urmet
DOMUS

Mod.
1061

DS 1061-015 **LBT 8402**

MULTIFUNCTION CONTROL PANEL

Ref. 1061/004 - /006

INSTALLATION AND PROGRAMMING MANUAL

INDEX

1. GENERAL DESCRIPTION

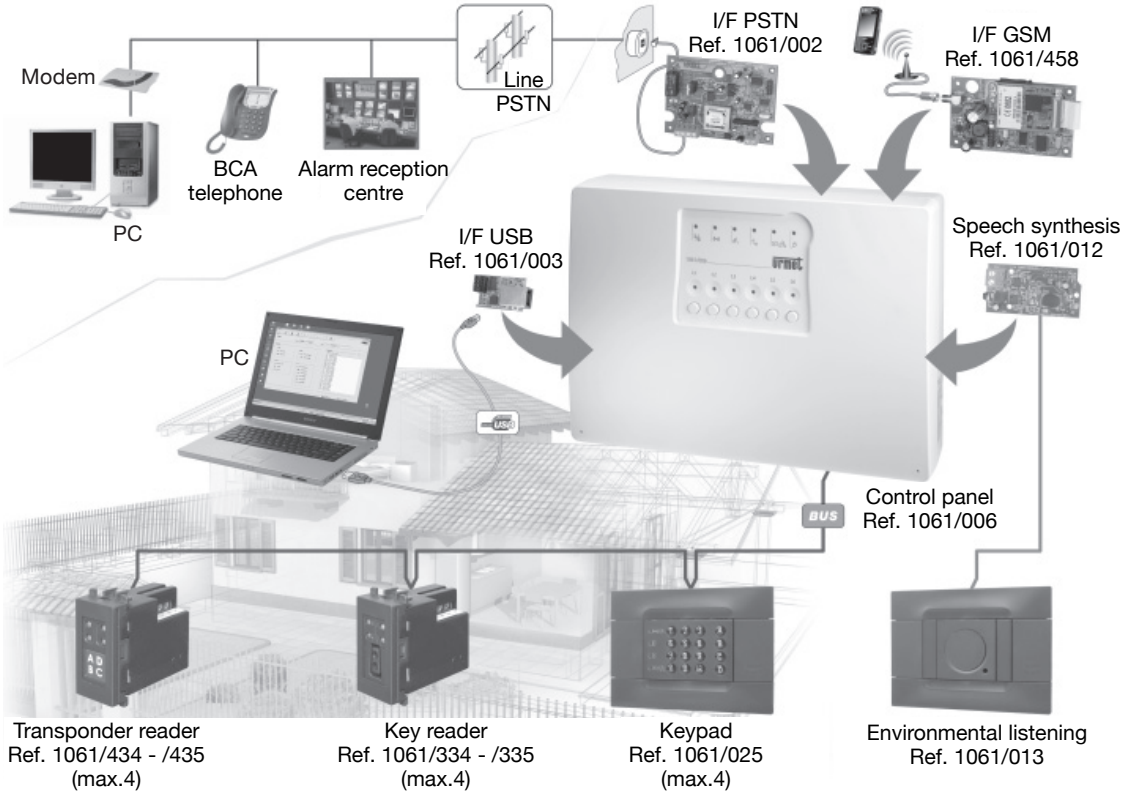
The 1061 intrusion system has been designed and developed for small-sized systems, used for example in residential areas and little companies (offices, shops, workshops and little factories) and can be easily adapted for different requirements.
Maximum compactness, flexibility and safety are the system main characteristics; its installation, use and programming procedures are user-friendly for both installer and users.

1.1 SYSTEM ARCHITECTURE

The 1061 system is available in two versions, different for the number of available lines, 4 or 6. The 4-lines version is provided with 4 inputs for alarm detectors, 3 outputs for actuators and 3 partitions; the 6-lines version is provided with 6 inputs, 4 outputs and 4 partitions. Both versions have the following features:

- Communication on BUS line.
- Up to 3 or 4 partitions (according to the control panel model), that can be freely associated and partially armed.
- Activation by keypad with code, electronic key or proximity key.
- User-friendly interface.
- Voice and digital communicators used for alarm information sending both to users and alarm reception centres.
- Capability to manage Anti-theft, Rescue and Technological functions.
- Local and remote system programming and check, by PC.
- Capability to check the system state also with DTMF.

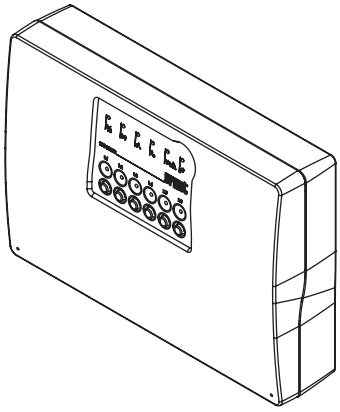
1.2 SYSTEM DESCRIPTION AND ITS EXPANSIONS



1.3 SYSTEM COMPONENTS

1.3.1 1061/004 AND 1061/006 CONTROL PANELS

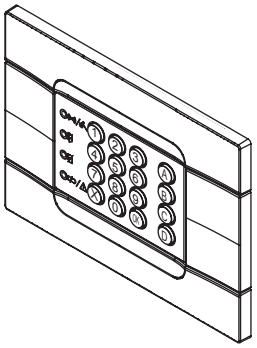
1061/004 and 1061/006 control panels manage with a microprocessor the whole system. Differences between the two control panels are the following:



Control panel	No. of partitions for free partial arming	No. of inputs for alarm detectors (lines)	Alarm outputs no.
1061/004	3	4	1 clean relay output 1 output for internal siren 1 output for self-powered external siren
1061/006	4	6	2 clean relay outputs 1 output for internal siren 1 output for self-powered external siren

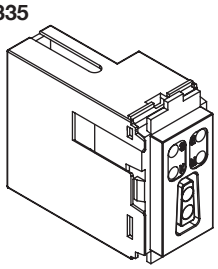
Both the control panels have the following characteristics and features:
- 230Vac power supply, with 12V backup battery.
- Inputs configurable as NC, balanced or fast (to connect directly the rolling shutter contact)
- Up to 8 command devices, that can be freely chosen between electronic key or transponder key readers (4 max) and keypads (4 max).
- 1 24H input (always active).
- Up to 10 keys.
- Up to 10 codes, freely programmable (from 4 to 6 digits).
- Free association of inputs to zones.
- Anti-theft function (with keypad only).
- Technological input for technological detectors (smoke, fire, flood, etc.).
- “Technological” alarm management (dedicated output in case of “technological alarm”).
- “Rescue” alarm management.
- Freely selectable entry and exit times.
- 1 delayed input.
- LED on the control panel front side to display state/occurred events.
- Capability to exclude each input by dedicated buttons on the control panel front.
- Input automatic exclusion after 8 consecutive alarms.
- Automatic exclusion of the open input at the activation time (function selectable by jumper).
- Alarm events log (browsable with PC).
- RS232-USB interface (optional).
- Local or remote control panel programming by PC with application software.
- PSTN telephone communicator (optional).
- GSM module (optional).
- Priority selection between PSTN/GSM, if in the control panel are installed both the modules.
- Remote management (system state inquiry, with DTMF commands or PC and system activation with DTMF commands).
- Remote assistance (system parameters configuration and change).
- Remote surveillance (alarm and signalling sending with numeric protocols: IDP – ADF – SIA).

1.3.2 MANAGEMENT KEYPAD WITH LED – 1061/025



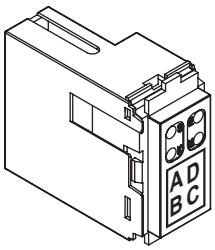
The management keypad with LEDs allows to arm and disarm the system, also partially, by signalling the partitions state on dedicated LEDs, with alarms storage and failures signalling. The keypad manages up to 10 codes (from 4 to 6 digits) and is equipped with an internal buzzer, auxiliary input and tamper input. By entering on the keypad a special code (programmable), can be activated the anti-theft function. The keypad is connected to the control panel with the 4-wire bus and can be wall mounted, with the provided box, or flush mounted on 3-modules box, using in both the cases the Simon Urmet Nea residential series frame and plate, provided with product.

1.3.3 ELECTRONIC KEY READER – 1061/334 AND 1061/335



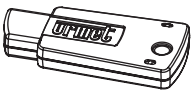
The reader allows to arm and disarm the system, also partially, with an electronic key; it is connected to the control panel with the 4-wire bus. A Simon Urmet series Nea adapter is provided with the key.

1.3.4 PROXIMITY READER – 1061/434 AND 1061/435



The proximity reader allows to arm and disarm the system, also partially, with a transponder key; it is connected to the control panel with the 4-wire bus. A Simon Urmet series Nea adapter is provided with the reader.

1.3.5 ELECTRONIC KEY – 1061/332

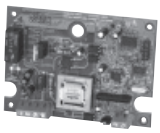


Programmable electronic key, to be used with the electronic key reader.

1.3.6 TRANSPONDER KEY – 1056/032

Programmable transponder key, to be used with the proximity reader.

1.3.7 PSTN TELEPHONE COMMUNICATOR – 1061/002



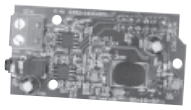
The PSTN telephone communicator can be programmed with the control panel function keys or with PC and allows to:
- Send, with an encoded digital link, the information concerning alarms and system state to the dedicated alarm reception centres.
- Send, paired with the speech synthesis card, vocal messages by telephone calls.
- Perform a remote check of the system, by DTMF commands.
- Perform a remote management of the system and check its operations by a dedicated application software.
- Environmental listening (paired with 1061/013).

1.3.8 GSM MODULE – 1061/458

The GSM Dual Band module can be programmed with the control panel function keys or with PC; it allows to:
- Send, paired with the speech synthesis card, vocal alarm messages and SMS.
- Perform a remote check of the system, by DTMF commands.

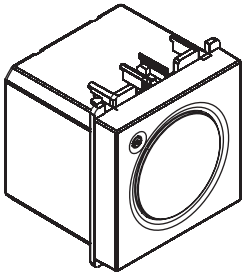
The antenna is provided with the product.

1.3.9 SPEECH SYNTHESIS CARD – 1061/012



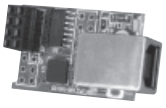
The speech synthesis card, paired with the PSTN telephone communicator or the GSM module, allows the alarm message recording.

1.3.10 INFORMATIVE AND ENVIRONMENTAL LISTENING MODULE– 1061/013



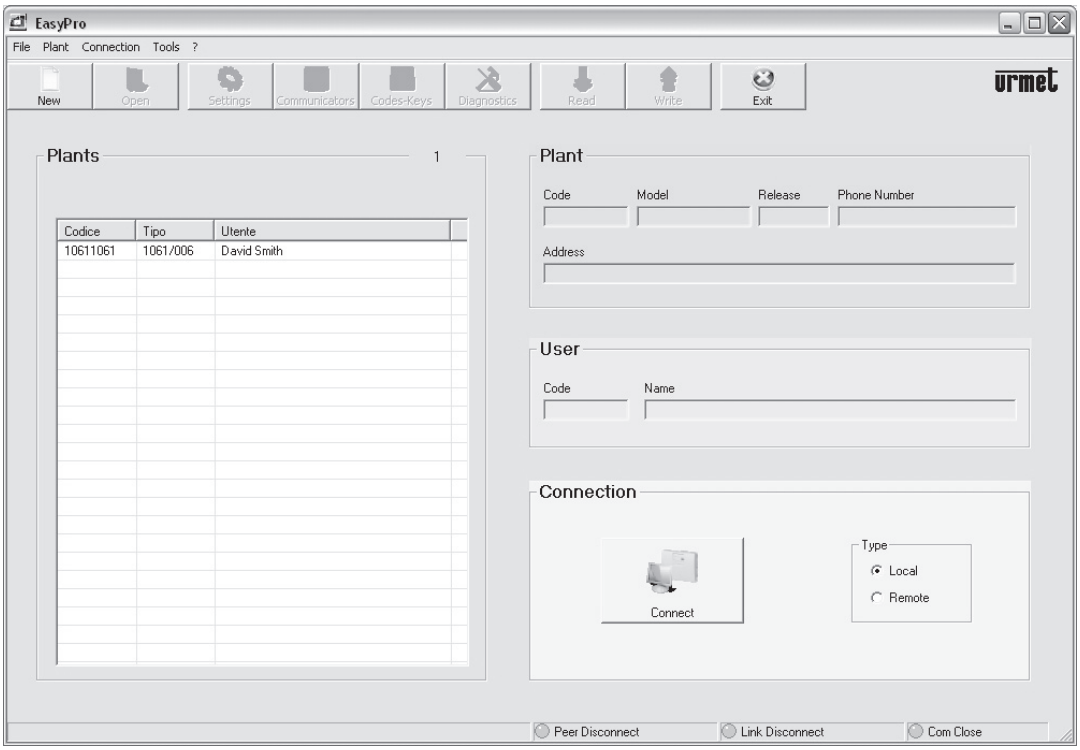
The informative and environmental listening module allows the environmental listening by a telephone call (the control panel must be provided with a PSTN telephone communicator) and the local playback of messages concerning system state, alarm, failure.

1.3.11 USB 2.0 INTERFACE – 1061/003



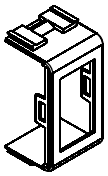
The USB 2.0 interface allows to connect a PC to the 1061/004 and 1061/006 control panels for their programming (the programming and remote assistance software is needed).

1.3.12 SOFTWARE FOR PROGRAMMING AND REMOTE ASSISTANCE – 1061/001

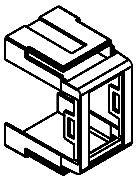


The programming and remote assistance software allows to program with a PC the 1061/004 and 1061/006 control panels (USB 2.0 interface is needed). The same software allows to perform remote assistance services on control panels equipped with PSTN telephone communicator.

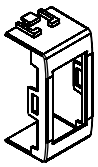
1.3.13 RESIDENTIAL SERIES ADAPTERS



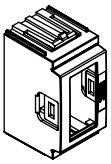
GEWISS PLAYBUS®



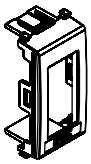
BTICINO LIVING®



BTICINO LIVING INTERNATIONAL®



VIMAR IDEA®



VIMAR PLANA®

To adapt the readers on the most common residential series, are used the suitable adapters provided in the kit for 1056, 1061 and 1063 series (product code: 1056/337). The kit is composed by: 1 BTicino Living International adapter, 1 BTicino Living adapter, 1 Vimar Plana adapter, 1 Vimar Idea adapter, 1 Gewiss Playbus adapter.

2. SYSTEM DESIGN

2.1 NOTES FOR A CORRECT INSTALLATION

The 1061 control panel must be placed in a position protected by intrusion detectors. If it is needed the GSM module usage, it is necessary to verify in advance if, in the selected position, the GSM signal is good. To check it, verify the field strength using the GSM coverage test (see paragraph 5.4.11).

WARNING: *For GSM network coverage check, it is necessary to use the same mobile network carrier SIM as the one used in the GSM module. This because in the same place, coverage levels of various mobile network carriers can be very different, or even absent.*

Management keypads, electronic key readers and proximity readers must be put in dry places, protected against bad weather conditions. These devices are daisy chained to the control panel with a single bus cable. The sequence used to connect them to the bus is irrelevant (devices are identified by a hardware address, not according to the connection sequence), so it is possible to use for the bus the most convenient and the fastest path for installation.

2.2 BATTERY DIMENSIONING

CEI 79-2 standards (and IMQ trademark) require for the system a battery endurance of 24 hours at least in case of mains fail. So, the control panel battery must be designed in order to guarantee that range.

The formula to calculate the battery minimum capacity is the following:

$$C_b = (I_r \times 24 \times 1{,}25) + (I_a \times \text{alarm duration} \times 0{,}02)$$

where:

C_b is the minimum battery capacity, in Ah

I_r is the total consumption in standby mode, in Ampere

I_a is the total consumption during the alarm, in Ampere

alarm duration is the programmed alarm duration, in minutes

This calculation must be done referring to all devices powered by the battery (current consumption of each device can be find in technical sheets).

2.3 CABLE DIMENSIONING AND POSITIONING

2.3.1 DIMENSIONING

The cable cross section must be calculated considering the most critical system power supply condition, equivalent to mains fail and backup battery just over the “flat battery” level (11,2V–). For example, if at full load conditions, on all the devices power supply terminals must be ensured at least 10,5V–, the maximum voltage dropout admitted on the cables is 0,7V–.

The calculation formula is:

$$V_c = 2 \times \text{length} \times R_m \times I_d$$

where:

V_c is the voltage dropout in Volt

length is the cable length, in metres (single wire)

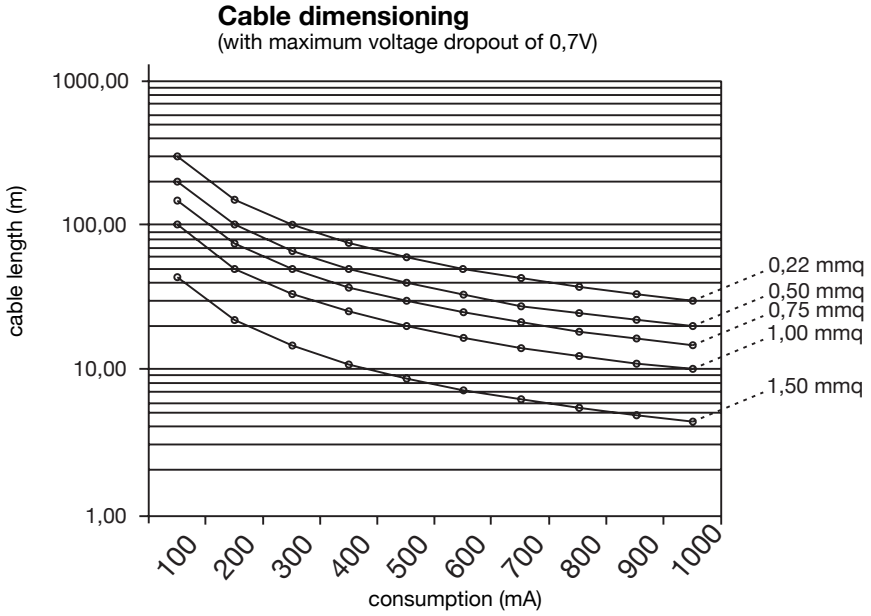
R_m is the cable resistance in Ohm/m

I_d is the current required by the devices, in Ampere (value obtained by their technical sheets)

Copper cables resistance values are:

Section - mm²	0,22	0,50	0,75	1,00	1,50
Resistance - Ohm/m	0,0795	0,0350	0,0233	0,0175	0,0117

The following diagram can be useful to find the minimum cable section that is necessary.



WARNING: *The diagram is used for a preliminary estimation; for an accurate calculation, use the formula described above. However, it is necessary to verify with a voltmeter, that the voltage measured on terminals of each device is not lower than the power supply voltage provided by the control panel or by the additional power supply unit (0,7V–).*

Using an alarm system cable with a section of 0,22mm^2 for the serial line (LA LB) and 0,5mm^2 for power supply (+, –), the maximum distance of peripherals is:

- 1061/334-/335 readers: 200m
- 1061/434-/435 readers: 100m
- 1061/025 keypad: 50m

2.3.2 DATA BUS CABLE

For the bus is needed a 4-wire cable, and it is suggested to use a shielded cable for alarm system 4 x 0,22mm^2 + 2 x 0,5mm^2, in order to have available the wire pair for readers tampers contacts.

Bus maximum length can not exceed 500m.

2.3.3 AUDIO CABLE

For the audio line, use a twisted pair. The audio line length can not exceed 100m.

2.3.4 COEXISTENCE WITH MAINS CABLES

Bus cable, audio bus and detectors cables can not be laid in conduits or tubes used for mains cables.

3. INSTALLATION

3.1 ALARM CONTROL PANEL

3.1.1 FIXING

Control panel opening

Open the control panel by loosing with the provided screwdriver with exagonal tip (allen spanner), the two flush mount fixing screws, by sliding up the lid, in order to release the ledges (figure 1).

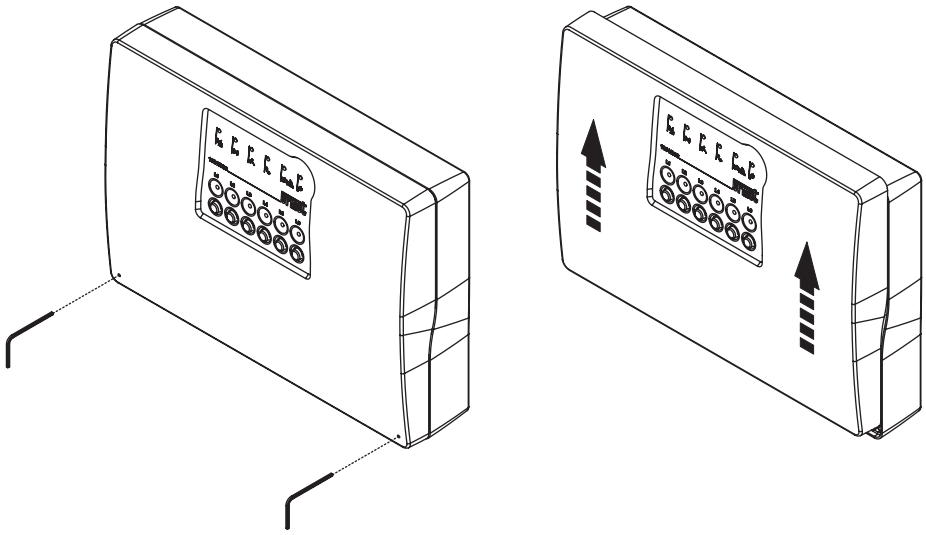
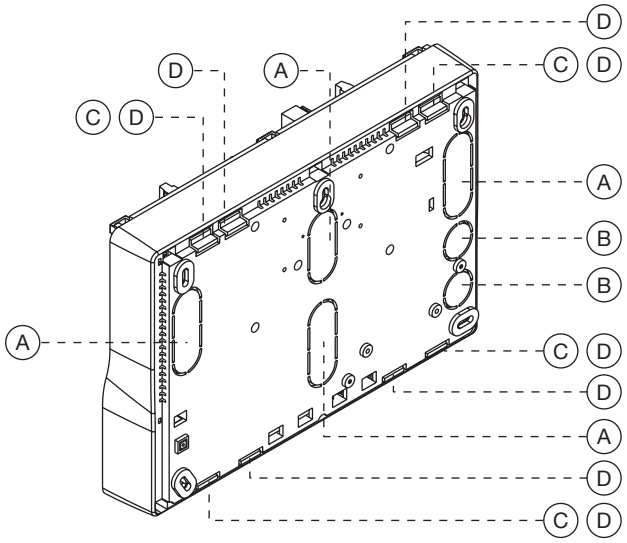


Figure 1 – Control panel opening

Cable apertures opening

On the control panel bottom, open the pre-fractured apertures for cables (power supply, detectors, sirens, bus, telephone line, audio line). Cable number and kinds depend on the system to be realized.



(A) – Aperture for flush mount tube

(B) – Aperture for flush mount tube (electric power supply)

(C) – Aperture for external tube A

(D) – Aperture for cable trunking

(It can not be used with 7A/h batteries)

Figure 2 – Pre-fractured apertures for cables

WARNING: *When opening the pre-fractured apertures, take care not to damage the motherboard. For safety's sake, it is suggested to remove the motherboard before opening apertures, as shown in the paragraph Motherboard removal.*

Wall mounting

The control panel must be placed in an interior, in a zone protected by the alarm system, on a dry, level wall.

The control panel is provided with 4 fixing holes (A and B), accessible without removing the motherboard, and another fixing hole, accessible by removing the motherboard (C). The hole C must be used only if one or both the upper fixing holes can not be used.

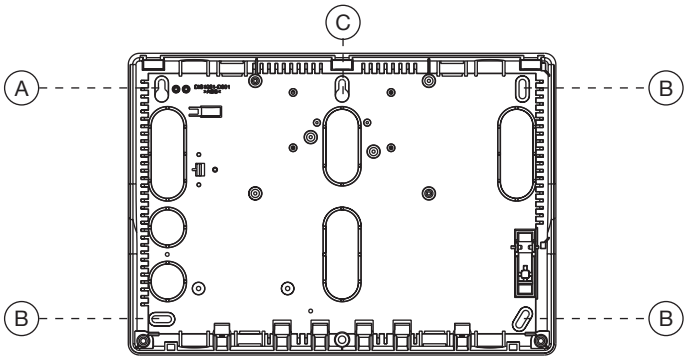


Figure 3 – Control panel fixing holes

To fix the control panel follow the instructions below:
1. Place the control panel and mark the drilling point for the slot A.
2. Drill the wall, put a screw anchor and screw in its screw; it must stick out about 1cm.
3. Hang the control panel on the screw, place the control panel in horizontal position and mark the drilling point for slots B.
4. Remove the control panel, drill and put the remaining anchor screws.
5. Hang again the control panel and fix it with the screws, tightening also the screw of hole A. Slots B allows to compensate hole misalignments, if present, in order to fix the control panel perfectly horizontal.

Tamper adjustment
For a proper operation, the tamper switch in standby condition must have the metal lever aligned with the upper edge of its housing. Misalignments caused by an uneven wall surface, if present, can be compensate using the adjusting screw placed under the tamper.

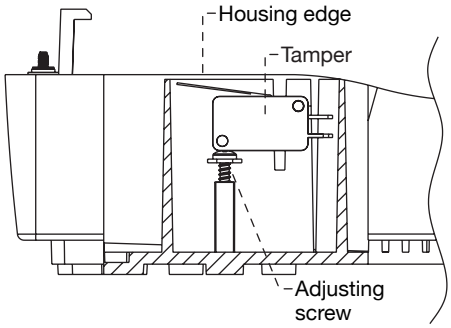


Figure 4 – Tamper position in standby condition and adjusting screw position

3.1.2 CONTROL PANEL OPTIONS ADDITION
The optional expansion modules are connected on the lower side of the motherboard, that can be removed from the control panel before any operations.

All the operations performed with open control panel must be done by a skilled technical staff and after the whole system has been unpowered.

Motherboard removal
To remove the motherboard, unscrew the 6 screws shown in the figure.

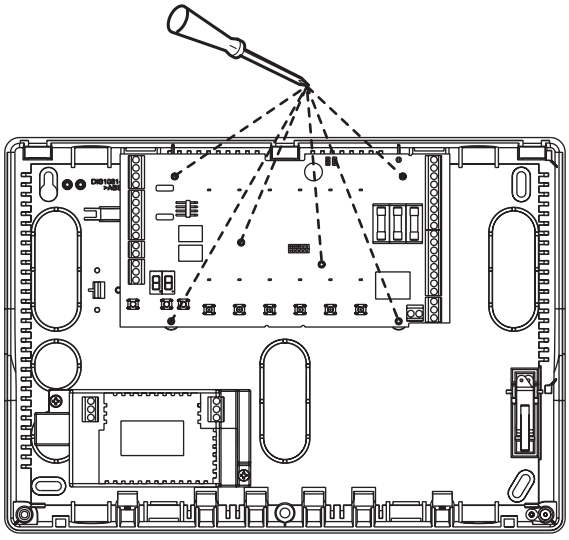
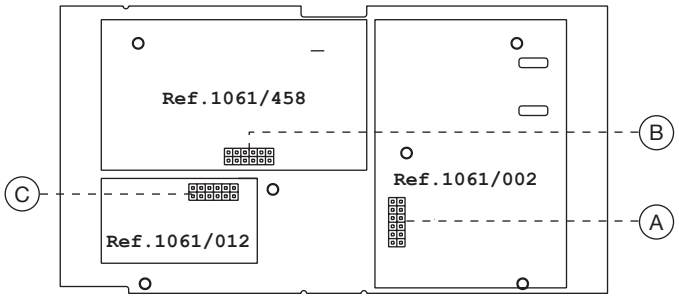


Figure 5 – Motherboard fixing screws

To put again the motherboard in the control panel, place it again on its supports and screw in the fixing screws, without forcing, in order not to damage the printed circuit.

Position and use of expansion connectors for optional cards.
The expansion connectors available on the rear of the motherboard are the following:



(A) – CON2 connector used for connection of 1061/002 PSTN module

(B) – CON3 connector used for connection of 1061/458 GSM module

(C) – CON7 connector used for connection of 1061/012 speech synthesis module

Figure 6 – Connectors for expansions in motherboard

PSTN telephone communicator

To add the PSTN telephone communicator, follow the instructions below:

1. Remove, if necessary, the motherboard.
2. Press the 4 nylon pivot pins in the holes placed in the corners of the PSTN telephone communicator. Support pivot pins must be placed at the rear of the module (the side without electronic components and connection terminal pins).
3. Put the PSTN telephone communicator on the motherboard (see fig. 6 to identify the connector position).
4. Connect the PSTN telephone communicator to the telephone line, according to the following diagram.

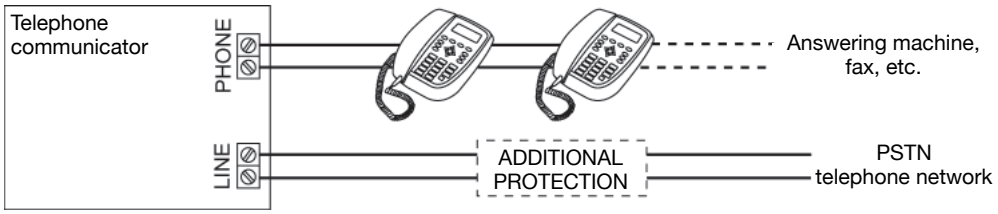


Figure 7 – Connection diagram to the telephone line

For the connection, use a twisted pair; no polarity must be respected.

WARNING: *The PSTN telephone communicator must be the first connected device, in order to seize the line in case of an alarm.*

5. Connect the audio line (microphone), if present, to the MIC terminal pin of the PSTN telephone communicator, respecting polarities. For the audio line, use a twisted pair. Audio line must not exceed 100m. The following diagram shows how to connect the PSTN telephone communicator and the module for environmental listening/message repeater.

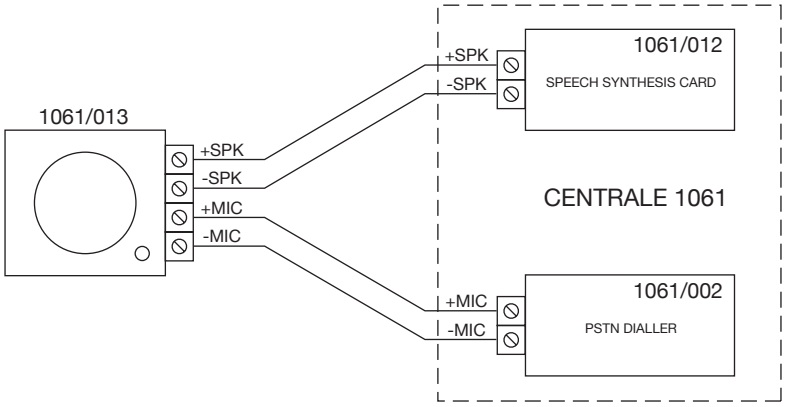


Figure 8 – Connection diagram for environmental listening

GSM module

To add the GSM module, follow the instructions below:

1. Remove, if necessary, the motherboard.
2. Press the 4 nylon pivot pins in the holes placed in the corners of the GSM module. The support pivot pins must be placed at the rear of the module (the side without electronic components and antenna connector).
3. Put the GSM module on the motherboard (see fig. 6 to identify the position of the connector).
4. Put the antenna in the two housing slides present on the control panel side (to make the activation easier, blend lightly the antenna).

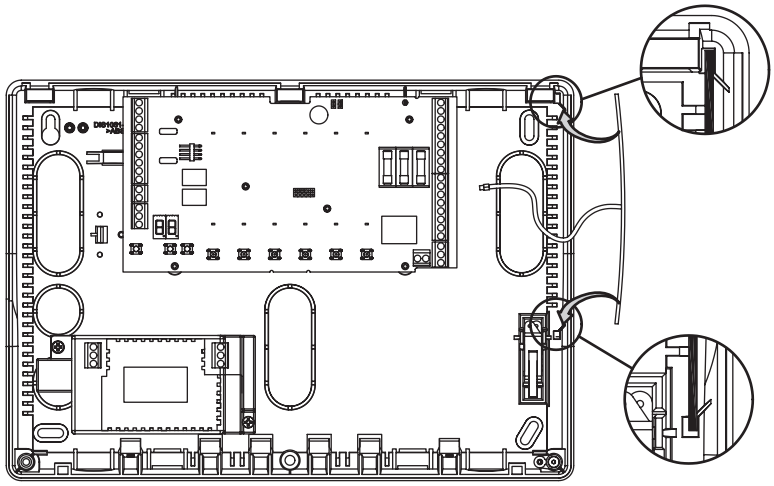


Figure 9 – GSM antenna mounting

5. Screw the antenna connector to the SMA connector on the GSM module.

   WARNING: *Screw the connector by hand, without tools, in order not to damage it.*

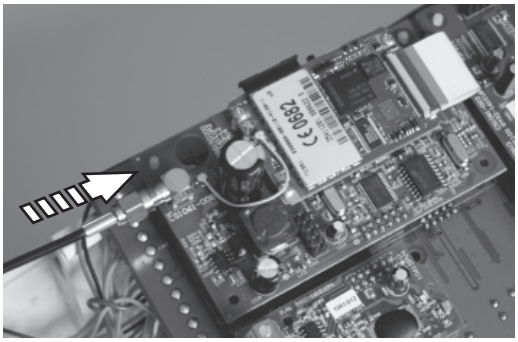


Figure 10 – GSM antenna connection

6. Release the SIM holder by pressing the little button nearby, and open it.

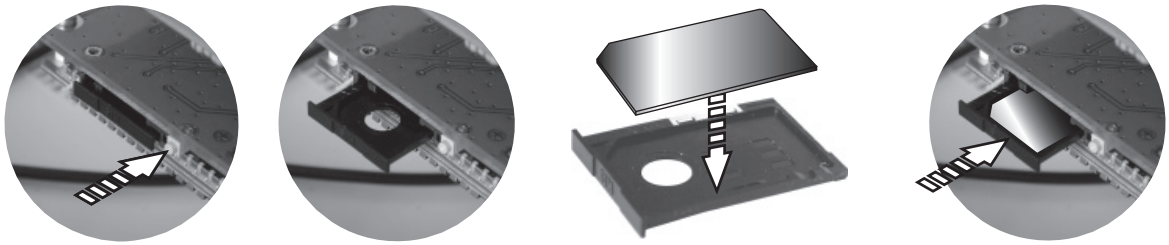


Figure 11 – SIM holder opening

7. Put the SIM in the holder, taking care contacts are visible, and close again the holder.

   WARNING*: If necessary for the SIM and/or for the mobile network carrier, use a mobile to enable the SIM and disable its PIN before inserting the SIM in the GSM module.*

Speech synthesis card

To add the speech synthesis card, follow the instructions below:

1. Remove, if necessary, the motherboard.
2. Press the 3 nylon pivot pins in the holes present on the speech synthesis card. The support pivot pins must be placed at the rear of the module (the side without electronic components and terminal strip).
3. Put the speech synthesis card on the motherboard (see fig. 6 to identify the position of the connector).
4. Connect the audio line (loudspeaker), if present, to the SPK terminal pin of the speech synthesis card, respecting polarities. For the audio line, use a twisted pair. Audio line must not exceed 100m. The following diagram shows how to connect the speech synthesis card and the module for environmental listening/messages repeater.

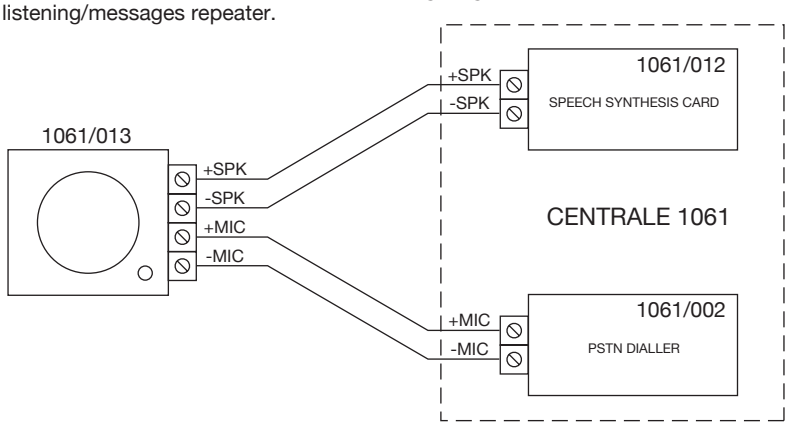


Figure 12 – Connection diagram for messages repeater loudspeaker

3.2 ELECTRONIC KEY READER AND PROXIMITY READER

The address of electronic key readers and proximity readers is configured with their rotary switch and no confirmation operations are needed. The address can have a value from 0 to 3 and must be unique for the group of electronic key readers and proximity readers. It is suggested to number in sequence the readers during their installation. In a system can be present up to 4 readers. For greater convenience, the addressing operation must be done before all the other readers install operations.

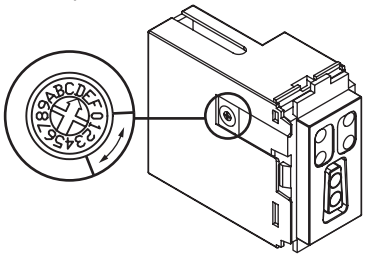


Figure 13 – Position of rotary switch and valid addresses

The electronic key reader and the proximity readers can be directly put on supports for flush mounting or wall mounting boxes of Simon Urmet Nea residential series; they take up one module space. With specific adapters, present in catalogue, it is also possible to put them on flush mounting or wall mounting boxes of the most common residential series (BTicino Living International and Living, Vimar Plana and Idea, Gewiss Playbus); also in this case, they take up one module space. Readers must be placed in a dry place, protected by bad weather conditions.

According to CEI 79.2 standards, the readers installed outside the protected zones must be kept in self-protected housing (housings with anti-removal and anti-opening tamper). If are used supports and plates of Simon Urmet Nea catalogue, a protection tamper (1069/416), designed for this purpose, is already available. The different tampers must be connected in series.

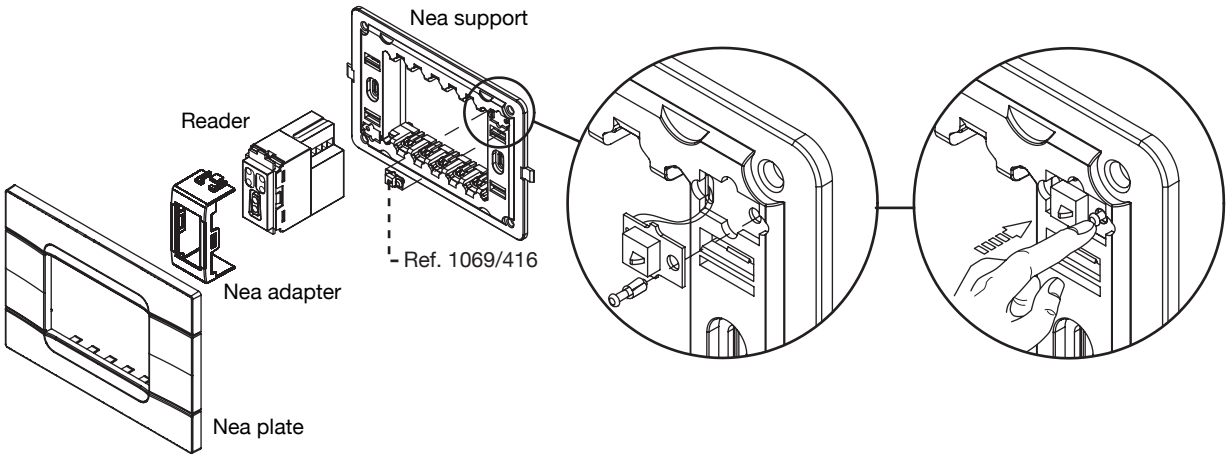


Figure 14 – Tamper for Simon Urmet Nea supports and plates

WARNING: *In order to connect to the control panel tamper line the tamper that protects the electronic key reader or the proximity reader, it is necessary to lay a suitable line. So, if readers are installed, it is suggested to use for the bus a 6-wire cable and use 2 of them for the tamper line.*

3.3 MANAGEMENT KEYPAD

The management keypad can be placed both in a 3-modules flush mounting box (type 503) and in the provided wall mounting box. The keypad must be placed indoor, in a zone protected by the alarm system.

The keypad is provided with the following screws:
No. 3 M 3,5 x 22 for wall mounting with screw anchors
No. 2 M 3,5 x 19 for frame fixing on box Mod. 503
No. 2 M 3,5 x 10 for fixing on wall mounting box

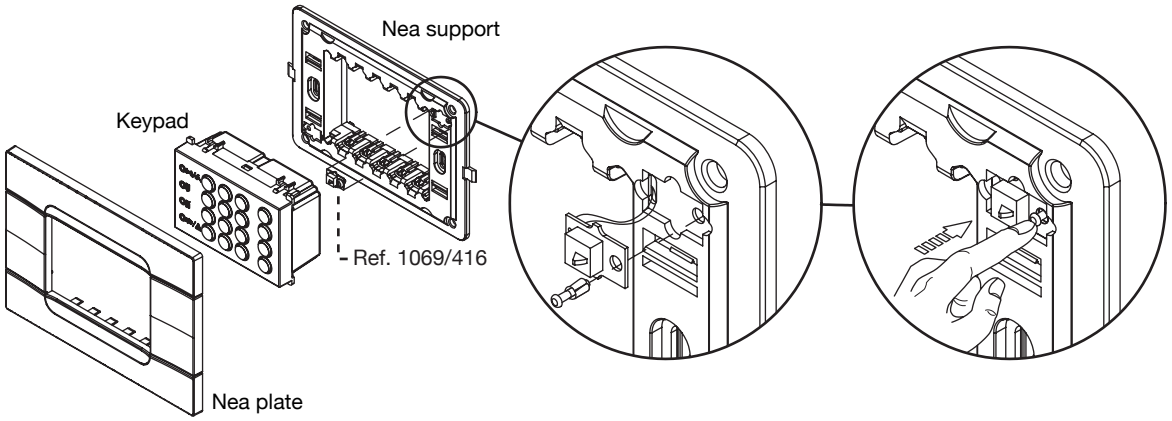


Figure 15 – Keypad mounting

The keypads address is configured with their rotary switch and no other confirming operations are needed. The address can have a value from 0 to 3 and must be unique for the group of keypads. It is suggested to number in sequence the keypads during their installation. In a system can be present up to 4 keypads.

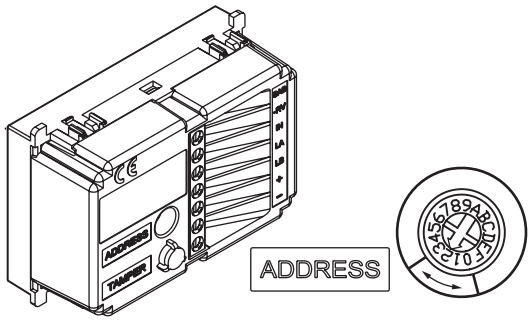


Figure 16 – Position of rotary switch and valid addresses

If the keypad is installed in a flush mounting box, it must be protected against tampering by mounting on the support the proper tamper (1069/416), that must be connected to the SAB input of the keypad. For tamper can be used both available housings present on the support.

WARNING: *The protection for tamper spring (figure 18) must be cut both when the keypad is installed in the wall mounting box and in a flush mounting box.*

If the keypad must be housed in the provided wall mounting box, follow the instructions below:

1. Open one or both the cable apertures (figure 17, A).

   WARNING: *In the wall mounting box are not present pre-fractured apertures for external tubes or conduits.*

2. Place the wall mounting box and mark the fixing holes (figure 17, B) and the hole for the anti-removal tamper (figure 17, C).
3. Drill the wall with a 5mm bit, put the provided anchor screws and fix the wall mounting box. For a correct installation, use 2 fixing holes at least and the hole for the tamper.

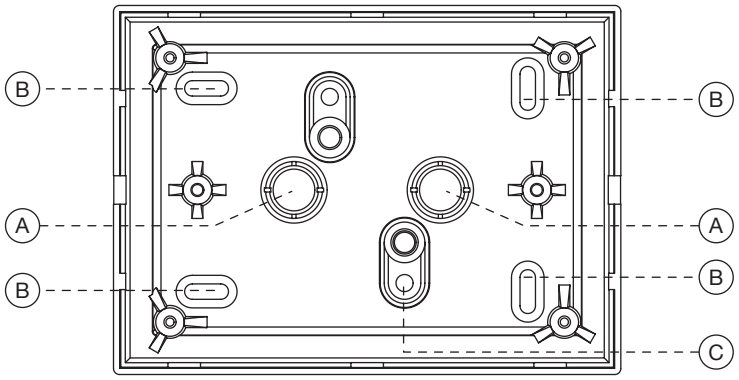


Figure 17 – Wall mounting box for keypad

4. Cut the TAMPER protection on the keypad bottom to release the spring.

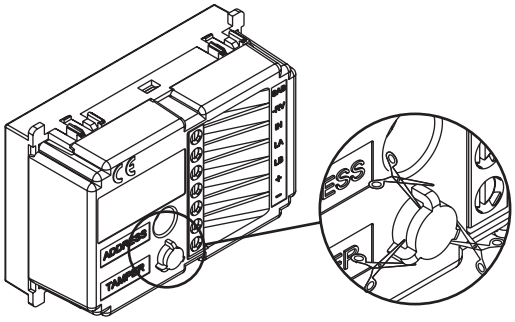


Figure 18 – Tamper protection

4. CONNECTIONS

WARNING: *All the connections must be performed when the system is unpowered. Connections providing power supply, mains and backup battery must be performed as last operation!*

4.1 BUS DEVICES CONNECTION

Connect readers and keypads to the control panel with the 4-wire bus. The devices must be daisy chained to the bus. The order used to connect the devices (management keypads, electronic key readers, proximity readers) to the bus is not relevant. The bus total length (that is the sum of the single sections), according to cable dimensioning, must not exceed 500m.

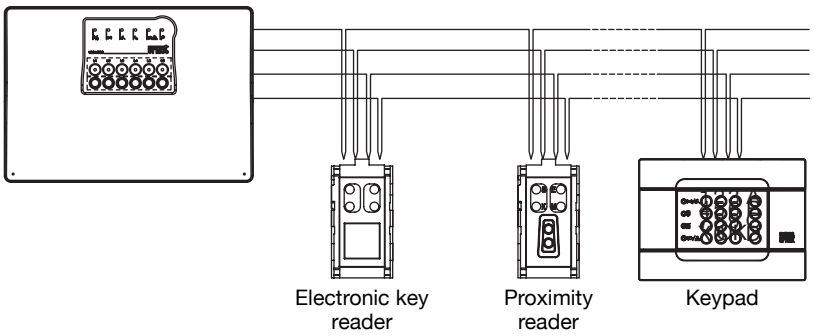


Figure 19 – Devices connection to the bus

In all the devices, the bus terminal pins are identified as follows:

LA	Bus line, data
LB	Bus line, clock
+	Power supply 12V, positive
-	Power supply 12V, negative

WARNING: *If in the system are installed electronic key readers or proximity readers, it is suggested to use for the bus a 6-wire cable. So, besides the 4 wire for bus, 2 wires will be available for the readers tamper line.*

If the bus line length exceeds 100m and there are only 2 devices connected, it is necessary to connect, between the terminal pins “LA” and “–” and between “LB” and “–” of the two devices, 2,7kOhm resistors (the same used for input balancing).

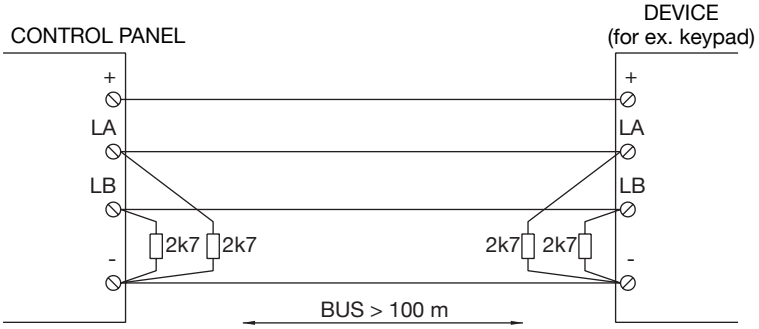


Figure 20 – Connection with length >100m between 2 devices

4.2 CONTROL PANEL

4.2.1 MOTHERBOARD

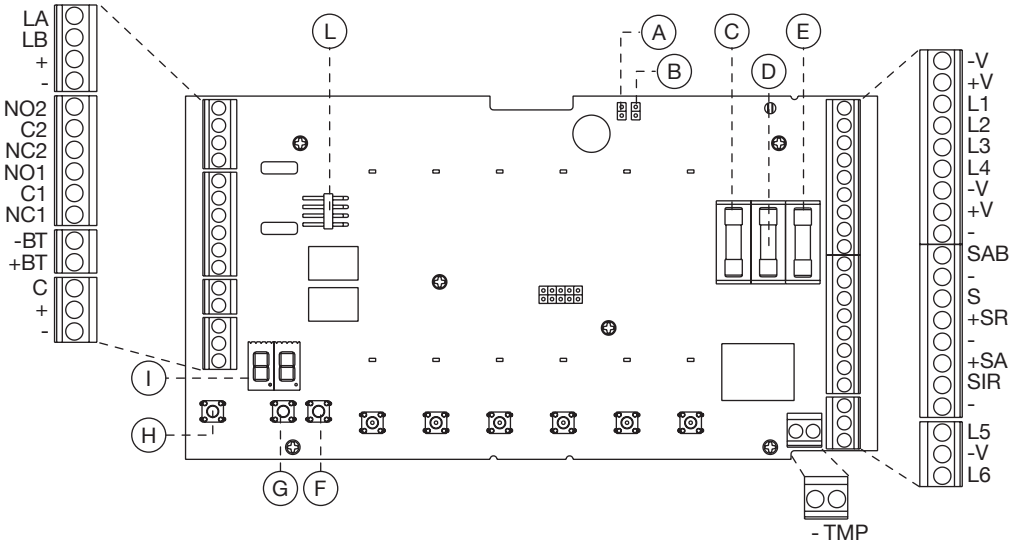


Figure 21 – Control panel motherboard

A	JP2	Inputs self by-pass. For details, see paragraph 4.2.2 Inputs connection
B	JP1	Selection between balanced and NC inputs. For details, see paragraph 4.2.2 Inputs connection
C	F2	Rapid fuse for +SIR - 250V 3,15A outputs
D	F3	Bus power supply rapid fuse
E	F1	+V lines power supply rapid fuse Inputs self by-pass. For details, see paragraph *4.2.3 Outputs connection*
F	OK	Programming button OK
G	↓	Programming button NEXT (scroll)
H	ESC	Programming button ESC
I		Programming display
L		Comb connector for USB 2.0 interface connection

TERMINAL PINS

BUS	LA	Bus line, data
	LB	Bus line, clock
	+	Power supply 12V, positive
	-	Power supply 12V, negative
	NO2	Relay 2 output normally open contact
	C2	Relay 2 output common
	NC2	Relay 2 output normally closed contact
	NO1	Relay 1 output normally open contact
	C1	Relay 1 output common
	NC1	Relay 1 output normally closed contact
	-BT	Backup battery negative
	+BT	Backup battery positive

POWER	C	Power supply control signal
	+	Power supply positive
	-	Power supply negative
	-V	0V
	+V	+12V
	L1	Input 1
	L2	Input 2
	L3	Input 3
	L4	Input 4
	-V	0V
	+V	+12V
	-V	0V
	SAB	Tamper line 24h input
	-V	0V
	S	System state output and “memory reset” for detectors and sirens
	+SR	Power supply for external self-powered siren (maximum current: 650mA)
	-V	0V
	+SA	NC output for external self-powered siren
	SIR	NO output for internal siren
	-V	0V
	L5	Input 5 (present on the Ref. 1061/006 control panel only)
	-V	0V (present on the Ref. 1061/006 control panel only)
	L6	Input 6 (present on the Ref. 1061/006 control panel only)
	-	Control panel tamper connection
	TMP	Control panel tamper connection

All the terminal pins marked as –V have the same potential; the same for the terminal pins marked as +V. Terminal pins duplication has been provided to make wiring operations easier.

4.2.2 INPUTS CONNECTION AND CONFIGURATION

To inputs can be connected magnetic contacts, presence detectors, rolling shutters detectors, technological detectors and rescue detectors, with the following exceptions:

- To input 1 can not be connected rolling shutters or technological detectors.
- The intrusion input 1 is the only delayed, all the other intrusion inputs are immediate (for further details, see paragraph *5.4.2 Main programming menu*).
- The tamper input (SAB) is always active (H24); it is an immediate input.

Inputs and tamper line can be configured as normally closed (NC) or balanced (single balancing). For balanced lines are used 2,7kohm resistors, tolerance 1% (provided).

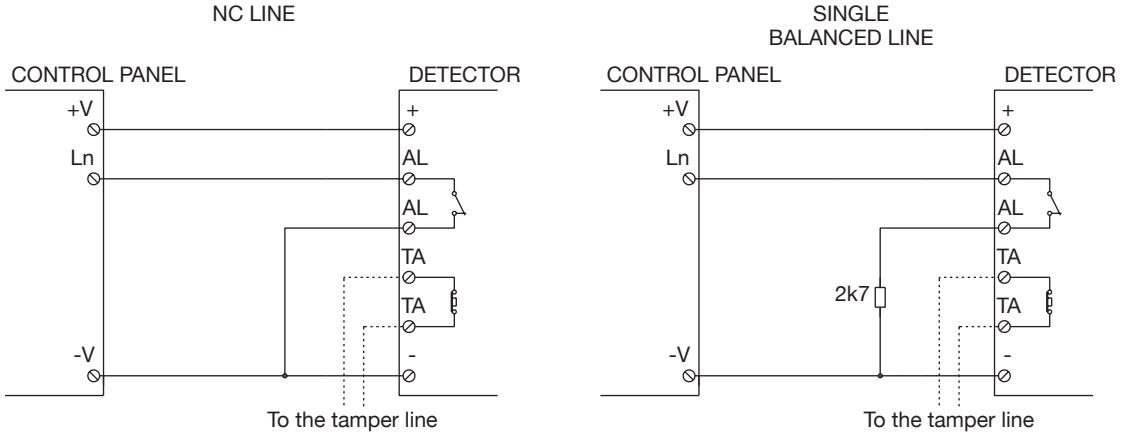
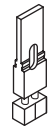
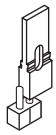


Figure 22 – Inputs connection diagrams

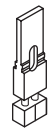
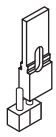
The balanced connection allows to detect short circuits attempts on the detectors lines, causing an alarm.

The selection of connection mode is made with the jumper JP1 on the motherboard.

JP1 closed		Lines and SAB input balanced
JP1 open		Lines and SAB input normally closed (NC) (factory configuration)

WARNING: *The configuration is valid for all the lines; it is not possible to have some inputs or the tamper line configured as balanced and other ones normally closed.*

It is also possible to configure the inputs, except tamper input, in self by-pass mode with the motherboard jumper JP2.

JP2 closed		Self by-pass enabled
JP2 open		Self by-pass disabled (factory configuration)

WARNING: *Self by-pass activation is valid for all the inputs; it is not possible to have some inputs configured for self by-pass and other ones not configured.*

With self by-pass enabled, all the inputs that are open during the alarm system activation are automatically excluded, without generating an alarm signalling. If, after the system has been activated, the open input is closed, it is again included among inputs controlled by the control panel, and an alarm is generated if it is opened again.

With self by-pass disabled, any input open when the system is activated generates an alarm.

WARNING: *Unused inputs can be left open, provided that then they are configured as "unused" during the programming procedure. Otherwise they can be connected to -RV with a wire, in case of NC lines, or with a 2K7 resistor, in case of balanced lines.*

4.2.3 OUTPUTS CONNECTION

Self-powered siren connection

When connecting a self-powered siren, do not exceed max. current values supplied by the control panel.

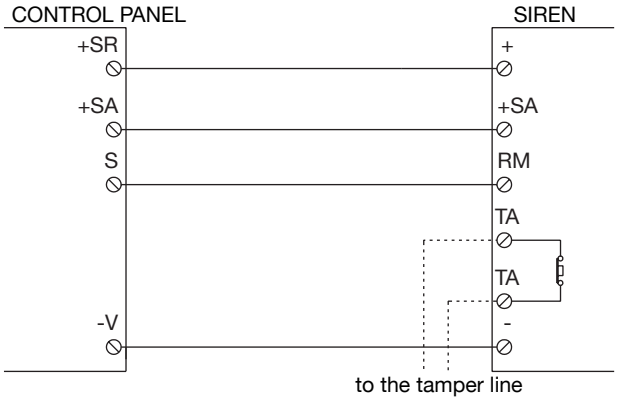


Figure 23 – Self-powered siren connection diagram

Internal siren connection

When connecting an internal siren, do not exceed the max. current values supplied by the control panel.

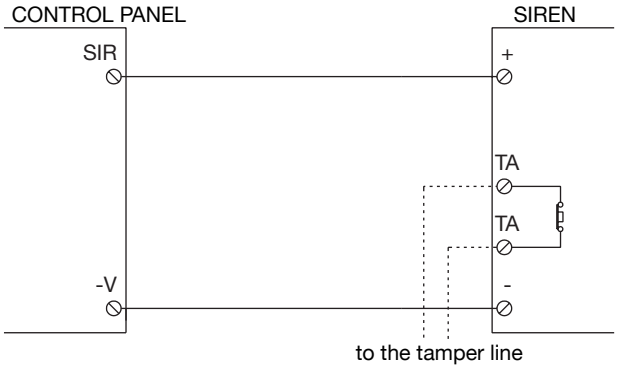


Figure 24 – Internal siren connection diagram

Relay outputs connection

When connecting an external device to a control panel relay output, do not exceed the relay contacts typical voltage and current values. The following figure shows the contacts position, according to the relay state.

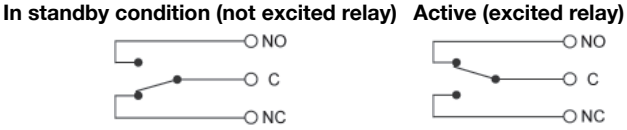


Figure 25 – Relay contacts position

"S" system state output connection

The output is used to manage alarm memories in detectors and sirens. In normal condition its voltage is 0V; it is open when the system is activated.

4.3 KEYPAD

TERMINAL PINS

BUS	LA	Bus line, data
	LB	Bus line, clock
	+	Power supply 12V, positive
	-	Power supply 12V, negative
	IN	Auxiliary input
	-RV	0V
	SAB	Tamper input

The keypad is provided with an auxiliary input and a tamper input. Both the inputs are locally managed by the keypad; an alarm, if present, is sent to the control panel via bus.

4.3.1 AUXILIARY INPUT

The auxiliary input is unbalanced (terminal pins In and –RV). The input is configured by default as “contact”, for example for a magnetic contact on a door, but it can also be configured to connect a rolling shutter detector.

WARNING:

- *Auxiliary inputs are always associated to the partition A.*
- *The auxiliary input generates only a generic intrusion alarm, that can not be punctually located with dedicated led.*

4.3.2 TAMPER INPUT

The keypad tamper input (terminal pins Sab and –Rv) is designed for connection of the front tamper installed on the support (for details, see paragraph *3.3 Management keypad*). The figure 26 shows the connection diagram.

If the input IN is unused, it must be connected to ground (-RV).

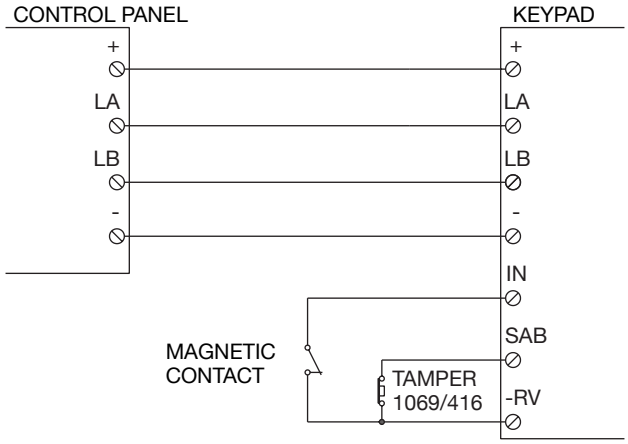


Figure 26 – Connection diagram for keypad auxiliary and tamper inputs

4.4 MAINS AND BATTERY CONNECTIONS

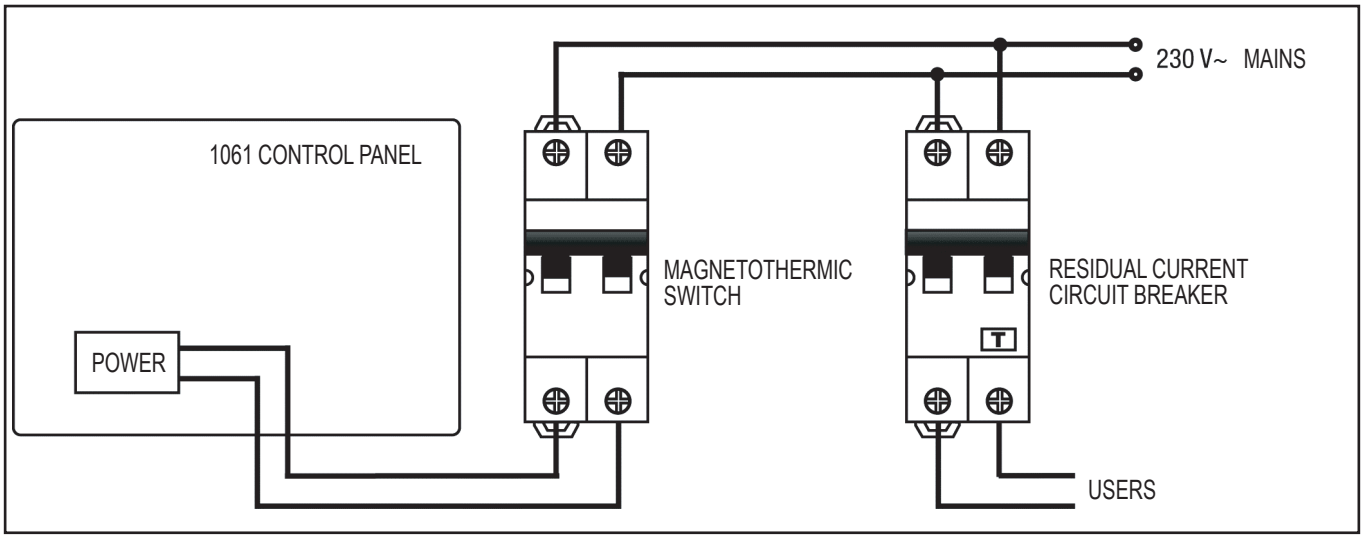


Figure 27 – Connection to mains

The control panel power supply must be connected to 230V mains with a 2-core mains cable with double insulation and a magnetothermic switch. It is suggested to connect the control panel power supply before the residual current circuit breaker, in order to be able to disconnect mains and at the same time keep active the alarm system power supply.
On the power supply unit, the screw terminal pins for 230V cable are labelled as PH (phase) and N (neutral); in the near fin used for power supply fixing there is a slot for the cable tie passing, in order to block cables.

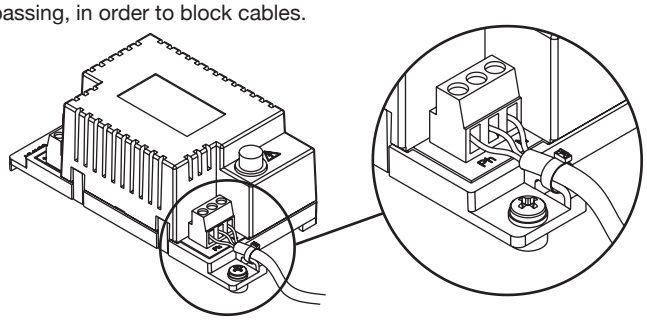


Figure 28 – Fixing of 230V mains cable

The power supply output (OUTPUT) is connected by default to the terminal pins POWER of the motherboard. The backup battery must be connected to cables with faston connectors already installed in factory: the red cable must be connected to the battery positive pole, the black cable to the negative pole.

5. PROGRAMMING

For commands and external signalling description, refer to the User Manual. The system programming can be performed directly on the control panel, with buttons and a little LCD display, or with a PC provided with Urmet EasyPro 1061/001 software and connected to the control panel via the USB port or a modem. Some parameters concerning the PSTN communicator can be changed only via PC.

5.1 PROGRAMMING PROCEDURE

The programming procedure consists in the following steps:
1. Assign an address to the bus devices, if not yet assigned.
2. Enter in programming mode (if the control panel has never been programmed before, see paragraph 5.3 First power-up).
3. Program inputs.
4. Program outputs.
5. Program partitions.
6. Program alarm times, entry, exit, failure and technological.
7. Program keys (master and user).
8. Program codes (master and user).
9. Assign keys to partitions.
10. Assign codes to partitions.
11. Program PSTN/GSM communicator.
12. Record vocal messages.

Not all steps are necessary, because some of them depend on the presence, in the system, of particular bus devices or control panel expansions.

5.2 CONTROL PANEL HARDWARE PROGRAMING INTERFACE

For programming procedure, as shown in figure 21, on the control panel motherboard are available:
- One 2-digits, 7-segments LCD display.
- One **ESC** button to return to the previous menu level or exit from programming mode in any time.
- One ↓ button to scroll items of the same menu level (the menu items structure is circular: at the last item, by pressing again the button, it is possible to return to the first one).
- One **OK** button to select/deselect a parameter or go to a secondary menu.

On the LCD display, the dot that appears down on the right side means that the displayed value is the one stored at the moment for the parameter selected for the configuration.

The result of each programming operation is signalled by:
- A “beep beep” to signal a successful programming procedure.

A long “beep” to signal an unsuccessful programming procedure.

5.3 FIRST POWER-UP

At the first power-up:
- The inputs LEDs blink in sequence.
- On the LCD display appears for 2 seconds the control panel firmware version.
- Then the LCD display starts blinking.

At this moment perform as follows:
- Acquire a key (electronic or transponder) as Master key, by inserting or bring it near a reader.
  Or:
- Enter on the keypad the code that will become the Master code (from 4 to 6 digits, freely selectable) and confirm it by pressing the OK button on the keypad.

If in the system are present both keypads and readers, to acquire a Master key or set a Master code is indifferent. After acquiring the Master key (or after setting the Master code), the LCD display stops blinking and shows the first item of the main menu. Now it is possible to program the control panel (go directly to paragraph 5.4.2 Main programming menu).

WARNING: *Write the programmed Master code, or mark the acquired Master key, because they <u>are necessary to access to Maintenance functions</u>.*

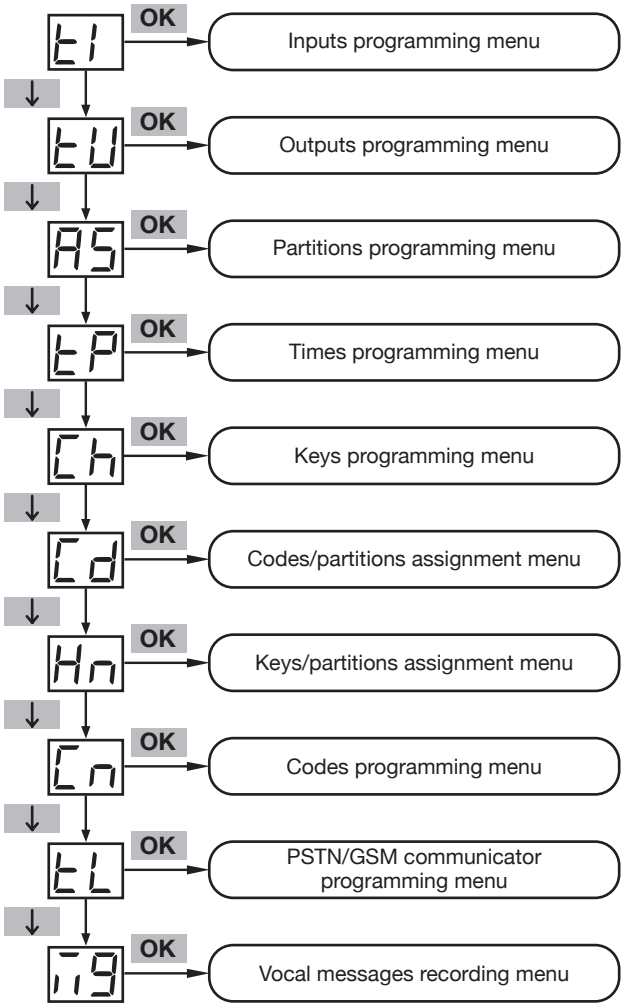
5.4 SYSTEM CONFIGURATION VIA HARDWARE

5.4.1 ENTERING IN PROGRAMMING MODE

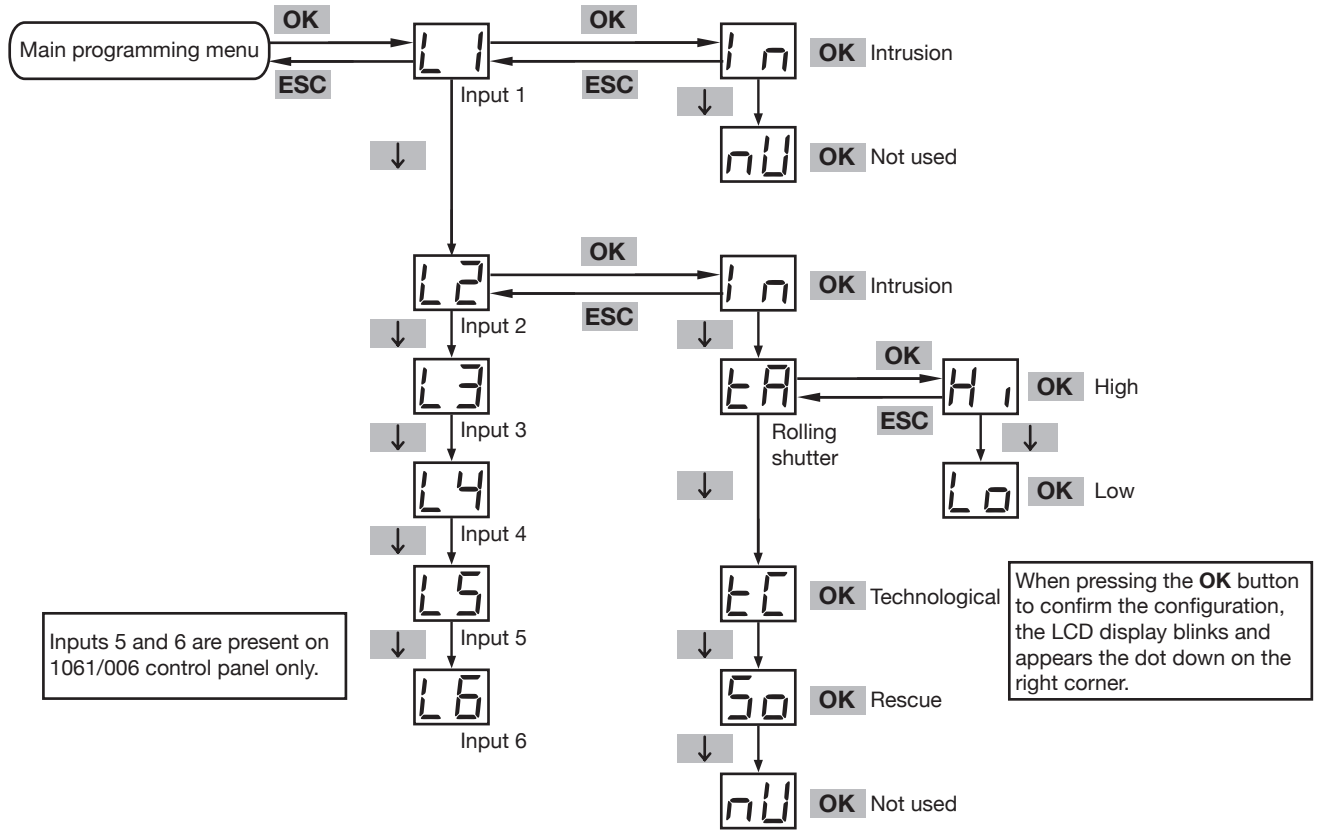
To enter in control panel programming mode, when it has been already programmed before, follow the instructions below:
1. Activate the system maintenance mode, as described in paragraph 7.1 Maintenance procedure.
2. Keep the OK programming button pressed for 3 seconds.
3. On the LCD display appears for 2 seconds the control panel firmware version.
4. Wait until on the LCD display appears the first item of the main programming menu.

Now it is possible to program the control panel (go to paragraph *5.4.2 Main programming menu*).

5.4.2 MAIN PROGRAMMING MENU



5.4.3 INPUTS PROGRAMMING MENU tI



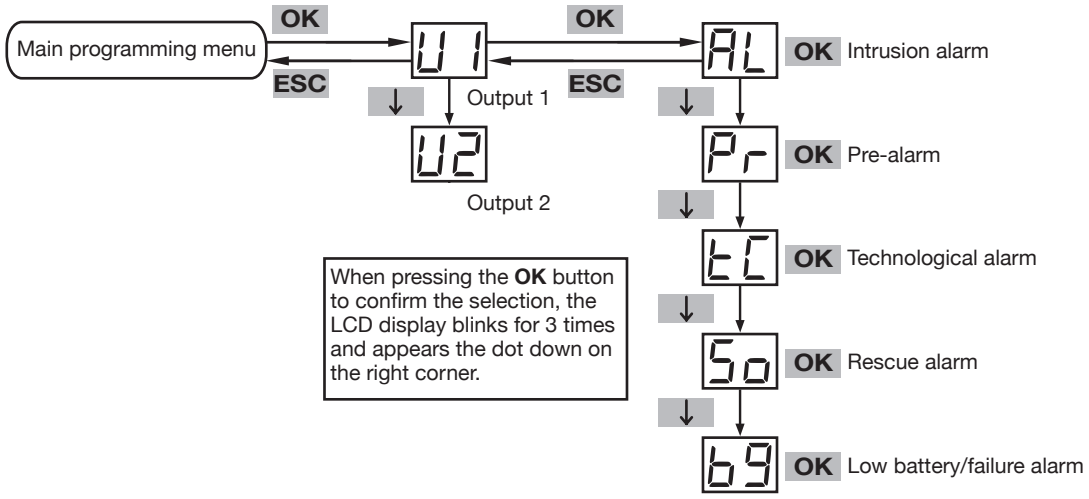
With this menu it is possible to configure every input. Available configurations are the following:

- **Intrusion**: it sends an intrusion alarm if the circuit is opened (input configured as NC) or unbalanced (input configured as balanced) and the concerned partition is active. The circuit opening can be caused by a tamper attempt or by an alarmed detector. In case of balanced line,

unbalancing caused by a short circuit activates a tamper alarm even if the system is disarmed. Possible types of intrusion input are the following:
  - **Immediate (Lines 2-6)**: the intrusion signal is sent as soon as the input is opened or unbalanced; it is the only type available for input from 2 to 6.
  - **Delayed (Line 1)**: the input opening or unbalancing starts the Entry Time, during which all the alarms signalled by the other inputs are ignored. If, when the Entry Time is elapsed, the alarm system has not been disarmed, the control panel activates the programmed alarm signalling. It is the only type available for input 1).
- **Rolling shutter**: the intrusion alarm is generated when is detected by the rolling shutter detector a given number of pulses. Two levels of sensitivity are possible:
  - **High**: the alarm is generated when the rolling shutter has made a travel of about 15-20cm.
  - **Low**: the alarm is generated when the rolling shutter has made a travel of about 40cm.
- **Technological**: the input opening generates a technological alarm, even if the system is disarmed. The input is always active (H24). This is the configuration for the input to which are connected smoke, gas, flood or similar detectors, if present.
- **Rescue**: it is an input always active (24H); its opening generates a rescue alarm.
- **Not used**: it is the configuration to be used for inputs to which no detectors are connected (open input).

An input can have only one of the above described configurations.
The tamper input (tamper) can not be programmed nor excluded.

5.4.4 OUTPUTS PROGRAMMING MENU [EU]

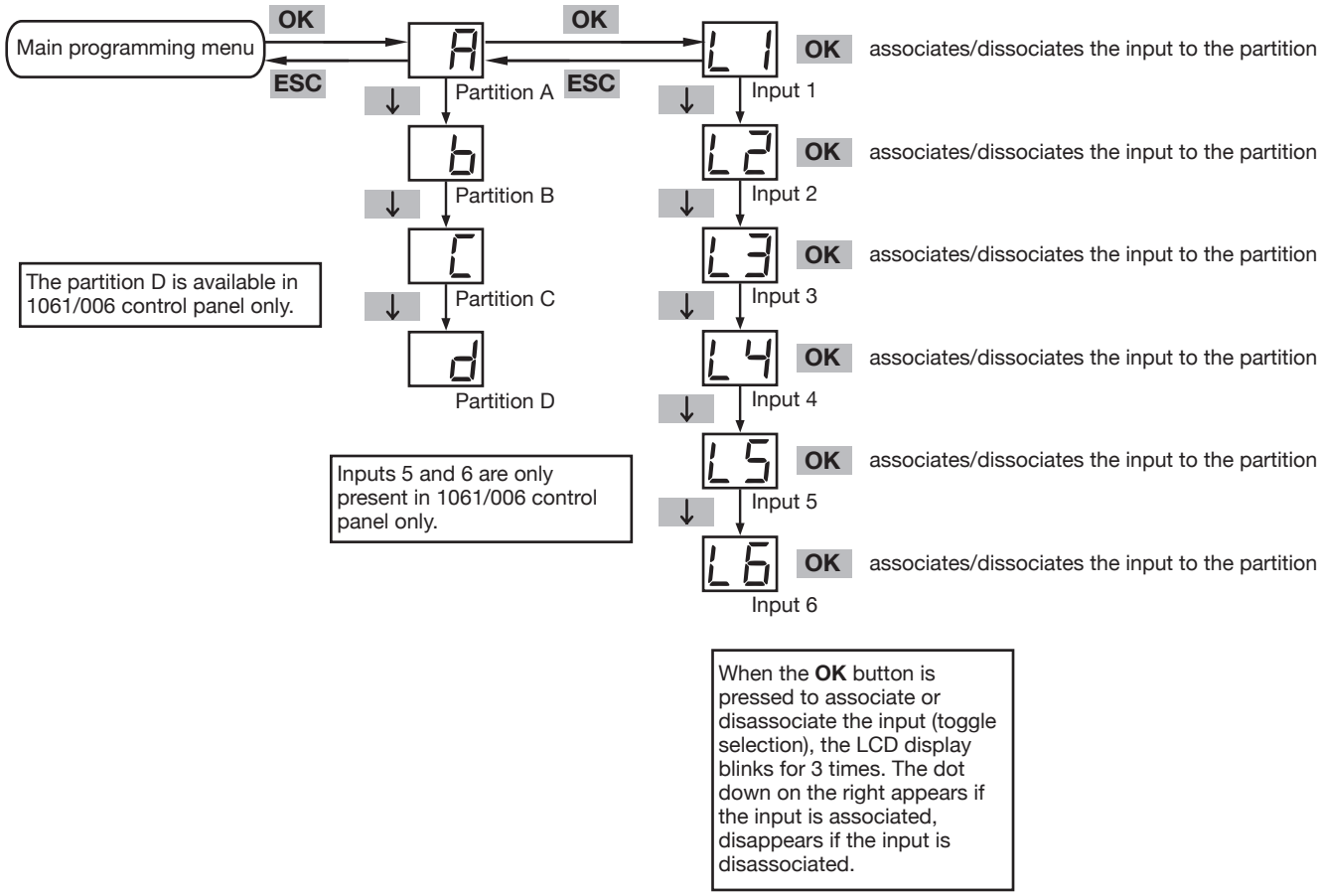


Only the two auxiliary relay outputs 1 and 2 are programmable. The output configuration determines which alarms will cause the relay contact switching (excited relay). Possible associations are:
- **Intrusion alarm**: the relay switches (for the alarm time) when the control panel receives an Intrusion alarm or a Tamper alarm.
- **Pre-alarm**: the relay switches when the input 1 is activated. The relay stays excited until the Entry time is elapsed.
- **Technological alarm**: the relay switches (for the alarm time) when the control panel receives a Technological alarm.
- **Rescue alarm**: the relay switches (for the alarm time) when the control panel receives a Rescue alarm.
- **Low battery/failure alarm**: the relay switches when occurs one of the following failures:
  - Low battery.
  - Failure on PSTN telephone line or no GSM network.
  - Burnt fuse.
  - Bus line failure.

Failure signallings stay active until failure is removed.

To an output can be associated only one of the above mentioned alarms.

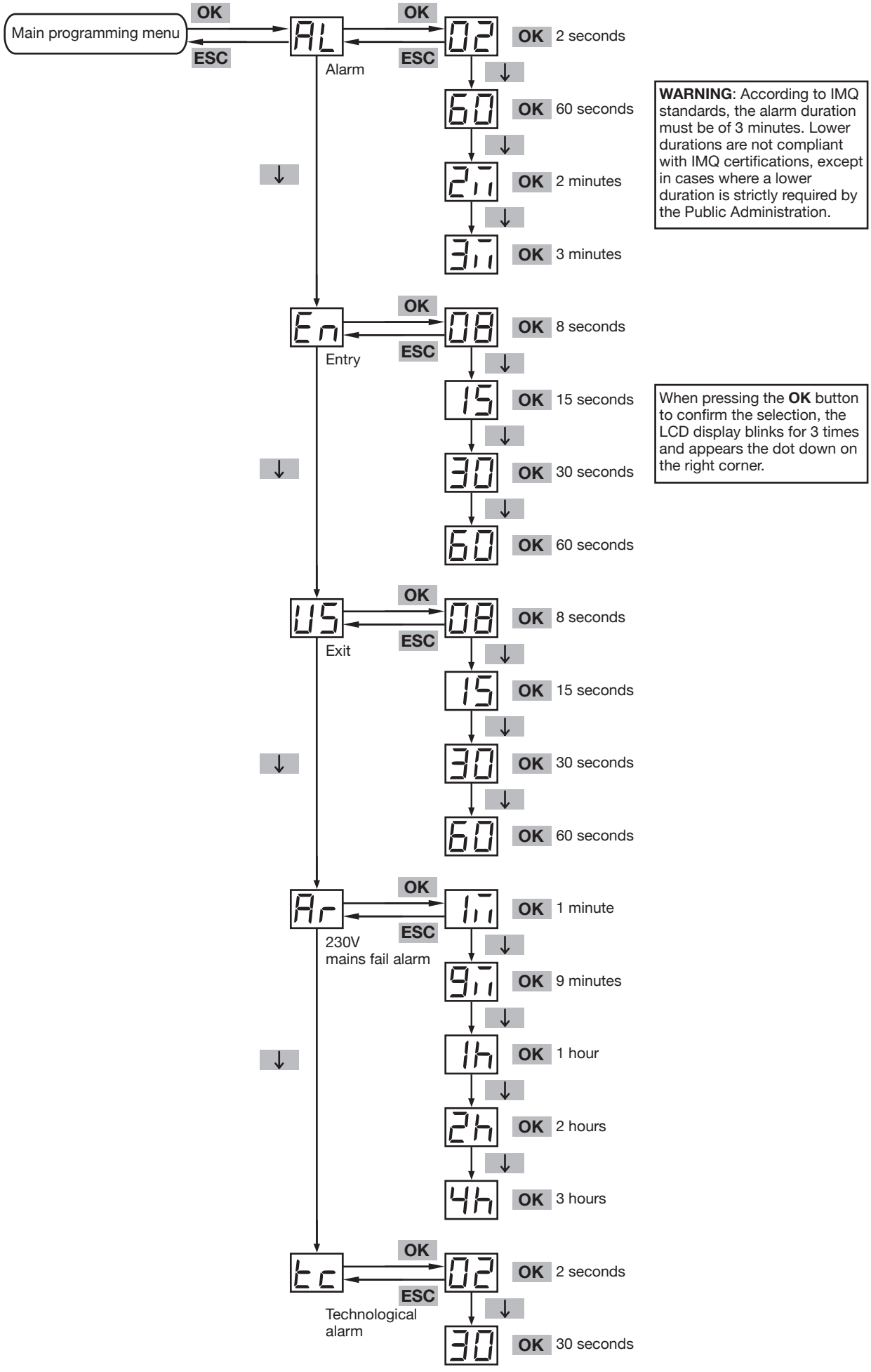
5.4.5 PARTITIONS PROGRAMMING MENU A5



WARNING: *Many inputs can be associated to one partition, but an input can be associated only to one partition. To associate an input to another partition, before it is necessary to dissociate it from the previous partition.*

By default, all the control panel inputs are associated to partition A.

5.4.6 TIMES PROGRAMMING MENU tP



WARNING: According to IMQ standards, the alarm duration must be of 3 minutes. Lower durations are not compliant with IMQ certifications, except in cases where a lower duration is strictly required by the Public Administration.

When pressing the **OK** button to confirm the selection, the LCD display blinks for 3 times and appears the dot down on the right corner.

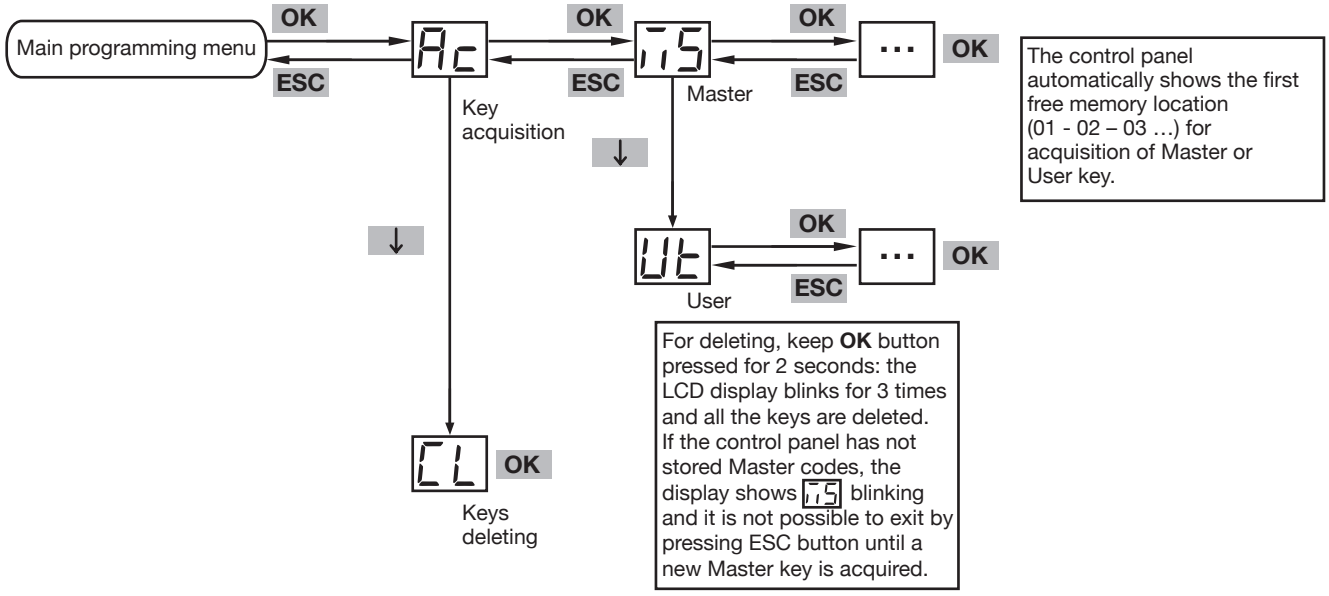
It is possible to configure the following system times:

- **Alarm**: it is the alarm output activation time (sirens or other) in case of:
  - Intrusion alarm, with armed system (intrusion outputs only).
  - Tamper alarm, also with disarmed system (intrusion outputs only).
  - Rescue alarm, also with disarmed system (rescue outputs only).
  - Low battery/failure alarm, also with disarmed system (Low battery/failure alarm outputs only).

2 seconds time must be used exclusively for test purposes.

- **Entry (Pre-alarm)**: it is the delay time starting when the delayed input (input 1) detects an intrusion attempt. During this time, alarm signals, if present, are ignored, allowing people to enter in protected premises to disarm, by keypad or key, the alarm system. Entry time is interrupted by disarming totally or partially the system. During entry time, the keypad buzzer sounds intermittently. When entry time is elapsed and the partition including the input 1 has not been deactivated, the control panel generates an intrusion alarm.
- **Exit**: it is the delay time starting when the system is partially or totally armed; when the time is elapsed, the system is activated. During this time, alarm signals, if present, are ignored, allowing people to leave the premises that will be protected by the alarm system. Exit time can be interrupted by disarming totally or partially the system. During exit time, the keypad buzzer sounds intermittently.
- **230V mains fail alarm**: it is the time that must elapse without 230V power supply before the control panel sends the related alarm vocal message, SMS and with digital protocol (depending on message kind, are required PSTN and GSM telephone lines, connections and a subscription with an alarm reception centre). Time calculation is reset every time 230V power supply is available again for 5 consecutive minutes. 1 minute time setting must be used exclusively for test purposes.
- **Technological alarm**: it is the alarm outputs activation time (sirens and other), configured as technological, in case of Technological alarm; alarm is generated also with disarmed system.

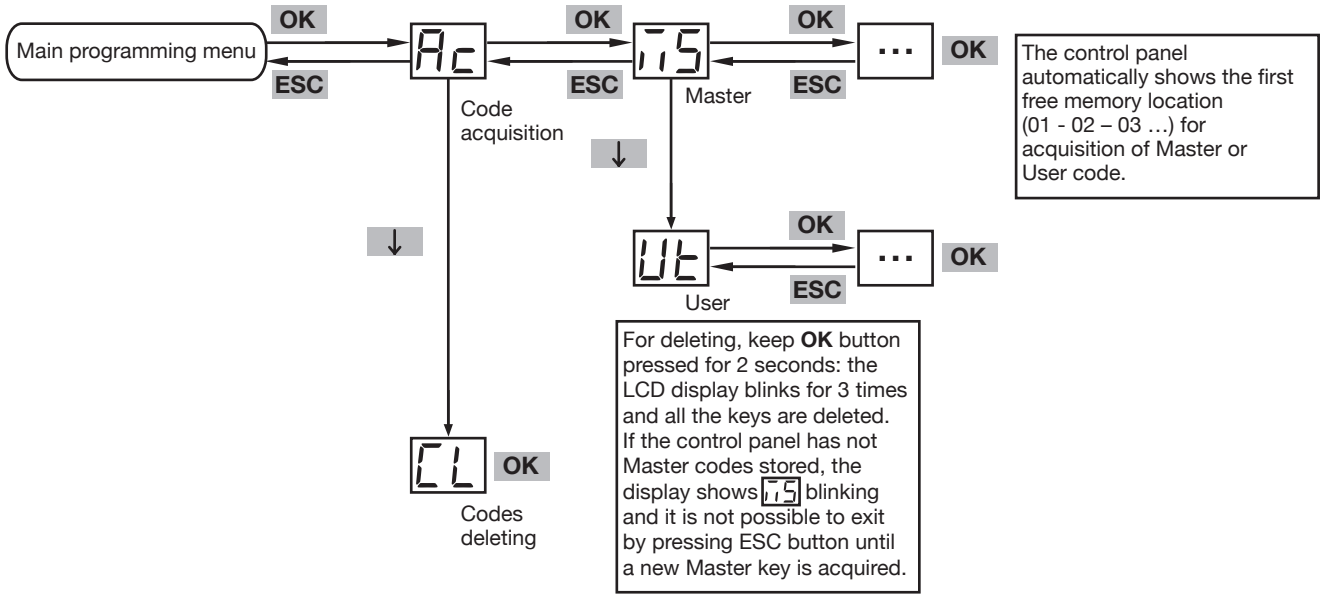
5.4.7 KEYS PROGRAMMING MENU [Ch]



To acquire a new electronic or transponder key, insert or bring it near the reader. In case of successful acquisition, the control panel LCD display blinks to confirm and a double acoustic signal is emitted (beep beep); on readers all leds turn on for some seconds.
If is inserted a key already acquired, all readers leds blink at the same time for some seconds.

The control panel can acquire up to 10 keys; the shown number is the key identifier.

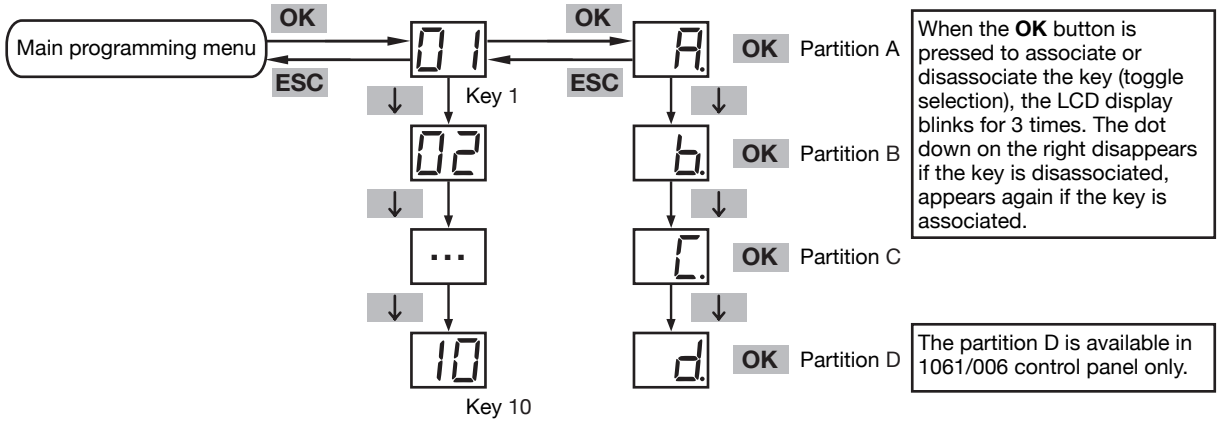
5.4.8 CODES PROGRAMMING MENU Cd



To acquire a new code, follow the instructions below:
- Press **OK** button on motherboard.
- Enter on the keypad a numeric code from 4 to 6 digits an confirm by pressing **OK** button on the keypad.
- In case of successful acquisition, the control panel LCD display blinks to confirm and a double acoustic signal is emitted (beep beep) both in control panel and in keypads. The shown number is the code identifier.

The control panel can acquire up to 10 codes.

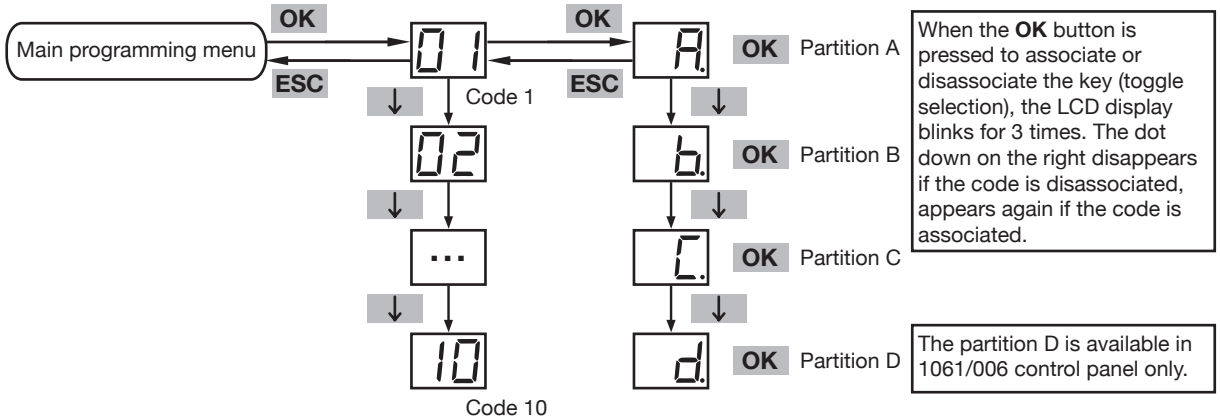
5.4.9 KEYS / PARTITIONS ASSOCIATION MENU Hn



When a key is acquired, it is automatically associated to all the partitions and so it is necessary to disassociate it from the partitions where it must not be active. If needed, the key can be associated again to those partitions afterwards.

To disable a key, it is sufficient to disassociate it from ALL the partitions.

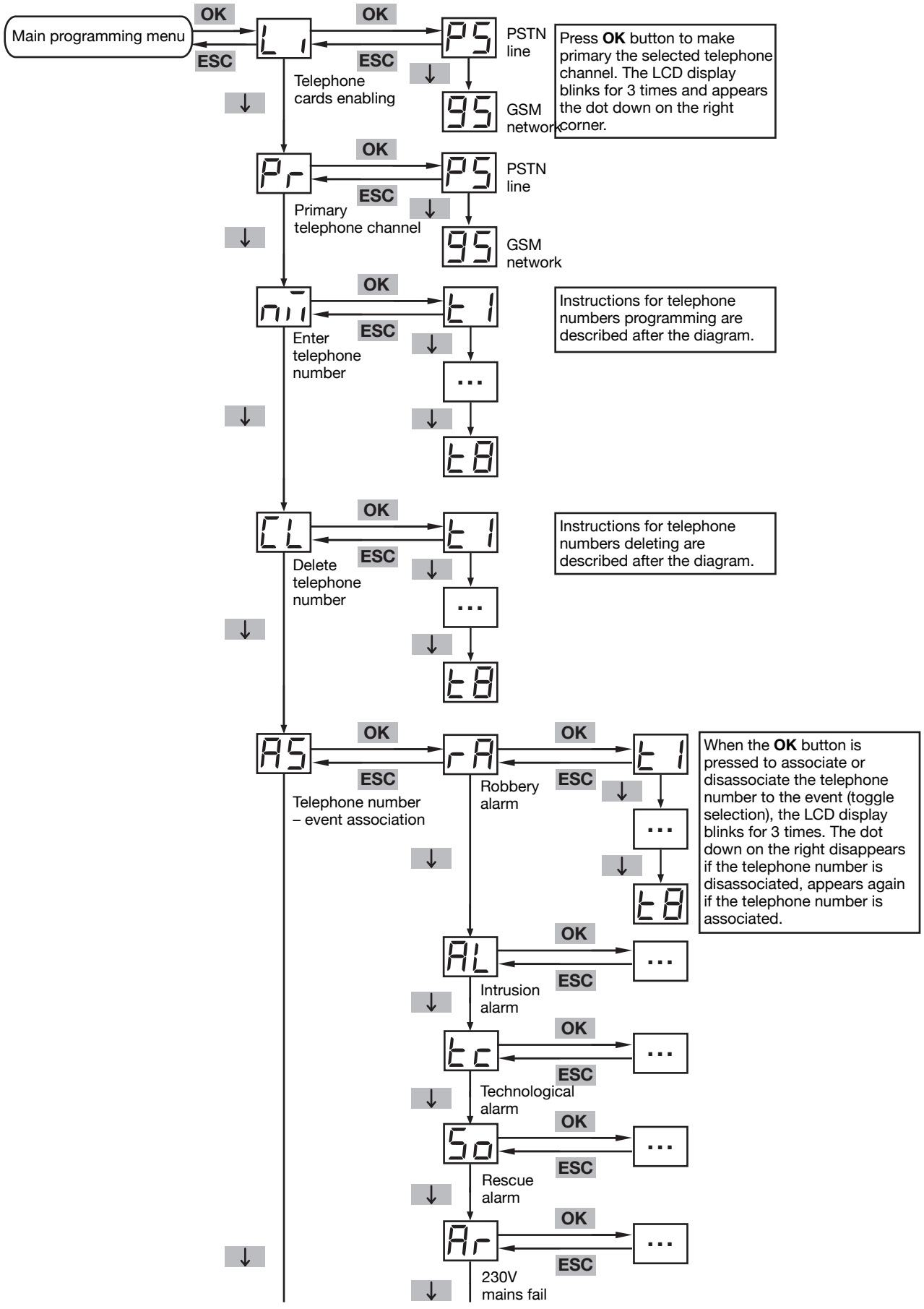
5.4.10 CODES / PARTITIONS ASSOCIATION MENU Cn

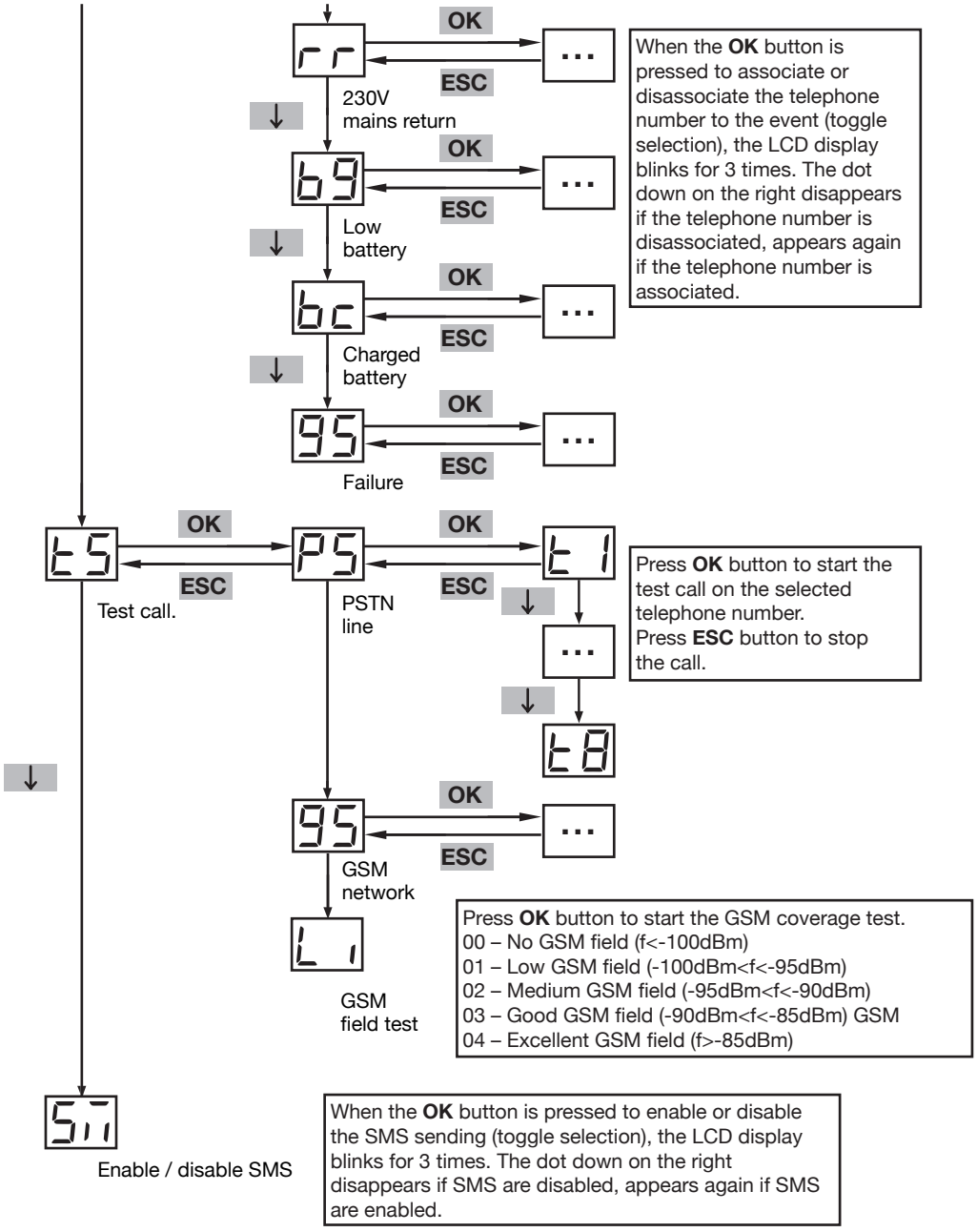


When a code is acquired, it is automatically associated to all the partitions and so it is necessary to disassociate it from the partitions where it must not be active. If needed, the code can be associated again to those partitions afterwards.

To disable a code, it is sufficient to it from ALL the partitions.

5.4.11 PSTN/GSM COMMUNICATOR PROGRAMMING MENU tL





When an event occurs, the telephone communicator starts sending alarm calls to every telephone number associated to the event, in sequence.

If in the control panel there are both the PSTN telephone communicator and the GSM module, with Primary telephone channel parameter, it is possible to identify which device must be used as priority channel for alarm calls. If the primary telephone channel is not available, (for example for PSTN line failure or no GSM network), is automatically used the other one.

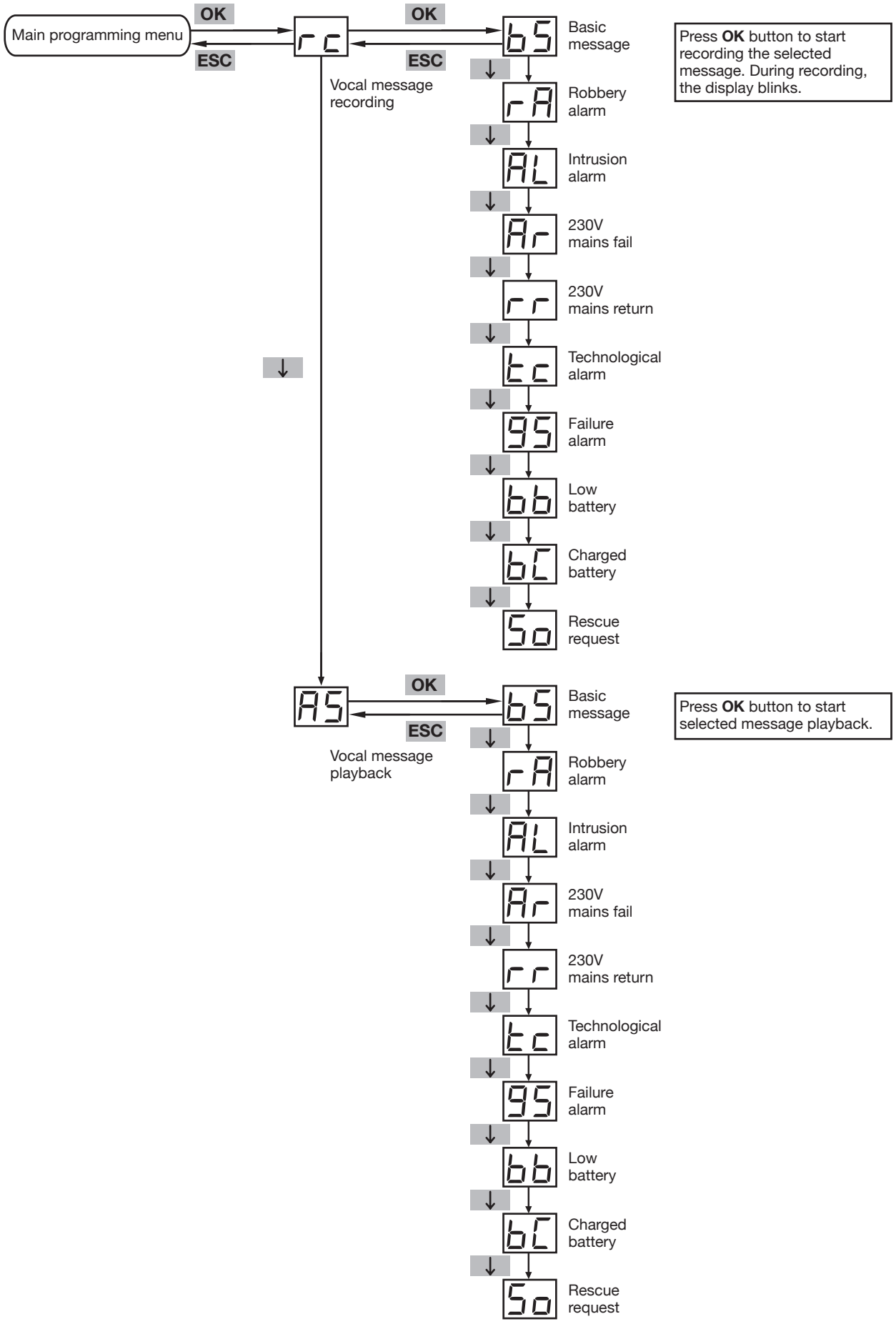
Telephone number entering
To enter a telephone number, follow the instructions below:
1. Press **OK** button to select the desired memory location (t1, t2 … t8).
2. Enter the telephone number, using the “arrow” button; digits scroll in sequence, character P inserts a 1 second pause.
3. Press **OK** button to confirm.
4. Repeat from step 1 until the whole telephone number has been entered.
5. Keep **OK** button pressed for 2 seconds to confirm the whole telephone number. The telephone number scrolls on LCD display in order to check it and appears the dot down on the right.

Check of a telephone number already programmed
To check a telephone number already programmed (the stored telephone numbers are indicated by the dot down on the right corner of LCD display), press **OK** button. The number will appear on display, one digit at a time, blinking on the right.

Telephone number deleting
Select the desired memory location (t1, t2 … t8) and keep **OK** button pressed for 2 seconds. The LCD display blinks for 3 times and disappears the dot down on the right.

WARNING: *Using a PC and the suitable software, it is possible to customize an higher number of telephone parameters. For further information, see paragraph 5.5.3 Telephone communicators configuration.*

5.4.12 VOCAL MESSAGES RECORDING MENU



The speech synthesis card keeps in memory 18 vocal messages. By default, the card contains pre-recorded messages, that can be customized during installation. The only message which must be customized is the basic message, that must contain the following data: “family or firm name” where the system has been installed, “address and street number”, “town”. These data should be repeated twice at least.
An example of basic message is: “Mario Rossi’s apartment, piazza Roma 1, Milano”.

The basic message is played before all the configured messages sent after an event has occurred.

Possible messages are the following:

No.	Message	Event that activates the message	Max. length	Customizable	Customizable vocal message (factory setting)
1	Basic message		15s	X	“Mister X,Y’s house, X,Y street”
2	Robbery alarm		5s	X	“Robbery alarm”
3	Intrusion alarm	Intrusion and tamper	5s	X	“Alarm”
4	Technological alarm		5s	X	“Technological alarm”
5	230V mains fail		5s	X	“Mains fail”
6	230V mains return		5s	X	“Mains return”
7	Failure alarm		5s	X	“Failure alarm”
8	Rescue request		5s	X	“Rescue request”
9	System total arming				
10	System total disarming				
11	Partition A active				
12	Partition B active				
13	Partition C active				
14	Partition D active				
15	Mains present				
16	No mains				
17	Charged battery		5s	X	“Charged battery”
18	Low battery		5s	X	“Low battery”
19	Code entering				
20	Command executed				

How to record a message
To record a message, follow the instructions below:
1. Connect the provided earphone with microphone to the speech synthesis card.

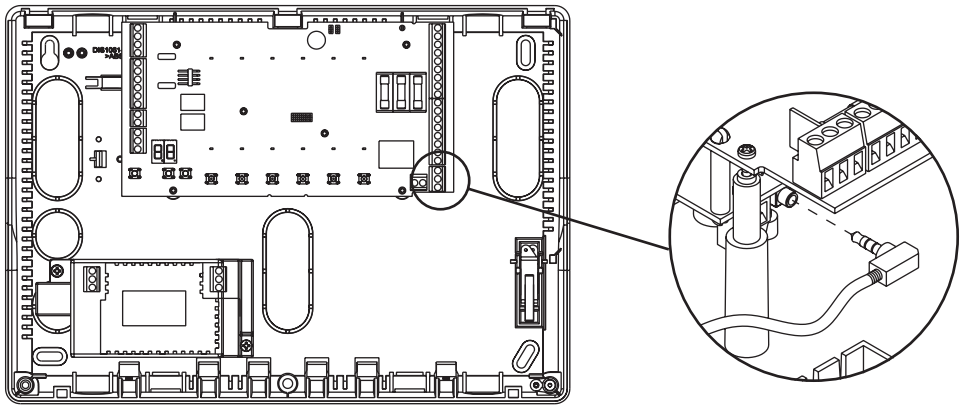


Figure 29 – Connection of earphone to speech synthesis card

2. Scroll the programming menu until the memory location for the kind of message to customize is reached.
3. Press **OK** button to start recording; the LCD display starts blinking.
4. Pronounce clearly and distinctly the message to be recorded. When the available time is elapsed, the LCD display stops blinking and recording is interrupted.
5. If recording is not satisfactory, it is possible to do it again, by repeating the procedure from step 3.

How to play a message
To play a message, follow the instructions below:
1. Connect the provided earphone with microphone to the speech synthesis card.
2. Scroll the programming menu until the memory location for the kind of message to customize is reached.
3. Press **OK** button to start playback.

5.4.13 KEYPAD AUXILIARY INPUTS PROGRAMMING

By default the input is configured as “contact”, for example for a magnetic contact on a door or an infrared detector, but it can also be configured to connect a rolling shutter detector.

How to set the auxiliary input for the contact
1. Disarm the system.
2. Put the keypad rotary switch on “F”.
3. Press twice the control panel “**OK**” button; a confirmation beep will be emitted.
4. Put back again the keypad rotary switch on its original address (position “0”, “1”, “2” or “3”).

How to set the auxiliary input for the rolling shutter detector
1. Disarm the system.
2. Put the keypad rotary switch on “F”.
3. Press twice the keypad “**X**” button; a confirmation beep will be emitted.
4. Put back again the keypad rotary switch on its original address (position “0”, “1”, “2” or “3”).

5.4.14 EXIT FROM PROGRAMMING PROCEDURE

To exit from the programming procedure, it is sufficient to go to the main level of menus tree, by pressing ESC button repeatedly and then keep ESC button pressed for 3 seconds. The LCD display turns off and the parameters configured until that time will be stored in the control panel.

5.5 SYSTEM CONFIGURATION VIA SOFTWARE

Using a PC provided with Urmet EasyPro software, it is possible to program more easily 1061/004 and 1061/006 control panels. To do it, connect the PC to the control panel via the USB 2.0 interface. With the same software it is possible to access to further PSTN telephone communicator and GSM module configuration parameters. In this way it is possible to perform a more detailed customization than the one obtained with the control panel programming menus.

5.5.1 USB INTERFACE MOUNTING AND PC CONNECTION

To mount the USB interface and connect the PC, follow the instructions below:
1. If necessary, put the system in maintenance mode, as described in paragraph 7.1 Maintenance procedure.
2. Connect the USB interface to the motherboard, as shown in the following diagram.

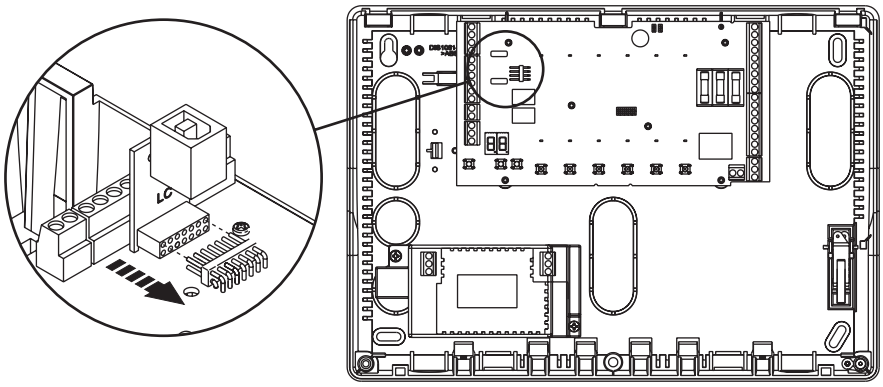


Figure 30 – USB 2.0 interface connection diagram

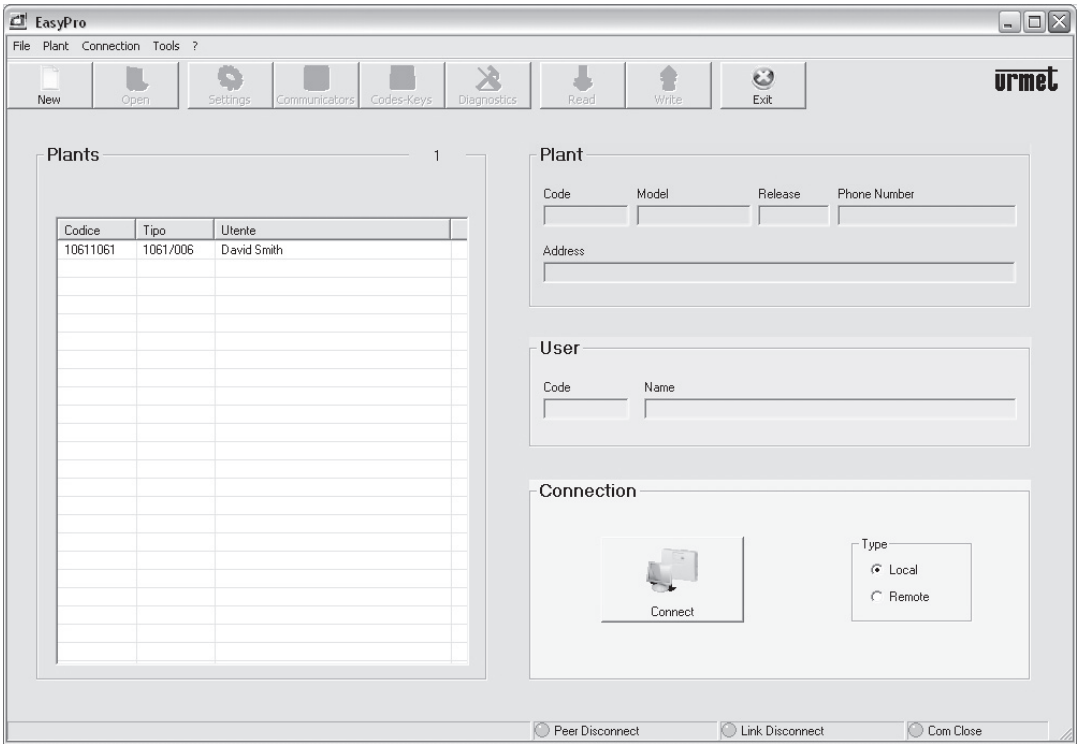
3. Connect the PC to the interface, using the provided USB cable.

At the end of the programming procedure, simply disconnect the USB interface from the control panel motherboard.

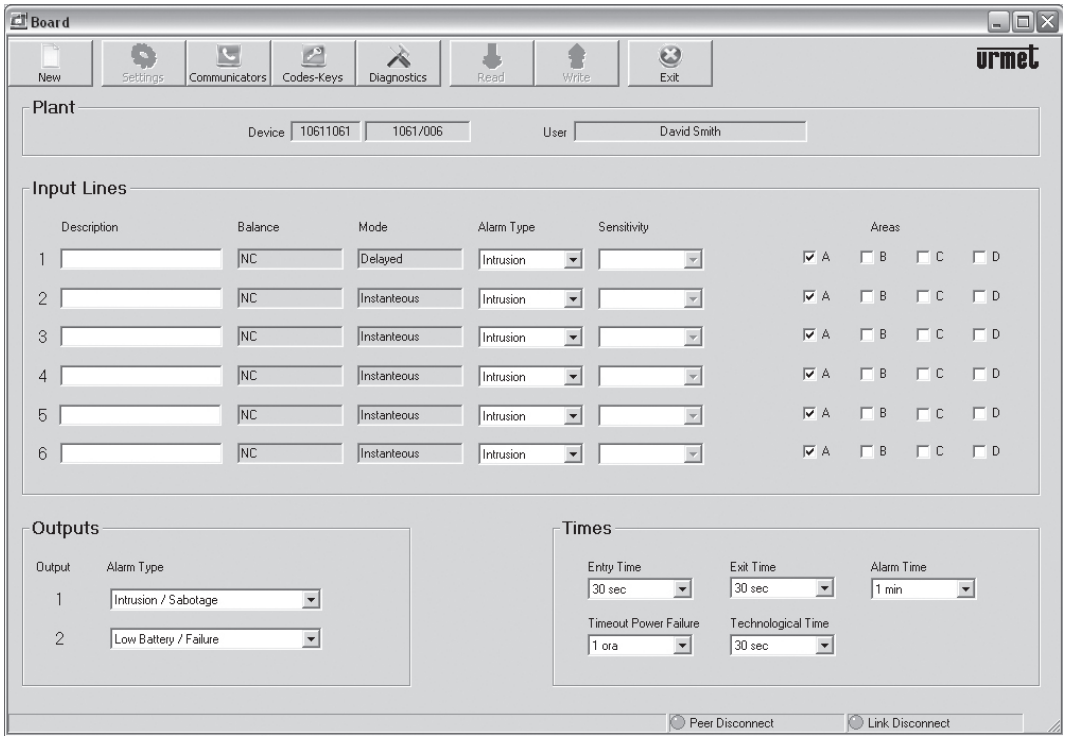
WARNING: I*t is assumed that the user is able to use the EasyPro software. For sections not described in this manual (for example, the connection and its parameters, creation of a new system, etc.), refer to the software user manual.*

5.5.2 BASIC PARAMETERS PROGRAMMING

To program locally system basic parameters, follow the instructions below:
1. Select the desired system from **Systems list / Lista Impianti** and press the button **Configurazione/Configuration**.



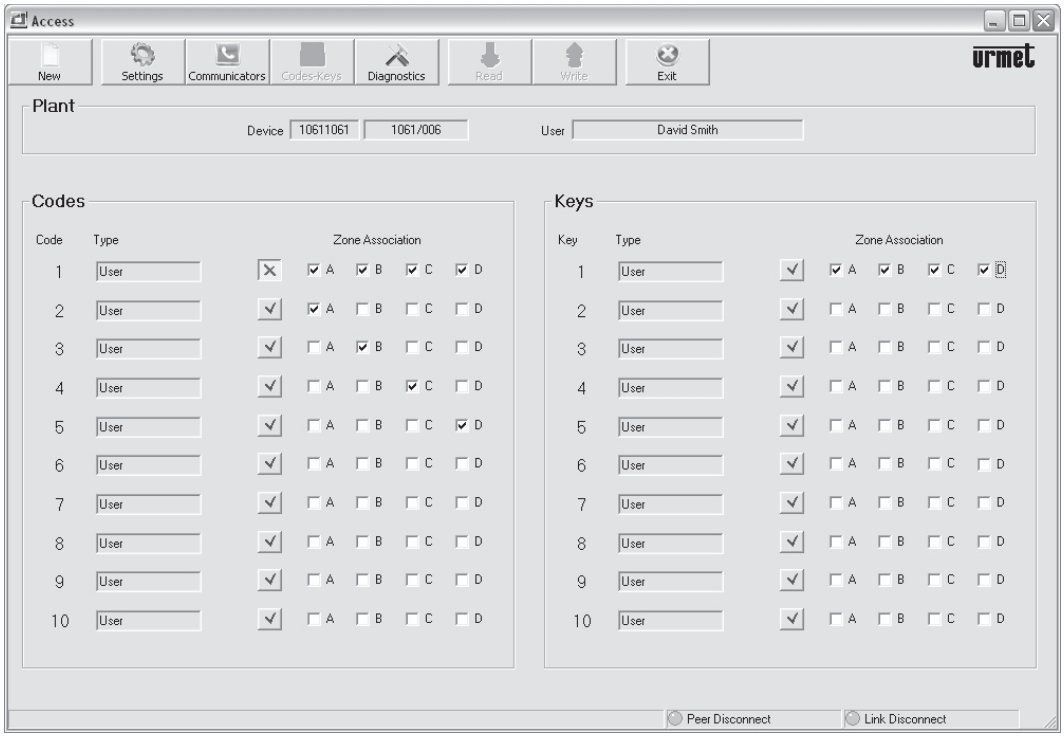
2. On the display appears **Configurazione: Ingressi / Uscite / Tempi Configuration: Entries / Exits /Times** that allows to configure system inputs, outputs and times.



The following parameters are configurable:

- **Input lines**:
  - **Description**, field where it is possible to enter an alphanumeric text used to identify more easily the input. Good descriptions could be: “Entrance door”, “Child room”, “Garage”, “Accounting department”, “ Workshop”, etc.
  - **Configuration**, that allows to configure the input. For their meaning, see paragraph 5.4.3 Inputs programming menu. If “Rolling shutter” is selected as configuration, also the Sensitivity field is enabled.
  - **Partitions**, where it is possible to associate/disassociate the input to the partitions.
- **Outputs**, where it is possible to associate/disassociate the relay outputs to the events. For their meaning, see paragraph 5.4.4 Outputs programming menu.
- **Times**, where it is possible to set the different timings used by the system. For their meaning, see paragraph 5.4.6 Times programming menu.

3. Press the button **Codes/Keys**. Appears the display **Codes and Key - Codici e chiavi**, that allows to configure keypad codes and electronic or transponder keys.



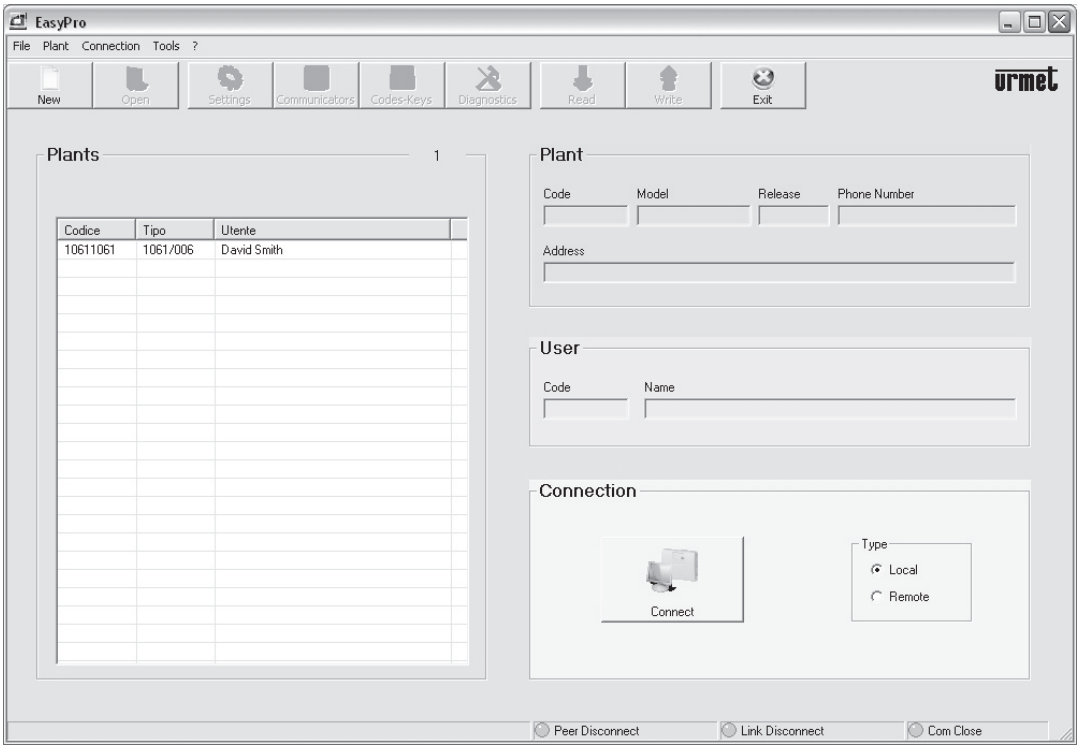
The following parameters are configurable:

- **Codes:**
  Associated partitions, where it is possible to select partitions which can be activated or deactivated by the code.
- **Keys:**
  Associated partitions, where it is possible to select partitions which can be activated or deactivated by the key.

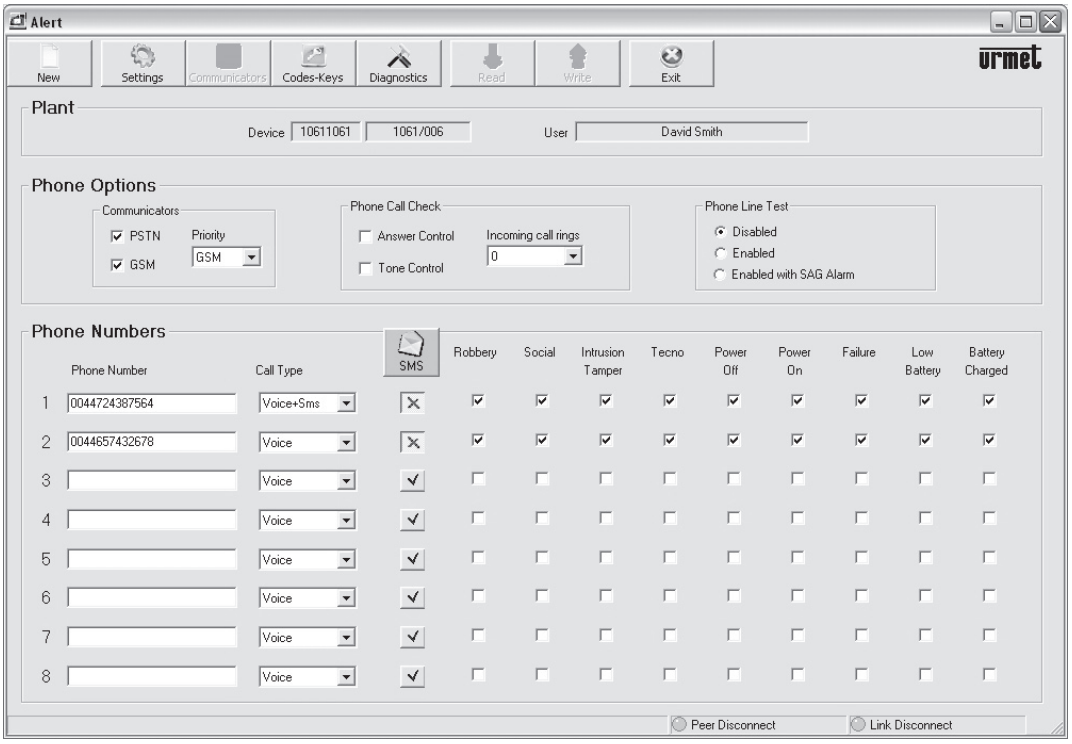
5.5.3 TELEPHONE COMMUNICATORS CONFIGURATION

To locally program basic parameters of he system, follow the instructions below:

1. Select the desired system from **Systems list/Lista Impianti** and press the button **Comunicatori/Communicators**.



2. On the display appears **Comunicatori Telefonici/Telephone communicators**, that allows to configure the PSTN telephone communicator and the GSM module.



The following parameters are configurable:

- **Telephone options:**
  - **Communication modules**, where it is possible to indicate if in the control panel are installed the PSTN telephone communicator, the GSM module or both of them. If both of them are installed, it is also possible to select, with priority, which one must be used first.
  - **Telephone call check**, that allows to set the following parameters:
    - **Answer check**, that recognizes the call signal, after the number has been dialled. If the answer check is enabled, the communicator waits until the called number answers, before playing the alarm vocal message (if the call signal is not recognized, the alarm vocal message is played anyway, after some seconds from the end of the dialled telephone number). If disabled, the vocal message is played 2 seconds after the the telephone number has been dialled.
    - **Tones check**, if enabled, it dials the number only after the dial tone has been detected; if disabled, it enters the number 3 seconds after the line has been seized. If the GSM communicator is installed, it enables the field test before the calls cycle.
    - **Rings before answer**, that allows to set the rings number before the control panel answers an incoming call. If the rings number is set to “0”, incoming calls are ignored.
  - **Telephone line automatic** tests, allows to select one of the following options:
    - **Disabled**, disables the test used to check the telephone line correct operation.

- **Enabled without tamper alarm**, enables the automatic test for telephone line check (failure or no line). The test is performed each time the system is activated/deactivated (also partially). If the test is unsuccessful, no tamper alarm is generated.
- **Enabled with tamper alarm**, enables the automatic test for telephone line check (failure or no line). The test is performed each time the system is armed/disarmed (also partially). If the test is unsuccessful, is generated not only the failure signalling, but also the tamper alarm.

- **Telephone numbers:**
  - **Number**, is the telephone number to be used. The number can be composed by 21 digits max.
  - **Message kind**, used to indicate if the alarm message must be sent only as vocal message (Voice), as vocal and SMS (**Voice + SMS**) or numeric, if addressed to an alarm reception centre (IDP, ADF or SIA, according to the protocol used by the alarm reception centre). SMS messages will be sent only if the GSM module is present and has priority, and numeric calls to alarm reception centres only if the PSTN module is present and has priority.
  - As last step, select the alarm events associated to the telephone number, that will generate the alarm message sending.

6. FINAL OPERATIONS

6.1 COMPLETION

6.1.1 ELECTRONIC KEY/PROXIMITY READERS CLOSING

Install the electronic key/proximity reader in the suitable support. Fix the support to the flush or wall mounting box and put plates, if necessary.

6.1.2 KEYPADS CLOSING

Screw the keypad support on the flush or wall mounting box. Put the provided Simon Urmet Nea plate on the support, taking care to close the front tamper by pressing it down.

6.1.3 CONTROL PANEL CLOSING

Close again the control panel with its lid and fix it with the two flush mount fixing screws. After closing the control panel tamper, the system exits from the maintenance phase.

6.2 TEST

At the end of installation and programming operations, perform the system test. In particular, it is necessary to verify if:

- The programmed keys activate and deactivate the intrusion partitions for which they are enabled.
- The programmed codes activate and deactivate the intrusion partitions for which they are enabled.
- The sensors detect intrusion attempts.
- Sirens and other programmed outputs are activated in case of an alarm.
- The telephone communicators, if installed, send the programmed alarm calls.

7. MAINTENANCE

7.1 MAINTENANCE PROCEDURE

The system maintenance procedure allows to operate on the system components – as control panel, keypads, detectors, sirens – without siren alarm signalling or telephone calls sending. After entering in maintenance mode, the tamper line is disabled and so it is possible to open without problems the system devices. The maintenance procedure can be activated with a Master key or a Master code.

To enter in the maintenance mode, follow the instructions below:
1. Totally disarm the system with a Master key or code.
2. Open the control panel within 2 minutes from disarming (the control panel tamper must be open).

The maintenance mode is signalled by a fast sequential blinking of LEDs on the control panel motherboard and on readers and keypads.

To exit from the maintenance mode, it is necessary to close again all the system components tampers and close the control panel (so also the control panel tamper is closed).

7.2 READER

7.2.1 ELECTRONIC KEY/PROXIMITY READER ADDITION

To add a new reader, follow the instructions below:
1. Activate the system maintenance mode (see paragraph *7.1 Maintenance procedure*).
2. Open the control panel.
3. Unpower the control panel.
4. Disconnect the control panel backup battery.
5. Add the new device (bus extension, connections, address selection), by following instructions in chapters 2, 3 and 4.
6. Connect again the backup battery and power again the control panel.
7. Program the new reader.
8. Close the control panel to exit from the maintenance procedure.

7.2.2 ELECTRONIC KEY/PROXIMITY READER DELETING

To delete a reader from the system, follow the instructions below:
1. Activate the system maintenance mode (see paragraph *7.1 Maintenance procedure*).
2. Open the control panel.
3. Unpower the control panel.
4. Disconnect the control panel backup battery.
5. Remove the device and verify the bus continuity, by connecting the isolated segments, if present.
6. Connect again the backup battery and power again the control panel.
7. Close the control panel to exit from the maintenance procedure.

7.2.3 ELECTRONIC KEY/PROXIMITY READER REPLACEMENT

To replace a reader, follow the instructions below:
1. Activate the system maintenance mode (see paragraph *7.1 Maintenance procedure*).
2. Open the control panel.
3. Unpower the control panel.
4. Disconnect the control panel backup battery
5. Remove the old device and replace it with the new one, taking care to set the same address.
6. Connect again the backup battery and power again the control panel.
7. Close the control panel to exit from the maintenance procedure.

7.3 KEYPAD

7.3.1 KEYPAD ADDITION

To add a new keypad, follow the instructions below:
1. Activate the system maintenance mode (see paragraph *7.1 Maintenance procedure*).
2. Open the control panel.
3. Unpower the control panel.
4. Disconnect the control panel backup battery.
5. Add the new device (bus extension, connections, address selection), by following instructions in chapters 2, 3 and 4.
6. Connect again the backup battery and power again the control panel.
7. Program the new keypad.
8. Close the control panel to exit from the maintenance procedure.

7.3.2 KEYPAD DELETING

To delete a keypad, follow the instructions below:
1. Activate the system maintenance mode (see paragraph *7.1 Maintenance procedure*).
2. Open the control panel.
3. Unpower the control panel.
4. Disconnect the control panel backup battery.
5. Remove the device and verify the bus continuity, by connecting the isolated segments, if present.
6. Connect again the backup battery and power again the control panel.
7. Close the control panel to exit from the maintenance procedure.

7.3.3 KEYPAD REPLACEMENT

To replace a keypad, follow the instructions below:
1. Activate the system maintenance mode (see paragraph *7.1 Maintenance procedure*).
2. Open the control panel.
3. Unpower the control panel.
4. Disconnect the control panel backup battery.
5. Remove the old device and replace it with the new one, taking care to set the same address.
6. Connect again the backup battery and power again the control panel.
7. Close the control panel to exit from the maintenance procedure.

7.4 DETECTOR

7.4.1 DETECTOR ADDITION

To add a detector to a control panel input, follow the instructions below:
1. Activate the system maintenance mode (see paragraph *7.1 Maintenance procedure*).
2. Open the control panel.
3. Unpower the control panel.
4. Disconnect the control panel backup battery.
5. Add the new detector, following its instructions. If the input to be used has already other detectors connected, the new device must be compatible with the existing ones. For further information, refer to instructions in chapter 4.
6. Connect again the backup battery and power again the control panel.
7. If the new detector has been connected to a unused input, perform the input configuration.
8. Close the control panel to exit from the maintenance procedure.

7.4.2 DETECTOR DELETING

To delete a detector, follow the instructions below:
1. Activate the system maintenance mode (see paragraph *7.1 Maintenance procedure*).
2. Open the control panel.
3. Unpower the control panel.
4. Disconnect the control panel backup battery.
5. Remove the detector.
6. Connect again the backup battery and power again the control panel.
7. If the detector was the only connected to the input, program the input as “Not used”.
8. Close the control panel to exit from the maintenance procedure.

7.4.3 DETECTOR REPLACEMENT

To replace a detector with an equivalent device, follow the instructions below:
1. Activate the system maintenance mode (see paragraph *7.1 Maintenance procedure*).
2. Open the control panel.
3. Unpower the control panel.
4. Disconnect the control panel backup battery.
5. Replace the old detector with the new one.
6. Connect again the backup battery and power again the control panel.
7. Close the control panel to exit from the maintenance procedure.

7.5 ADDITION OF A CONTROL PANEL OPTIONAL DEVICE

To add an optional device to the control panel, follow the instructions below:
1. Activate the system maintenance mode (see paragraph *7.1 Maintenance procedure*).
2. Open the control panel.
3. Unpower the control panel.
4. Disconnect the control panel backup battery.
5. Add the optional device in the control panel, by following instructions in chapter 4.
6. Connect again the backup battery and power again the control panel.
7. Program the functions available with the new option.
8. Close the control panel to exit from the maintenance procedure.

7.6 BATTERY REPLACEMENT

To replace the control panel backup battery, follow the instructions below:
1. Activate the system maintenance mode (see paragraph *7.1 Maintenance procedure*).
2. Open the control panel.
3. Unpower the control panel.
4. Disconnect the control panel backup battery.
5. Replace the old battery with a new one, with same technical characteristics.
6. Connect again the backup battery and power again the control panel.
7. Close the control panel to exit from the maintenance procedure.

WARNING: *Batteries are special waste material and their disposal is regulated by precise legal provisions; they must be taken to specific collection centres.*

7.7 CLEANING

For devices cleaning, use a dry cloth.

8. TECHNICAL CHARACTERISTICS

8.1 1061 CONTROL PANEL

Power supply nominal voltage (mains): **220-240V~, 50/60Hz**
Max. current consumption (mains): **220mA**
Power supply output nominal voltage: **14,4V Power supply max. output current: 1,5A**
Ripple max (@ 1A): **30mV**
Max. current available for external devices: **700mA (keypads, readers, detectors, sirens, …)**
Lead battery that can be fitted: **12V 7,2Ah (max)**
Control panel electronic parts working voltage: **10,5 ÷ 15V**
Control panel electronic parts consumption (@12V):
  Standby: **150mA**
  Max. in alarm: **300mA**
Battery charging nominal voltage +BT: **13,8V protected by 650mA resettable fuse**
Flat battery threshold: **11,2V ± 2%**
Nominal voltage for outputs +SR: **14,4V with mains present; 0V without mains protected by 650mA resettable fuse**
Nominal voltage for outputs +SIR: **13,8V with mains present; 12V without mains protected by fuse no. 2: 3,15A rapid**
Nominal voltage for inputs +RV: **13,8V with mains present; 12V without mains protected by fuse no. 1: 1A rapid**
Nominal voltage for serial bus +: **13,8V with mains present; 12V without mains protected by fuse no. 3: 1A rapid**
Tamper: **24V – 1A**
Serial line max. length (+ - LA LB): **500m (*)**
Output 1, 2 (relay) max. switching current: **1A resistive**
Output 1, 2 (relay) max. switching voltage: **30V**
Manufacturer declared working temperature: **-5 ÷ +45°C**
Certified working temperature: **5 ÷ +40°C**
Housing protection degree: **IP30 / IK02**
Max dimensions (h x w x d): **240 x 340 x 85mm**
Weight (without battery): **1,450kg**
Bottom and lid: **ABS, white**

(*) The section must be suitably calculated, in order to ensure the correct working voltage for the connected devices. The max. distance that can be achieved depends strictly on the power supply cable section (+ and -) of the serial line and on the current consumption on the other side. Concerning this, each 220m of cable 2 x 0,75 mm2 , with a consumption of 100mA, causes a voltage dropout of about 1V.

8.2 1061/025 MANAGEMENT KEYPAD

Working voltage: **10,5 ÷ 15V⎓**
Consumption (@12V):
  In standby (inputs closed, LEDs and backlighting off): **20mA**
  Max. (inputs open, LEDs and backlighting on): **100mA**
Manufacturer declared working temperature: **-5 ÷ +45°C, relative humidity 95% @ 45°C**
Certified working temperature: **5 ÷ +40°C**
Storage temperature: **-20 ÷ +70°C**
Protection degree: **IP40**
Max dimensions (h x w x d): **91 x 125 x 34mm**
Weight: **200g**

8.3 ELECTRONIC KEY READER

Key codes number: **72 millions of billions**
Nominal voltage: **12V⎓**
Working voltage: **10,5 ÷ 15V⎓**
Consumption (@12V):
  In standby: **7,5mA**
  Max.RMS (with LEDs on): **16mA**
Working temperature: **-25 ÷ +55°C**
Protection degree: **IP40**
Max dimensions (h x w x d), without adapters: **42, 5 x 22 x 51mm**
Lid: **ABS, grey anthracite**

8.4 PROXIMITY READER

Key codes number: **281.000 billions**
Nominal voltage: **12V⎓**
Working voltage: **10,5 ÷ 15V⎓**
Consumption (@12V):
  In standby: **36mA**
  Max. (with LEDs on): **50mA**
Working temperature: **-25 ÷ +55°C**
Protection degree: **IP40**
Reading distance: **0 ÷ 1,5cm**
Max dimensions (h x w x d), without adapters: **42, 5 x 22 x 51mm**
Lid: **ABS, grey anthracite**

8.5 1061/002 PSTN TELEPHONE COMMUNICATOR

Power supply nominal voltage: ..... **12V⎓**
Consumption:
  Max. in standby: **10mA**
  Max. with seized line: **70mA**
Manufacturer declared working temperature: ..... **-5 ÷ +45¡C, relative humidity 95% 45°C**

8.6 1061/458 GSM MODULE

Working voltage: ..... **3,3 ÷ 4,8V⎓**
Consumption:
  Idle Mode: **30mA**
  Speech mode: **300mA**
Max.: ..... **<2,5°**
Sleep mode: **20mA**
Output power: ..... **Class 4 (2W) for E-GSM 900**
Class 1 (1W) for GSM 1800
Manufacturer declared working temperature: ..... **-5 ÷ +45°C, relative humidity 95% 45°C**
Certified working temperature: ..... **5 ÷ +40°C**

8.7 1061/012 SPEECH SYNTHESIS CARD

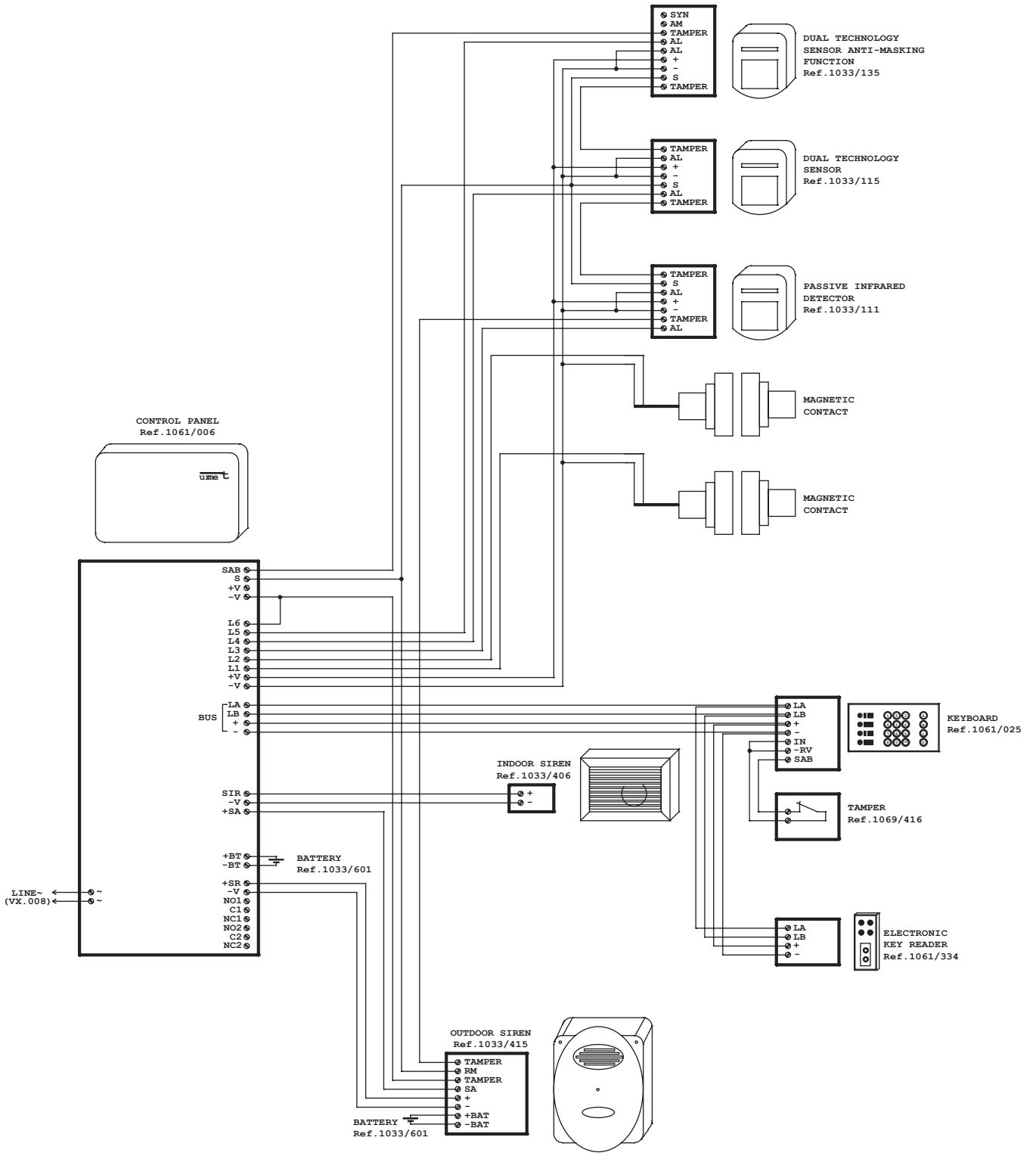
Power supply nominal voltage: ..... **5V⎓**
Consumption:
  Max. in standby: **30mA**
  Max. during message recording or playback: **50mA**
Manufacturer declared working temperature: ..... **-5 ÷ +45°C, relative humidity 95% 45°C**
Certified working temperature: ..... **+5 ÷ +40°C**

8.8 1061/013 ENVRONMENTAL LISTENING MODULE/MESSAGES REPEATER

Working voltage: ..... **12V⎓**
Max. consumption: **35mA**
Environmental microphone: ..... **electret -60dB**
Loudspeaker: **45W 0,5W**
Manufacturer declared working temperature: ..... **-5 ÷ +45¡C, relative humidity 95% 45°C**
Protection degree: **IP30**

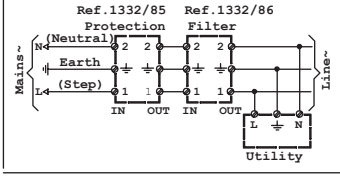
9. EXAMPLE OF CONNECTION WITH NC LINES

SSF112-0270



NOTE COM.F.013	CABLE SECTION TABLE			
MAX LOAD	MAX LINE LENGTH 50 m.	MAX LINE LENGTH 100 m.	MAX LINE LENGTH 150 m.	MAX LINE LENGTH 200 m.
UP TO 25 mA	0,22 mm²	0,22 mm²	0,22 mm²	0,22 mm²
UP TO 45 mA	0,22 mm²	0,22 mm²	0,50 mm²	0,50 mm²
UP TO 50 mA	0,22 mm²	0,22 mm²	0,50 mm²	0,75 mm²
UP TO 60 mA	0,22 mm²	0,50 mm²	0,50 mm²	0,75 mm²
UP TO 90 mA	0,22 mm²	0,50 mm²	0,75 mm²	1 mm²
UP TO 120 mA	0,50 mm²	0,75 mm²	1 mm²	1,50 mm²
UP TO 170 mA	0,75 mm²	1 mm²	1,50 mm²	2,50 mm²
UP TO 220 mA	1 mm²	1,50 mm²	2,50 mm²	4 mm²
UP TO 250 mA	1 mm²	2,50 mm²	4 mm²	4 mm²
UP TO 300 mA	1,50 mm²	2,50 mm²	4 mm²	4 mm²
UP TO 500 mA	2,50 mm²	4 mm²	NOT SUGGESTED	NOT SUGGESTED

VX.008 - Connect the devices to a filter and power line protection device.



10. FACTORY SETTINGS

To reset the control panel to factory settings (reset), follow the procedure below:

1. Activate the system maintenance mode (see paragraph *7.1 Maintenance procedure*).
2. Open the control panel.
3. Keep the arrow button pressed for 10s.
4. On the display appears the message  (reset default).
5. Press **OK** button.
6. On the display appears the software version and then it blinks  .
7. Insert a Master key or enter a Master code and keep on programming.

The reset to factory parameters deletes ALL the settings previously present.

CONTROL PANEL UNIT PARAMETERS	
Connection mode of inputs and tamper line	Normally closed (NC) (programmable with JP1)
Inputs self by-pass	Disabled (programmable with JP2)
Inputs types	Line 1 delayed (not programmable) Lines 2-6 immediate (not programmable)
Inputs configuration	Intrusion
Output 1	Intrusion/tamper alarm
Output 2	Failure/Low battery alarm
Inputs association	All associated to partition A
Auxiliary inputs association (Keypads)	All associated to partition A (not programmable)
Intrusion alarm duration	60 seconds
Entry time	30 seconds
Exit time	30 seconds
Mains fail for 230Vac mains fail alarm activation	1 hour
Technological alarm duration	30 seconds
Keys association	To all partitions
Codes association	To all partitions

TELEPHONE COMMUNICATORS PARAMETERS	
PSTN module	Disabled
GSM module	Disabled
Answer check	Disabled
Tones check	Disabled
Rings number for answer to incoming calls	7
Telephone line automatic tests	Disabled
Alarms/telephone numbers association	No
SMS sending	Disabled
Type of message	Vocal

ANNEX – SYSTEM FINAL CONFIGURATION

CONTROL PANEL CONFIGURATION

Inputs and tamper connections mode	Normally closed (NC)	☐
	Balanced	☐
Inputs self by-pass	Disabled	☐
	Enabled	☐

INPUTS CONFIGURATION

Input	Intrusion (L1 only delayed, all the other only immediate)	Rolling shutter		Technological	Rescue	Not used
		High	Low			
L1	☐	n.a.	n.a.	n.a.	n.a.	☐
L2	☐	☐	☐	☐	☐	☐
L3	☐	☐	☐	☐	☐	☐
L4	☐	☐	☐	☐	☐	☐
L5	☐	☐	☐	☐	☐	☐
L6	☐	☐	☐	☐	☐	☐

n.a. = not available

OUTPUTS CONFIGURATION

Output	Intrusion alarm	Pre-alarm	Technological alarm	Rescue alarm	Low battery / failure alarm
U1	☐	☐	☐	☐	
U2	☐	☐	☐	☐	

PARTITIONS/INPUTS ASSOCIATION

	Ingresso					
	L1	L2	L3	L4	L5	L6
Partitions A	☐	☐	☐	☐	☐	☐
Partitions B	☐	☐	☐	☐	☐	☐
Partitions C	☐	☐	☐	☐	☐	☐
Partitions D	☐	☐	☐	☐	☐	☐

PROGRAMMED TIMES

Alarm	☐ 2 seconds	☐ 60 seconds	☐ 2 minutes	☐ 3 minutes	
Entry	☐ 8 seconds	☐ 15 seconds	☐ 30 seconds	☐ 60 seconds	
Exit	☐ 8 seconds	☐ 15 seconds	☐ 30 seconds	☐ 60 seconds	
230Vac mains fail alarm	☐ 1 minute	☐ 9 minutes	☐ 1 hour	☐ 2 hours	☐ 4 hours
Technological alarm	☐ 2 seconds	☐ 30 seconds			

PARTITIONS/KEYS ASSOCIATION

	Key										
	1	2	3	4	5	6	7	8	9	10	11
Partitions A	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Partitions B	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Partitions C	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Partitions D	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

PARTITIONS/TELEPHONES CODES ASSOCIATION

	Code										
	1	2	3	4	5	6	7	8	9	10	11
Partitions A	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Partitions B	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Partitions C	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Partitions D	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

TELEPHONES

Telephone memory	Telephone number	Associated alarm								
		Robbery	Intrusion	Technological	Rescue	230V fail	230V return	Low battery	Charged battery	Failure
T1		☐	☐	☐	☐	☐	☐	☐	☐	☐
T2		☐	☐	☐	☐	☐	☐	☐	☐	☐
T3		☐	☐	☐	☐	☐	☐	☐	☐	☐
T4		☐	☐	☐	☐	☐	☐	☐	☐	☐
T5		☐	☐	☐	☐	☐	☐	☐	☐	☐
T6		☐	☐	☐	☐	☐	☐	☐	☐	☐
T7		☐	☐	☐	☐	☐	☐	☐	☐	☐
T8		☐	☐	☐	☐	☐	☐	☐	☐	☐

Primary telephone channel	☐ PSTN	☐ GSM
SMS sending	☐ enabled	☐ disabled
Rings number for answer to incoming calls		

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00043 CIAMPINO (ROMA) V.L. Einaudi 17/19A
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80013 CASALNUOVO (NA) V.Nazionale delle Puglie 3
Tel. 081.193.661.20 - Fax 081.193.661.04
30030 VIGONOVO (VE) - V.del Lavoro 71
Tel. 049.738.63.00 r.a. - Fax 049.738.63.11
66020 S.GIOVANNI TEATINO (CH) - V.Nenni 17
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