
                                                                                                        │ SQUAWK               │
                                                                                                        │ Arm/Dis.Sound  0     │
                                                                                                        └──────────────────────┘
                                                                                                                    │
                                                                                                        ┌──────────────────────┐
                                                                                                        │ SQUAWK               │
                                                                                                        │ memory of alarm      │
                                                                                                        └──────────────────────┘
```

```
┌──────────────────┐      ┌──────────────────────┐
│ OTHER PARAMETERS │      │ OTHER PARAMETERS     │
│ Tamper Settings  │─────▶│ System Tamper    0   │
└──────────────────┘      └──────────────────────┘
                                   │
                          ┌──────────────────────┐
                          │ OTHER PARAMETERS     │
                          │ Tamper AP        0   │
                          └──────────────────────┘
                                   │
                          ┌──────────────────────┐
                          │ OTHER PARAMETERS     │
                          │ Tamper AP Type  NC   │
                          └──────────────────────┘
                                   │
                          ┌──────────────────────┐
                          │ OTHER PARAMETERS     │
                          │ Tamper Periph.   1   │
                          └──────────────────────┘
```

```
┌──────────────────┐      ┌──────────────────────┐
│ OTHER PARAMETERS │      │ OTHER PARAMETERS     │
│ Radio Settings   │─────▶│ Saturation       1   │
└──────────────────┘      └──────────────────────┘
```

```
┌──────────────────┐      ┌──────────────────────┐
│ OTHER PARAMETERS │      │ OTHER PARAMETERS     │
│ EN50131 Settings │─────▶│ Enable EN50131   0   │
└──────────────────┘      └──────────────────────┘
                                   │
                          ┌──────────────────────┐
                          │ OTHER PARAMETERS     │
                          │ Visual.Status    1   │
                          └──────────────────────┘
                                   │
                          ┌──────────────────────┐
                          │ OTHER PARAMETERS     │
                          │ Visual.Zones     1   │
                          └──────────────────────┘
                                   │
                          ┌──────────────────────┐
                          │ OTHER PARAMETERS     │
                          │ No220 (min)      0   │
                          └──────────────────────┘
                                   │
                          ┌──────────────────────┐
                          │ OTHER PARAMETERS     │
                          │ Battery Charge   □●  │
                          └──────────────────────┘
                                   │
                          ┌──────────────────────┐
                          │ OTHER PARAMETERS     │
                          │ Self-Excl.       3   │
                          └──────────────────────┘
```

```
┌──────────────────┐                              ┌──────────────────────┐
│ OTHER PARAMETERS │                              │ LIFETEST             │
│ Life Test        │─────────────────────────────▶│ Start Hour    00:00  │
└──────────────────┘                              └──────────────────────┘
         │                                                    │
┌──────────────────┐                              ┌──────────────────────┐
│ OTHER PARAMETERS │                              │ LIFETEST             │
│ speakerphone   0 │                              │ 00 d  00 hr   00     │
└──────────────────┘                              └──────────────────────┘
         │
┌──────────────────┐
│ OTHER PARAMETERS │
│ Quick Arming   0 │
└──────────────────┘
         │
┌──────────────────┐
│ OTHER PARAMETERS │
│ Maintenance    1 │
└──────────────────┘
```

ARM WITH CODE

| USER CODE 111111 | → | Total 12345678 | → | Arming start automatically after 3seconds |

↓

| Use the number key for modify PROGRAMS | → | 1 2 3 / 4 5 6 / 7 8 9 / 0 |

↓

| 0=TOT   1-8=PRG 12_45_78 |

QUICK ARM
Without code

| G1 | G2 | G3 | G4 | → | Total 12345678 | | Perimeter 123_ _ _ _ | → | Arming start automatically after 3seconds |

| Use the G keys for modify Group | → | 1 2 3 / 4 5 6 / 7 8 9 / 0 |

ARM WITH BYPASS ZONES

| USER CODE 111111 |

| Total 12345678 | → | Press "X" (cancel) BEFORE 3 SEC. to BYPASS ZONES |

↓

| BYPASS ZONES V-Select |

↓

| [01] zone 1 - - - - - - - - - - - - - - - - |

Enter in user menu

| USER CODE + ESC |

↓

| ARM SYSTEM |

↓

| ENABLE INSTALLER ACCESS | → | ENABLE ACCESS Installer   1 |

↓

| MENU EVENTS | → | EVENTS MEMORY All |

↓

| EVENTS MEMORY Unread |

↓

| EVENTS MEMORY Alarms |

↓

| EVENTS MEMORY Anomalies |

↓

| EVENTS MEMORY Arming/Disarming |

↓

| EVENTS MEMORY Users |

| ACTIVATE OUTPUTS | → | [01] output one 0 1 0 0 - - - - - - - - - - | → | up / sx dx / down | → | Keys sx and dx for outputs selection

Keys up and down for activate and deactivate

- = Not programmed
0 = Deactivate
1 = Activate |

| ENABLE TELEMANAGEMENT | → | TELEMANAGEMENT Enabled   0 | → | 0 = disabled 1 = local telemanag. 2 = remote manag. |

```
MENU          →    USERS         →    User Num.     [01]
USERS              Users Names        User Nr 01

                   USERS         →    [01] User Nr 01
                   Users Type                        M

                   USERS         →    CODE:User Nr 01
                   Codes Setting      111111

                   USERS         →    CODE:User Nr 64
                   Programs Linking   111111

                   USERS              U01/Prg   12345678
                   Groups Linking     User Nr 01  □□□□□□□□

                                      U01/Group    1234
                                      User Nr 01   □□□□
```

```
NETWORK       →    CLOUD SERVICE
Cloud Account      Enabled          1

                   USER NAME
                   Administrator

                   PASSWORD
                   admin

                   SYSTEM NAME
                   example    K8 +

                   UID CODE
```

```
MENU
NETWORK
```

```
PROGRAMMING   →    PROGRAM KEYS      Press ENTER   →   Insert Key
TAG                User Nr 01                          by 15 sec.

                   PROGRAM KEYS
                   User Nr 32
```

```
DELETE        →    DELETE KEYS       Press ENTER   →   Deleting Key
TAG                User Nr 01                          Success!    # Exit

                   DELETE KEYS
                   User Nr 32
```

```
CREDIT        →    Tel. PROVIDER
MANAGEMENT
                   Sms. PROVIDER

                   KEYWORD

                   Credit Threshold
                              [Euro] 3
```

```
VOLUME
SETTING
```

```
MENU          →    TIMER
TIMER              BYPASS         0
```

```
MENU          →    TEST          →    SIREN TEST
TEST               Siren              Activate??

                   TEST               SIREN TEST
                   zones              Disactivate??

                   TEST          →    ZONES     TEST   →   ZONE    TEST
                   Outputs            Tot:08    V-Stop      01- zone  1

                   TEST               TEST OUTPUTS    →    01-output    1
                   Voicecall GSM      Tot:05    V-Start     Activate??

                   TEST
                   ContactID GSM

                   TEST
                   ContactID GPRS

                   TEST
                   SIA Ip GPRS

                   TEST
                   Ademco4+2 GSM
```

```
MENU          →    DATA HOUR
DATE/HOUR          Settings

                   DATA HOUR
                   Summer Time    0
```

indice