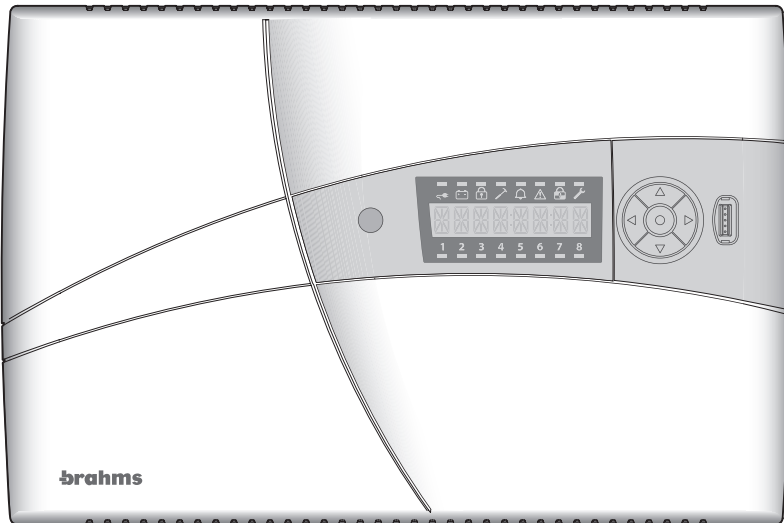


Burglar Alarm System

C4UC0201 - C4UC0401 - C4UC0801



CONTENTS OF THE PACKAGE

In the control panel package you will find:

this manual, the control panel (according to the model purchased):

C4UC0201 + 4 electrical resistors of 1 k Ω 1/4W

C4UC0401 + 8 electrical resistors of 1 k Ω 1/4W

C4UC0801 + 16 electrical resistors of 1 k Ω 1/4W

A contact key, capable of generating a random variable code name with the to 16 million combinations.

The package does not include the battery or the cables for connection to electricity supply network.

SAFETY NOTES

- Carefully read the instructions before beginning the installation and carry out the operations as specified by the manufacturer.
- It is prohibited to use the product for purposes other than those intended or for improper purposes.
- It is prohibited to tamper with or modify the product.
- If the labels are removed from the board the warranty shall become invalid.
- Always use genuine spare parts.
- Installation, programming, operation and maintenance of the product must be carried out only by qualified and appropriately trained technical staff in compliance with the regulations in force. Security system installations are regulated and permitted only to personnel with the qualifications required by law, including accident prevention observances.
- Operate in sufficiently well-lit environments that meet health requirements and use instruments, tools and equipment in good condition.
- At the end of the installation always check that the equipment and the system as a whole are working correctly.
- Do not install the control panel outside or in places where it is subject to dripping or spraying of water.
- Handle the control panel with care; it contains electronic parts that are fragile and sensitive to humidity.
- The electronic boards can be seriously damaged by electrostatic charges: whenever they need to be handled, wear suitable anti-static clothing and footwear or, at least, make sure that you remove any residual charge in advance by touching a metal surface connected to the earthing system (for example, the body of an electrical household appliance) with your finger tips.
- For the 230V AC power supply it is essential to use a double-insulated cable (with a double sheath), as specified by the electrical safety standards.
- Use a wire terminal for connection to the 230V AC - 50Hz network.
- Protect the equipment with an easily accessible two-pole switch for cutting off the primary power source. The distance between the contacts of this cut-off device must be at least 3mm.
- Solder the joints between the wires in order to avoid false alarms caused by rusting of the wires.
- Always remove the supply voltage before carrying out any operation on the equipment.
- The electrical system must be conform to the regulations in force in the country of installation.
- Use only shielded cables for connecting the devices to the control panel.
- Only qualified personnel may replace the backup battery. Disposal must be carried out in accordance with the regulations in force. Use only sealed lead batteries.

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GENERAL SYSTEM FEATURES

The C4UC0201/0401/0801 burglar alarm control panels meet the requirements of the following standards: **CEI 79/2, CEI EN 50081-1 & EN 50130-4 and CEI EN 60950.**

The control panel is equipped with 2 - 4 - 8 input zones (depending on the model) to which the magnetic contacts, movement sensors or other types of intrusion sensors must be connected. The inputs can be configured to work with single or double balancing or with NO or NC contact.

An additional zone, the 24H zone, is always active and must be used in order to prevent tampering with sirens, diallers, sensors and the control panel itself.

This means that, even with the system disarmed, if the 24H zone detects an opening, the system will automatically go into alarm due to tamper.

The H24 zone is disabled when the control panel is put into maintenance status.

The control panel has 2 Alarm Outputs, one "Control Panel Status" output, set up for connection of an **optional** board for adding 4 outputs programmable as alarms:

Intrusion, Tamper, Help, Assault, Technological, Network Fault, Battery Fault, Generic Fault, System Partially Armed, System Not Ready for Arming, System Disarmed.

The control panel can be completely configured and managed using the control keypad, the display and the contact key inserter (with the corresponding key) located on the panel. It is, however, possible to connect remote key inserters and keypads at appropriate points throughout the premises for ease of use. (The remote keypads or inserters are not supplied as standard with the control panel and can be purchased at any time).

The 8-zone version of the Control Panel (C4UC0801) allows the Zones to be grouped into Areas (at most 4) corresponding to the various system arming needs.

It is possible, for example, to associate the zones to which the perimeter sensors are connected to one area and the volumetric sensors to another area.

The control panel can manage a maximum of 10 keys.

Whenever an optional keypad is used, users can use either a secret code for the keypad or an appropriately programmed electronic key.



C4UC0201 Control Panel
It has 2 Zones or Inputs that are shown in the lower part of the display.



C4UC0401 Control Panel
It has 4 Zones or Inputs that are shown in the lower part of the display.

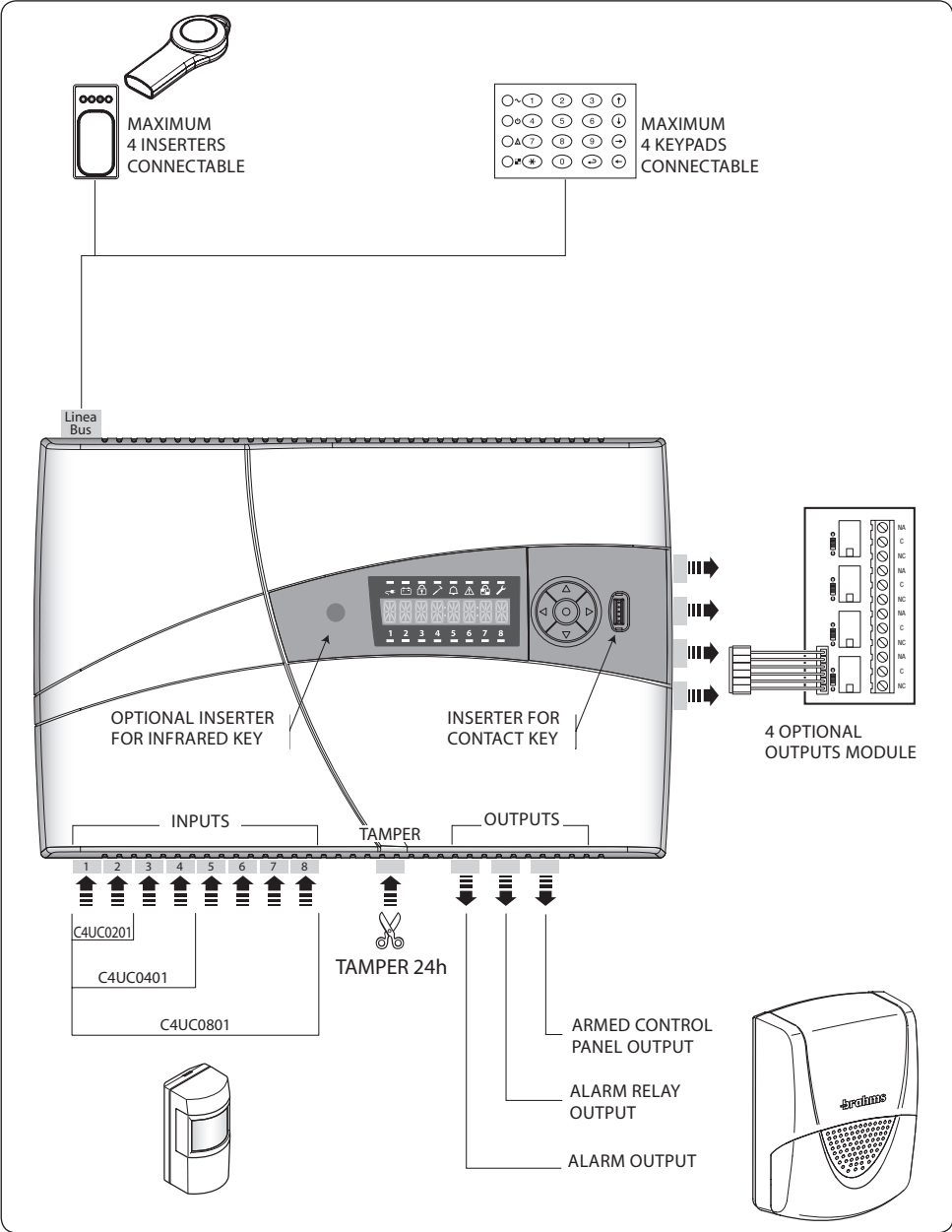


C4UC0801 Control Panel
It has 8 Zones or Inputs that are shown in the lower part of the display and can be grouped into Areas (maximum 4).

 Note:

In this manual the display of the C4UC0801 Control Panel has been used in order to explain the programmable features; where appropriate, the functions that can be performed from the different versions will be pointed out.

GENERAL DIAGRAM



ASSEMBLY INSTRUCTIONS

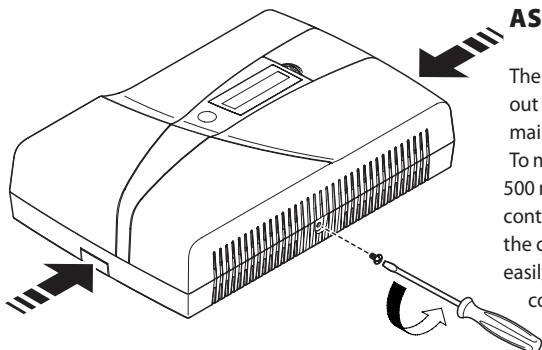


fig. 1

The assembly of the control panel must be carried out in a zone that is easily accessible at least during maintenance operations.

To meet this requirement, a free zone of approximately 500 mm must be left around the entire perimeter of the container so as to allow easy mounting and removal of the cover, to allow maintenance technicians to operate easily and to facilitate network cables and those for connecting the other devices to be passed.

Position the control panel in a clean and dry location that is not subject to vibrations or impacts of any kind.

The installation of the Control Panel must be carried out as described below:

- open the cover by unscrewing the screw positioned on the bottom of the Control Panel (fig. 1).
- detach the cover from the container exerting slight pressure on the side "tongues" as shown in the figure (fig. 1).
- lift the Control Panel cover upwards (fig. 2).

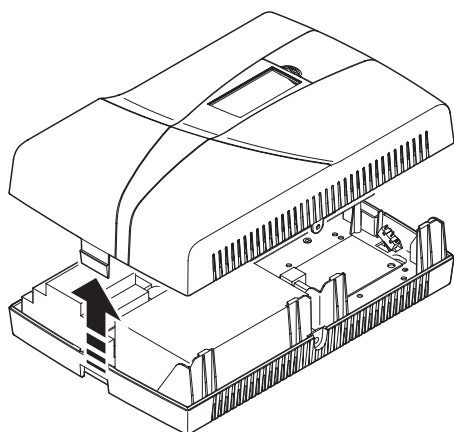


fig. 2

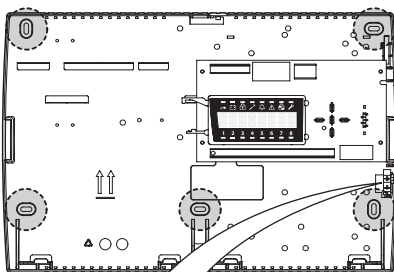


fig. 3

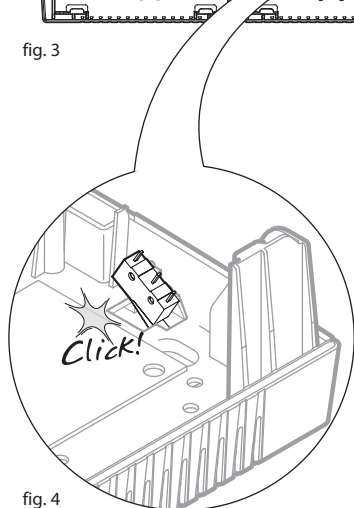


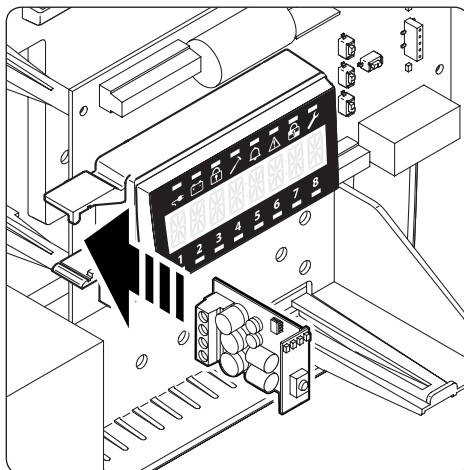
fig. 4

- using the bottom of the Control panel as a template, mark the position of holes for fixing shown in figure 3, making sure that the wall is flat at the selected position;
- drill the wall that will hold the container and insert the screw anchors necessary in order to secure the container;
- secure the bottom of the container solidly to the wall making sure that the tamper-proof switch (shown in fig. 4) trips correctly.
- In order to pass the cables through you can use the holes for this purpose on the bottom of the container or (using a hacksaw) open up the preformed slit in the upper part of the container.
- Position the battery in its holder and to proceed with the wiring.

ASSEMBLY OF THE OPTIONAL IR INSERTER BXINIR01

The control panel is designed to contain an optional inserter for an infrared key that is to be positioned as shown in the figure below.

The connection of the terminals is the same as for any other device on the BUS (see page 15).



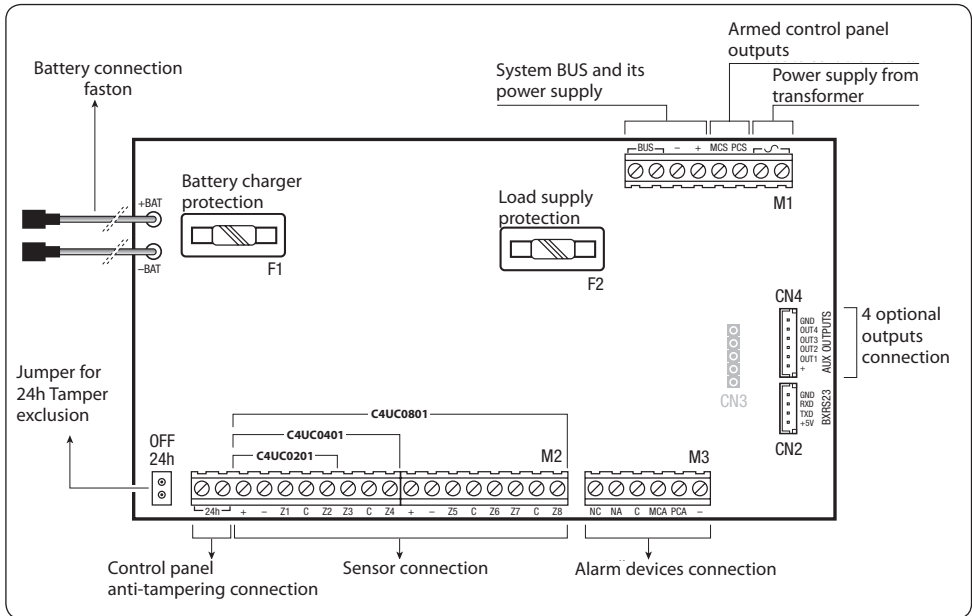
GENERAL TECHNICAL FEATURES

	CONTROL PANEL TYPE		
	C4UC0201	C4UC0401	C4UC0801
Power supply:	230V AC $\pm$ 10% 50Hz		
Maximum absorption:	120mA	140mA	150mA
Control panel internal power supply	1.0A 14V DC $\pm$ 2%		
Battery recharge current (max):	400 mA		
Load supply current (max):	0.85 A		
Primary transformer protection:	PTC		
Battery charger protection:	Fuse F1: (T1A, 250 V)		
Alarm device output protection:	300mA Resettable fuse		
Control Panel status signal output protection:	100mA Resettable fuse		
Load supply protection:	Fuse F2: (T1A, 250 V)		
Operating temperature:	5 $\div$ 40 °C		
Batteries installable (max):	sealed lead 12 V 7 Ah (model BB065)		
Dimensions (L x H x D mm):	350 x 230 x 85		
Weight without battery (kg):	2,5		
Container material:	ABS		
Protection Grade:	IP 30		
Safety	device with double insulation		
Safety Level CEI 79-2:	2°		

Input zones (NC, NO, double or single balancing.)	2	4	8
Anti-tampering zone (24h)	1		
Divisible zones	2	4	-
Divisible areas	-	-	4
Zones programmable as: "Immediate Intrusion Alarm", "Delayed Intrusion Alarm", "Gong Intrusion Alarm", "Tamper alarm", "Assault Alarm", "Help Alarm", "Technological Alarm", "Stable Key Input", "Impulse Key Input".	2	4	8
Generic alarm output:	switch contact of the alarm relay without voltage max 5A at 30V DC		
Alarm output for sirens:	output with voltage without alarm 13.8 V DC 300mA max		
Outputs for signalling control panel operational	output with voltage in operation 13.8 V DC 100mA max		
Programmable Open Collector Outputs *	4	4	4
Programmable Alarm Time	YES from 20 to 600 seconds		
Input Alarm Time	YES from 1 to 120 seconds		
Output Alarm Time	YES from 1 to 120 seconds		
Automatic Exclusion of an Open Zone	YES Programmable		
Automatic Exclusion of a Zone in Alarm	YES Programmable		

* In order to use the Optional Outputs the C4MO0401 module must be used

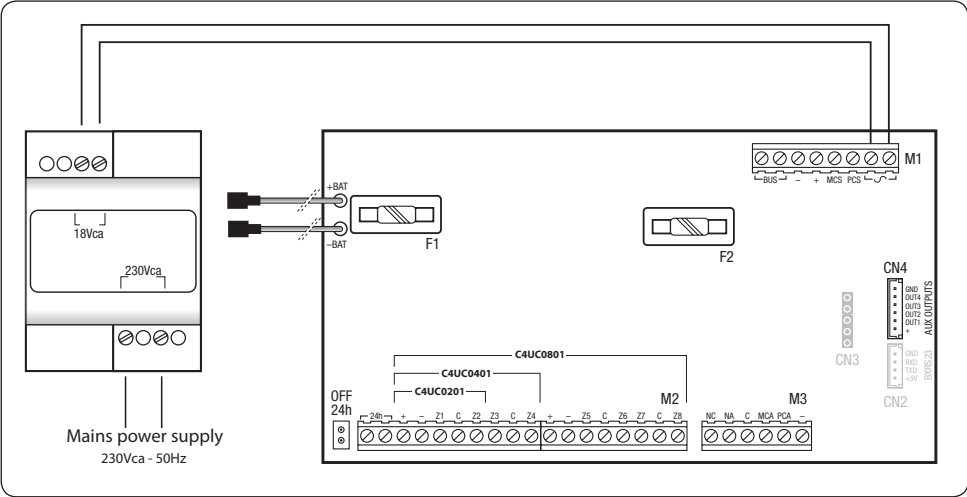
CONTROL PANEL TERMINAL BLOCKS



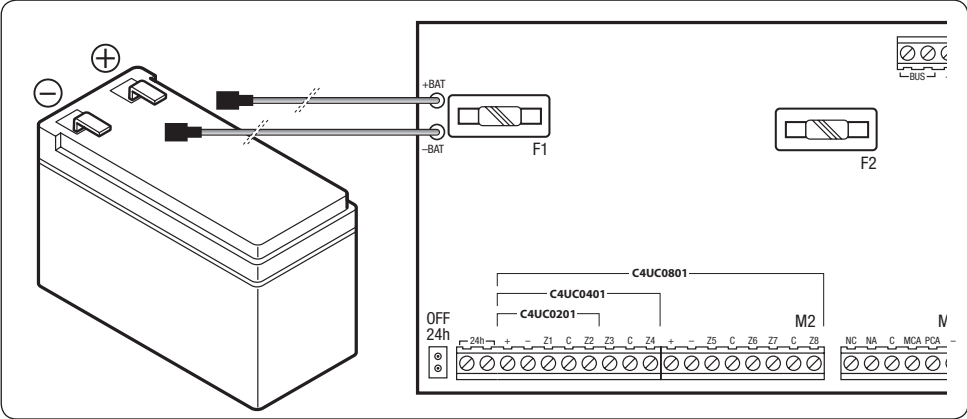
Terminals		Meaning
M1	-, +, BUS	Terminals for connecting inserters (maximum 4) and keypads (maximum 4) and related power supply.
	MCS	Terminal with a voltage of 14 V DC which disappears when the control panel is put into service; works in the opposite way to the PCS;
	PCS	Terminal with a voltage of 14 V DC when the control panel is in service; it is used for resetting sirens and sensors and for connection with radio bridges;
	~	Low voltage input from the transformer secondary
M2	24h	Connection of the anti-tampering zone always active even with the control panel disarmed
	+, -, Z1, C, Z2, Z3, C, Z4, +, -, Z5, C, Z6, Z7, C, Z8	Terminals for connection of the sensors and +, - terminals for their power supply
M3	NC, NO, C, -	This is a switch relay without voltage that switches in the case of alarm. The activation time is configurable (Alarm time).
	MCA	Terminal with a voltage of 14 V DC which disappears with the control panel in alarm; to be used for connecting self-powered sirens, radio bridges, telephone diallers etc.;
	PCA	Terminal with a voltage of 14 V DC when the control panel is in alarm; to be used for the connection of sirens that are not self-powered from the outside or inside;
CN2	BXS23	Connection to RS232 interface
CN4	AUX OUTPUTS	Connection for module with 4 optional C4MO0401 outputs
OFF 24h	TAMPER	Housing for the jumper for exclusion of the TAMPER 24h
F1	FUSE	Battery charger protection fuse
F2	FUSE	Load supply protection fuse

CONNECTION DIAGRAMS

CONNECTION TO THE ELECTRICITY SUPPLY NETWORK



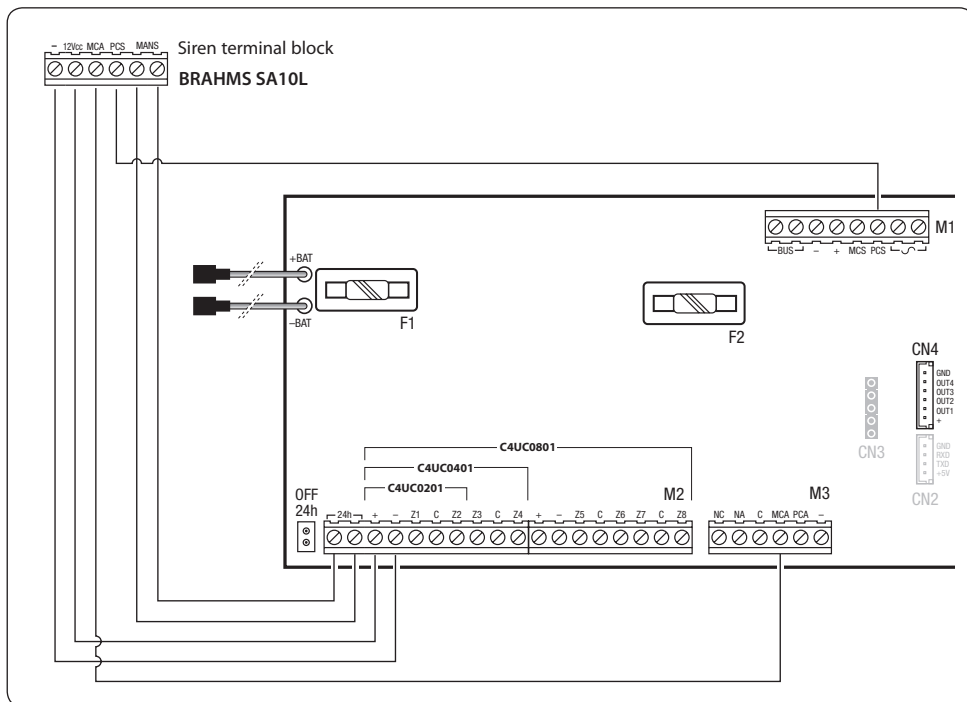
CONNECTION OF THE BATTERY BB065



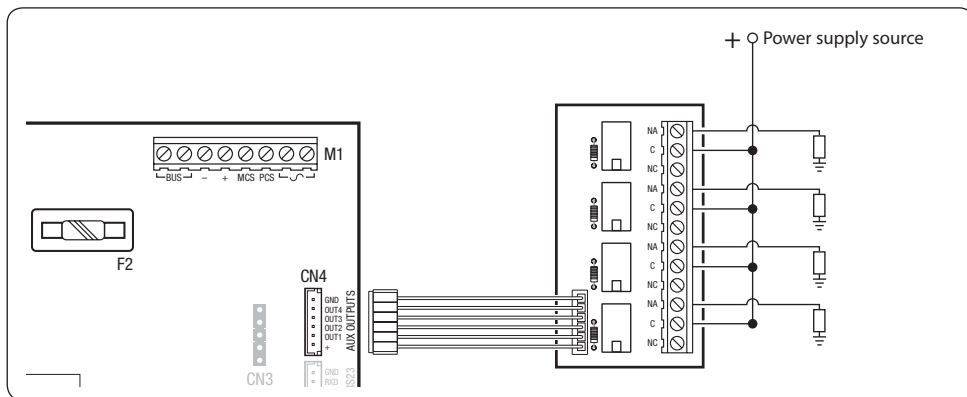
WARNING

- The BB065 battery, with a maximum external load of 200mA, can guarantee the system 24 hours' autonomy in the absence of power.
- Only qualified personnel may replace the batteries.
- Batteries must be disposed of in accordance with the regulations in force.
- Use only sealed lead batteries.

EXAMPLE OF CONNECTION OF A SIREN TO THE CONTROL PANEL



CONNECTION OF THE (OPTIONAL) BOARD C4MO0401

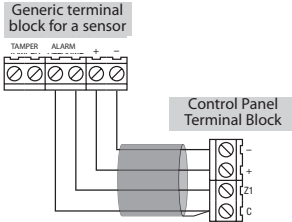


This image illustrates an example of a possible connection of the loads to the 4 relay outputs of the output module in NO mode; it is of course also possible to choose the NC connection mode.

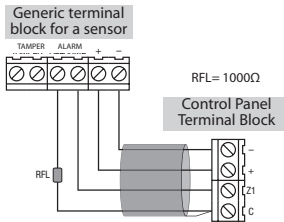
The capacity of the relay contacts is 1 A, 12 – 24 V DC.

CONNECTION OF A SINGLE SENSOR PER INPUT

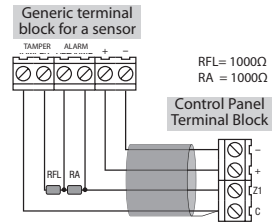
Connection for sensors with
Normally Closed or Open
contacts without balancing



Connection for sensors with
Normally Closed contacts with
single balancing

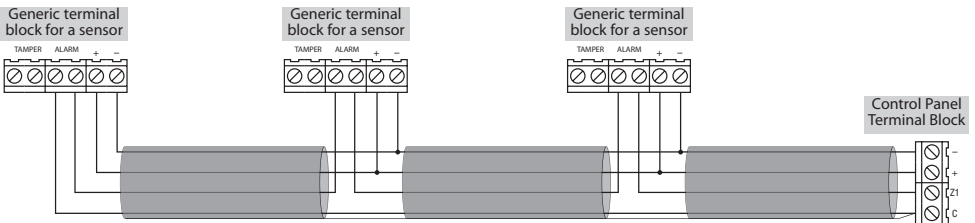


Connection for sensors with
Normally Closed contacts with
double balancing

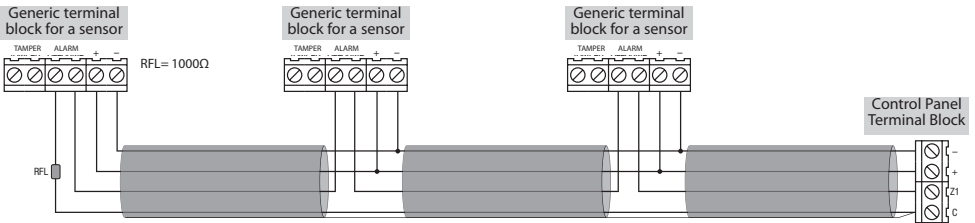


CONNECTION OF MULTIPLE SENSORS IN SERIES PER INPUT

Connection in series for sensors with Normally Closed or Open contacts without balancing



Connection in series for sensors with Normally Closed contacts with single balancing

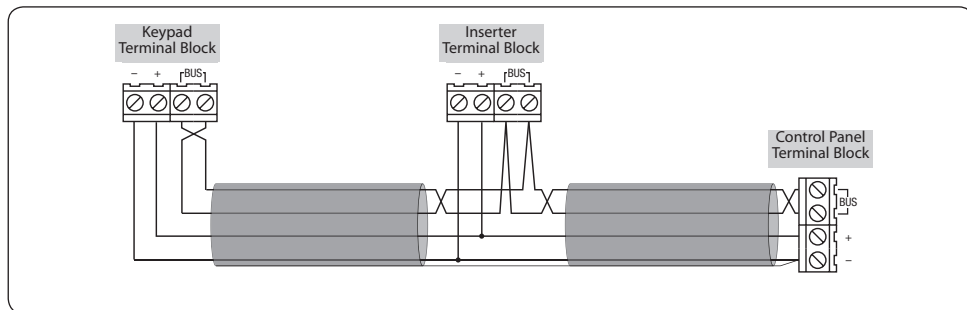


WARNING

- Connect the sensors to the terminals of the control panel only by means of a shielded cable, connecting the sleeves of the shields of the various conductor ends together; lastly, connect the sleeve of the shield only from the central side, connecting it to the negative terminal of the control board power supply.
- In case of connection with double balancing it is not possible to connect the sensors in series.
- The previously illustrated connection diagrams refer to a generic terminal block for the sensors: consult the instruction manual for each sensor in order to make the exact connections.

CONNECTION OF DEVICES TO THE SYSTEM BUS

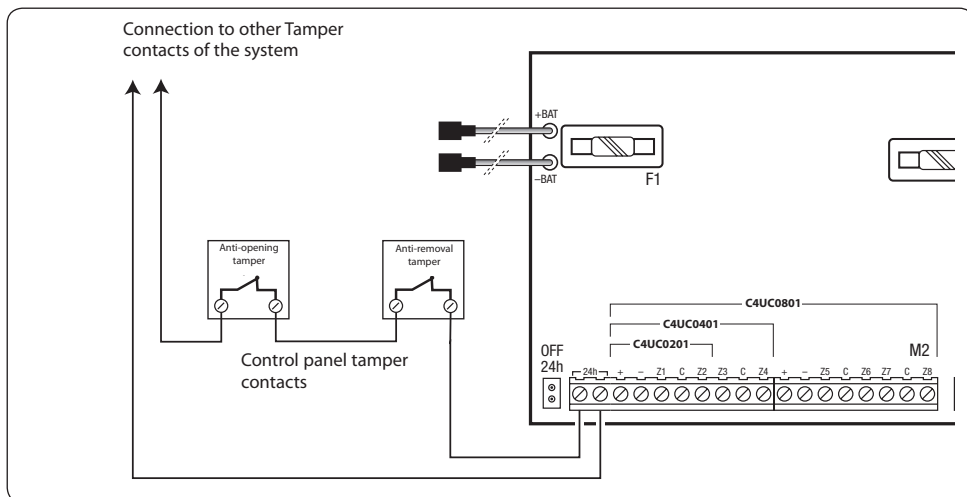
As an example, a connection diagram is included for keypads (maximum 4) or inserters (maximum 4) that can be connected on the system bus.



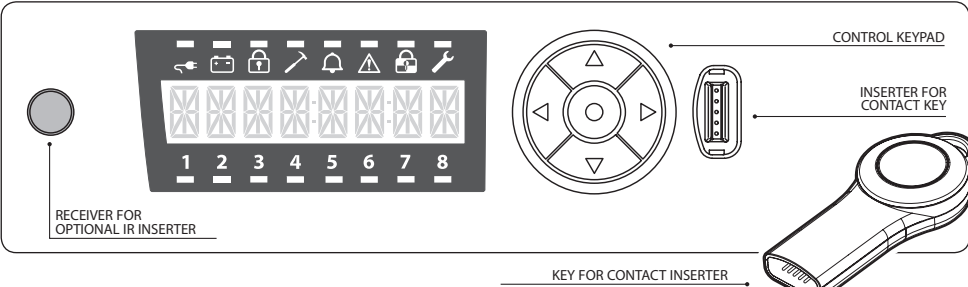
WARNING

- The devices located along the system bus must be connected strictly in parallel with each other (with an "in and out" connection).
- **Connect the serial communication line only with twisted cable (twisted pair).**
- The maximum overall wiring length is 100m.
- The cross-section of the power supply cables of the devices on the bus must be at least $2 \times 0,5 \text{ mm}^2$.
- It is **not recommended** to connect the bus with shunting; where the topology of the system does not allow a rectilinear connection between the various devices.

CONNECTION OF THE TAMPER CONTACTS TO THE CONTROL PANEL TERMINAL BLOCK

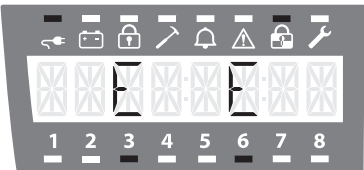


CONTROL PANEL



VISUAL SIGNALS ON THE CONTROL PANEL DISPLAY (UPPER PART)

Description	Symbol	LED colour	Status	Meaning	
				Control Panel ON	Control Panel OFF
Network presence		Green	Lit Flashing Off	230 V AC present ----- No network	
Battery status		Yellow	Lit Flashing Off	Battery run down (in the case of no network) ----- Battery charged (in the case of no network)	
ON/OFF		Green	Lit Flashing Off	system armed In / Out time -----	----- system disarmed
Tamper		Red	Lit Flashing Off	Tamper in progress Tamper alarm saved No tamper in progress	
Alarm		Red	Lit Flashing Off	Alarm in progress	System Not Ready
Fault		Yellow	Lit Flashing Off	Alarm Saved No alarm	
				Generic fault (fuse F2 / external bus) Fault saved No Fault	
Exclusion		Yellow	Lit Flashing Off	At least one zone excluded -----	-----
Maintenance		Yellow	Lit Flashing Off	-----	Maintenance -----



Excluded Zones Display

When the LED of the icon is lit, this indicates the division of the system, that is, the exclusion of some zones (see the example to the left).

LED lit + "E" on the display = Zone Excluded

LED off = Zone Included

VISUAL SIGNALS ON THE CONTROL PANEL DISPLAY (LOWER PART)

Description	Symbol	LED colour	Status	Meaning	
				Control Panel ON	Control Panel OFF
Exclusion Status of the zones		Red	Lit Flashing Off	Zone excluded ----- Zone Included	
Burglar Alarm		Red	Lit	Zone in alarm	Zone not ready
			Flashing Off	Alarm Saved Zone idle	
Tamper Alarm		Red	Lit	Zone in alarm	Zone not ready
			Flashing Off	Alarm Saved Zone idle	

INSTALLATION OF THE CONTROL PANEL



fig. 1

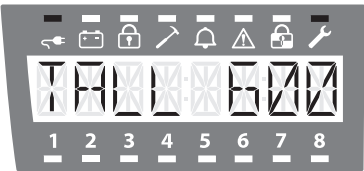


fig. 2

Procedure for accessing the programming phase (Technical Menu).

Connect the control panel to the electricity supply network; make sure that the "Network Presence" indicator is lit (fig. 1). Insert the supplied key (which must be the first recognised by the control panel) into the inserter, press the ●▲ buttons simultaneously; when the indicator above the 🔑 icon lights up and the first programmable parameters appear (fig. 2) this indicates that you have entered the "Technical Menu".

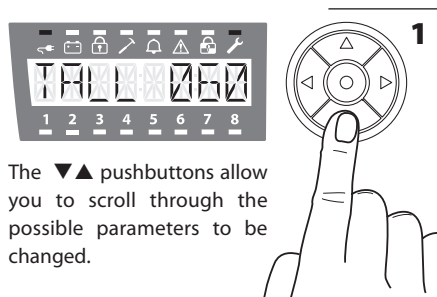
Notes:

- When the Control Panel is in the "Technical Menu", the extraction or the insertion of the key does not produce any effect.
- With the factory settings the "h24" anti-tampering zone is disabled by a jumper called "OFF h24" placed next to the "h24" terminal (see page 11), which allows all the setting up operations to be carried out and prevents accidental activation of the alarm relay.
- During Maintenance/Programming (that is, in "Technical Menu" mode) the alarm relay is in any case disabled.

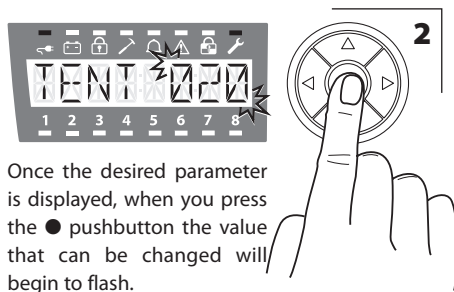
 WARNING

- If you have chosen to install the optional BXINIR01 inserter on the Control Panel and therefore to manage the Control Panel by means of the infrared key, it is important to always safeguard the contact key supplied, since is the only one that will allow access to the "Technical Menu".
- Before closing the control panel remove the "OFF 24H" jumper in order to re-enable the anti-tampering zone.

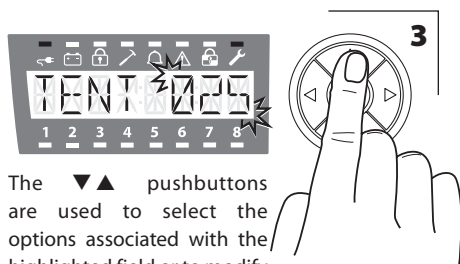
OPERATION OF THE DISPLAY IN THE TECHNICAL MENU



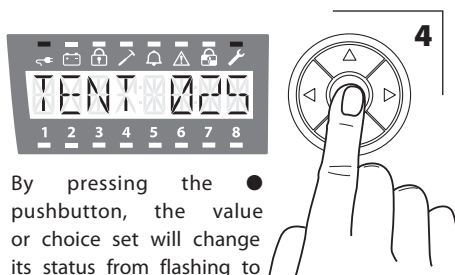
The ▼▲ pushbuttons allow you to scroll through the possible parameters to be changed.



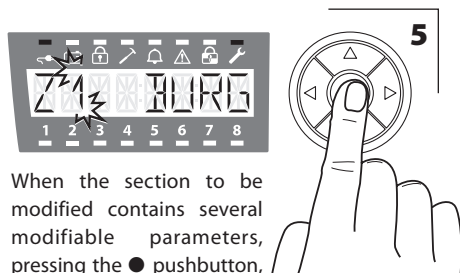
Once the desired parameter is displayed, when you press the ● pushbutton the value that can be changed will begin to flash.



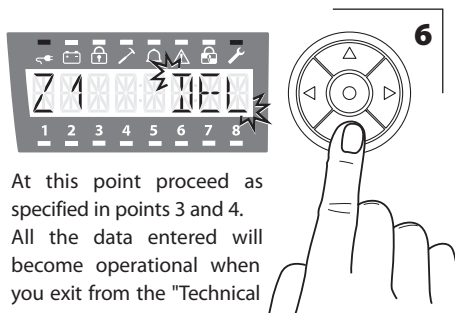
The ▼▲ pushbuttons are used to select the options associated with the highlighted field or to modify the values that it contains.



By pressing the ● pushbutton, the value or choice set will change its status from flashing to constant, confirming that the data has been saved.



When the section to be modified contains several modifiable parameters, pressing the ● pushbutton, in addition to confirming the data entered, also allows access to the modification of the next parameter.



At this point proceed as specified in points 3 and 4. All the data entered will become operational when you exit from the "Technical Menu".



WARNING

- Should it be necessary to abandon the data entry procedure in progress, just press the ◀ pushbutton to return to the previous window.
- If no pushbutton has been pressed before 1 minute elapses, the Control Panel will automatically exit from the "Technical Menu" and the data entered will not be saved.

FUNCTIONS PROGRAMMABLE IN THE TECHNICAL MENU

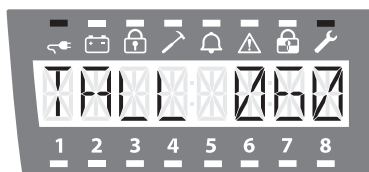


fig. 3

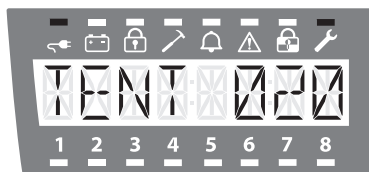


fig. 4

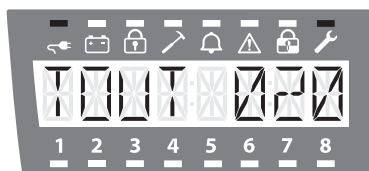


fig. 5



fig. 6

Alarm timing

Alarm time (fig. 3)

This is the duration (expressed in seconds) of siren activation in the case of intrusion/tamper alarms. It is also the activation duration for the outputs activated by "Alarm" events.

Entry time (fig. 4)

This is the time (expressed in seconds) that the control panel waits from the moment that the disarming procedure starts in order to consider any unbalanced (in alarm) zones defined as "Delayed Anti-Intrusion" or "Gong Anti-intrusion". It is the time that allows the user to enter the protected premises and deactivate the control panel. It is not taken into account for zones defined as "Immediate Anti-intrusion".

Exit time (fig. 5)

This is the time (expressed in seconds) that the control panel waits from the moment that the arming procedure starts in order to consider any unbalanced (in alarm) zones defined as "Delayed Anti-Intrusion" or "Gong Anti-intrusion". It is the time that allows the user to leave the protected premises after activating the control panel. It is not taken into account for zones defined as "Immediate Anti-intrusion".

Notes:

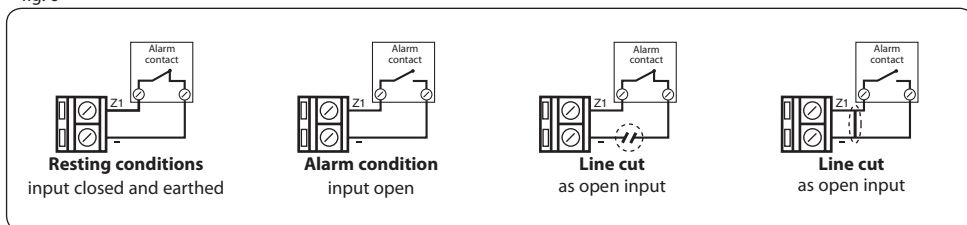
- During the "Entry Time" and "Exit Time" the buzzers of the keypad (optional) and the control panel will sound and the LED  will flash to signal imminent activation.

Balancing inputs

For all inputs (or zones) you must indicate the type of physical connection from the sensors to the terminals of the control panel.

The types of balancing can be:

Balancing - Normally Closed (fig. 6)



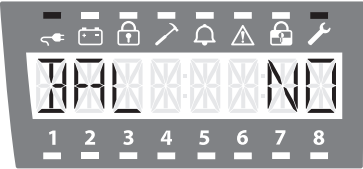


fig. 7

Balancing - Normally Open (fig. 7)

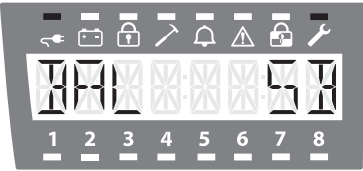
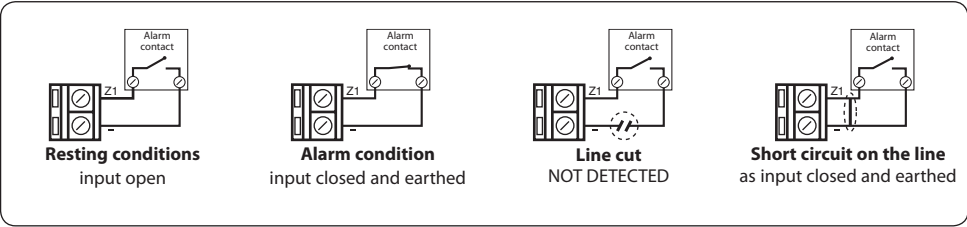


fig. 8

Single Balancing (fig. 8)

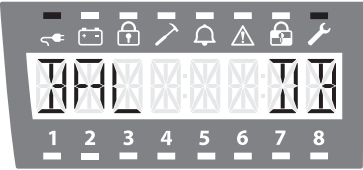
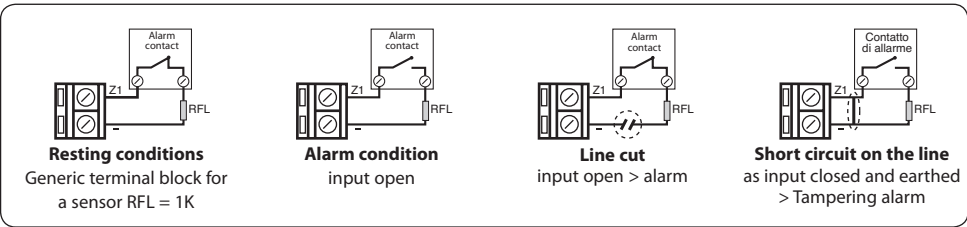
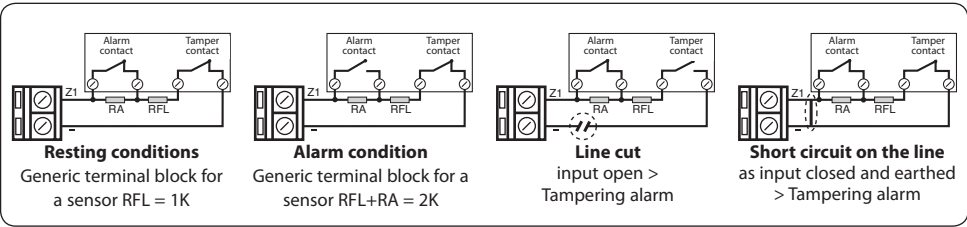


fig. 9

Double Balancing (fig. 9)



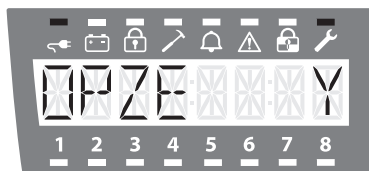


fig. 10

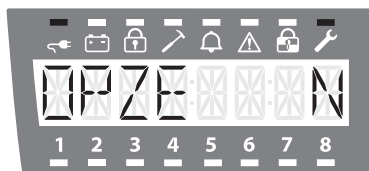


fig. 11

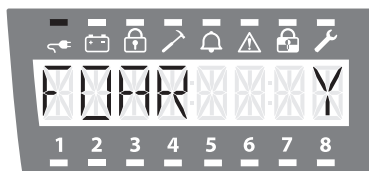


fig. 12

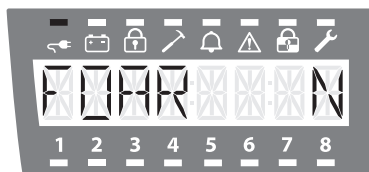


fig. 13

Programmable automatic exclusion of the zones open at the moment of activation.

This option lets you determine the behaviour of the control panel whenever, on partial or total arming of the system, one or more zones that should be armed (defined as "Immediate Anti-intrusion" or "Delayed Anti-intrusion" or "Gong Anti-intrusion") are already in alarm status.

If the pre-selected value is "YES" (fig. 10), such zones are automatically disabled by the control panel until the next time that the zone in question is switched off.

If the pre-selected value is "NO" (fig. 11), the behaviour of the control panel is determined by the pre-selected value for the parameter "Forced Arming".

Programmable Force Arming.

If the Automatic Exclusion of such zones has been deactivated (see above), this option determines the behaviour of the control panel whenever, on partial or total arming of the system, one or more zones that should be armed (defined as "Immediate Anti-intrusion" or "Delayed Anti-intrusion" or "Gong Anti-intrusion") are already in alarm status.

If the pre-selected value is "YES" (fig. 12), the user has the possibility to decide whether to proceed in any case with system arming: the zones in alarm status will be automatically excluded by the control panel until the next time that the system/area is switched off.

If the pre-selected value is "NO" (fig. 13), forced arming is not possible.

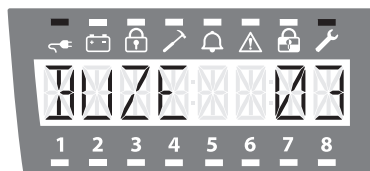


fig. 14



fig. 15

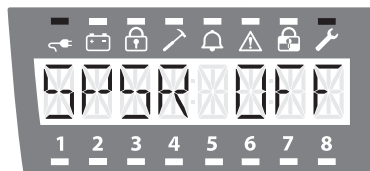


fig. 16

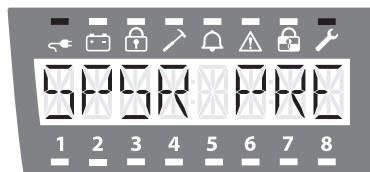


fig. 17

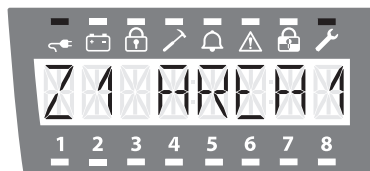


fig. 18

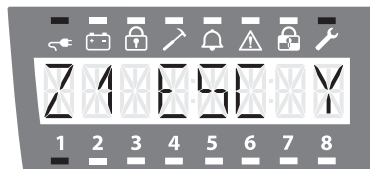


fig. 19

Automatic exclusion of all zones after a preset number of alarms.

This option lets you determine the behaviour of the control panel when the same zone (defined as "Immediate Anti-intrusion" or "Delayed Anti-intrusion" or "Gong Anti-intrusion") generates more than one alarm in a single arming/disarming cycle.

The numeric value inserted (fig. 14) establishes after how many alarms the zone should be excluded until the next time that the same zone is switched off, in order to avoid it generating further alarms.

In the case of the "Tamper" zone present on the board of the control panel or of a zone defined as "Anti-assault", "Help", "Tamper" or "Technological", alarms are counted even with the control panel disarmed; therefore in order to reset the number of alarms to zero you need to perform an alarm reset (page 7 of the "User Manual").

If the value of the parameter is set to 0, the zones will never be disabled.

Status of the control panel when the power supply returns after a total power outage.

This option lets you determine the behaviour of the control panel when the power supply returns after a total outage.

You can decide that the control panel will **arm all the zones** (fig. 15) or **will disarm them** (fig. 16) or that, on restart, the **previous arming state** will be restored (fig. 17).

Assigning an area to the zones (Function active only for the C4UC0801 model)

Each zone can be assigned to one of the 4 available division areas (fig. 18).

It is always possible to arm or disarm individual "areas" from the control panel or from optional inserters and keypads.

Permanent exclusion of a zone.

Each zone can be disabled in a permanent manner.

This function is particularly useful if a sensor suffers faults that provoke false alarms (fig. 19).

 **Note:**

The LED of the excluded Zone will remain permanently lit.

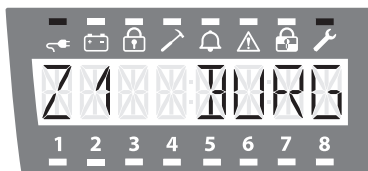


fig. 20

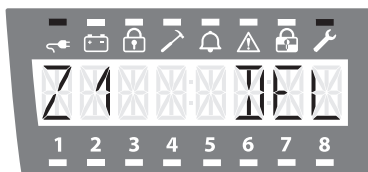


fig. 21

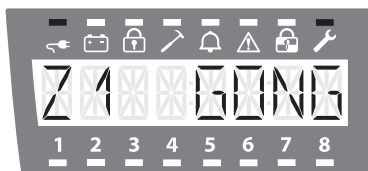


fig. 22

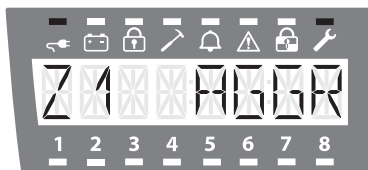


fig. 23

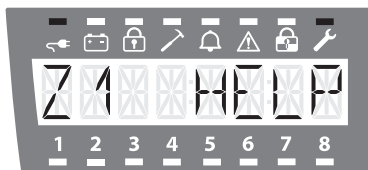


fig. 24

Type of zone.

Each zone can be defined as:

"Immediate Intrusion Alarm" (fig. 20)

A zone defined as such, if unbalanced with system/area armed, provokes the "Intrusion Alarm" event which automatically activates the acoustic alarm signals (continuous sounding of the central unit and the keypad buzzer), the visual alarm signals (of the central unit, additional keypads and inserters) and the activation of the alarm relay and any purposely programmed outputs.

"Delayed Intrusion Alarm" (fig. 21)

This behaves like an "Immediate Intrusion Alarm", with the difference that the control panel ignores any possible unbalancing, immediately after it is armed, for a time equal to the value assigned to the parameter "Exit Time" in seconds. In addition, once the "Exit Time" has elapsed, its unbalancing causes a time to start running, equal to the value assigned to the parameter "Entry Time" in seconds, within which the zone must be disarmed.

"Delayed Gong Intrusion Alarm" (fig. 22)

This behaves like a zone defined as "Delayed Intrusion Alarm". In addition, if unbalanced with the control panel disarmed, it causes the buzzer sound of the control panel and keypads to be emitted. (can be used as a warning for the opening of the doors of shops, offices etc.)

"Assault Alarm" (fig. 23)

A zone defined as such, if unbalanced in any system condition, **does NOT cause the activation of any visual or acoustic alarms** but can be used to activate one or more purposely programmed outputs in order to activate, for example, a telephone call via an external dialler.

"Help Alarm" (fig. 24)

A zone defined as such, if unbalanced in any system condition, provokes the "Help Alarm" event which automatically activates the acoustic alarm signals (continuous sounding of the central unit and additional keypad buzzers), the visual alarm signals (of the central unit, additional keypads and inserters) and the activation of any purposely programmed outputs.

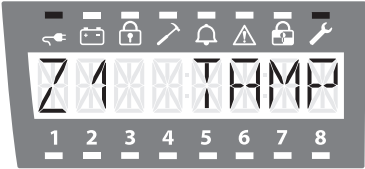


fig. 25

"Tamper alarm" (fig. 25)

A zone defined as such (also like the dedicated zone on the control panel board), if unbalanced in any system condition, provokes the "Tamper alarm" event which automatically activates the acoustic alarm signals (continuous sounding of the central unit and additional keypad buzzer), the visual alarm signals (of the central unit, additional keypads and inserters) and the activation of the alarm relay and any purposely programmed outputs.

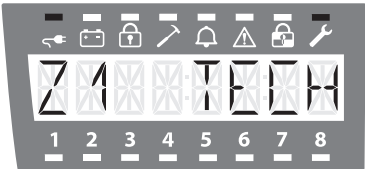


fig. 26

"Technological Alarm" (fig. 26)

A zone defined as such, if unbalanced in any system condition, provokes the "Technological Alarm" event which automatically activates the acoustic alarm signals (continuous sounding of the central unit and additional keypad buzzers), the visual alarm signals (of the central unit, additional keypads and inserters) and the activation of any purposely programmed outputs.

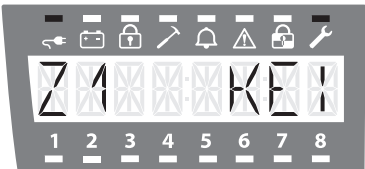


fig. 27

"Impulse Key" (fig. 27)

A zone defined as such is used to arm/disarm the entire system and is therefore not available as an anti-intrusion input. If unbalanced it causes alternated arming/disarming of the control panel. This mode is used for example for controlling the control panel with a gate-opening remote control/receiver. Contrary commands given by the control panels, keypads and inserters have priority over commands given from the "Key" zone.

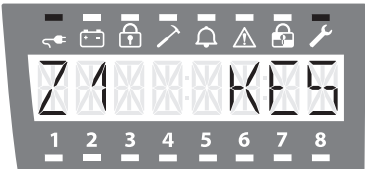


fig. 28

"Stable Key" (fig. 28)

A zone defined as such is used to arm/disarm the entire system and is therefore not available as an anti-intrusion input. If unbalanced it arms the system, and when it is balanced it disarms the system. Contrary commands given by the control panels, keypads and inserters have priority over commands given from the "Key" zone.

Events activating outputs.

Each output can be activated by one of the following events:

Programmable event	Event description	Active	Output associated by Default	Duration Activation
 1  BURG	Intrusion Alarm	with System Armed	OUT1	Time Alarm
 1  ASSGR	Assault Alarm	Always	-	Time Alarm
 1  HELP	Help Alarm	Always	-	Time Alarm
 1  TAMP	Tamper alarm	Always	OUT2	Time Alarm
 1  TECH	Technological Alarm	Always	-	Time Alarm
 1  FAUL	Fault (any fault)	Always	OUT3	Follows event duration
 1  NET	Network Fault	Always	-	Follows event duration
 1  BATT	Battery Fault	Always	-	Follows event duration
 1  DIS	System Disarmed	with System Disarmed	OUT4	Follows event duration
 1  NRE	System Not Ready for Arming	with System Disarmed	-	Follows event duration
 1  PAR	System Partially Armed	with System Armed	-	Follows event duration

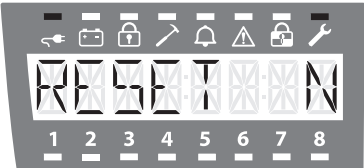


fig. 29

Resetting the Control Unit default programming.

- Default Programming Restoration Procedure - Disabled (fig. 29).

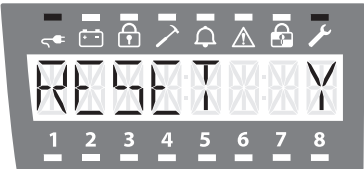


fig. 30

- Default Programming Restoration Procedure - Enabled (fig. 30).

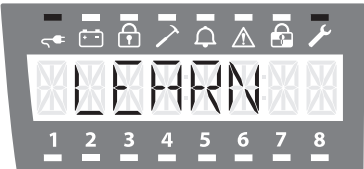


fig. 31

Detection of devices present on the BUS

When the item "LEARN" (fig. 31) appears on the display, if you press the ● pushbutton, the Control Panel will detect the devices present on the BUS.

When learning is completed, it will be possible to scroll through the list of detected devices using the ▼▲ pushbuttons (fig.s 32-33-34).

If it is necessary to repeat the learning procedure, you can return to the "LEARN" window by pressing the ● pushbutton or the ◀.

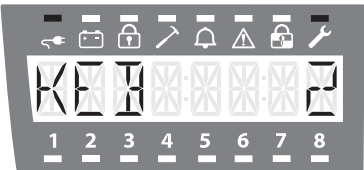


fig. 32

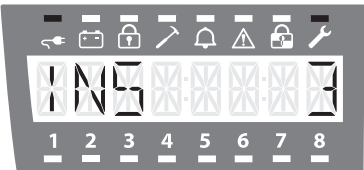


fig. 33

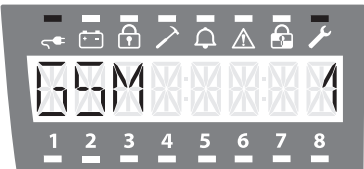


fig. 34

Procedure for exiting from the programming phase (Technical Menu).

When the menu item "ESC" (fig. 35) appears, press ● to abandon the "Technical Menu" and the display will go back to showing the previous status of the Control Panel.

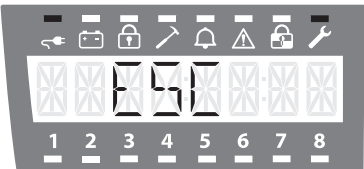


fig. 35

LIST OF PARAMETERS PROGRAMMABLE FROM THE "TECHNICAL MENU"

Description	Parameters		Editable values	Default	Step
	1	2			
Alarm time*	TALL		0 – 600 s	60 s	10 s
Entry time	TENT		1 – 120 s	20 s	5 s
Exit time	TOUT		1 – 120 s	20 s	5 s
Zone Balancing	BAL		NA : normally closed SB : single balancing DB : double balancing NO : normally open	NA	-
Auto. exclusion of open zones	OPZE		Y N	N	-
Forced Arming	FOAR		Y N	N	-
Auto. exclusion of zones in alarm status	BUZE		0 – 10 s	3	1
Control Panel Status Return of Power Supply	SPSR		ON OFF PRE	PRE	-
Zones: area	Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8	AREA	1 - 4 (The system can be divided into zones only with the C4UC0801 control panel)	1	1
Zones: type	Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8	TI	BURG : immediate intrusion DEL : delayed intrusion GONG : delayed "gong" intrusion AGGR : Anti-assault HELP : Help TAMP : Tamper TECH : Technological KEI : Impulse Key KES : Stable Key	BURG	-
Outputs: activating event	U1 U2 U3 U4		BURG : Intrusion Alarm AGGR : Anti-assault Alarm HELP : Help Alarm TAMP : Tamper TECH : Technological FAUL : Fault (cumulative) NET : Network Fault BATT : Battery Fault DIS : System Disarmed NRE : System "not ready" PAR : System Partially Armed	U1: BURG U2: TAMPU3: FAULU4: DIS	-

* To comply with the restrictions of standard CEI 79-2 the minimum duration of the "ALARM TIME" must not be less than 180 seconds.

The logo for brahms, featuring a stylized lowercase 'b' with a horizontal bar extending to the left, followed by the word 'rahms' in a bold, sans-serif font.

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