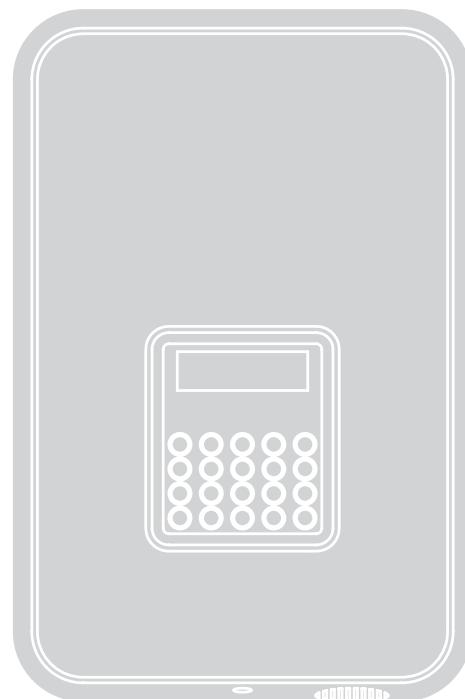


Nice

HSCU1

CE 0682
EN50131 Grade 1



Home security control unit

EN - Instructions and warnings for installation and use

Nice

EC DECLARATION OF CONFORMITY

Declaration in compliance with Directive 1999/5/EC

Note – The content of this declaration corresponds to that specified in the official document deposited at the Nice S.p.A. headquarters and, in particular, to the latest revised edition available prior to the publishing of this manual. The text herein has been re-edited for editorial purposes. A copy of the original declaration can be requested from Nice S.p.A. (prov. of Treviso – Italy)

Number: 305/HSC... **Revision:** 6 **Language:** EN

The undersigned, Mauro Sordini, in the role of Chief Executive Officer, declares under his sole responsibility, that the product:

Manufacturer's Name: NICE S.p.A.
Address: Via Pezza Alta 13, Z.I. Rustignè, 31046 - Oderzo (TV) Italy
Type of product: Supervised and tele serviceable standard control panels, powered with 230V mains power and battery power, with or without GSM module
Model: HSCU1GC, HSCU1C, HSCU1G, HSCU1
Accessories:

Complies with the essential requirements pursuant to Article 3 of the following European directive, relevant to the use for which the products are intended:

- DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity, in accordance with the following harmonised standards:
 - Health and safety (Art. 3(1)(a)): EN 62479:2010, EN50360:2001+A1:2012
 - Electrical safety (Art. 3(1)(a)): EN 60950-1:2006 + A11:2009 + A12:2011+ A1:2010+A2:2013
 - Electromagnetic compatibility (Art. 3(1)(b)): EN 301 489-1 V1.9.2:2011, EN 301 489-3 V1.6.1:2013, EN 301 489-7 V1.3.1:2005
 - Radio spectrum (Art. 3(2)): EN 300 220-2 V2.4.1:2012, EN 301 511 V9.0.2:2003

In accordance with Directive 1999/5/EC (appendix V), the product is class 1 and marked: **CE 0682**

Moreover, the product complies with the specifications of the following harmonised directives:
EN 50130-4:2011

Oderzo, 30 June 2014

Ing. Mauro Sordini
(Chief Executive Officer)



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1.1 - General warnings

- **This manual contains important information regarding the safety of the installation; before installing the components, it is important that you read all the information contained herein.** Keep this manual for future use. Further information is available at: "www.niceforyou.com".
- In case of doubt during the installation, do not make fruitless attempts, but contact NICE customer service.
- The product/s may not be used for any purpose other than that indicated in these instructions.
- Do not make modifications to any components unless such action is specified in this manual. Operations of this type are likely to lead to malfunctions. NICE disclaims any liability for damage resulting from modified products.
- Depending on the specific circumstances, further devices may be required, whether detectors or signalling equipment.
- When installing and using the product, make sure that foreign matter (solid or liquid) does not enter the devices when they are open.
- The packaging materials must be disposed of in compliance with the local regulations.
- **Manufacturer's responsibility:** Nice declines all liability for faults resulting from incorrect installation, maintenance and use. Furthermore, Nice is not liable for the incorrect or incomplete function of the product.
- **Warranty** (summary of terms):
Nice guarantees its products against concealed faults for a period of 3 years from the date of manufacture. The warranty applies to Nice's direct clients; no warranty is applicable to the end user, who must contact their installer/reseller in case of malfunction.
- **Exclusions:** the following are excluded from the warranty: aesthetic components, parts subject to normal wear and tear and consumables such as batteries and accumulators.

1.2 - Supplementary warnings for mains powered devices

- This manual has been especially written for use by qualified fitters.
- Considering the hazards that may exist during the installation and operation of the system, for reasons of safety installation must be carried out in strict compliance with current legislation, standards and regulations.
- Disconnect all power connections before accessing the product's internal terminals.
- If an automatic switch or a fuse is tripped, identify and eliminate the reason before resetting it.

1.3 - Installation warnings

- Check that all the materials are in good working order and suited to the intended applications.
- Check that the radio frequencies used by the product are locally approved for use in alarm systems.
- The individual articles are designed per the following 2 environmental classes
 - Class II environment: general indoors use; temperature -10 to 40°C, average humidity 75% without condensation

- Class III environment: protected outdoors use; temperature -25 to +50°C, average humidity 75% with peaks of 30 days a year of 85 to 95%; without condensation.
- Before installing the equipment, check the products' environmental class in the Technical Specifications chapter.
- Check that the wireless range of the devices (as given in the Technical Specifications chapter) is greater than the physical distance between the products.
- Make sure that the mounting positions of devices (sensors, control panels, etc.) are protected from impact and that the mounting surfaces are sufficiently sturdy.
- Do not locate the products close to strong sources of heat as this may damage them.
- Each sensor has its own principle of operation: check the suitability of their intended locations against the warnings given in the respective user manuals.

1.4 - Regulations EN50131

- When used with the EN50131 setting enabled, and in accordance with the limits and/or specific information provided for each application, the control units are compliant with the above standards. Any adjustments/programming must be done in observance of the established limits.

2.1 - GENERAL SPECIFICATIONS

Nice Home System systems are intended for alarm and domotics control and management, in which all devices and their functions are programmed within the context of an alarm system.

Some control panels may be connected by cabled to a variety of accessories, used to control the control panel, detect a variety of phenomena and generate warning and deterrent alarms, as well as domotics control boards.

2.2 - DIFFERENCES BETWEEN THE TWO MODELS OF CONTROL PANEL

Nice Home System control panels are powerful devices, suited for small to medium sized installations, from 1 to more than 90 detectors. Depending on the type and size of installation, there are four models to choose from. They differ in their power supply options and whether they have integrated GSM-GPRS modules. These differences are native, so that it is not possible to add the missing elements to a less fully featured model.

All control panels have integrated PSTN (landline) phone transmitters.

HSCU1GC: primary 230V mains power – integrated GSM/GPRS module

HSCU1C: primary 230V mains power – no GSM/GPRS module

HSCU1G: primary alkaline battery power, no 230V mains power – integrated GSM/GPRS module

HSCU1: primary alkaline battery power, no 230V mains power – no GSM/GPRS module

IMPORTANT: this manual covers the features of the most complete model, the HSCU1GC. Any functions described in this manual which require the GSM/

GPRS module will be lacking from models not equipped with the module in question. In the same way, any functions dependent on mains power will be lacking from the "free", battery powered models. This manual therefore covers the features of all models, but simply indicates which features are lacking from certain models due to the above-mentioned characteristics. Examples:

a) Models without the GSM/GPRS module do not require a SIM card, and do not send SMS's, and therefore do not require the messages in question to be programmed. They can only be called via the PSTN landline. b) Models without mains power, and hence battery powered, do not have wired inputs/outputs and cannot power the GSM/GPRS module (if present) continuously; this must be activated expressly on the control panel itself or by an alarm.

2.3 - SYSTEM IMPLEMENTATION - INSTALLER'S RESPONSIBILITIES

Every alarm system is composed of a variety of peripherals, detectors, sirens, control locations, keyboards and so on, all controlled by one of the control panels covered by this manual. It describes the control panels in full, along with their intended applications and operation. The installer has the basic responsibility of identifying the functionality required by the client, providing the necessary security solutions and installing the equipment with diligence and professionalism. To enable the user to control all the functions provided, this manual must be supplemented by the installer with remarks on the settings he has made.

In order to obtain an alarm system which is perfectly functional and suited to the task in question, the installation must be designed in advance, before proceeding with the operations described in this manual. In particular, one must determine the number, type and location of the sensors in relation to their various functions. We advise drawing a plane diagram of the building, specifying the name and position of each device to be installed. This diagram will be a great help during system configuration, for instance when one has to memorize the names of the various devices.

3.1 - Distributing the protected areas in the home

The control panel can be programmed to monitor the entire living area, or only parts thereof. It is therefore important to start by dividing the entire area into three action groups (group A - B - C), and assign each room or area to one of these 3 groups, logically and functionally.

For detached houses, the first approach is to divide the entire area into concentric circles (see **fig. 1**). In this system one assigns, as an example: the outdoors detectors = group A; the perimeter detectors (doors and windows) = group B; the indoors detectors = group C. This division enables one to use the siren vocal messages to dissuade persons from violating group A even before they have started to do so, or trip the siren alarm at the first attempt to break in through the doors and windows (group B), or call the police only when the indoors detectors (group C) are tripped.

Another approach is to divide the area into homogeneous blocks (see **fig. 2**). In this system one assigns, as an example, the ground floor areas to group A, first

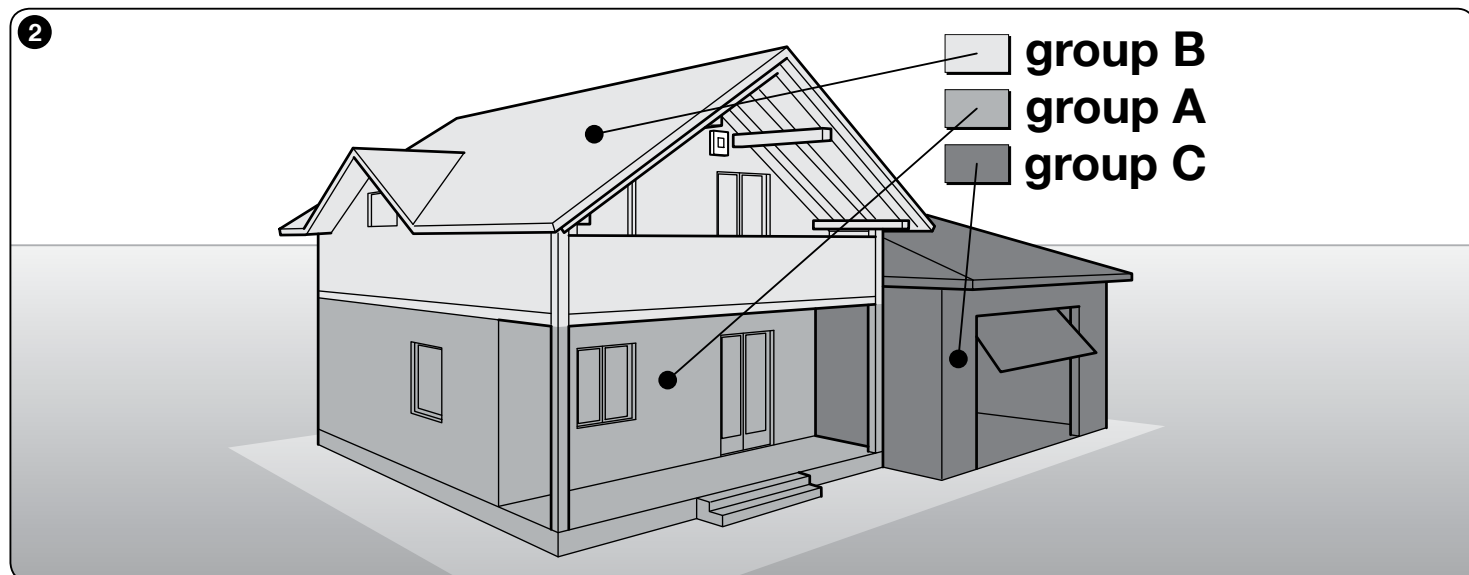
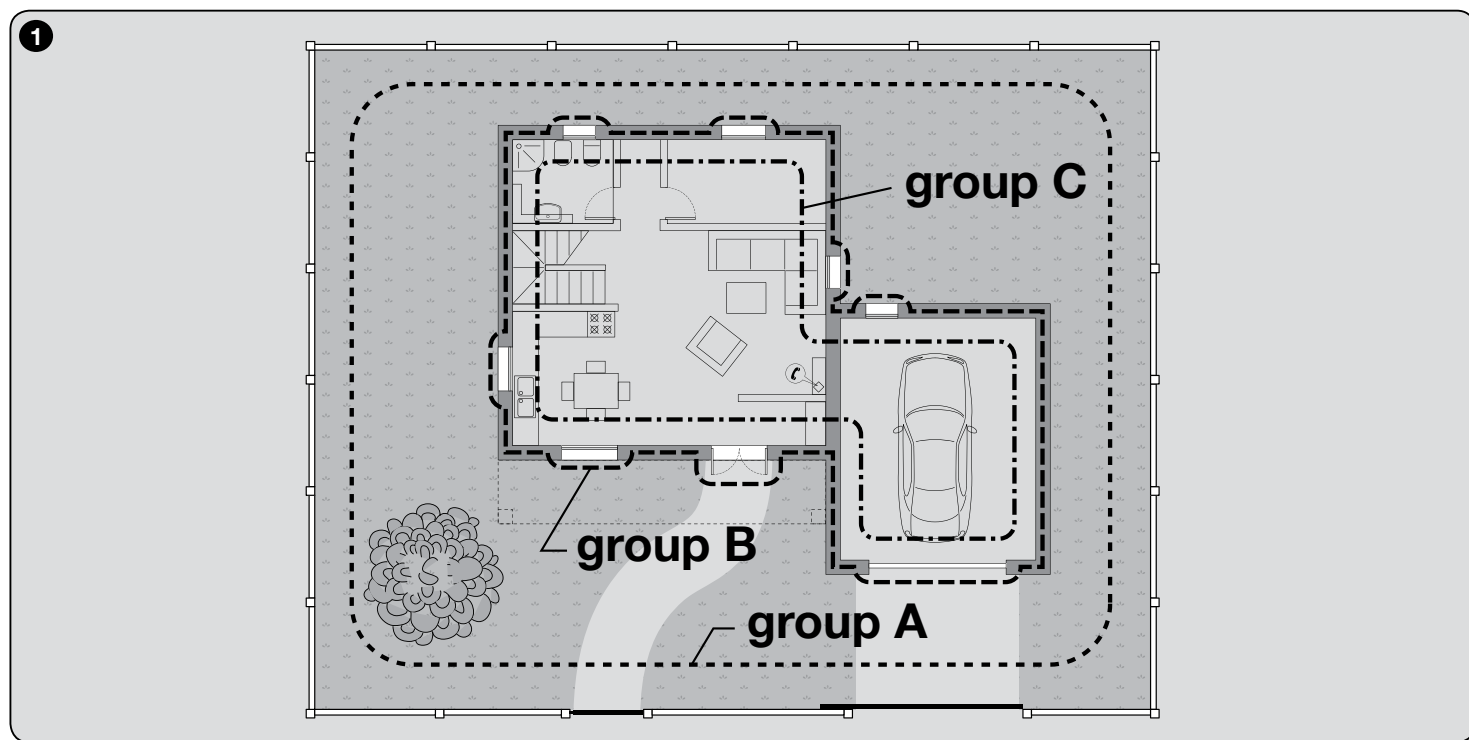
floor area to group B and the garages to group C. This division enables one, for instance, to activate the garage alarm (group C) while using the rest of the house normally.

3.2 - Positioning the alarm system components

To determine the locations of the system components, we recommend referring to **fig. 3** and checking the following conditions:

• Control panel

- Control panels transmit and receive lower power radio signals (within regulatory limits), and must therefore be located in such a way as to enable effective signal propagation. The following are therefore excluded: niches, metal cabinets, reinforced concrete columns and walls; furthermore, the control panel should not be installed in the vicinity of large metal surfaces or grilles, including any such features as are built into the walls.
- The control panel is best located at the centre of the other devices.
- The quality of the received signal can be seen on the control panel's display (see 9.5.1.3 "FIELD METER test") and if in doubt, we recommend running this test before mounting the unit to the wall. With radio devices, even moving them just a few tens of centimetres can significantly improve their transmission and reception.
- The control panels are equipped with a keyboard for programming them during installation and for daily use of certain functions, such as arming/disarming the alarm. If you wish to use these functions, you must place the control



- If you wish to use the landline connection, make sure that it is possible to hook the unit up.
- Mains powered control panels must be located so as to make the mains hookup possible.

If, for aesthetic reasons or to enable electrical hookup, the control panel must be located away from the main entrance, it is advisable to install a keyboard in the vicinity.

In isolated houses, we strongly recommend installing at least one outdoors siren. This should be located in good view (even the sight of it is an effective deterrent) but in such a way that it cannot be tampered with. Although the sirens are properly protected for outdoors installation, it is best to install them out of direct rainfall; the best location is under the gutter line or a terrace/balcony.

In small apartments or in densely inhabited areas, an outdoors siren may not

- **Sensors**

Choosing the right type of sensor and positioning them correctly is essential: the wrong type of sensor, or an incorrectly positioned sensor may fail to detect an intrusion or generate incorrect alarm signals. Each type of sensor operates differently, **Table 1** explains which sensors to choose.



TABLE 1

Door sensor: an intrusion detector designed for use on doors and windows which reports the opening of the door or window when its magnet is moved away from its body. The detector is generally installed to the fixed part of the door or window, opposite to the hinges, with the magnet attached to the mobile panel. The protection function may be augmented by connecting a second sensor with NC or pulse contact to its terminals (in the latter case, cord detector for roll-up shutters).

It has an NO input which can be used for connecting a flooding sensor, for instance.

Vertical shutter lens sensor: an intrusion detector designed for protecting doors and windows, with a shuttered lens which detects the movement of persons within a limited field of view in front of the lens itself (fig. 4).

It can be installed on the ceiling, at the top centre of a door or window (normally between the window itself and the shutters or blinds) and in areas under cover. The sensor has a second terminal for connecting a second sensor with NC or pulse contact (in the latter case, cord detector for roll-up shutters). This augments the protection and optimises the coverage of the area being protected.

Volumetric sensor: an intrusion detector designed to protect rooms; it reports the movement of persons in the protected area. It can be wall or corner mounted using a special bracket, with an optional jointed holder for tilting it down into the room if so desired (not provided).

It operates by detecting the movement of warm bodies; it should therefore not be used in areas subject to currents of warm or cold air, which can cause false alarms. If the sensor is active and the room is inhabited by warm-blooded animals, one must install it in a position and at an angle to keep its detection area 50-70 cm off the floor (fig. 5); it may also be necessary to reduce its sensitivity.

The sensor has a second terminal for connecting a second sensor with NC or pulse contact (in the latter case, cord detector for roll-up shutters). This augments the protection and optimises the coverage of the area being protected.

Volumetric sensors for large rooms: normal volumetric sensors are more than able to cover normally-sized living spaces. For very large rooms, sensors are available which can cover ranges up to 12 m with a 120° field of view. This type of sensor is equipped with a sensitivity adjustment, used to calibrate the size of the protected area.

Dual technology sensors: intrusion detectors for protecting rooms, using 2 different technologies (IR and microwave) to detect the movement of persons in the protected area. IR technology detects body heat, while microwave technology uses the Doppler effect to detect movement (including cold objects).

The combination of these two technologies gives the most effective coverage and also reduces false alarms.

Outdoors sensors: sensors are generally designed for use in protected indoors rooms. They operate correctly in a relatively restricted range of temperatures and are not completely protected against rainfall. Special sensors are available which are adapted for outdoors use with temperature ranges of as much as -25 to +50°C, which are also completely weatherproofed. All such sensors are equipped with sensitivity adjustments to set the size of the protected area and prevent false alarms caused by, among other things, normal moving objects (branches and leaves), small animals, insects, and so on.

Glass breakage sensors: a sensor that detects the breaking of glass panes (both normal and double-glazed). The detector is equipped with a microphone specifically calibrated to recognise the sound of breaking glass; be aware that it can thus be tripped by similar sounds - like a glass shattering when it is dropped. The sensor should therefore only be activated when there is no-one in the protected area capable of producing sounds which could trip the sensor.

False alarms can also be tripped by appliances which generate cyclic pressure variations in the room (air conditioners, fans, etc.).

Sound damping materials (such as curtains and carpeting) may reduce the sensitivity of the device.

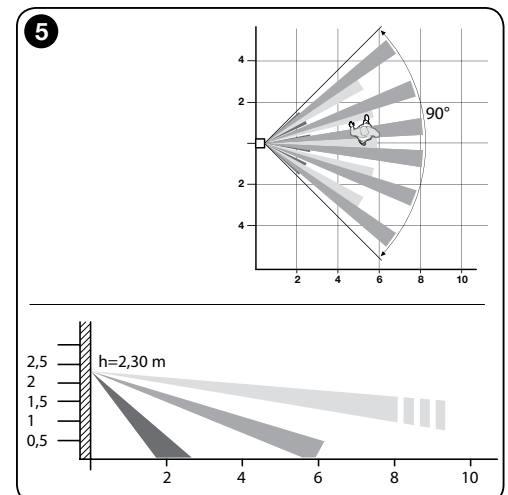
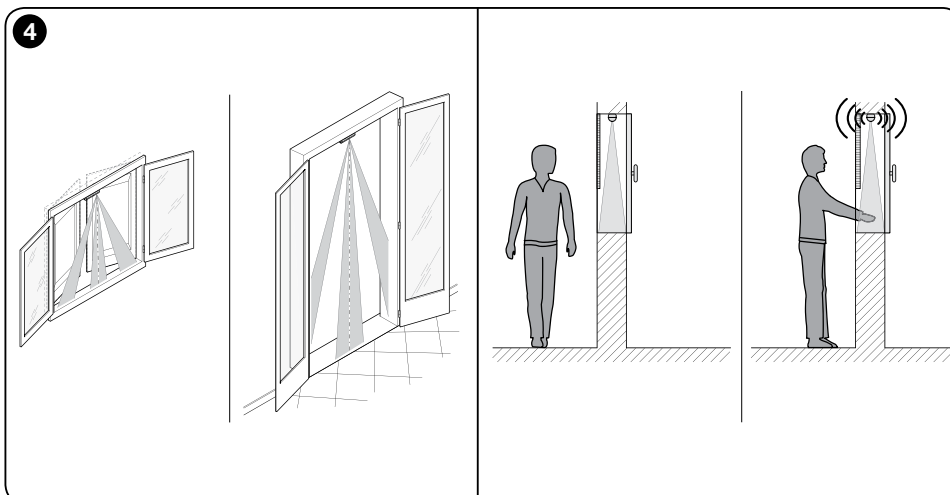
The device is factory calibrated and cannot be adjusted.

For best detection results, the device should be installed in a room of 20 to 30 m², 3 to 6 m away from the glass pane in question and at 2 m off the ground. It should not be installed in rooms smaller than 10 m², in very humid areas (such as bathrooms and kitchens) or in garages with large metal doors. Such situations are critical and may cause false alarms.

Fine particle (smoke) sensor: a detector for detecting fine particles generated by combustion (fog or smoke effect) for residential applications. It uses a photo-diode to detect the opacity of the air and reports the alarm both directly on site (with a buzzer) and wirelessly transmits it to the control panel. The sensor can detect the event over a maximum surface of 6 x 6 m; it must be positioned at the centre of the ceiling. Smaller, but not square rooms, such as corridors, must be equipped with more than one detector.

Flooding sensor: a sensor that detects flooding caused by leaks. It must be wall-mounted, at floor level (the internal sensor is around 1 mm off the ground) and placed in an area where a water leak is likely to occur, such as next to a sink or washing machine.

If the floor is not flat, the sensor should be put at its lowest point. The sensor connects to the NO input of a compatible detector (e.g. HSDID11).



3.3 - Elements of the Nice Home Security alarm system

Control panel

The control panel controls the system itself; it receives information from the detectors, keyboards and transmitters, and trips the siren or sends messages over the landline or cellular network as appropriate. It has an integral siren which sounds when an intrusion is detected. The integrated keyboard is used for configuration and can also be used as an internal control device. The control panel is equipped with phone diallers which connect the protected area to the outside world, even over large distances. If an alarm is tripped, it automatically sends a message to the phone numbers programmed into it: owner, police, etc. The GSM version can also send SMS's. The reverse function can also be enabled: this allows you to send commands to the control panel with a telephone call.



EN50131
Grade 1

HSCU1GC
HSCU1C
HSCU1G
HSCU1

The following models are available:

HSCU1GC	Control panel for hybrid wired/wireless alarm systems, 230 V AC mains powered. Equipped with PSTN and GSM phone dialler
HSCU1C	Control panel for hybrid wired/wireless alarm systems, 230V AC mains powered. Equipped with PSTN phone dialler
HSCU1G	Control panel for wireless alarm systems, battery powered. Equipped with PSTN and GSM phone dialler
HSCU1	Control panel for wireless alarm systems, battery powered. Equipped with PSTN phone dialler

Detectors

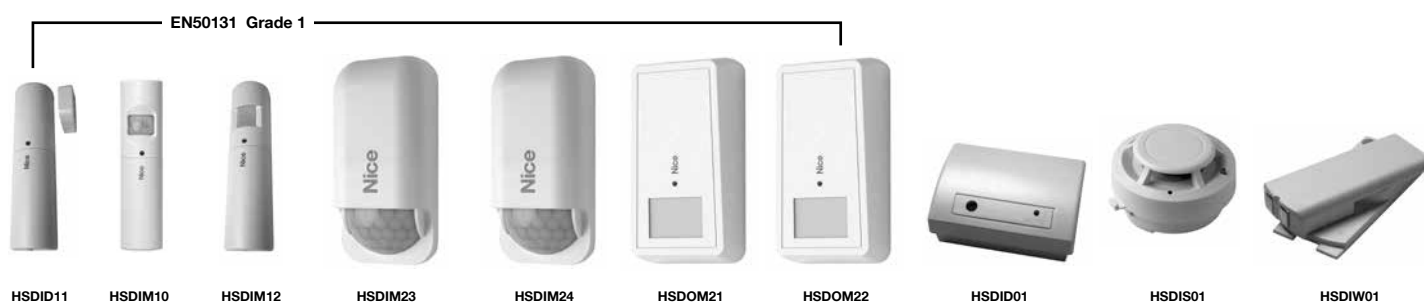
Detectors control property and the rooms in which the property is located, and transmit their status to the control panel. To operate effectively, they must be located at the strategic points of rooms, doors, windows, shutters, porticoes and so on. Detectors can be divided into:

- perimeter detectors for the opening of doors, windows and shutters
- perimeter detectors, using vertical shutter detectors
- volumetric detectors, for detecting the presence of intruders within their area of coverage
- dual technology detectors, combined IR and microwave units.
- outdoors detectors, for protecting outdoors areas, porticoes, verandas, gardens and so on.
- special detectors, for detecting flooding, smoke, breaking glass, etc..

Up to 99 detectors can be connected to the control unit wirelessly, or double the number if installed in pairs with the AND function. Wired connection control panels have 6 inputs for wired detectors, which can be assigned freely to groups A, B and C.

The following models are available:

HSDID11	Magnetic contact detector; one NO and one NC input (including pulse count); single or differentiated alarm. Break-in sensor
HSDIM10	IR detector with volumetric lens with input for second contact (NC or pulse count); single or differentiated alarm. Break-in sensor
HSDIM12	IR detector with shutter lens with input for second contact (NC or pulse count); single or differentiated alarm. Break-in sensor
HSDIM23	IR detector with volumetric lens for indoors use, coverage up to 12m with 120° field of view. With sensitivity adjustment, alarm trips immediately or on second pulse, tamperproof (opening and removal).
HSDIM24	Dual technology volumetric detector (IR and microwave radar), for indoors use, coverage up to 12m with 90° field of view. With sensitivity adjustment, alarm trips immediately or on second pulse, tamperproof (opening and removal) and anti-blinding function.
HSDOM21	Dual technology volumetric detector (IR and microwave radar), for outdoors use, coverage up to 12m with 90° field of view. With sensitivity adjustment, alarm trips immediately or on second pulse, tamperproof (opening and removal) and anti-blinding function.
HSDID01	Volumetric glass breakage detector
HSDIS01	Combustion smoke detector (volatile fine particles)
HSDIW01	Flooding detector



Transmitters

These are the simplest and most practical solution for arming or disarming the alarm system, whether from inside or outside the protected area; allows the user to arm the entire system or part thereof, as well as sending emergency signals.

The following models are available:

HSTX4	Two way 4 channel alarm system transmitter
HSTX8	Two way 8 channel transmitter, 4 channels for alarm systems and 4 channels for automation control signals



HSTX4



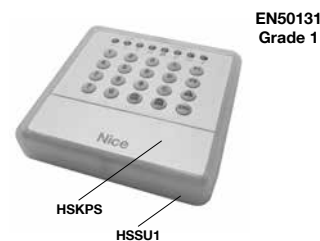
HSTX8

Keyboard

The keyboard can be used to control both the entire system and a limited area of it. It communicates with the control panel and displays certain messages, such as: system status, alarms, faults, entrances open, etc.

The following models are available:

HSKPS	Two-way, dual band radio keyboard, for controlling alarm and automation system control panels
HSSU1	Table mount for HSKPS keyboard



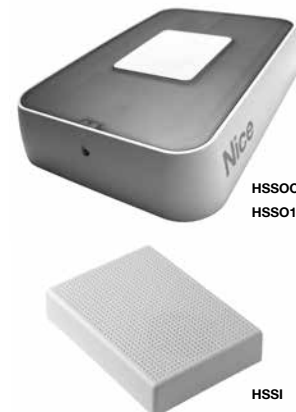
Dissuaders

Sirens, with and without flashers, are the principal forms of dissuasion in the alarm system. The siren frightens and dissuades the intruder, while the flasher (if present) shows where the alarm was tripped.

The following models are available:

HSSI	Wireless indoors siren. Sound power 114 dB.
HSSOC	Outdoors siren, wired to the control panel. Sound power 116 dB, with integrated flasher
HSSO1	Wireless outdoors siren, two-way and dual band. Sound power 116 dB, with integrated flasher and voice card

EN50131 Grade 1



Actuators

The Nice Home Security alarm system is not only a home alarm system, but can also interact with domotics appliances. A series of special actuators will operate other devices like lights, open gates, shutters, and so on.

The following models are available:

HSTT2L	Miniaturised single channel radio receiver for controlling electrical equipment (lights, motors, solenoid valves, etc); compatible with HS alarm systems
HSTT2N	Miniaturised two channel radio receiver, specifically for controlling two-way electric motors (open/close) for shutters and roller blinds; compatible with HS alarm systems



Repeater

Verifies and repeats radio signals with the HS protocol. Has an auxiliary alarm signal input and mains outage warning function.

Models:

HSRT	Signal repeater
-------------	-----------------



Phone modem

A USB modem for connecting PC's to the PSTN landline. With the packaged software, it enables remote control of alarm control panels connected to the PSTN phone system.

The following models are available:

HSMO	Phone modem for remote connection to the control panels equipped with PSTN phone diallers
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4.1 - Setting up the system components for configuration

Since the system components communicate wirelessly, it is best to configure the system **first** on the bench and only then locate and install the devices.

For control panels which also have electrical connections, proceed as follows:

- 1) configure the wireless devices on the bench;
- 2) mount all devices;
- 3) make the electrical hookup.

To avoid errors, malfunctions and reception failures, proceed as follows:

This procedure checks the radio coverage of the devices before their installation.

- a) Place all products **on the bench** with their packaging open;
- b) Fit the "voice guide" memory card into the control panel and, for GSM versions, the SIM card as well (see installation paragraph).

Warning: The SIM card's PIN must be cancelled, along with any messages, contacts and other resident or saved information.

Caution: 3G SIM cards are not compatible.

- c) Power up the control panel and program it in device acquisition mode;
 - d) Insert the batteries into the devices so that the control panel can acquire them one by one;
 - e) Test the operation of the various devices;
 - f) Place the control panel in its intended location (do not mount it there yet);
 - g) Place the other devices in their intended positions (again, without mounting them yet);
 - h) Check that every device has sufficiently wireless reception to operate (see "Testing the control panel");
- In GSM models, check that there is sufficient reception:
- i) Now install all devices in place;
 - j) If necessary, configure the advanced and detailed functions on the control panel.

The following paragraphs describe the installation of the control panel (all models) and the electrical hookup of wired versions.

4.2 - Preliminary checks before installation and limitations on use

Before proceeding with installation, check the condition of the product, suitability of the selected model and conditions of the intended installation environment.

- Check that all conditions fall within the "limits of use" and "technical characteristics".
- Check that the installation location is compatible with the overall clearance of the product.
- Check that the mounting surface is solid, so that the device is mounted securely and is protected against impact.
- Install the control panel at least 1 m off the ground.
- the product may only be used with Nice Home Security system devices.

4.3 - Description of the control panel

All control panel models have a **system memory card with voice guide** ("I" fig. 6A - 6B). The guide speaks the language of this manual; other language versions are available.

The memory card is enclosed with this manual and must be inserted into the control unit before starting the installation, and with it powered off (see par. 4.4.1).

During programming, the card stores the system parameters (excluding vocal messages recorded by the installer or user) and can be transferred from one control panel to another.

Some models of control panel (HSCU1GC and HSCU1G) are equipped with a GSM phone dialler.

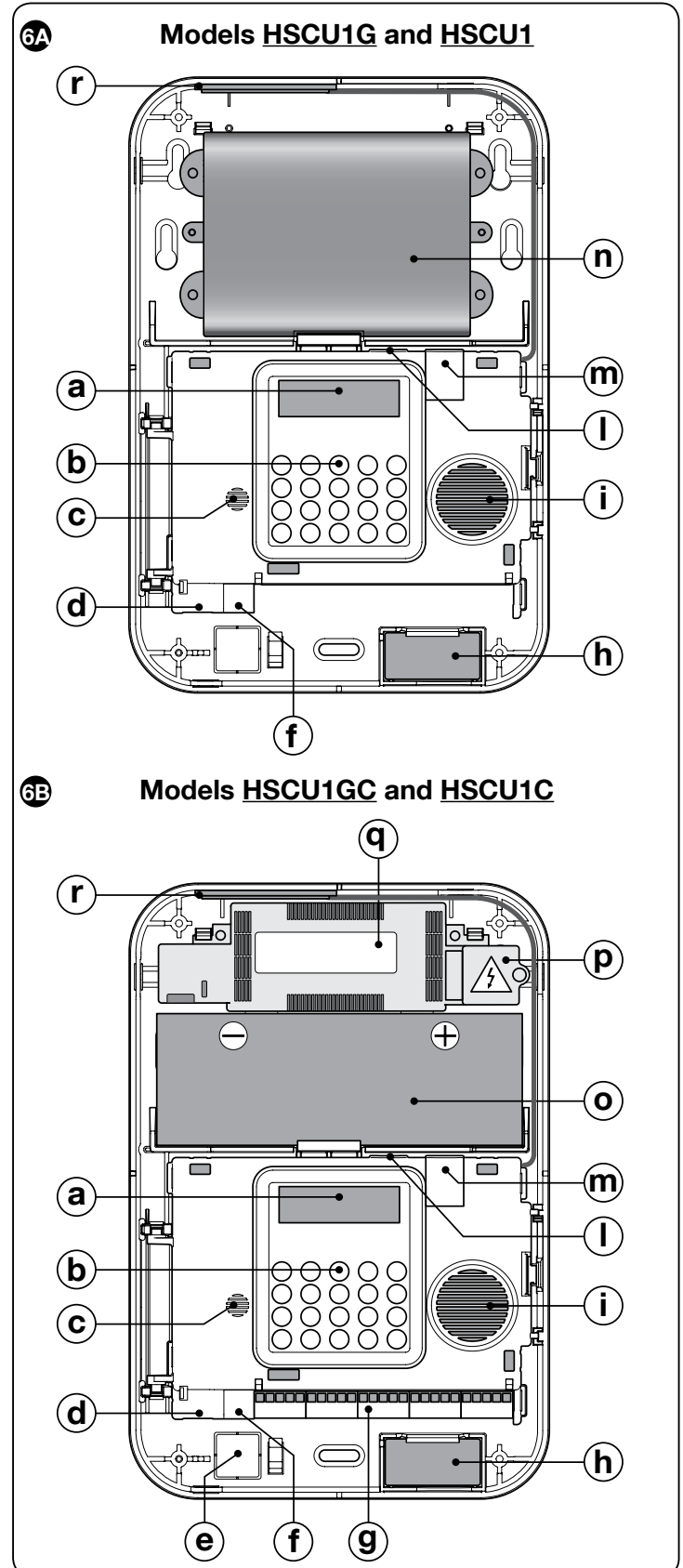
The SIM card must be inserted into the control unit before starting the installation, and with it powered off (see par. 4.4.1). The SIM card may be provided by any cellular operator and with any contract (the system only uses the voice and SMS services), but must be configured with **PIN code** = "1234" or set as "access without PIN": this can be done by inserting the SIM card in any GSM phone.

Description of control panel:

Fig. 6A models HSCU1G and HSCU1 - Fig. 6B models HSCU1GC and HSCU1C:

- a - Display
- b - Keyboard
- c - Microphone
- d - PSTN phone socket
- e - Cable entrance hole
- f - PC connection socket

- g - Electrical terminal block (models HSCU1G and HSCU1GC)
- h - Internal siren
- i - Speaker
- l - System memory card with voice guide
- m - GSM SIM card (models HSCU1G and HSCU1GC)
- n - Battery pack (models HSCU1G and HSCU1)
- o - Backup battery (models HSCU1GC and HSCU1C)
- p - Main power terminal clamp (models HSCU1GC and HSCU1C)
- q - Power supply (models HSCU1GC and HSCU1C)
- r - GSM antenna



4.4 - INSTALLATION: Control panel (models HSCU1GC - HSCU1C and HSCU1G - HSCU1)

Caution - Before proceeding with the installation, read par. 4.1 - 4.2 - 4.3.

4.4.1 - INSTALLATION

01. Open the container, and remove the protective mask (**fig. 7-A**) and then the cover (**fig. 7-B**);
02. Release the side hook to rotate the control panel's body (**fig. 8**);
03. Insert the provided memory card, taking care to insert it correctly into the connector guides (**fig. 9**).
In control panel models HSCU1GC and HSCU1G (with GSM), insert the SIM card (fig. 10).
04. Before securing the container, if you wish, you can activate the **blade proofing** system on the rear tamper (**fig. 11**):
a) remove part "a" as shown and **set it aside**
b) remove part "b" as shown and discard it;
05. **For models HSCU1GC and HSCU1C:** set up the cable hole (**fig. 12**) and run the power cables through it (**fig. 13**);
06. Restore the control panel body to its holder (**fig. 14**);
07. Mark the 3 mounting points on the wall as shown in **fig. 15**. If the blade proofing system has been activated, mark point 4 for part "a" (**fig. 15**);
08. Drill the wall at the 3 marked points and insert the provided wall plugs (**fig. 16**). If the blade proofing system has been activated, drill point 4 and insert the wall plug and part "a" you set aside previously (**fig. 16**);
09. Fix the control panel to the wall with the provided screws (**fig. 17**);
10. Electrical connections

• For models HSCU1GC and HSCU1C:

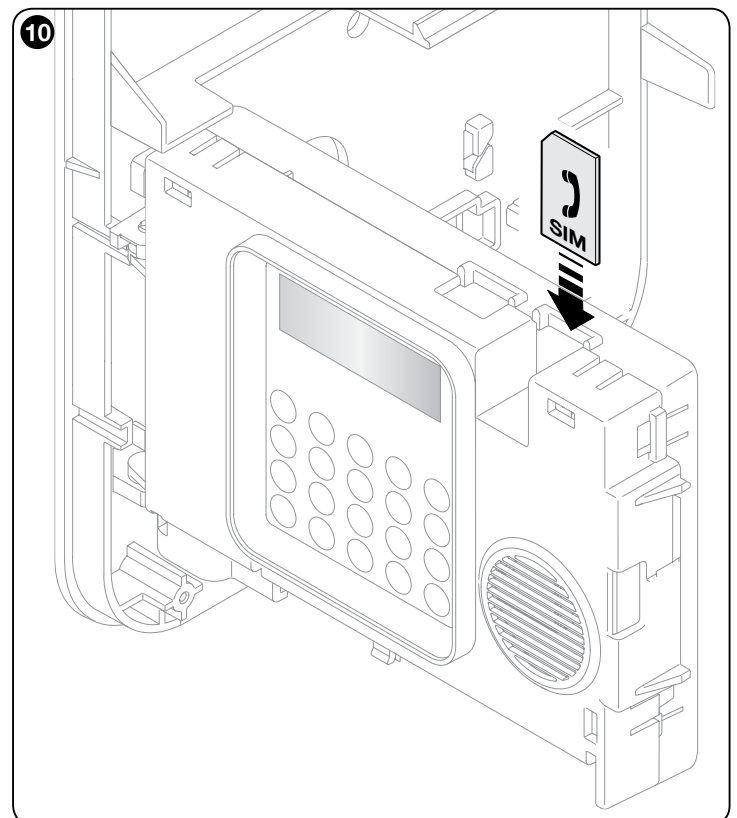
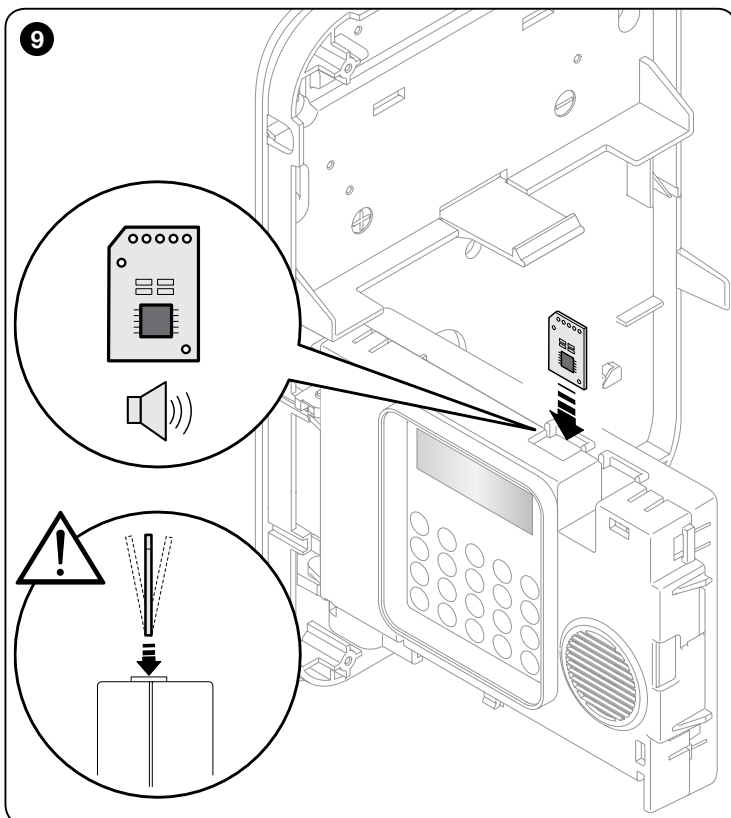
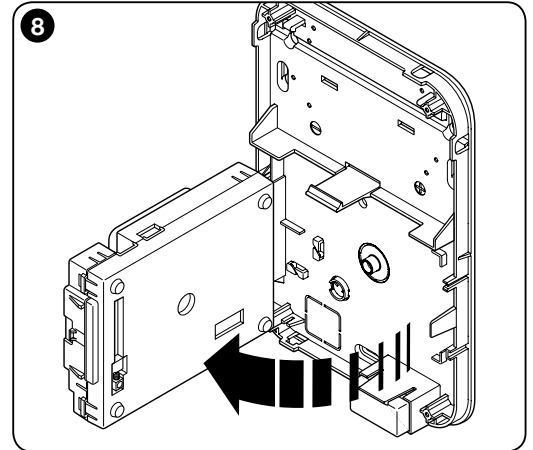
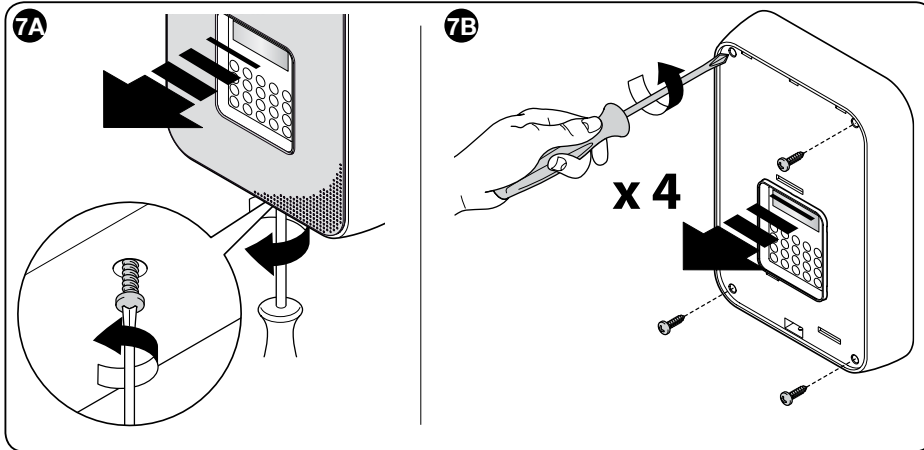
make the electrical connections and insert the backup battery with reference to chapter **chapter 5**.

• For models HSCU1G and HSCU1:

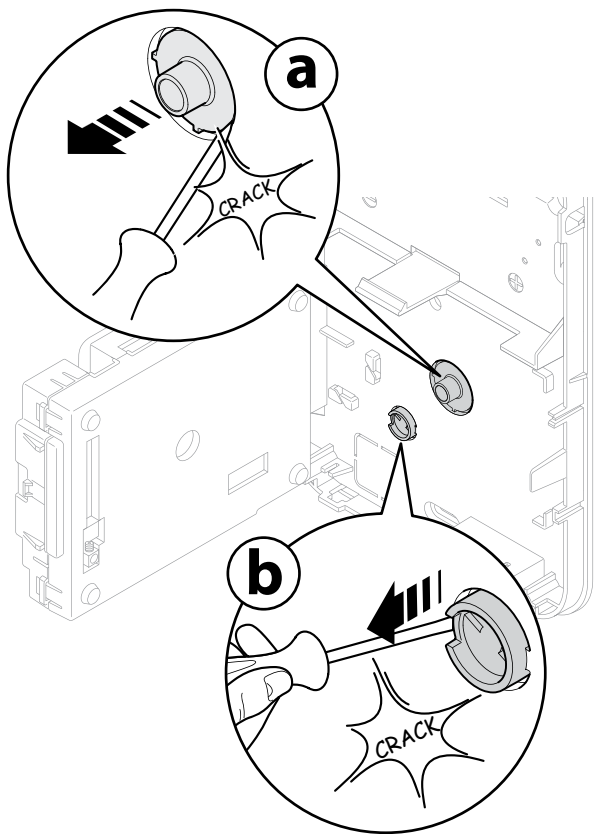
connect the battery (battery pack) as shown in **fig. 18**;

11. Close the container (**fig. 19**).

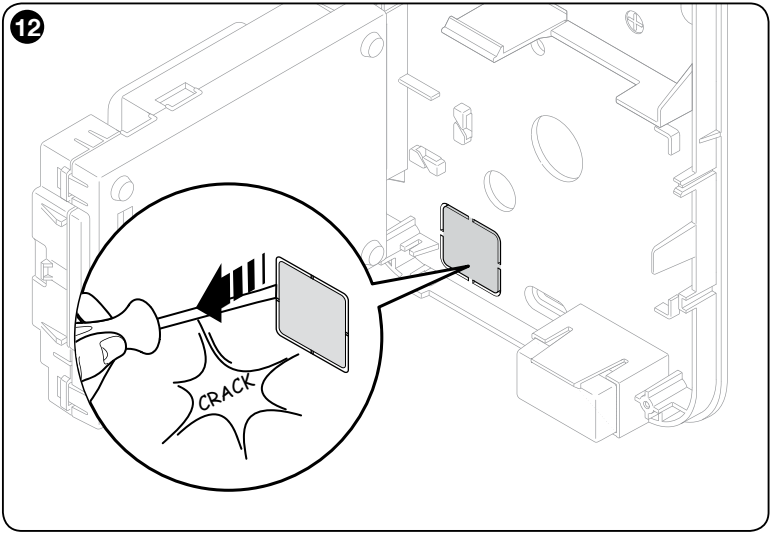
12. Now install the various devices and program the control panel (chapter 6).



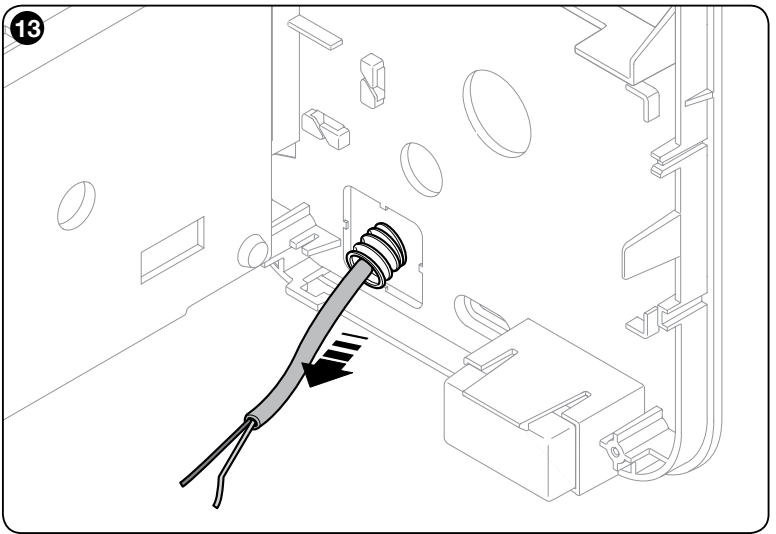
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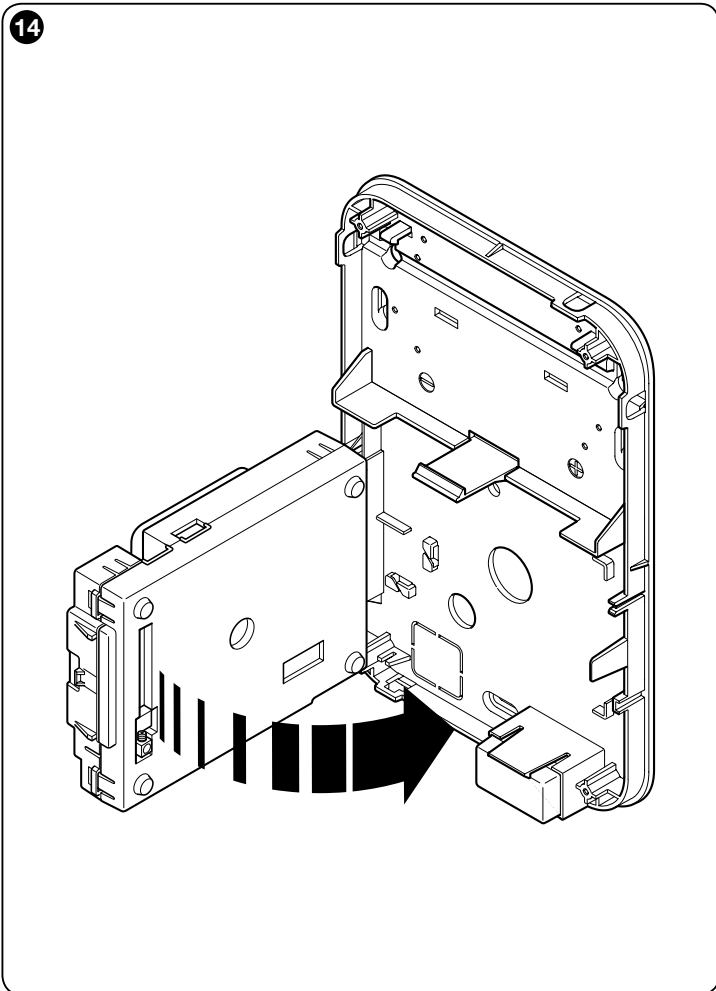
12



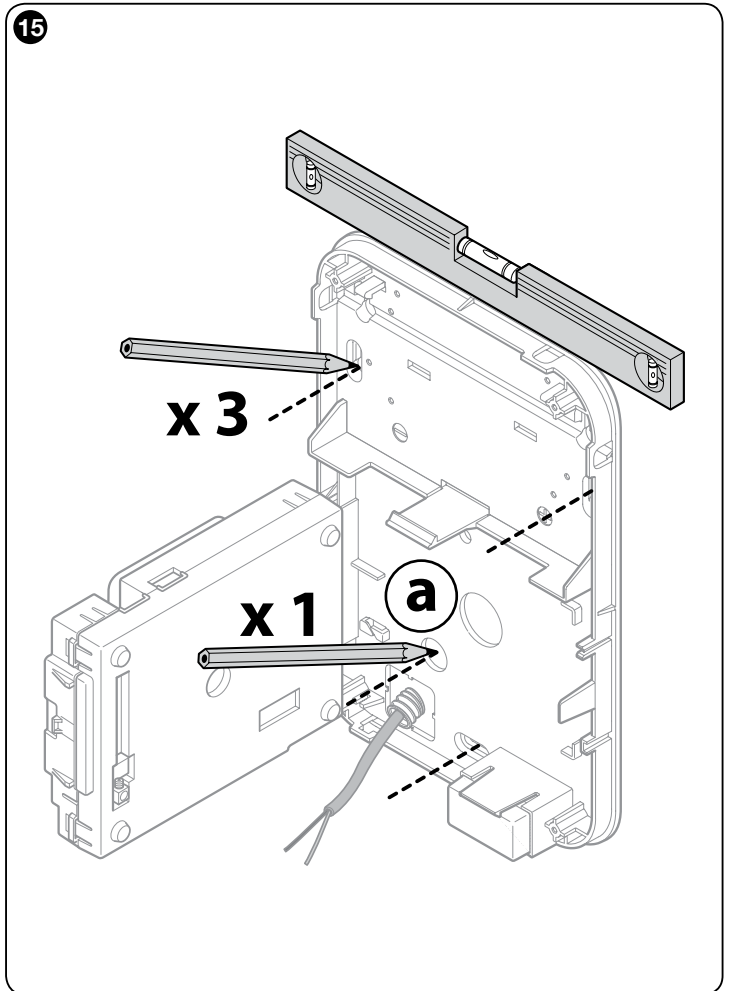
13



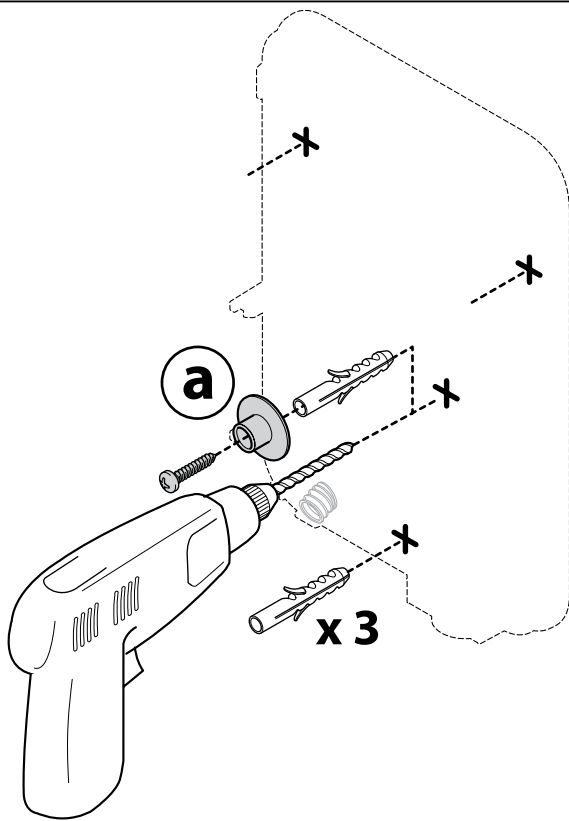
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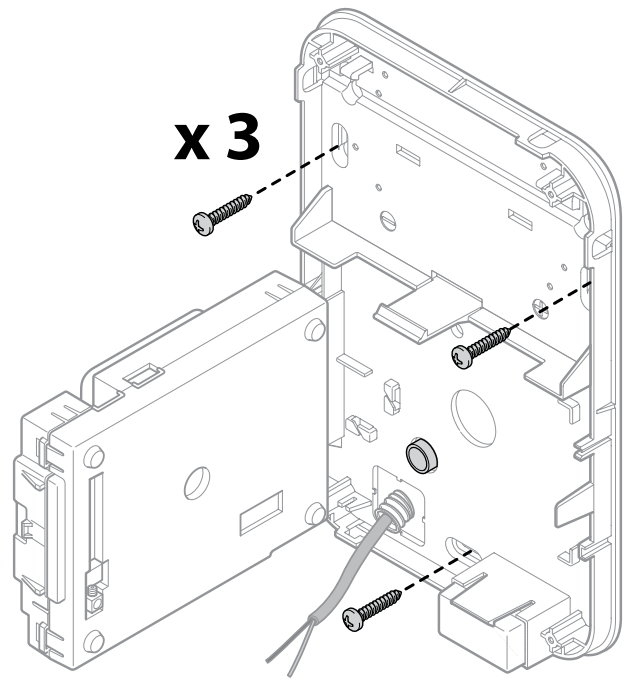
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16

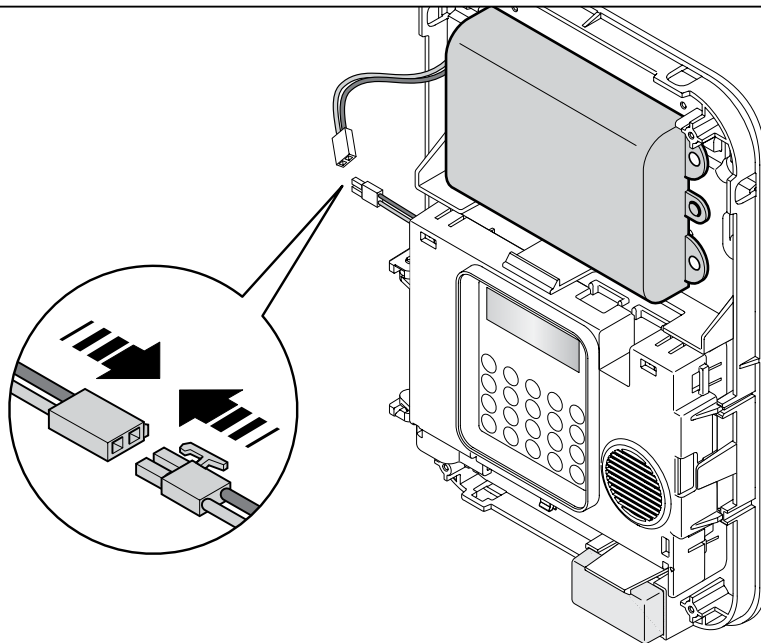


17

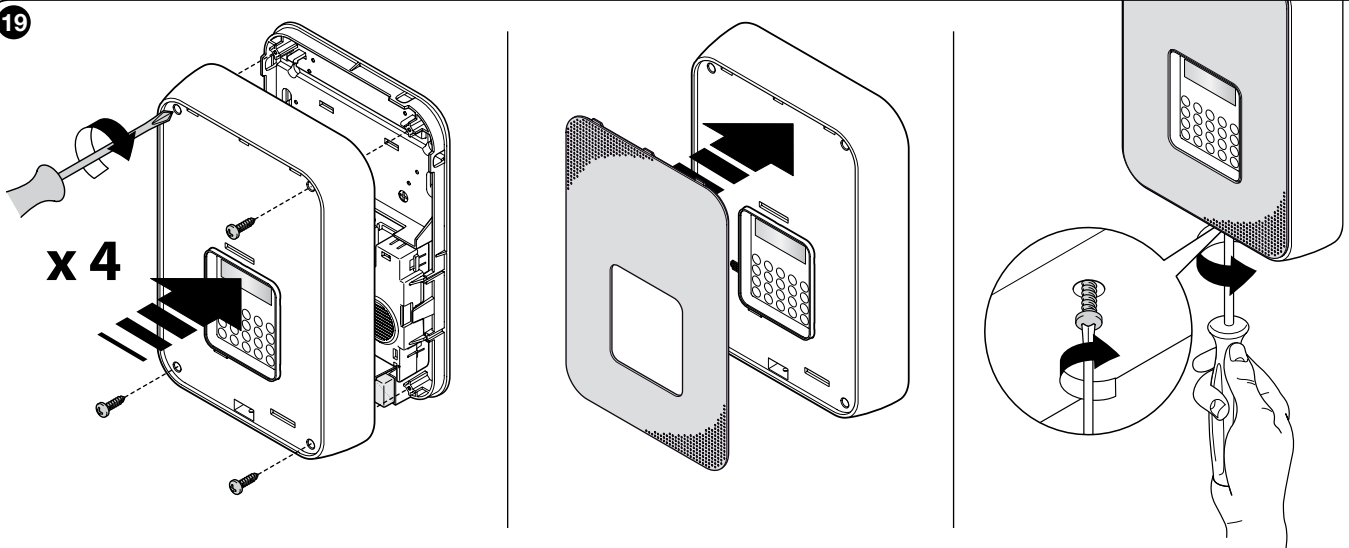


18

only models
HSCU1G and HSCU1



19



5.1 - Important warnings

- The mains power hookup must be done by a qualified electrician in line with electrical equipment regulations.
- Install a 2-pole circuit breaker with contact gap of at least 3 mm, or an electrical cable equipped with a plug for a standard socket.
- Run some tests with the battery alone (as applicable); make sure it is fully charged.
- For compliance with EN 50131, the connections to supplementary sirens (whether self-powered or not, and compliant with the standard) must be protected with a balanced TAMPER line, using the alarm inputs.
- The relay outputs must be used within the voltage and current limits given in the figure.
- For compliance with EN5031, conventional detectors connected directly to the control panel must be certified EN50131 grade 1 or higher, and operate with balanced lines, hence resistors must be used as shown (only 3 wires of adequate cross-section).
- The +OFF signal is positive when the control panel is disarmed, and blocks any detectors/sirens equipped with the appropriate input.
- The fault input, if used, trips ANOMALY signals and the consequent phone calls
- All unused inputs may be left disconnected (they need not be balanced), unless they are incidentally closed, even temporarily. In this case the control unit must be powered off and on again (line reset).

5.2 - Control panel connections (models HSCU1GC and HSCU1C only)

Caution! – Before opening the control panel's enclosure, disconnect it from the mains power supply.

- 01.** To hook up the power cable, insert the ferrite cylinder as shown in **fig. 20** and position it as shown in **fig. 21**;

Warnings:

- To facilitate the connections to the terminal clamps, depress the release button.
- The wires must be secured by closing the terminal cover with its screw;

- 02.** For the electrical connections to the terminal block, refer to **Table 2**;

- 03.** To insert the backup battery (not included) refer to **fig. 22**;

- 04.** Once the connections have been completed, close the internal cover and only then close the circuit breaker or insert the mains plug.

5.3 - HSSOC siren connections

To connect the siren with the control panel, refer to **Table 2** and figure **25A** if the inputs are set as N.C. or **25B** if the inputs are set as balanced.

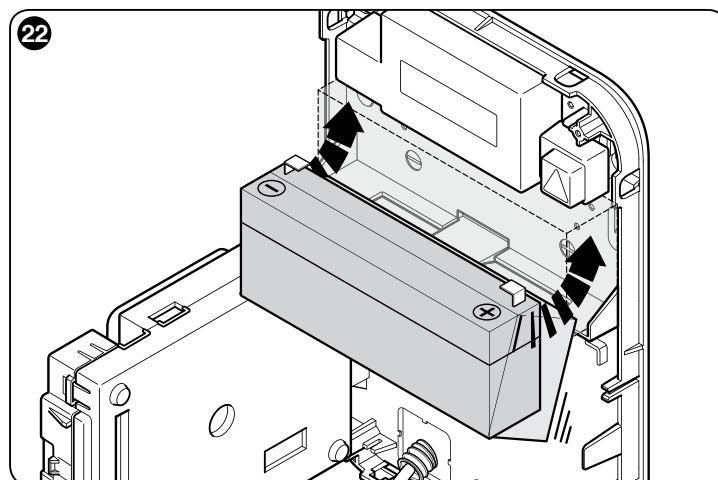
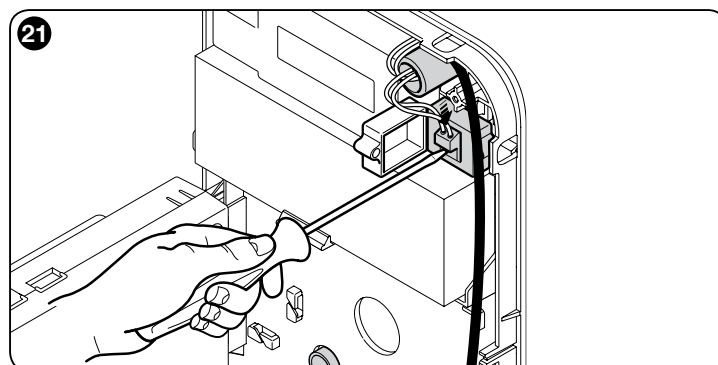
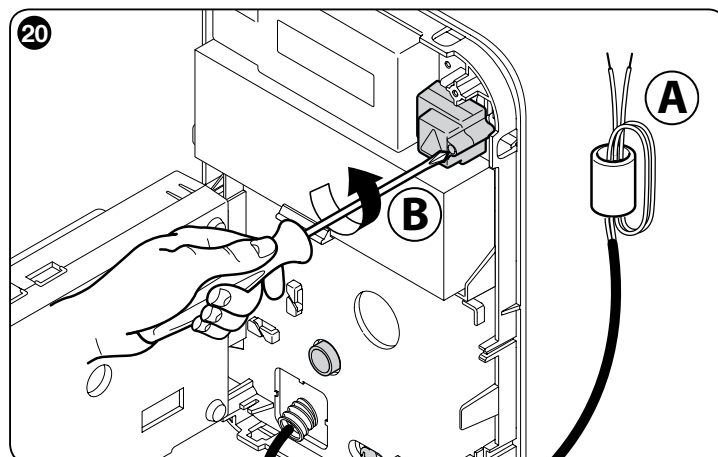


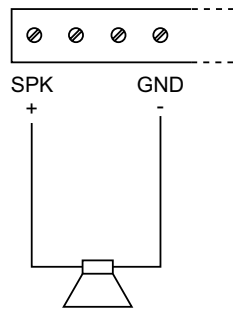
TABLE 2 - DESCRIPTION OF THE ELECTRICAL CONNECTIONS

OUTPUT	DESCRIPTION
SPK	External speaker positive output (8 Ω). Intended for a supplementary speaker for the control panel's messages; see fig. 23
+ ALI	Constant positive, for power to wired detectors; 12 V DC max. 500 mA; see fig. 24
+ OFF	Positive when the control panel is disarmed, blocks wired sirens; see fig. 25
GND (all)	Negative for all connections
+ SIR	Positive when alarm is tripped, for supplementary sirens, 12 V DC max. 500 mA; see fig. 26
+ SAA	Positive (14 V DC), for wired siren battery charger (not available if mains power is not present; see fig. 25
+ N	Caution! – If 2 sirens are hooked up, you must fit 2 diodes to the clamp to prevent return signals. Caution! – Never use this output for powering the sirens
KEY	ON-OFF double balanced output for external key (closed = OFF); see fig. 27
IN1..IN6	Alarm inputs; see fig. 28
24H	Double balanced fault input with EN50131 enabled (Y). With EN50131 disabled (N) it becomes an NC tamperproofing contact; see fig. 28 and 25A .
NC1-C1-NO1	R1 relay output, 12V max. 500mA (connect only to SELV circuits); see fig. 29
NC2-C2-NO2	R2 relay output, 12V max. 500mA (connect only to SELV circuits); see fig. 29
PHONE	PSTN phone line connection; see fig. 6
PC	PC connection (requires USB interface); see fig. 6

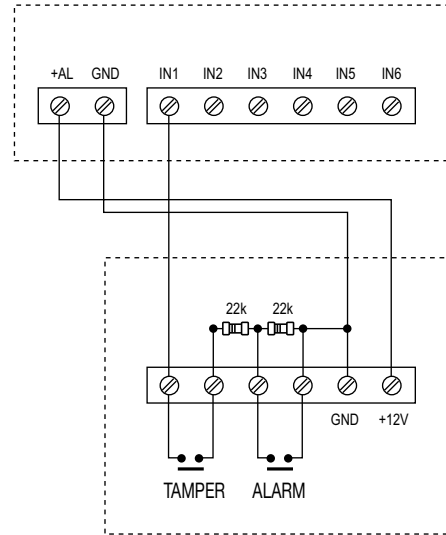
Note:

- The alarm and tamper inputs are enabled when first closed. If they are closed by mistake, they report an alarm. To reset the signal, enable/disable CONTROL PANEL TEST mode.

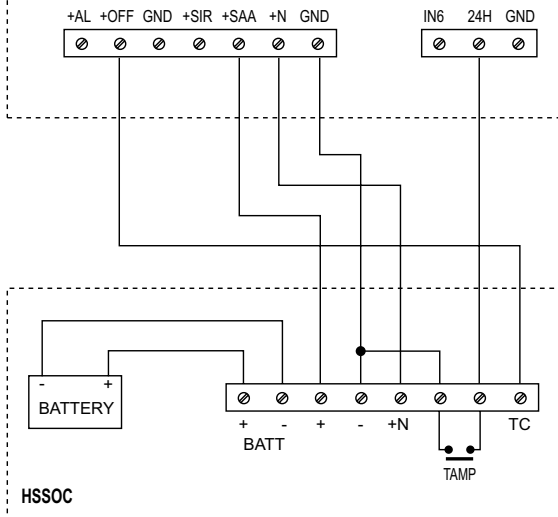
23



24

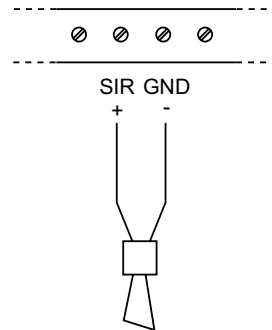


HSCU1GC / HSCU1C

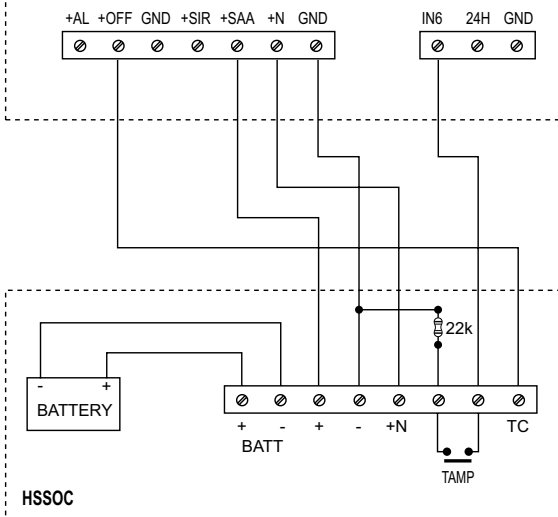


HSSOC

26

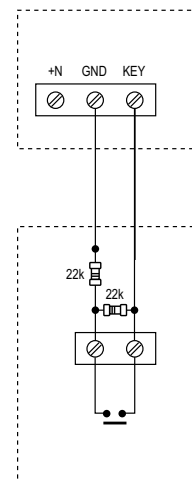


HSCU1GC / HSCU1C

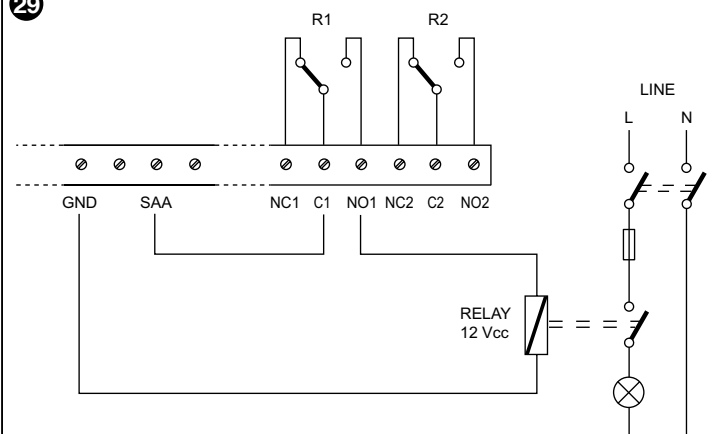


HSSOC

27



29



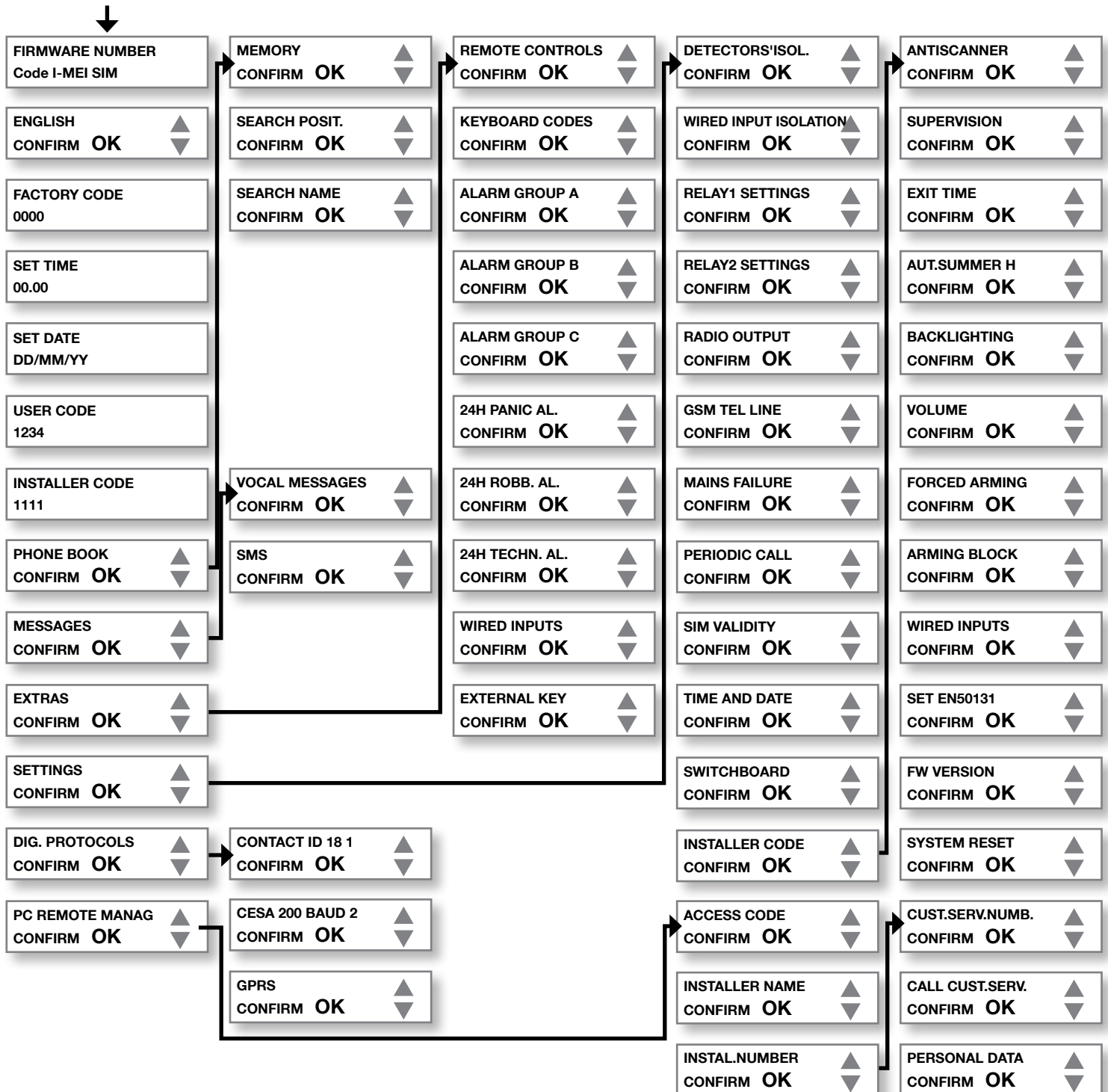
A

MEANING AND USE OF FUNCTION KEYS



TABLE 3

SITUATION OF CONTROL PANEL WHEN FIRST POWERED UP proceed by pressing **OK** then scroll through the options and confirm




6.1 - PROGRAMMING PROCEDURE

We advise programming the control panel on the bench, with the various wireless devices at hand, except for the sirens. Then place the devices in their final positions, after checking the radio coverage. You must then open the devices via their battery compartments. If the equipment is wired, it can be programmed later. We recommend following the programming procedure outlined in this manual.



6.2 - PROGRAMMING MESSAGES

To record vocal messages, hold down **OK** and talk into the control panel's microphone, making sure to speak clearly and distinctly. During the recording, the seconds available for other messages will display and count down, starting from 240 seconds: it is essential that the messages recorded be short, since you may need to record multiple messages (see below).

6.2.1 - Example text: CAUTION, ALARM AT CASA ROSSI, VIA BIANCHI 1, TURIN (pause) DETECTOR . . . the message is automatically completed with the label (i.e. position) of the detector which generated the alarm. Release the button to stop recording and listen to the message; you can either delete it (CANC) or accept it (ESC). Once you have accepted the recorded message, the display prompts for you to associate it to the event, as follows:

- 1) GROUP AL. A,B,C: intrusion alarm message generated by detectors programmed for the groups in question.
- 2) TAMPERING AL.: this alarm message is always active, and is generated when the system devices are tampered with
- 3) 24H PANIC AL.: manual alarm message, generated by pressing remote control key  for instance.
- 4) 24H ROBBERY: manual alarm message, we recommend using a dedicated remote control for this.
- 5) 24H TECHNOL.: alarm message generated by a technical detector (smoke, flooding, gas, etc.)
- 6) LOW BATTERY: identified alarm message, generated by any system component.

6.2.2 - POSSIBLE VARIATIONS OF MESSAGES

You can use keys   to vary the events (you must also record a suitable message) among the above options or one of the following: 6 messages are available, so that you must discard one of the above ones if you choose one of those given below.

ALARM GROUP A (only): delete B and C by pressing 2 and 3 when programming message 1

ALARM GROUP B (only): delete A and C by pressing 1 and 3 when programming message 1

ALARM GROUP C (only): delete A and B by pressing 1 and 2 when programming message 1

MAINS FAILURE (models HSCU1GC and HSCU1C): transmit message after set power failure timeout (SETTINGS)

PERIODIC CALL : call transmitted every 1-25 hours (SETTINGS)

TEMPERATURE: transmit message when the control panel temperature is higher than 70°C or lower than 5°C

ANOMALY (a WARNING displays on the control panel): transmits a generic message, including signal to the 24H input, mains failure, low battery charge, antiscanner, supervision, temperature (< -10°C or > 55°C), PSTN phone line fault.

FREE FIELDS – SPECIFIC MESSAGE: “ _ ”, “ _ ” displays

The following events are available: ALARM = alarm; SUPERV = supervision alarm; SCAN = radio disturbance alarm; ARM = control panel armed; DISARM = control panel disarmed; D.OPEN = door left open; END AL = door closed again; ARM A, ARM B, ARM = arm group in question; NO EVENT: confirming this option disables calls to the associated numbers.

To program the function, enter the event in the first part of the display, exactly as indicated above in uppercase (e.g.: enter ARM and confirm **OK**), then enter the label of the device generating the event in the second part (see EXTRAS) and confirm **OK**: for the control panel, enter C.PANEL.

6.2.3 - VOCAL MESSAGE 7 (see 9.8.1)

If there are no domotics actuators, it is sufficient to record how to operate the control panel remotely: once the command is given, the response is in clear.

- to check the control panel's status (armed/disarmed) press zero #
- to arm the control panel completely, press zero * 1 #
- to arm only groups A+B press zero * 2 #
- to disarm, press zero * zero #

If any remote domotics actuators are present (lights, electrical appliances) you must record how to execute the commands for the actuators in question: see 9.8.4.

Caution! If these messages are not recorded, the control panel will not respond to PSTN calls, while if equipped with always active GSM it will respond (model HSCU1GC).

6.2.4 - SMS – TEXT MESSAGES (GSM models only)

In the same sequence and using the same association procedure, enter the user messages: e.g. ALARM ROSSI TURIN (max. 24 characters).

6.2.5 - RESIDENT TECHNICAL SMS's

These messages are resident and need only be associated to the phone number.

- 1 = low battery control panel: important! The system is close to failure!
- 2 = low battery peripheral: important! One or more detectors may soon stop working (in days!)
- 3 = supervision failure or scanner: check the event log on re-entry
- 4 = control panel armed: the message is only sent in response to remote arming by phone
- 5 = control panel disarmed: the message is only sent in response to remote disarming by phone
- 6 = 230V mains failure - the message is sent after the set timeout (SETTINGS)
- 7 = no GSM reception for more than 15 min.: the message is sent when GSM coverage is restored
- 8 = no successful call on PSTN line: check for phone line failure (land-line)
- 9 = periodic call to indicate that the control panel is present: sent every

set number of hours/days (SETTINGS)

10 = SIM validity warning message: program (SETTINGS) a new validity date when using a prepaid SIM card

11 = 230V mains power restoration: automatic message following SMS 6

6.2.6 - EVENT MESSAGES SENT BY THE CONTROL PANEL

Control panels without voice guide require the messages they are to send to be recorded.

If the voice guide is standard supply, these messages are pre-recorded, and the menu in question is not available:

- | | |
|------------------|--|
| 1 Arming | enables the complete system |
| 2 Partial arming | enables part of the system (as selected) |
| 3 Disarming | disables the complete system |
| 4 Door open | indicates that a door/window with open detector has been left open |
| 5 External alarm | not available in this configuration |
| 6 Pre-alarm | sound alarm which precedes the alarm itself, during the entry delay set on the control panel |
| 7 Tamper | indicates that a disarmed part of the control panel has been tampered with |
| 8 New event | indicates that an event has occurred since the system was last armed (see event log). |

6.2.7 - PROGRAMMING PHONE BOOK – MAX 63 NUMBERS

When necessary, the control panel calls the numbers in the phone book to send them vocal and SMS messages. The numbers must be programmed and associated with the various messages sent when an event occurs, so that each call must be associated with the appropriate messages (see 9.7.2).

Caution! Remaining credit request key: position 64 of the phone book is reserved for the number provided by the cellular operator for this operation; the response is a vocal message. GSM request: the cellular operator's number must be programmed 123456 # (asterisk first and hash at the end): pressing the key on the control panel sends the remaining credit to the first number in the phone book via SMS, which must be a cellular phone (in Italy, the number of the three Italian operators, TIM, WIND and Vodafone, is entered automatically). You can also obtain the remaining credit by sending an SMS to the control panel with a single question mark: the response is sent to the phone used to send the request.

Caution! NICE is not responsible for changes made by the cellular operator which may make any of the functions, set up with the information available at the time of design of the unit itself, unusable.

The PHONE BOOK menu has three variants:

MEMORY: for inserting new numbers and associating them with messages


SEARCH NAME: for finding a number by name and changing its entry – a user-friendly approach to programming

SEARCH POSIT.: for finding a number by its position in the contacts and changing its entry – a user-friendly approach to programming

MEMORY: you are prompted to enter the name and number of the person to call: when you confirm the operation, the text MEMORIZZATO (MEMORISED) displays. Press **OK** to continue: enter the numbers of the messages you wish to associate to this number, both vocal, SMS and technical SMS.

Caution! If a number has no messages associated with it, it is not called.

DIRECT ACCESS N (GSM models only): by changing N to Y (yes) by pressing the key, the central will recognise the number of the caller via GSM and will thus not request the code, so that all functions are available to the caller.

Caution! Phone line check: according to the standard, the control centre checks the PSTN line and only makes the call if the line is unengaged and operating correctly. If the dialling tone is disturbed the check may be cancelled by entering * (press ) before the number during programming.

Caution! Pause between numbers: if you wish to leave a pause between numbers as they are dialled, enter ↓ (pause) between them.

6.2.8 - EXTRAS – PROGRAMMING THE PERIPHERALS

This menu is used to program the peripheral equipment on the control panel, grouped by type as explained in the “First power up” table. Each type of peripheral is flexibly programmable to enable it to suit the needs of each installation, as required by the user.

6.2.9 - REMOTE CONTROLS: you can program up to 32 HSTX4, HSTX8 portable transmitters (over 1 million rolling code combinations) for arming/disarming the control panel and activating specific functions (1 key available). Enter the menu; the message “REM.CONTROL 1” displays: confirm. Each remote can control groups A, B and C, both to arm and disarm them, or part of them as desired: press the numbers 1 to 6 to disable operations in a single group. The excluded groups will disappear, and the remote will only be able to control the remaining groups and their functions.

Program the remote control as requested and wait for the unit to buzz in confirmation. Press **OK** to enter the name of the remote user and then register it locally: as a result, any message or memorisation of manoeuvres involving that remote will be recognisable by that name.

6.2.10 - KEYBOARD CODES (up to 32 available): these are groups of 5 digits for arming/disarming the control panel with its on-board or a remote

keyboard. When you enter the menu Code 1 displays: confirm and proceed as for the remote controls, entering a mnemonic code for its user. UNDER THREAT: see 9.6.3; to enable this function, change N to Y (▲), then proceed as above.

6.2.11 - ALARM GROUP (A,B,C): 3 groups of intrusion detectors which are armed/disarmed together, to enable partial use of the alarm system. The installer will decide on the best solution together with the user. The control panels accepts up to 99 detectors, but note that self-protection, battery check, keyboard supervision and sirens each occupy one location per detector, hence these devices must be included and programmed among the available 99: they do not generate intrusion alarms, but only tampering alarms or messages to control the said functions. When you enter the menu, ALARM GROUP A – OUTDOOR ALARM displays: this function is not compliant with the standard. Press ▼ to obtain the first free location for detectors/sensors (SENSOR A01). Program the entry delay (key 1, then enter the time from 1 to 45 seconds) or the AND function (see below). If you do not require a delay or AND, simply confirm until INSERT BATTERY displays: when you fit the battery into the detector, you will hear a confirming beep. Caution! Read the detector instructions, since there may be particular functions which require programming first. Then enter the label, which identifies the position of the device (9 characters, like MN DOOR for the main door) and record the vocal message.
Caution! If the alarm message has been recorded as explained in 6.2.1, it will end with . . . DETECTOR . . . so that you need only record MAIN DOOR, without repeating DETECTOR.
ALARM GROUPS B and C: proceed as for group A

6.2.12 - AND function: you can use the AND function to program 2 sensors/detectors to protect a single room: the alarm is only generated if one detector trips and the second one trips as well within 30 seconds. By locating the two detectors properly, this can significantly reduce the potential for false alarms in difficult areas (with small birds, strong drafts and other phenomena to which the detector is sensitive). Different types of detectors may be used in an AND configuration. Confirm the AND option (this is not possible if a delay has been entered) and program the two devices one after the other.

6.2.13 - 24 HOUR ALARM GROUPS

24H PANIC (uncertified function): you can program a free key of a remote control (or a dedicated remote control, or the HSDID11 connected to a button) for immediate siren activation: the procedure is similar to the above, but you must hold the button down for 10 seconds when prompted to do so by the control panel.

24H ROBBERY: you can send silent calls (medical as well) in the same way as above.

24H TECHNOL. (uncertified function): the Nice range includes flooding and smoke detectors. You can use an HSDID11 detector to integrate any other commercially available detector. These devices can be programmed to the group in the same way as other detectors (6.2.11).

6.2.14 - WIRED CONNECTIONS (HSCU1GC and HSCU1C only):

EXTERNAL KEY: you can connect an external key to the control panel (see fig. 27) via a balanced line. For compliance with the standard, it must be protected and certified at least grade 1. The programming procedure is similar to that used for remote controls.

WIRED INPUTS: the six wired inputs (double balanced – see diagram fig. 24) are divided as follows: A+1+2; B+3+4; C+5+6, but they can be combined in different ways by pressing keys 1-2-3 when the group is displayed on the control unit. They are programmed in a similar way to wireless groups, but the AND function is not available.

6.2.15 - SETTINGS

This menu is used to configure the operational parameters and other settings, some of which are accessible to the user (see par. 9), as follows. Caution! For conformity with EN 50131 . . . certain functions are mandatory and limited as indicated, and non-compliant settings are not accepted.
Caution! Make sure to confirm all settings as you make them.

6.2.16 - DETECTORS'ISOL.: enter the menu, select the detector/sensor in service (INCLUDE), and put it out of service (EXCLUDE) by pressing OK. Repeat to return it to service.

6.2.17 - WIRED INP.ISOL.: enter the menu, select the detector/sensor in service (INCLUDE), and put it out of service (EXCLUDE) by pressing OK. Repeat to return it to service.

6.2.18 - RELAY1 SETTINGS: the relay may be used for controlling electrical loads, within the indicated limits (fig. 29) and in combination with diverse activities: the factory setting for R1 is ON-OFF, bi-stable switching (toggling) which changes following an ON command and returns to standby with an OFF via phone. If combined with the internal clock, phone-operated toggling has priority over clocked toggling. R1 can also be used in other ways, as follows:

IMPULSIVE: switches for 0 to 999 seconds on receiving an internal clock or phone command.

GENERAL ALARM: switches for the set time for alarms of any type, excluding antiscanner alarms.

TAMPERING AL.: switches for 3 minutes in case of tamper alarm

(24H PANIC/ROBBERY/TECH. AL.): switches for 15 seconds when a Panic/Burglary/Technical alarm is generated

ANOMALY: switches for 15 seconds when the batteries are low (control panel or detector), supervision failure, radio disturbance with control panel armed (antiscanner), no GSM network (HSCU1GC).

ARM./DISARM.: switches when armed and returns to standby when disarmed (used to connect an on-off led, for example)

DELAY: switches during the entry delay set for one or more detectors (entry time).

6.2.19 - RELAY2 SETTINGS: the relay may be used for controlling electrical loads, within the indicated limits (fig. 29) and in combination with diverse activities: the factory setting for R2 is GENERAL ALARM, which switches for 3 minutes when an alarm is generated. This relay cannot be activated by the clock, otherwise it can be used just like relay R1.

6.2.20 - RADIO OUTPUT (uncertified function): you can operate local command functions by calling the control panel with your phone. The control panels have 16 wireless transmissions for activating HSTT2L and HSTT2N receivers, which can switch lights on and off and control automation equipment and electrical loads. To operate under the control panel's control, they must memorize one of the above RADIO OUTPUT: confirm the output as pulse or change to on/off (▲ ▼), then prepare the receiver and press OK to program it (see receiver instructions).

Caution! These functions require you to record guide messages (6.2.3) to aid the user in operating them by phone.

6.2.21 - GSM-PSTN LINE (HSCU1GC and HSCU1G only): select the priority mode for outgoing calls (▲ ▼). If the priority option fails, the other method is automatically selected.

6.2.22 - MAINS FAILURE (HSCU1GC and HSCU1C only): This function is always active if EN50131 is set to Y (6.2.36). With EN50131 disabled, the mains failure function can be confirmed (Y) or disabled (N). Follow the voice prompts to receive an SMS after the set time (1 to 60 minutes).

6.2.23 - PERIODIC CALL: This function is always active if EN50131 is set to Y (6.2.36). With EN50131 disabled, the periodic call can be confirmed (Y) or disabled (N). Enter the transmission interval (per the standard, 1 to 25 hours), and then the count start hour.

6.2.24 - SIM VALIDITY: Activate the function by setting N (no) to Y (yes) by pressing ▲ ▼, then enter the SIM validity in months, leaving at least one month margin.

6.2.25 - TIME AND DATE: updating the internal clock and date is important for the event log. Internal clock - precision: up to 2 seconds a day, which can be corrected during scheduled maintenance, as provided by EN 50131.

6.2.26 - TEL. EXCHANGE: Use ▲ ▼ to select whether to enable the telephone exchange function (Y) and set the digit for outside calls. N.B.: - If the EN50131 function is enabled, this menu is only visible if the phone line is detected.

6.2.27 - INSTALLER CODE: used to display/change the code. If you lose this code, you must open the control panel, thus tripping the tamper alarm, disconnect the battery and mains power, power on again after a few seconds, and enter programming mode with the factory code. This does not lose programmed data.

6.2.28 - ANTISCANNER: This function is always active if EN50131 is set to Y (6.2.36). With EN50131 disabled, the Antiscanner function can be confirmed (Y) or disabled (N). The control panel monitors radio signals and reports any which are disturbing its operation. You can set the negligible disturbance time in seconds (1-60), after which the control panel's siren sounds and current is sent to the SIR terminal (models HSCU1GC and HSCU1C only) for 30 seconds. If you wish, you can associate a vocal message or SMS or one of the relays with this function.

6.2.29 - SUPERVISION: This function is always active if EN50131 is set to Y (6.2.36). With EN50131 disabled supervision can be confirmed (Y) or disabled (N). Supervision is the good working order signal which all peripherals transmit every 28 minutes or so: failure of any peripheral to transmit this signal generates an ANOMALY warning when the system is armed/disarmed. If even just one such signal is lacking during the 60 minutes before the system is armed, the system will not be armed. If you wish, you can associate a vocal message or SMS or one of the relays with this function.

6.2.30 - EXIT TIME: Caution! Too short a setting does not allow for service communications which occur during this period. The standard allows for settings of 1 to 99 seconds.

6.2.31 - AUT.SUMMER H: this function is normally enabled, and can be disabled by pressing 1↓ where daylight saving time is not in force.

6.2.32 - BACKLIGHTING: activate the function (HSCU1GC and HSCU1C only). The display can be continuously backlit by switching from N (no) to Y (yes) with ▲ ▼. **Caution!** If mains power is not available, the backlighting goes out. Models HSCU1G and HSCU1: the units are factory set for backlighting to go out after 60 seconds idle time.

6.2.33 - VOLUME: the audio volume can be set with ▲ ▼.
Caution: With the volume set to 0 the beeps are also excluded.

6.2.34 - FORCED ARMING: to arm the control panel at a set time, enable this function by switching from N (no) to Y (yes) with ▲ ▼. The control panel can be partially or totally armed at set times (see 3.6.4). Disarming

is always manual.

6.2.35 - ARMING BLOCK: This function is always active if EN50131 is set to Y (6.2.36). With EN50131 disabled, the arming block function can be confirmed (Y) or disabled (N).
Note: refer to par. 9.6.1.

6.2.36 - Compliant EN50131: Switch to Y (yes) with ▲ ▼ to set all parameters compliant with EN50131. N (no), which is the default setting, enables you to use functions and parameters not envisaged by EN50131.

Caution: With this parameter set to N (no), the system excludes compliance with EN50131.

6.2.37 - FW VERSION: displays the control panel's firmware version, which is required for upgrades.

6.2.38 - SYSTEM RESET: confirming (OK) the prompt SYSTEM RESET? removes all programmed settings and the event log. This operation cannot be undone - be sure of what you are doing.

6.3 - DIG. PROTOCOLS

The control panels have two types of digital protocol among those most commonly used by private security companies, with the option of transmission to 2+2 PSTN numbers, optionally belonging to different security companies. Alarms can also be transmitted by GPRS (IP). The menu allows you to choose the protocol or mode, as follows:

6.3.1 - CONTACT ID / CESA 200 BAUD: enter the client ID, primary and secondary phone numbers (if not applicable, press OK) for transmission, select direct or inverse mode (▲ ▼) and then enable (N/Y) (▲ ▼, the OK) the messages to be transmitted one at a time, as agreed with the receiving control panel.

Advanced programming: in the CODEV field, enter 1 to 4 further specific events for transmission. You must enter the type of event in the first part (e.g. ALL) and the peripheral's label or position in the second part (e.g. A03 - for the control panel, enter CENTRALE (CONTROL PANEL)), the control panel will now propose a code for transmission.

For the CONTACT ID protocol, you can modify the proposed code, but the code is fixed for the CESA 200 protocol (96 for CODEV1, 97 for CODEV2, 98 for CODEV3, 99 for CODEV4).

Example CONTACT ID:

CODEV1 1 130 01 003 ALARM , A03	After you enter the event ALL (OK), the position A03 (OK), the first line proposes the code to associate with the event for transmission with the CONTACT ID protocol; confirm with OK or modify the code (◀).
--	--

Advanced programming also allows you to enter the detector label rather than its position; if you have given detector A03 the label "KITCHEN", then you can set:

CODEV1 1 130 01 003 ALARM , KITCHEN	After you enter the event ALL (OK), the label "KITCHEN" (OK), the first line proposes the code to associate with the event for transmission with the CONTACT ID protocol; confirm with OK or modify the code (◀).
--	---

Example CESA 200 BAUD:

CODEV1 96 ALARM , A03	After you enter the event ALL (OK), the position A03 (OK), the first line proposes the code to associate with the event for transmission with the CESA 200 protocol; confirm with OK.
--	---

Only events listed below are available, and the peripherals must have been already memorized; make sure your entries are correct otherwise the control panel will not be able to make the right associations.

EVENT	MEANING	PERIPHERAL	MEANING
ALARM	Alarm	A01 – A99	Group A detectors
END AL	End of alarm	B01 – B99	Group B detectors
		C01 – C99	Group C detectors
TAMPER	Tamper	P01 – P99	24H PANIC AL. group detectors
SUPERV	No supervision	R01 – R99	24H ROBB. AL. group detectors
SCAN	Radio disturbance detected	T01 – T99	24H TECHN. AL group detectors
BATT	Battery low	WIR A1 – A2	Group A wired detectors
D.OPEN	Door open during arming	WIR B1 – B2	Group B wired detectors
ARM	Full arming	WIR C1 – C2	Group C wired detectors
ARM A	Arm group A	WIR A	Group A wired detector tamper
ARM B	Arm group B	WIR B	Group B wired detector tamper
ARM C	Arm group C	WIR C	Group C wired detector tamper
ARM AB	Arm group AB	TEL01 – TEL32	Remote controls
ARM AC	Arm group AC	COD01 – COD32	Keyboard codes
ARM BC	Arm group BC	WIR KEY	Key input
DISARM	Disarming	CONTROL PANEL	Control panel

6.3.2 - DIGITAL TRANSMISSION TEST

With the control panel disarmed you can send a TEST event to a security company, as described in 9.5.1.1 – 9.5.1.2: conform TEST COMBINATORE (DIALLER TEST), enter the phone number and select the type of message to transmit (CONTACT ID or CESA 200), confirming the displayed prompts.

To run the dialler TEST, you must have programmed the digital protocol you intend to use: for CONTACT ID the transmitted code is 602, whereas for CESA it is 90.

6.3.3 - TABLE OF DIGITAL PROTOCOL CODES

EVENT	CONTACT ID	CESA 200	CESA 200
GROUP A ALARM	1 130 01 001/099	1 14/22 detectors 01 to 09	1 23 detectors 10 to 99
END OF GROUP A ALARM	3 130 01 001/099	2 14/22 detectors 01 to 09	2 23 detectors 10 to 99
GROUP A WIRED ALARM	1 130 01 101/102	1 24/25 detectors 01 and 02	
END OF GROUP A WIRED ALARM	3 130 01 101/102	2 24/25 detectors 01 and 02	
GROUP B ALARM	1 130 02 001/099	1 26/34 detectors 01 to 09	1 35 detectors 10 to 99
END OF GROUP B ALARM	3 130 02 001/099	2 26/34 detectors 01 to 09	2 35 detectors 10 to 99
GROUP B WIRED ALARM	1 130 02 103/104	1 36/37 detectors 01 and 02	
END OF GROUP B WIRED ALARM	3 130 02 103/104	2 36/37 detectors 01 and 02	
GROUP C ALARM	1 130 03 001/099	1 38/46 detectors 01 to 09	1 47 detectors 10 to 99
END OF GROUP C ALARM	3 130 03 001/099	2 38/46 detectors 01 to 09	2 47 detectors 10 to 99
GROUP C WIRED ALARM	1 130 03 105/106	1 48/49 detectors 01 and 02	
END OF GROUP C WIRED ALARM	3 130 03 105/106	2 48/49 detectors 01 and 02	
24H PANIC AL.	1 123 04 001/099	1 55/58 detectors 01 to 04	1 59 detectors 05 to 99
24H ROBB. AL.	1 122 05 001/099	1 50/53 detectors 01 to 04	1 54 detectors 05 to 99
24H TECHN. AL.	1 150 06 001/099	1 61/88 detectors 01 to 28	1 89 detectors 29 to 99
CONTROL PANEL TAMPER	1 137 00 000	1 94	
GROUP A TAMPER	1 137 01 001/099	1 12	
GROUP A WIRED TAMPER	1 137 01 000	1 12	
GROUP B TAMPER	1 137 02 001/099	1 12	
GROUP B WIRED TAMPER	1 137 02 000	1 12	
GROUP C TAMPER	1 137 03 001/099	1 12	

GROUP C WIRED TAMPER	1 137 03 000	1 12	
24H PANIC AL. GROUP TAMPER	1 137 04 001/099	1 12	
24H ROBB. AL. GROUP TAMPER	1 137 05 001/009	1 12	
24H TECHN. AL. GROUP TAMPER	1 137 06 001/009	1 12	
ARMING VIA USER CODE	1 401 00 000	1 60	
DISARMING VIA USER CODE	3 401 00 000	2 60	
REMOTE CONTROLS ACTIVATION	1 401 00 001/032	1 60	
REMOTE CONTROLS DEACTIVATION	3 401 00 001/032	2 60	
ACTIVATION CODES	1 401 00 033/064	1 60	
DEACTIVATION CODES	3 401 00 033/064	2 60	
ARMING VIA EXTERNAL KEY	1 409 00 000	1 60	
DISARMING VIA EXTERNAL KEY	3 409 00 000	2 60	
ARMING VIA REMOTE PHONE	1 407 00 000	1 60	
DISARMING VIA REMOTE PHONE	3 407 00 000	2 60	
CONTROL PANEL BATTERY	1 302 00 000	1 91	
RESTORE CONTROL PANEL BATTERY	3 302 00 000	2 91	
PERIPHERAL BATTERY	1 384 01/06 001/099	1 13	
RESTORE PERIPHERAL BATTERY	3 384 01/06 001/099	2 13	
MAINS FAILURE	1 301 00 000	1 92	
MAINS RESTORATION	3 301 00 000	2 92	
PERIODIC CALL	1 602 00 000	1 90	
NO SUPERVISION GROUP A, B, C, T	1 381 00 000	1 11	
SCANNER	1 344 00 000	1 95	
OPEN DURING GROUP A, B, C ARMING	1 371 01/03 001/099	NOT USED	

6.3.3 - GPRS: fill in the fields as follows:

INTERNET DATA

APN: request the GPRS data connection APN from your cellular operator.
IP: not required at this time for TIM, WIND and VODAFONE users. If a different SIM is used, request this setting from your cellular operator.
USER: not required at this time for TIM, WIND and VODAFONE users. If a different SIM is used, request this setting from your cellular operator.
PSW: not required at this time for TIM, WIND and VODAFONE users. If a different SIM is used, request this setting from your cellular operator.

GPRS 1-2 (first and second connection option – same procedure) – see SECURITY COMPANY DATA menu

USERNAME enter the 4 digit number provided by the security company
TCP / UDP MODE select the mode (▲ ▼) and confirm (OK)
IP ADDRESS enter the IP of the security company switchboard
IP PORT enter the IP PORT of the security company switchboard
BACK-UP SMS NUM enter a number of the security company switchboard to which SMS's can be sent if transmission fails
PERIODIC CHECK enter the interval (in minutes) between check transmissions

SIA 1-2 (first and second connection option – same procedure) – see MON.STAT.DATA menu

USERNAME enter the 4 digit number provided by the security company
TCP / UDP MODE select the mode (▲ ▼) and confirm (OK)
IP ADDRESS enter the IP of the security company switchboard
IP PORT enter the IP PORT of the security company switchboard
PERIODIC CHECK enter the interval (in minutes) between check transmissions

EVENTS menu see 6.3.1 and enable the events you require

6.3.4 - PC REMOTE MANAG

(advanced programming, without voice guide)

The control panel has a tele service feature. For this function, the control panel must be connected to the PSTN line and the customer service must be equipped with an HSMO phone modem and software for PC Tele Service.

The tele service feature must however be expressly activated by the user by pressing .

For the settings required for tele service, see the HSMO modem's manual.

6.4 - PROGRAMMING ALARM SYSTEMS / WIRELESS WARNING (see also specific instructions)

a) HSSI siren: once powered up, program themselves automatically when it receive the first wireless signal from the control centre.

b) HSSO1 siren: once powered up, program themselves automatically when it receive the first wireless signal from the control centre, but one must first program the transmission to the control panel, which can be from any alarm group labelled as "siren".

c) HSKPS keyboard: the same codes as those entered into the control panel can be used to arm/disarm it. To associate one or more HSKPS keyboards with the control panel, and allow battery checks, supervision and program the PANIC button (!) proceed as follows:

- power up the HSKPS keyboard: all leds flash
- within 60 seconds, DISARM the control panel with its own keys: the key-

board's leds will go out, to confirm that the association has been successful. Keyboards which have already been programmed can be reprogrammed in this way.

- set the control panel to the PANIC group and hold down "!" for 10 seconds on the (previously associated) keyboard.

7 PRODUCT MAINTENANCE

In general, Nice Home Security products do not require special maintenance; however, they should be kept clean, especially the detectors, whose sensors must be kept clean of dust and other dirt (refer to the respective user manuals).

Caution – When cleaning the product housings, use a slightly damp cloth and water only; do not use solvents or detergents.

In general, an alarm system does not report alarms for a long time, and malfunctions can often go unnoticed.

The control panel is equipped with a set of functions for maintaining and checking the functionality of the system:

- Option for checking the installed components with the **"TEST"** function (see chapter 9.5.1). The operation of the system should be checked at regular intervals.
- The control panel logs all events and saves the last 200 in its memory (see chapter 9.5.2). The log can be analysed to troubleshoot malfunctions.
- The control panel monitors the charge status of some of the devices mapped to it. All battery powered devices have a function which monitors the battery charge and, when no more than 15-30 days worth of charge is left, transmit a "low battery" signal. The status is reported on both the device itself (see the user manuals) and on the control panel.

Caution – When the low battery status is reported, it is time to change the battery.

- Mains powered devices have a rechargeable backup battery (not included), which powers the unit during mains power failures. These batteries generally have a service life of 4-7 years (factors like ambient temperature and the frequency and intensity of use affect this value).

Once this period has passed, they must be replaced. Alternatively, one can run a practical test by disconnecting mains power and seeing how long it takes for the system to report the low battery status. Replace the battery when this time is half the normal value or less than the required duration.

Caution! – When the batteries are partially discharged, the radio coverage between devices is reduced and the system cannot be guaranteed to operate effectively.

7.1 - Replacing the batteries (control panel and accessories)

When the battery (battery pack or backup battery) of the control panel or the internal batteries of the accessories are drained, they must be replaced to restore normal system operation.

Caution! – Never use battery types different from the specified model.

Caution! – To prevent false tampering alarms, activate **CONTROL PANEL TEST** mode on the control panel (chapter 9.5.1.1) before opening the devices' housings (control panel, sirens, detectors). **Caution!** - For reasons of safety, it is advisable to disconnect the mains power to models HSCU1GC and HSCU1C.

To replace the control panel battery proceed as follows:

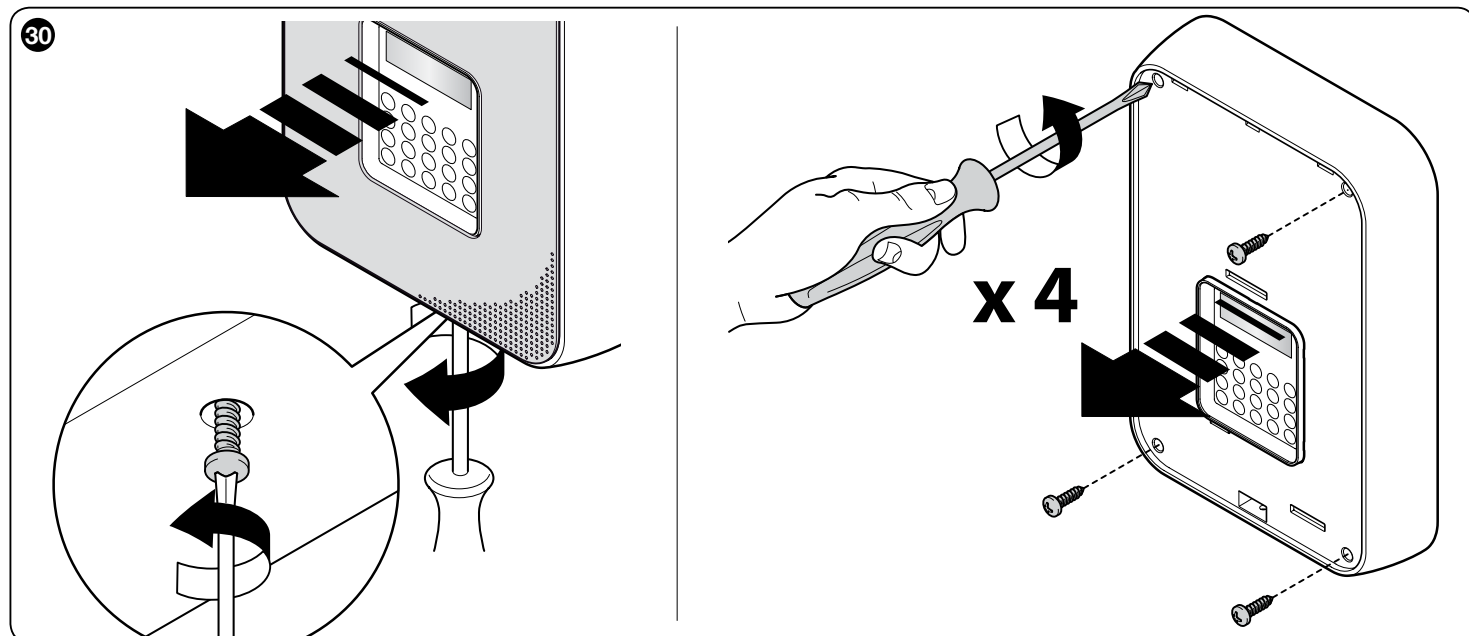
For models **HSCU1GC** and **HSCU1C** (backup battery):

01. Open the housing (fig. 30);
02. Release the battery (fig. 31) and replace it with another of the same type.
Caution! – Make sure to respect the polarity indications;
03. Close the housing (fig. 33).

For models **HSCU1G** and **HSCU1** (battery pack):

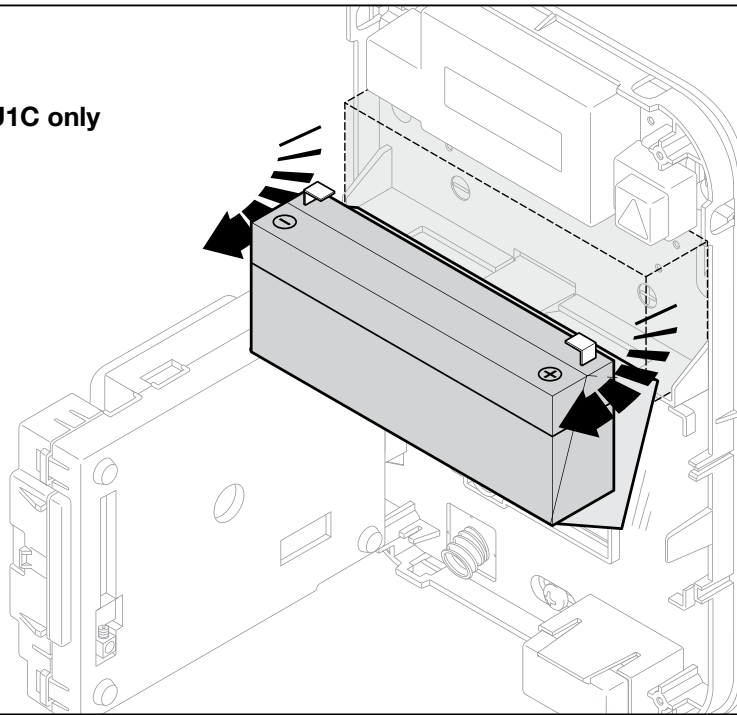
01. Open the housing (fig. 30);
02. Disconnect the battery pack (fig. 32) and replace it with another of the same type;
03. Connect the new battery pack;
04. Close the housing (fig. 33).

After closing the housing, start up the control panel and at least set the internal clock time and date (see chapter 6.2.25).



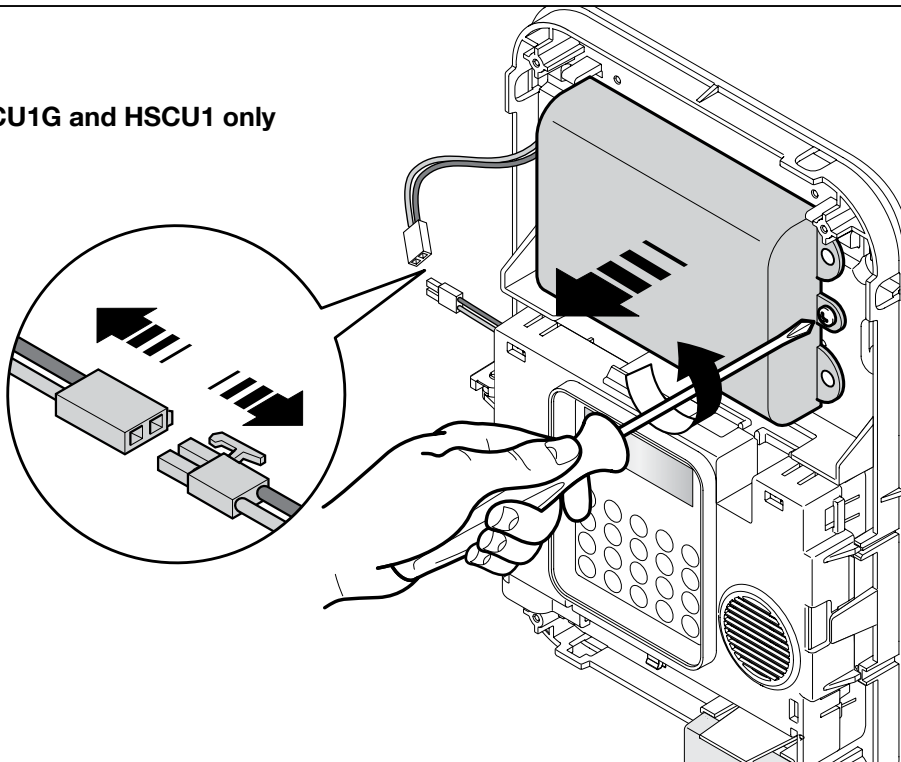
31

models HSCU1GC and HSCU1C only

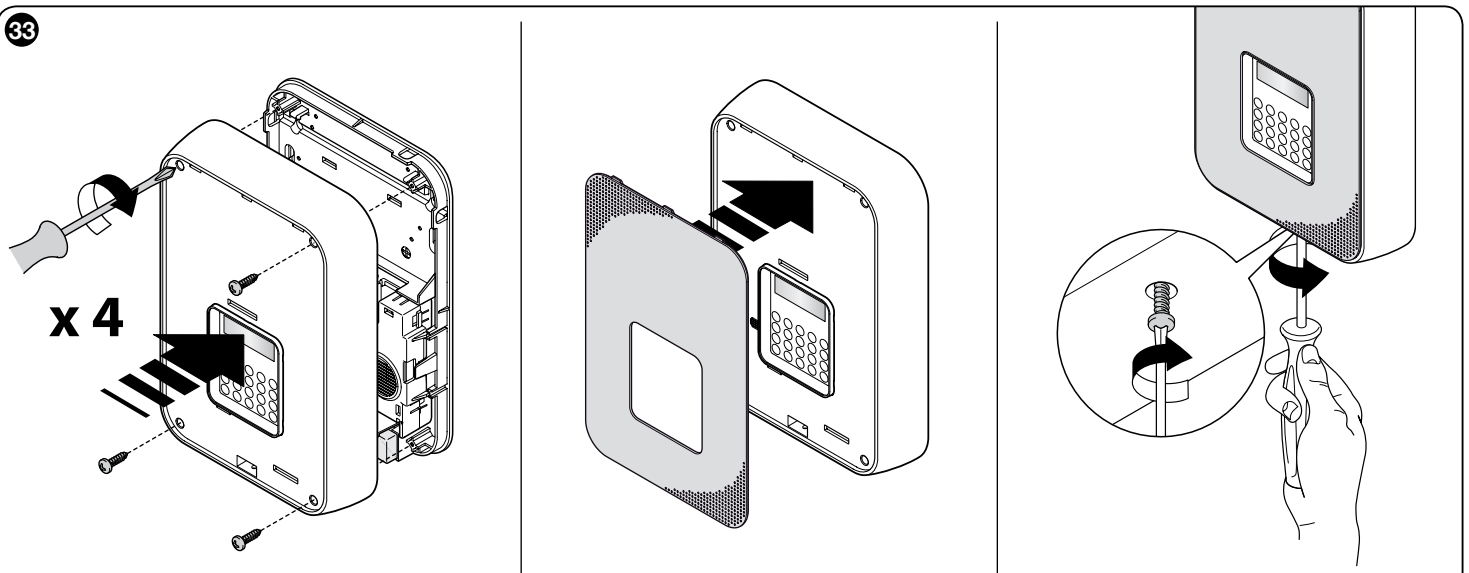


32

models HSCU1G and HSCU1 only



33



8 WHAT TO DO IF... (Troubleshooting)

• A detector occasionally generates false alarms

- Check whether the batteries are dead.
- Check the detector for dirt and damp.
- Check the user instructions for the sensor in question for the causes of false alarms and resolve the problem. If the false alarms persist, place a second detector in the same area and associate it with the first one using the AND function.

• A detector occasionally generates false tampering alarms

This may be due to temperature differentials deforming its housing surface. Exclude the tamper device on the bottom of the housing with the provided dipswitch.

HSDID11 Door/window open detector

- **Incomplete closure:** if the door/window is not perfect closed, it can be moved by the wind.
- **Deformation:** check the distance between the sensor and magnet with the door/window fully closed.
- **Vibration:** the internal shock sensor is sensitive to strong vibrations.
- **External contact:** the external contact connection is sensitive to high levels of damp.

HSDIM10: IR detector with volumetric lens

HSDIM12: IR detector with shutter lens

- **Strong currents of hot/cold air:** the IR sensor is sensitive to moving warm bodies
- **Large insects:** a hornet at a distance of 1 cm is perceived by the sensor like an elephant at 10 m.
- **Vibration:** the internal shock sensor is sensitive to strong vibrations.
- **External contact:** the external contact connection is sensitive to high levels of damp.

HSDIS01: Combustion smoke detector (volatile fine particles)

- **Cooking fumes and vapour:** install the sensor away from cooking equipment.
- **Dust:** do not install the sensor in a dusty environment.

HSDID01: Glass breakage sensor

- **Falling objects:** may generate sound similar to that of breaking glass.
- **Rapid changes in air pressure:** A/C equipment and fans may generate false alarms when turned on.

HSDIW01: Flooding detector

- **Condensation or high humidity:** high humidity may result in condensation forming on the sensor.
- **Dirt:** dirt increases the risk of tripping by high humidity.
- **When I move in front of a volumetric sensor, it does not trip:** volumetric detectors do not retransmit their alarms within 3 minutes of the first occurrence. Wait for at least 3 minutes and try again.

• All Nice Home Security system products

Nearly all products are protected against opening and removal; the areas of attack are usually the cover and base of the device. Improper mounting and closure of the covers can trip a false alarm; this may be intermittent, for example during large changes in temperature.

• The display reads: TURN OFF AND INSERT SIM

- Check that the SIM is properly inserted and completely shut off power and insert the SIM if necessary.
- Check that the SIM card has not expired (some operators deactivate their SIM's after a period of disuse) and that there is sufficient charge (prepaid SIM).

• The display reads: PIN

Power off, remove the SIM and use a cellular phone to disable the PIN request.

• Problems with the dialler test

To run the dialler test, you must have first programmed the vocal and SMS messages.

- If the GSM call is not completed successfully, there may be problems with the GSM coverage; if so, use a different operator or install the control panel in a position with better coverage.
- If the PSTN call is not completed successfully (including ADSL), the cause may be a phone line disturbance: in this case, to force the call, prefix the number with the symbol *, by pressing ▲ (e.g.: *9876543).

DISPOSAL

Disposal of the product

All devices in the alarm system are an integral part of the installation and must be disposed of as a whole. As in installation operations, at the end of the products' lifespan, decommissioning operations must be performed by qualified personnel.

This product is made of various types of materials, some of which can be recycled while others must be scrapped. Find out about recycling and disposal systems in use in your area for this product category.

Caution! – Some parts of the products may contain polluting or hazardous substances which, if released into the environment, may cause serious damage to the environment or to human health.

As indicated by the adjacent symbol, it is strictly forbidden to dispose of these products together with domestic waste.

Separate the waste into categories for disposal, according to the methods established by current legislation in your area, or return the products to the retailer when purchasing a new version.

Caution! – Local regulations may provide for heavy fines if these products are disposed of inappropriately.



Disposal of batteries

Caution! – The batteries used in this alarm system, even when discharged, contain polluting substances and therefore must not be disposed of as household waste. Scrap the batteries according to sorted waste collection procedures as envisaged by current local standards.

9.1 - ACCESS CODES – Caution! If you enter an invalid code 5 times in a row, the keyboard locks up for 3 minutes!

2 access codes are required to work on the control panel, each from 4 to 8 digits: the USER code and the INSTALLER code. They are programmed differently by the installer during commissioning. Once the installation is complete, the user must change the provisional user code entered by the installer, so that the system is operable by him alone. In this way, the installer may only work on the system at a later date if authorised to do so by the user:

Enter the USER code – confirm (**OK**) – scroll down to INSTALLER CODE – enter the INSTALLER code

9.2 - ACCESS LEVELS

Level 1: Open access: anyone can view the display's main screen

Level 2: User access: 4-digit user code required

Level 3: Service access: installer code required to program the control panel

Level 4: Manufacturer access: upgrades may be done only with the control panel deactivated.

9.3 - FUNCTION KEYS

See **fig. A**.

9.4 - USER ACCESS FOR CONFIGURATION (table 1)

Enter the user code followed by **OK** to access the menus for configuring some of the control panel's functions. The procedures are user friendly, as described elsewhere.

9.4.1 - MESSAGES: record/ vocal and SMS messages (see 6.2) for

phone transmission to the phone book numbers when the corresponding events are detected.

9.4.2 - EXTRAS:

- program new remote controls, delete lost units, and modify their operation (see 6.2.9);
- create, delete and modify operational codes (for arming/disarming the control panel) with a variety of restrictions (see 6.2.10);
- set the operation of a supplementary electromechanical key, if installed, as indicated above.

9.4.3 - SETTINGS:

- access the submenus to (see da 6.2.16)
- Isolate (exclude) one or more detectors, whether wireless or wired: their alarms will be logged, but no other action taken.
- Set the date and time
- Change the USER code: do this after installation to have sole access to the system.
- Enable/disable daylight saving time
- Activate permanent display backlighting
- Volume: Adjust the vocal message volume.
- Forced arming: only the installer may use this function, which enables timed arming
- Arming block: not implemented
- See the firmware version on your control panel. It may be updated when needed or to implement additional functions.

9.4.4 - PC REMOTE MANAG: create a code for requesting remote tele service. If the user is off site and needs to connect the control panel to the installer's customer service, he can do so by entering this code on his cellular phone when the control panel answers his call. This disarms the control panel and automati-

A

MEANING AND USE OF FUNCTION KEYS

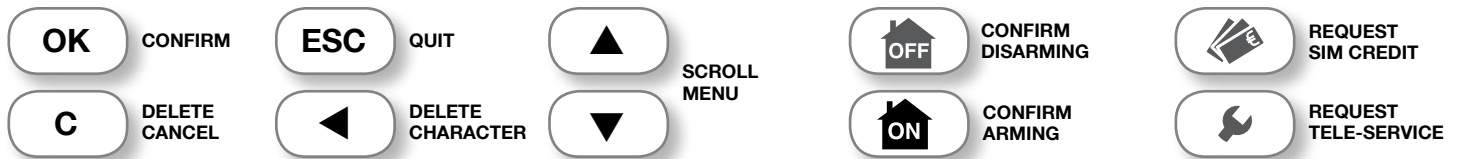
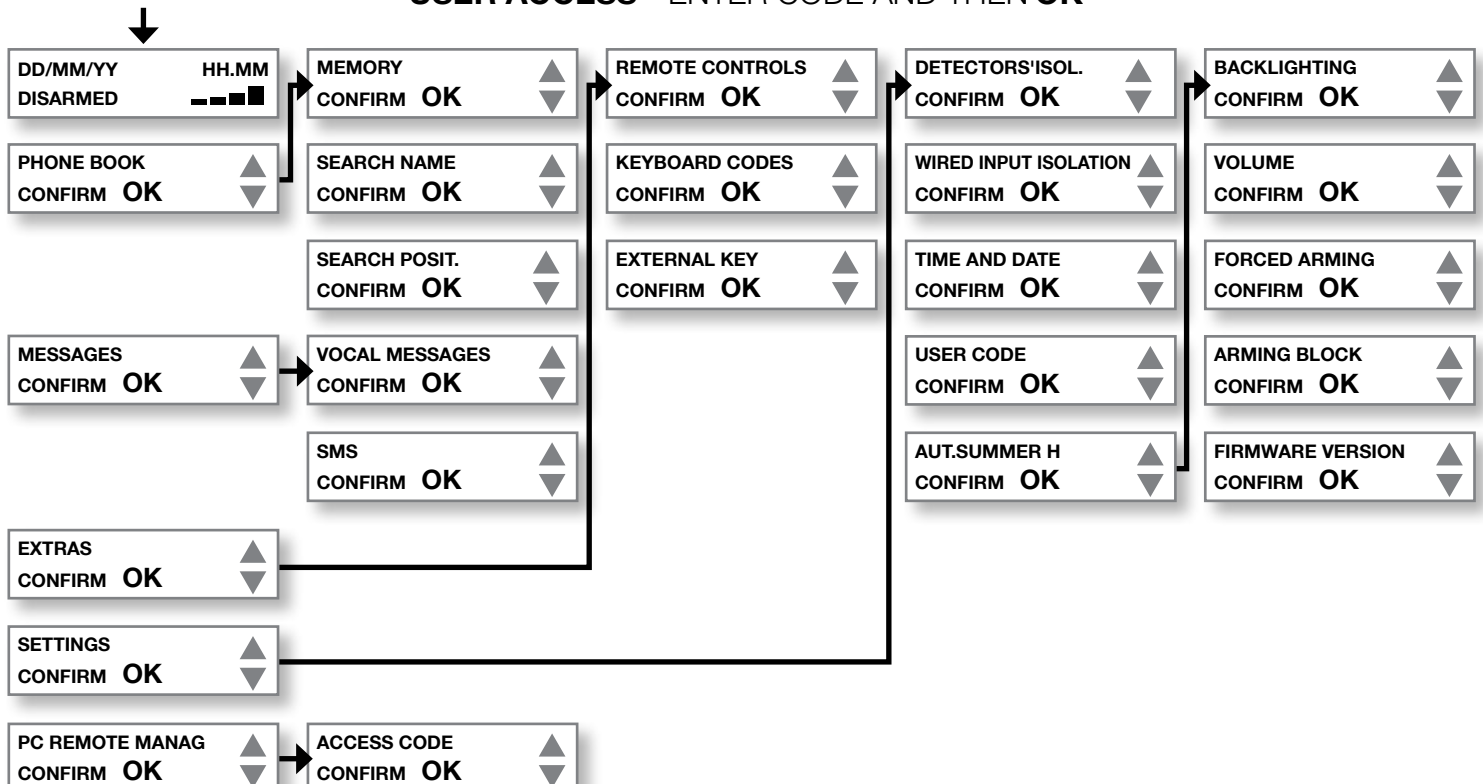


TABLE 1

USER ACCESS - ENTER CODE AND THEN OK



cally activates the service. The control panel is rearmed when the connection with the service centre is dropped. **Caution!** This code may not be the same as the user code: see 6.3.4.

9.4.5 - INSTALLER CODE: the user allows the installer to access the system by entering his code. This ensures that the installer cannot access the system without the user's permission.

9.5 - USER ACCESS FOR OPERATION (table 2)

This type of access is different, as shown, and allows the control panel to be operated.

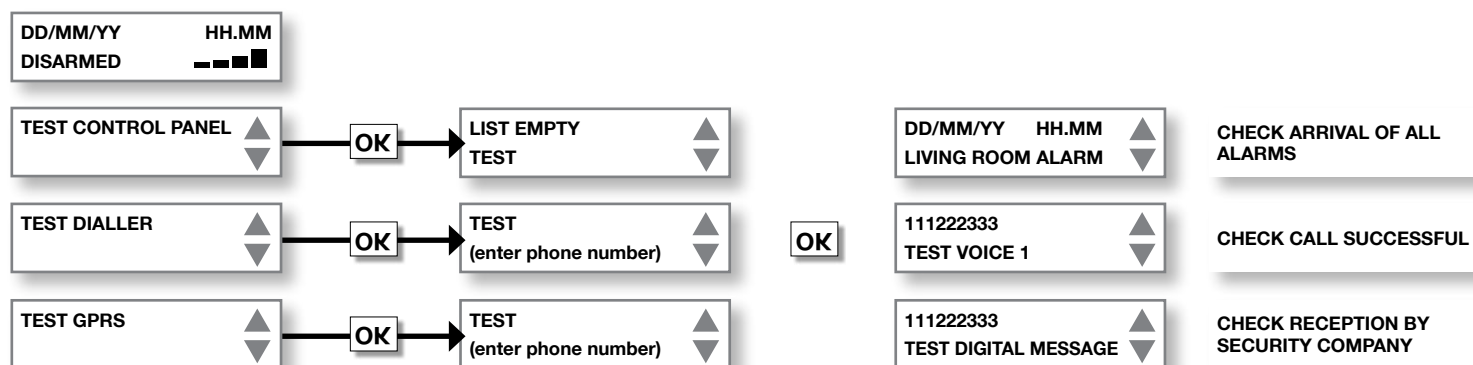
9.5.1 - CONTROL PANEL TEST – USER / INSTALLER – WORK ON THE SYSTEM

There are 4 types of test: CONTROL PANEL (DETECTORS), GPRS (digital transmission to the security company), DIALLER, FIELD METER (installer code required). Accessing the TEST with the USER code does not trip an alarm, but tamper protection remains active. **Caution!** To change batteries or do other work on the system, access TEST with the INSTALLER code, which also deactivates the tamper alarm. This also enables access to the wireless coverage test (FIELD METER 9.5.1.3).

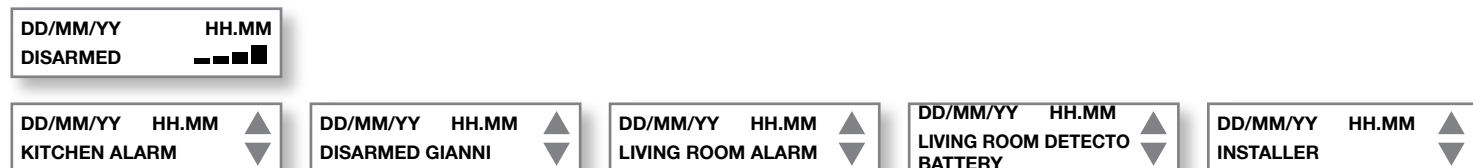
9.5.1.1 - CONTROL PANEL TEST Enter the user or installer code and press **▲**. Select Control Panel with **▲ ▼** and press **OK**. **Procedure:** Try the remote controls and trip the alarms of all detectors by opening protected doors/windows, moving in areas covered by volumetric sensors, violating the IR barriers, and so on, waiting at least 5 seconds between events, up to 99 successive alarms, which are logged. If this is not sufficient to test all detectors, run two separate tests. At the end, check that all alarms have been received and check the CH1 and CH2 radio coverage levels on the display: H = high; M = moderate; L = low. All levels should be considered passable for signal reception, since the test is run with the receiver attenuation provided by the standard. If both of the frequencies fail to receive run a real test: arm the control panel and trip the alarms: since the TEST signal is attenuated as required by the EN50131, the device may be functional after all: if alarms are not received, contact technical service.

TABLE 2

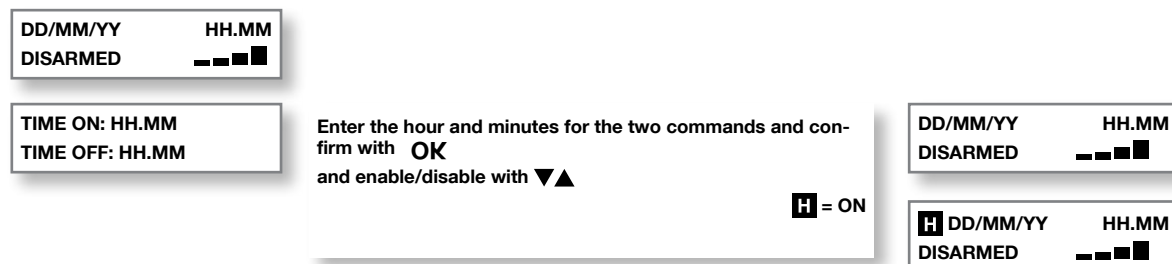
USER ACCESS FOR TEST - ENTER CODE AND PRESS ▲



USER ACCESS TO READ EVENT LOG - ENTER CODE AND PRESS ▼





PROGRAMMING THE TIMING OF RELAY 1 - PRESS ESC



USER ACCESS TO READ WARNING (new event) - ENTER CODE AND PRESS



WIRELESS SIREN TEST: press  to sound the siren if the connection is correct.

9.5.1.2 - DIALLER and GPRS TEST: Enter the user or installer code and press . Select Dialler or GPRS with  and press **OK**. For these tests, simply enter the number to call, press **OK** to dial the number and check that the call is completed successfully.

9.5.1.3 -RADIO RECEPTION TEST: Enter the installer code and press . Select Field Meter with  and press **OK**.

Example: a display reading of:

C1: ■■■■

C2: ■■■■

has the following meaning:

C1 433 MHz signal: excellent (*)

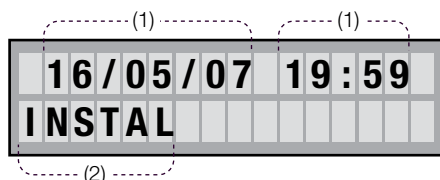
C2 868 MHz signal: very good (*)

(*) N.B. - The signal is sufficient if at least one "z" displays.

Caution! - Constant radio signals on the two channels (C1 and C2) is a sign of radio disturbance which may compromise system operation.

9.5.2 - READING THE EVENT LOG: the control panel logs all operations and events. To read the log, proceed as shown. Some events are abbreviated, as follows:

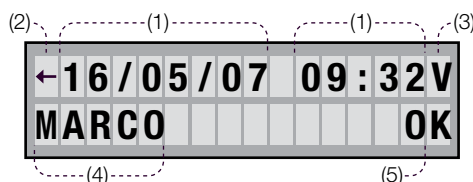
EXAMPLE 1



EXAMPLE 1 - legend

n.	Display	Meaning
(1)		date / time of event
(2)	INSTAL	access to menu with installer code
	USER	access to menu with user code
	NO PSTN LINE	no connection to the PSTN line
	NO GSM NETWORK	no connection to the GSM network
	MAINS FAILURE	no mains power
	CHANGE NUM.	variation by SMS of a number in the phone book
	GSM CHECK	turns the GSM module off/on

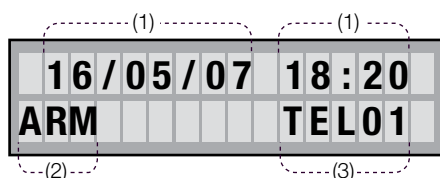
EXAMPLE 2



EXAMPLE 2 - legend

n.	Display	Meaning
(1)		date / time of call
(2)	←	outgoing call
	→	incoming call
(3)	V	vocal message
	S	SMS message
	D	digital protocol message
(4)	(name)	name of contact called (from PHONE BOOK)
	CONTACT ID	call to security company
	INSTALLER	tele service call
	CUSTOMER SERV	call from customer service
(5)	OK	call successful
	KO:	call not successful
	OC	called number occupied
	NO:	call not answered


EXAMPLE 3



EXAMPLE 3 - legend

n.	Display	Meaning
(1)		date / time of event
(2)	ARM	full arming
	ARM A (or B or C)	partial arming
	DISARM	disarming
	EXT AL	external alarm
	D.OPEN	window/door open
	TAMPER	tampering
	ALARM	alarm
	PROG	programming
	SUPERV	supervision failure
	SCAN	radio disturbance
	BATT	low battery
	DELETE	delete
	EXCLUD	out of service
	INCLUD	in service
	Xxxxx (label)	name assigned to peripheral
(3)	TEL	remote control
	COD	keyboard code
	DET	detector
	WIR	wired input
	USER	access to menu with user code
	INSTAL	access to menu with user code
	REMOTE	remote phone operation

9.5.3 - PROGRAMMING TIMED RELAY ACTUATION: the HSCU1C and HSCU1GC control panels have relays which can actuate electrical loads. You can set their start and end of operation times.

9.5.4 - NEW EVENT WARNING: when the display reads AVVISO (WARNING) you can view the event by entering the USER code and pressing . If the cause of the event has been resolved, you can reset the WARNING; if not, it persists.

9.6 - ACCESS FOR MANOEUVRES - ARMING/DISARMING THE CONTROL PANEL

The control panel has 3 intrusion alarm groups which can be armed in any combination, depending on system configuration and the user's requirements. There are also 3 other groups, 24H PANIC – 24H ROBBERY – 24H TECHNOL., which are always active and have their own alarms. The technical zones include smoke, flooding, gas and other hazard detectors.

Caution! 24H PANIC and 24H TECHNOL are not functions that comply with EN50131.

They may be armed/disarmed directly on the control panel, with a wireless keyboard, or using a remote control. To operate from the control panel, you must set up delays on the arming and alarms of the entrance/exit detectors, to prevent false alarms.

9.6.1 - ARMING/DISARMING USING THE CONTROL PANEL

- **Arming:** enter the user code or another authorised code – the three intrusion groups **A B C** display. If you wish to arm them all, press . If you wish to arm only some of them, press **1 (A)**, **2 (B)**, **3 (C)** to exclude the respective group/s (one or two), which disappear from the display, then press to arm the remaining groups. All operations are displayed and confirmed by vocal messages. On the display, the armed groups flash for the duration of their set delays.

- **Disarming:** enter a code as above and press . The operation is confirmed on the display and by a vocal message.

- **New events on arming:** if WARNING displays, the system may only be armed after you have entered the user code and viewed the event, which displays automatically. If the cause is not resolved, the control panel will prompt you to force arming: if you wish to arm the system anyway, press and proceed as above.

- **New events on disarming:** if WARNING displays, after disarming the system you must review the new event: enter the USER code and press .

Caution! If any detectors are tripped during the arming delay, arming is denied and this is shown on the display. If there are non-delayed detectors in the entrance/exit route, wait for the system to arm before leaving it.

Caution! If any delayed detectors are present (delays from 1 to 45 seconds), tripping them only generates an alarm after the delay has timed out, so long as the control panels have not been disarmed in the meantime. If a movement is detected by a delayed detector and by another, non-delayed detector, the alarm will be generated immediately, but the phone messages will only be sent after 30 seconds or, if longer, after the entry time.

9.6.2 - ARMING/DISARMING USING THE CONTROL PANEL

FULL ARMING (vocal message or 3 beeps)

Supplementary keyboards: enter the code then press

Remote controls: press

PARTIAL ARMING (vocal message or one long beep)

Supplementary keyboards: enter the code, exclude unwanted groups with A, B and C and press

Remote controls: press to arm groups A+B (for other solutions, see the remote control instructions)

DISARMING (vocal message or one beep)

Supplementary keyboards: enter the code then press

Remote controls: press

Caution! disarming is always total, unless the remote controls and keyboards are programmed otherwise – to keep a one or more groups active, arm them again after full disarming.

Caution! Models with GSM module (HSCU1GC and HSCU1G): it may be difficult to disarm the system with remote controls/keyboards during a GSM call in response to an alarm. Use the control panel's own keyboard to disarm the system.

AVVISO (WARNING): reports can only be reviewed and reset on the control panel; the remote controls and keyboards cannot be used for this purpose.

Caution! The control panel controls the keyboards' low battery status: after 25 signals or 30 days after the first signal, the devices can no longer be operated if the batteries have not been replaced.

Caution! AUTOMATIC ARMING: automatic arming, if programmed by the installer, is heralded by a long beep a minute before it occurs: any reports are automatically forced.

9.6.3 - COERCED DISARMING: **Caution!** if you disarm the system using an UNDER THREAT code (programmed by the installer) the result is identical, except the phone transmitter calls the associated users. For conformity with the standard, AVVISO (WARNING) appears on the display.

9.6.4 - RELAY 1 AUTOMATIC COMMAND: press ESC to access the clock settings for this command, if used.

9.7 - ALARM FUNCTIONS

In case of an alarm, the control panels activate the internal (removable) siren, the local alarm devices (sirens and other dissuaders) and make calls on the landline and cellular phone lines, as follows

9.7.1 - Control panel sound signals and alarms (see also "Phone section")

- **Voice guide:** Home System control panels speak, and hence provide uncoded pre-recorded information.

- **Pre-alarm:** pre-alarm vocal message during the delay, for delayed detectors.

- **General alarm:** activates the internal siren and all system sirens for three minutes.

- **Panic alarm in "partial arming" or "disarmed" mode (uncertified function):** activates the HSSO1 and HSSI wireless sirens.

- **Robbery alarm:** silent activation of phone calls as programmed. The command may also be used to call a doctor or send out other emergency calls (the proper messages must be recorded).

- **Technological alarm:** control panel beeps for 15 seconds (uncertified function).

- **Tampering alarm (disarmed):** no report, but only the message AVVISO (WARNING) on the display, plus outgoing calls.

- **Tampering alarm (partially/fully armed):** as per general alarm.

Caution! The following must be taken into consideration:

a) In any alarm situation, disarming the system silences the sirens.

b) For each period of arming for groups A, B and C, only three alarms are accepted per detector, to prevent a faulty detector disturbing the peace. The count starts again every time the system is armed. Use the "DETECTORS'ISOL." function (6.2.16) to temporarily deactivate a detector in such cases.

9.7.2 - Two way phone section - phone calls

During the installation process, one records/enters messages and associates them with the phone numbers to be called in case of an alarm: for instance, you can map the numbers of the user, family and friends, or police/emergency forces with an ALARM. There is no point in mapping the number of the installer to the event, on the other hand, it is worth mapping his number to the "battery low" signal. Phone calls to the emergency services must be approved by the user, and are regulated differently from location to location. Depending on the characteristics of the control panel, the messages are transmitted by:

PSTN landline: all control panels allow for transmission of 6 vocal messages, mapped to 6 specific events which are transmitted on the landline to up to 63 users, whose numbers have been entered in the contacts list.

GSM cellular network: models HSCU1GC and HSCU1G, equipped with GSM modules, transmit the same messages on the GSM network, with priority for SMS messages; 11 factory programmed SMS's with technical information are sent following an event. Each of the 63 contact numbers can be mapped to any vocal/SMS messages.

Caution! If an alarm is generated by a delayed detector, the phone calls and SMS's are sent after 30 seconds.

9.7.2.1 - Vocal / SMS messages to record/write: the factory mapping provides 6 main events, which can be varied/modified (see 6.2.2). The installer will program the messages in relation to the events in question. **Caution!** Persons called by the control panel following a new event will listen to (the message is repeated two times) or read the message in uncoded form, and identify its origin from the phone number or the message itself.

9.7.2.2 - Factory programmed SMS's (HSCU1GC and HSCU1G - N.B: messages 6, 7 and 11 on model HSCU1GC only)

The control panels also have 11 technical SMS's, which are sent to the appropriate numbers. See 6.2.5.

Identification: recording and entering the labels of the detectors during programming enables the user to receive messages which exactly identify the device which has generated them.

9.7.2.3 - Phone calls to security companies: the control panels are equipped to use the digital protocols employed by security companies. The protocol must be programmed in accordance with the security company's instructions. If a GSM module is present, the messages can also be transferred to the cellular network.

9.7.2.4 - Tele service calls: the control panels can be enabled to connect automatically to the installer's offices (if he

provides this service) so that he can remotely monitor and adjust the system.

9.8 - USER REMOTE CONTROL - DOMOTIC FUNCTIONS (uncertified characteristics)

All control panels can be called over the landline. Only model HSCU1GC receives GSM calls to the number of its SIM card, since the HSCU1G, which also has GSM, keeps it switched off normally to reduce power consumption, and thus cannot receive calls.

9.8.1 - Message 7 "guide": when you call the control panel you hear this message, recorded during installation to remind the user how to operate the programmed features, by entering numbers and symbols on his handset. The control panel has a variety of functions which cannot be described in full, since they depend on the particular installation.

TABLE A

0 #	Control panel status query with vocal message response
0 * 1 #	Full arming and voice confirmation
0 * 2 #	Partial arming (groups A+B) and vocal message confirmation
0 * 0 #	Disarming and voice confirmation
2 0 * 1 #	(*) Activation of relay n. 1
2 0 * 0 #	(*) Deactivation of relay n. 1
2 0 #	Relay 1 status check (3 beeps = relay active; 1 beep = relay inactive)
2 1 * 1 #	(*) Activation of relay n. 2
2 1 * 0 #	(*) Deactivation of relay n. 2
2 1 #	Relay 2 status check (3 beeps = relay active; 1 beep = relay inactive)
X X * 1 #	ON radio output to receiver n. XX (enter 1 to 16)
X X * 0 #	OFF radio output to receiver n. XX (enter 1 to 16)

(*) **N.B.** - a phone output takes priority over any other outputs; for instance, timer programming for relay 1.

9.8.2 - Calling the control panel on the PSTN line: Caution! The control panel will answer incoming calls on the PSTN line only if guide message 7 has been recorded and/ or it has been programmed with a PC remote management access code: otherwise it will not answer the call. To call the control panel, dial its number and put down after two rings, then call again immediately: the unit answers with the guide message or a beep if no such message has been recorded. Listen to the message, then enter your user code followed by # and proceed to use the various available functions.

9.8.3 - Calls to the on board GSM module (HSCU1GC only): The GSM module immediately answers calls: enter your user code followed by # and proceed to use the various available functions. If the calling number is authorised for direct access, you do not need to enter the user code (see 6.2.7).

9.8.4 - Functions available with CALLS TO THE CONTROL PANEL: see table A

9.8.5 - User called by control panel: in case of alarm followed by a phone call, the person called may interact with the device, for instance by disarming the control panel with the command described above: do not do this if there really has been a break in.



When the control panel calls you, you can interrupt the cycle of subsequent calls by pressing # on your handset after listening to the message and the beep which terminates it.

9.8.6 - Remote modification of contacts list (HSCU1GC only): you can use an SMS from a phone with direct access to modify the numbers in the phone book: to do so, send an SMS message preceded by the letter A followed by the numbers without separating spaces: A333555666 (old number) A333666888 (new number)

The device saves the new number and sends an SMS to confirm: CHANGE MADE *333666888*.

9.8.7 - SIM remaining credit: press € to hear how much credit is remaining on the SIM card (if the number has been programmed - see 6.2.7. You can also obtain remaining credit information remotely from TIM-WIND-VODAFONE, by sending an SMS to the control panel consisting of a single question mark (?) from a cellphone authorised for direct access: the control panel sends back an SMS with the remaining credit, its status and the last logged event, separated by an asterisk. For reasons of security, it is best to use a SIM with automatic recharge.

9.8.8 - Tele listening: when the control panel calls a programmed number of the user calls the control panel, while the PSTN connection is active you can listen to ambient noises in the vicinity of the control panel by pressing * on your handset. Press again * to stop listening and enter commands. If you do nothing for 60 seconds, the call terminates automatically.

9.8.9 - Live conversation - models HSCU1GC and HSCU1G only with control panel disarmed: press * on your handset to converse live during a call to the control panel, or make a call from the control panel as if it were a cellular phone: press  to connect, enter a phone number within 1 minute, then press OK. To terminate the call press ESC or .

Caution! The HSCU1G can be used to make phone calls, but you must wait for the GSM module to activate.

9.8.10 - Other control panel functions

- Remote listening: you can listen to the control panel's vocal messages in another area by installing a powered microphone

- Low (< 10°C) or high (>55°C) temperature warning. See 6.2.2

Control panels with GSM have other automatic functions, to be programmed during installation:

- SMS power failure/restoration warning (model HSCU1GC only)
- periodic transmission of an SMS to indicate that the control panel is present (models HSCU1GC and HSCU1G only)
- notification of SIM validity (HSCU1GC and HSCU1G only) - we advise using SIM cards without expiry date.

9.9 - USER INFORMATION

This manual describes the extraordinary functionality of Nice Home System products as completely as possible. Many functions depend on the installation itself, its programming and proper maintenance of the system. The installer must supplement this manual in such a way that the user has the described operability.

Nice is available for information and support, but is not liable for the use/failure to use the wide range of function made possible by the equipment. In particular:

a) unreported or insufficiently reported criminal activity: this may happen for a wide variety of reasons, such as damaged or dead batteries, insufficient alarm equipment, no SIM card charge, unavailability of a phone connection, faulty selection/positioning of the detectors, failure to arm the system, other problems which were reported but not resolved, and so on (the list is illustrative and by no means exhaustive).

b) incorrect alarm signals. These are of two types: a) false alarms, due to component malfunctions; b) false alarms due to environmental phenomena of various types or improper installation. If the material is ascertained to be faulty, the manufacturer's warranty, as published online and in his catalogues, applies. If the material is not faulty, the solution must be provided by whoever sold and installed the equipment.

c) partial or total lack of functionality as described: this manual describes a control panel complete with all accessories and peripherals, any failures may be due to an incomplete installation, programming or activation of the functions. Nice staff are at your disposal for technical support in this regard.

For further information, please go to www.niceforyou.com

Models HSCU1GC - HSCU1C TECHNICAL CHARACTERISTICS – CLASS II DEVICES**10.1 - POWER SUPPLY, BATTERIES AND SYSTEM AUTONOMY**

Primary power: the control panels have type A power supplies with the following specifications:

- Input voltage: 230V AC -15%+10% - 50/60 Hz – draw 0.15 A
- Output voltage: 14.4 V DC – ripple max 27 mVpp
- Max. current delivery: 0.75A

Electronic card draw: 0.06A

- Max. current available for wired peripherals (do not exceed!): 0.12A
- Max. current available for backup battery charging: 0.57A

Secondary power: standard sealed/rechargeable lead acid battery, 12V 2.2Ah - flammability class UL94-HB

- Max. autonomy during power failure (compliant with EN 50131-3:2009): 12 h
- Max. recharge time (compliant with EN 50131-3:2009): 3 h
- Battery low charge warning at 10.9V and charged indication at 11.4V

10.2 - ELECTRONICS COMMON TO BOTH CONTROL UITS

The 3015 (HSCU1GC) - 30152 (HSCU1C) electronics cards are connected to:

- power cable connector 14.4V and 12V
- internal siren connector

The following may be connected to the cards:

- a PC for programming, using cable code HSA1 (temporary connection)
- pre-amplified microphone for remote listening in another room
- PSTN incoming phone connector, directly from the outside line. Alternatively, a HSA2 card for extending the phone line inwards
- all cables required to install wired peripherals, connected to the main terminal block.

The unit has a slot for a removable non-volatile EEPROM, can be used to avoid losing data when the control panel is replaced. A SIM card must be inserted in its other slot (model HSCU1GC).

10.3 - OTHER TECHNICAL SPECIFICATIONS

Current draw: 55mA in stand-by and without wired connections - 125mA with display backlighting - 500mA in alarm

Alarm inputs

- **wireless:** up to 99 programmable detectors, immediate, delayed or AND, over 3 alarm groups A-B-C or the 24H PANIC, ROBB. and TECHN. AL. groups.
- **wired:** 6 double balanced lines (1-6), freely programmable over the 6 groups A, B, C, P (Panic), R (Robbery), T (Technical). 1 balanced input for FAULT warnings (24H)

Wireless tampering: receives the tamper signal from each detector - receives the "present" signal every 28 minutes and the low battery signal (SUPERVISION) when appropriate.

Alarm outputs:

- **wireless:** 72 bit coded digital signals for "alarm" - "full arming" - "partial arming" - "disarming" + 16 custom coded commands
- **wired:** 1 for siren command 12V 0.5A - 1 for self-powered siren 14V - 1 for on-board siren

Supplementary outputs: two programmable relays for accessory free exchange functions max. 500mA 12V.

Control inputs: 1 for connection of supplementary electronic/electro-mechanical arming controller with at least 300 combinations

RF anomalies: continuous, simultaneous and programmable monitoring of the two working frequencies

Event log: last 200 events, FIFO – non volatile memory.

Timers: programmable delays from 1 to 99 seconds - programmable input delay on each detector, 1 to 45 seconds - general alarm time 3 minutes fixed - programmable 24 h clock

Displays: 2 x 16 character display, identification of each peripheral

Commands: 20-key alphanumeric keyboard

Internal siren: 106 dB alarms siren

Acoustic information: vocal messages for installation and user information + low volume buzzer

RF reception/transmission: quartz controlled DualBand – 72 bit factory coded digital codes self-learned by microprocessor - legally compliant frequency and power

Wireless range: 100m free range without background disturbance on band - wireless range may be considerably reduced in interiors, partly due to the location of the devices relative to the building structures.

Phone section: see chapter 10.7

Dimensions: 307 x 200 x 53mm

Weight: 2.1 kg

Enclosure: ByBlend

Temperature: operating/storage -10° to +40°C - Humidity 95%

Models HSCU1G - HSCU1: TECHNICAL SPECIFICATIONS**10.4 - Models HSCU1G – HSCU1: ALKALI BATTERY POWERED (code HSPS1)**

- Output voltage: 9V
- Output voltage: > 12Ah

Battery life: the battery life is inversely proportional to the number of peripherals, that of peripherals of other contiguous systems (in radio range) and the number of operations effected on a regular basis.

We give below the mean battery life in months, considering 2 arming and 2 disarming procedures a day and 12 alarms a year:

Number of peripherals	HSCU1G - HSCU1 GSM	HSCU1
10	39	41
20	31	32
30	25	26
40	21	22

10.5 - ELECTRONICS COMMON TO BOTH CONTROL UITS

The 3015 (HSCU1G) - 30152 (HSCU1) electronics cards are connected to:

- irreversible 9V power cable connector to battery pack
- internal siren connector

The following may be connected to the cards:

- a PC for programming, using cable code HSA1 (temporary connection)
- PSTN incoming phone connector, directly from the outside line. Alternatively, a HSA2 card for extending the phone line inwards

The unit has a slot for a removable non-volatile EEPROM, can be used to avoid losing data when the control panel is replaced. A SIM card must be inserted in the other slot (model HSCU1G).

10.6 - OTHER TECHNICAL SPECIFICATIONS

Current draw: 180 - 220uA in stand-by - max 400mA in alarm with GSM operating - max 200mA with PSTN operating

Wireless alarm inputs: up to 99 programmable detectors, immediate, delayed or AND, over 3 alarm groups A-B-C (wireless only) or the 24H PANIC, ROBB. and TECHN. AL. groups.

Tampering: receives the tamper signal from each detector - receives the "present" signal every 28 minutes and the low battery signal (SUPERVISION) when appropriate.

Alarm outputs: 72 bit coded digital signals for "alarm" - "full arming" - "partial arming" - "disarming" + 16 custom coded commands

RF anomalies: continuous, simultaneous and programmable monitoring of the two working frequencies

Event log: last 200 events, FIFO – non volatile memory

Timers: programmable delays from 1 to 99 seconds - programmable input delay on each detector, 1 to 45 seconds - general alarm time 3 minutes fixed - programmable 24 h clock

Displays: 2 x 16 character display, identification of each peripheral

Commands: 20-key alphanumeric keyboard

Internal siren: 106 dB alarm siren + low volume warning buzzer

Acoustic signals: vocal messages for the user and installation guide

RF reception/transmission: quartz controlled DualBand – 72 bit

factory coded digital codes self-learnt by microprocessor - legally compliant frequency and power

Wireless range: 100m free range without background disturbance on band - wireless range may be considerably reduced in interiors, partly due to the location of the devices relative to the building structures.

Wired connection: PSTN phone line (ADSL as well with suitable filters)

Phone section: see chapter 10.7

Dimensions: 307 x 200 x 53mm

Weight: 2.4 kg

Enclosure: ByBlend

Temperature: operating/storage -10° to +40°C

10.7 - INTEGRAL PHONE TRANSMITTERS - SPECIFICATIONS

All control panels have a PSTN phone transmitter (landline) compliant with ETSI ES 203-21 & RTTE using the ATS 1 transmission system and emissions per EN 61000-6-3. The operating time is 12 seconds for voice transmissions and 19 seconds for Contact-Id digital transmissions. For the functional aspects, see chapter 6, 9.

The HSCU1GC and HSCU1G units also have a GSM transmitter, compliant with ETSI ES 203-21 & RTTE with ATS1 transmission system and emissions per EN 61000-6-3. The operating time is 14 seconds for voice transmissions and 14 seconds for Contact-Id digital transmissions. For the functional aspects, see chapter 6.3.

For programming the numbers, messages and their characteristics, see chapters 6.2.1 to 6.2.7.

Caution! - In model HSCU1G the GSM module is normally off to save power: it turns on and connects to the GSM network when an alarm is generated. The time taken to do this does not depend on the device and varies according to location, and must be added to the above timings.

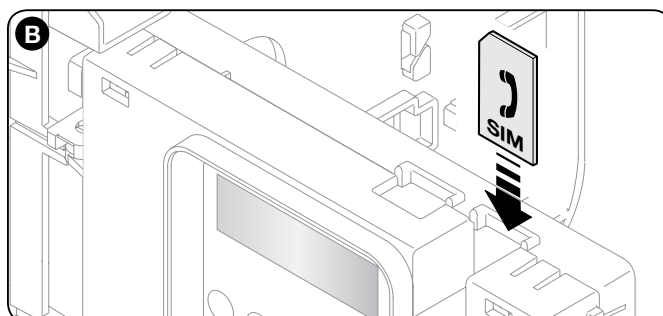
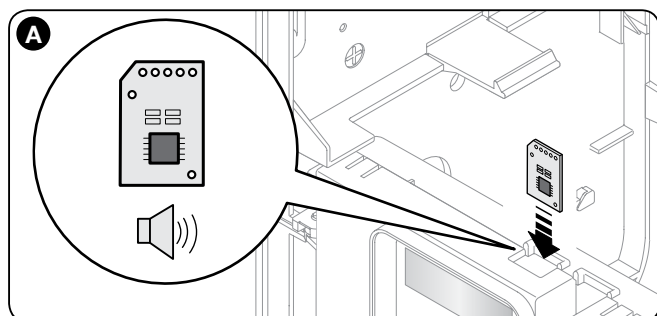
10.7.1 - PSTN CONNECTION: the outside phone line must enter the control panel directly without intervening equipment, and be connected via the provided connector. If card HSA2 is added, the outside line must be connected to the input terminals and the equipment downline of the control panel to the output terminals.

10.7.2 - INTEGRAL GSM MODULE: manufacturer: Telit code GE864QuadV2 compliant with ETSI ES 203-21 and RTTE with ATS 2 transmission system and emissions per EN 61000-6-3. The operating time is 12 seconds for voice transmissions and 10 seconds for Contact-Id digital transmissions.

QUICK PROGRAMMING GUIDE

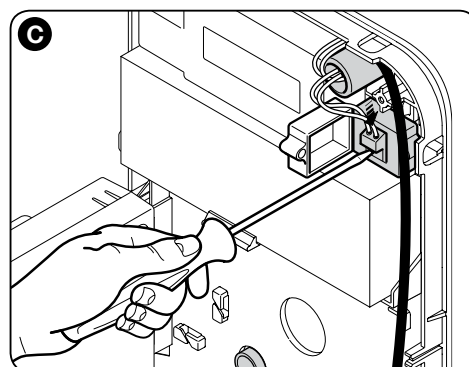
Before powering the control panel up and programming it, insert the memory card into its slot (**fig. A**) and the SIM card into its slot (if present) (**fig. B**).

The SIM card must not be restricted (PIN and locks) if it is to operate automatically (if you cannot exclude the SIM card's PIN, set it to 1234 with a cellular phone).



After making all electrical connections (**fig. C**), program the unit as follows:

- Turn its power on;
- Select the menu language;
- Enter the **FACTORY CODE** (0000) followed by OK;
- Set the **TIME and DATE**;
- Set the **USER CODE** (4/8 digits);
- Set the **INSTALLER CODE** (4/8 digits). **Important! – The installer code may not be the same as the user code.**
- You can now enter the programming menu.



To do so, enter the USER CODE or INSTALLER CODE followed by **OK**.

Note:

- To scroll through the menus, use ▲ ▼.
- Press **OK** to select options.
- To select groups A, B and C, use the numeric keys 1 to 6.

COMPLETE MENU OF HSCU1 CONTROL PANELS

Warnings:

- The INSTALLER CODE accesses all menus.
- The USER CODE only accesses menus marked with the asterisk (*).

PHONE BOOK	MESSAGES	EXTRAS	SETTINGS
MEMORY (*) SEARCH NAME (*) SEARCH POSIT. (*)	VOCAL MESSAGES (**) SMS MESSAGES (*)	REMOTE CONTROLS (*) KEYBOARD CODES (*) ALARM GROUP A ALARM GROUP B ALARM GROUP C 24H PANIC AL. 24H ROBB. AL. 24H TECHN. AL. WIRED INPUTS EXTERNAL KEY (*)	WIRED INPUT ISOLATION (*) RELAY1 SETTINGS (*) RELAY 2 SETTINGS RADIO OUTPUT GSM TEL LINE MAINS FAILURE PERIODIC CALL SIM VALIDITY TIME AND DATE (*) TEL. EXCHANGE CODE (*) ANTISCANNER SUPERVISION EXIT TIME AUTOMATIC SUMMER H (*) BACKLIGHTING (*) VOLUME (*) FORCED ARMING (*) FW VERSION (*) SYSTEM RESET



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