



NHEA GB2 TERMINAL



USER MANUAI

TNHEA GB2 EN REV.0217

INTRODUCTION

First of all, we thank and congratulate you for purchasing this product.

Our commitment to achieving the satisfaction of customers like you is manifested through our ISO-9001 certification and the manufacture of products like the one you have just purchased.

Its advanced technology and strict quality control will ensure that customers and users enjoy the numerous features that this device offers. To get the most out of them and ensure proper operation from day one, we recommend that you read this instruction manual.

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SAFETY PRECAUTIONS

- Always disconnect the power supply before making modifications to the device.

- The fitting and handling of these devices must be carried out by authorised personnel.
- The wiring must run at least 40cm away from any other wiring.
- Do not overtighten the screws on the connector.
- Install the Nhea terminal in a dry protected location free from the risk of dripping or splashing water.
- Do not place in humid, dusty or smoky locations, or near sources of heat.
- Before connecting the device to the mains, check the connections between the door panel, power supply and Nhea terminals.
- Always follow the instructions contained in this manual.

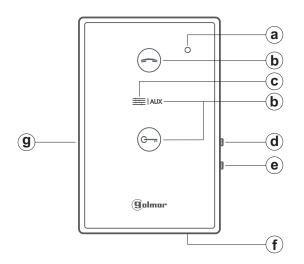
CHARACTERISTICS

- Nhea hands-free audio terminal with simplified installation (non-polarised 2 wire bus).
- Up to 4 Nhea terminals/monitors per apartment (master, slave 1, slave 2 and slave 3).
- Up to 32 apartments/Nhea terminals per installation.
- Up to 128 apartments/Nhea terminals per installation and maximum 1 Nhea terminal per apartment (EL632 GB2A/EL642 GB2A sound module required).
- Completely private conversation.
- Call reception volume control (high and low).
- Audio volume control (high and low).
- Input for calls from the interior door of the apartment.
- Different ringtones to identify the origin of the call (door panel, intercom or apartment door).
- Button motion and intercom calls (within the same apartment).
- Button G- for lock release 1 activation.
- Button AUX for lock release release 2 activation/'do not disturb' mode/ light activation (SAR-GB2 and SAR-12/24 modules required).
- Button 🗮 for configuring ringtones.
- Dip switches for setting the terminal address (call code), master/slave and end of line.

SYSTEM OPERATION

- To make a call, the visitor needs to press the button for the apartment, an audible tone indicates that the call is being made and LED a on the door panel illuminates. If vocal synthesis is enabled, a 'Call is in progress' message appears indicating that a call is being made. At this moment, the apartment's terminal(s) receives the call. If another apartment is called by mistake, press the button for the correct apartment and the first call will be cancelled.
- The call lasts for 40 seconds. If the call is not answered within 40 seconds, LED 👵 will turn off and the channel will be freed.
- To establish communication, press button (-) on any terminal in the apartment and door panel LED 🕽 will illuminate.
- Communication will last for one and a half minutes or until button is pressed again. When communication has finished, LEDs and will turn off and the channel will be freed. If vocal synthesis is activated, a 'Communication is finished' message will indicate that the call is over.
- To open the door, press button () (if it exists and, to open the second door, press button AUX) during the call or communication processes: one press activates the lock release for five seconds and LED () on the door panel will also illuminate for five seconds. If vocal synthesis is enabled, a 'Door Opened!' message will be indicated on the door panel.
- Description of the function buttons can be found on p. 4.

Description:



- a. Status LED.
- **b.**Function push button.
- c. Ringtone settings button.
- d. Audio volume control switch.
- e. Ringtone volume control switch.
- f. Microphone.
- g. Speaker.

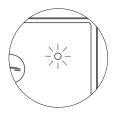
Function push button:

Start/stop communication button. In standby: Press for 3 seconds to make an intercom call (same apartment).

During call reception and communication processes, it enables look release 1 to be activated.

Status LED:

(œ___)

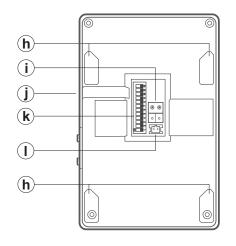


LED off: Terminal without power. LED on: Terminal with power. Intermittent LED: Terminal in 'do not disturb' mode.

Audio volume control:



The terminal has a communication audio volume control with maximum and minimum volume settings.



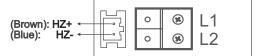
h.Connector fixings.

- i. Bus connection terminals.
- j. Horizontal cable entry.
- **k.**DIP switch.
- I. Hz connector.
- AUX During call reception and communication processes, it enables look release 2 to be activated. In standby: A short press activates the light (SAR-GB2 and SAR-12/24 modules required).

Press for 3 seconds to activate/deactivate 'do not disturb' mode.

Ringtone settings button. In standby: Press for 3 seconds to enable the ringtones to be set.

Description of connection terminals:



L1, L2: Bus connection **HZ+, HZ-:** Door bell connection.

Call volume control:



The terminal has a call volume control with maximum and minimum volume settings.

Description of the DIP switch and configuration of the Nhea terminal address (code):

DIP 1 to DIP 5: Configure the Nhea terminal address (up to 32 addresses).

DIP 1 to DIP 7: With DIP 10 set to ON, it enables the Nhea terminal address to be configured (up to 128 addresses).

The switches set to OFF have a zero value.

The values of the switches set to ON are shown in the table below.

The Nhea terminal code is the sum of the values of the switches set to ON.

Table of values (DIP 10 to OFF)

Switch number: 1	2	3	4	5
Value when ON: 1	2	4	8	16



Table of values (DIP 10 to ON)

Switch number: 1 2 3 4 5 6 7 Value when ON: 1 2 4 8 16 32 64



Example: 1+2+4+0+0+0+64 = 71

DIP 8 and DIP 9: Set the Nhea terminal as master/slave. DIP 8 and DIP 9 to OFF master, DIP 8 to ON and DIP 9 to OFF slave 1, DIP 8 to OFF and DIP 9 to ON slave 2, DIP 8 and DIP 9 to ON slave 3. **If DIP 10 to ON, the Nhea terminal is always 'master'.**

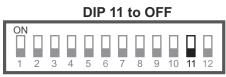
DIP 10: Leave in the OFF position for installations of up to 32 Nhea terminals (DIP 6 and DIP 7 without function). Set to ON for installations of up to 128 Nhea terminals (**EL632 GB2A/EL642 GB2A sound module required**), DIP 8 and DIP 9 have no function, the Nhea terminal is always 'master' (maximum 1 Nhea terminal per apartment).

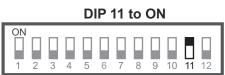
DIP 11: Configures the end of line. It should always be set to OFF in installations with only Nhea terminals. In mixed installations with Nhea terminals in the same apartment, set to ON for the terminals in which the BUS cable ends and set to OFF for intermediate terminals.

DIP 12: Leave in the OFF position (no function).

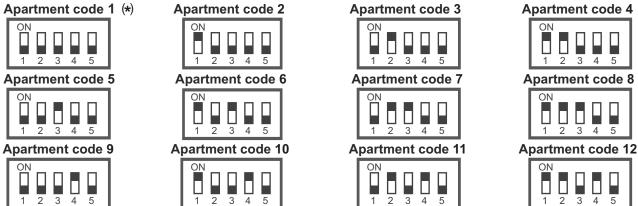
Configuration of Nhea terminal address codes (up to 32 addresses):

DIP 11: Configures the end of line. It should always be set to OFF in installations with only Nhea terminals. In mixed installations with Nhea terminals in the same apartment, set to ON for the terminals in which the BUS cable ends and set to OFF for intermediate terminals.





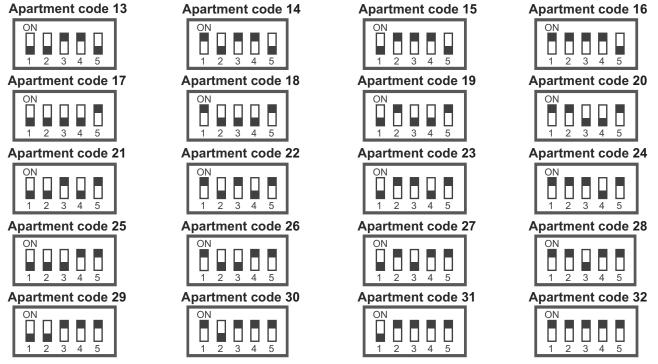
DIP 1 to DIP 5: To configure the Nhea terminal/apartment address (up to 32 addresses) and DIP 10 to OFF.



IMPORTANT: In coded panel systems (N3301/GB2), an EL632 GB2A/EL642 GB2A sound module is required and must be configured to 'operating mode 5' (see door panel manual).

(*) -In door panel systems with call buttons, the first address on the Nhea terminal is 'Code 0' (see door panel manual).
-In coded panel systems (N3301/GB2), 'Code 0' is 'Code 32', which means that when a call is made to a Nhea terminal with 'Code 0' (DIP 1 to DIP 5 set to OFF), it needs to be entered 3 2 an on the N3301/GB2 numeric keypad (see door panel manual).
In the software (Address Manager GB2), 'Code 0' is also shown as 'Code 32'.

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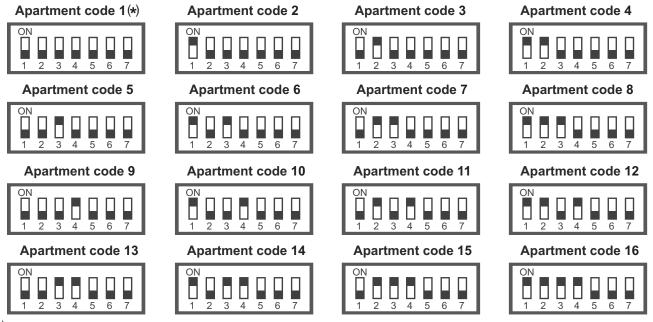


Configuration of Nhea terminal address codes (up to 128 addresses):

- Up to 128 apartments/Nhea terminals per 'audio only' installation (EL632 GB2A/EL642 GB2A sound module required and button panel must be set to 'operating mode 2' or coded panel to 'operating mode 6', see corresponding door panel manual). DIP 10 ON and DIP 11 OFF
- DIP 10: Set to ON for 'audio only' installations of up to 128 Nhea terminals.
- **DIP 11:** Configures the end of line. It should always be set to **OFF** in installations with only Nhea terminals.

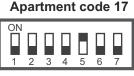
			10		a	iu i	חוכ			- F	
ON											
1	2	2	4	5	6	7	0	9	10	11	12
1	2	3	4	5	0	/	0	9	10	11	12

DIP 1 to DIP 7: To configure the Nhea terminal/apartment address (up to 128 addresses).



(*) -In door panel systems with call buttons, the first address on the Nhea terminal is 'Code 0' (see door panel manual).
-In coded panel systems (N3301/GB2), 'Code 0' is 'Code 128', which means that when a call is made to an Nhea terminal with 'Code 0' (DIP 1 to DIP 7 set to OFF), it needs to be entered 1 2 8 an on the N3301/GB2 numeric keypad (see door panel manual).
-In the software (Address Manager GB2), 'Code 0' is also shown as 'Code 128'.





Apartment code 21



Apartment code 25



Apartment code 29



Apartment code 33



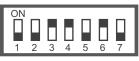
Apartment code 37



Apartment code 41



Apartment code 45



Apartment code 49

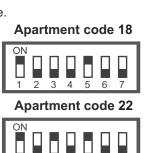


Apartment code 53



Apartment code 57





Apartment code 26 ON

2

3 4 5 6

7



Apartment code 30



Apartment code 34



Apartment code 38



Apartment code 42



Apartment code 46



Apartment code 50

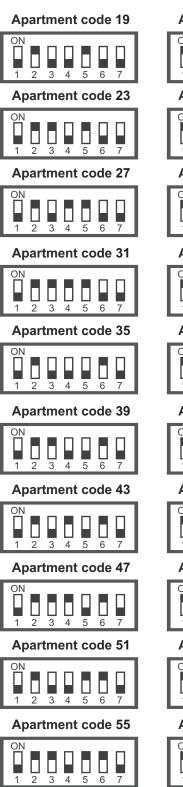


Apartment code 54



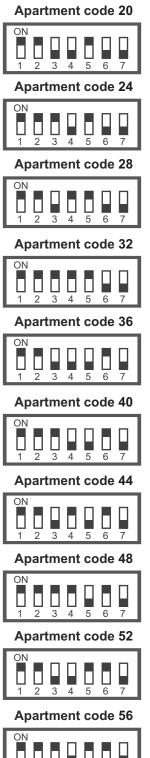
Apartment code 58





Apartment code 59



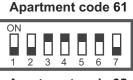




Apartment code 60

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Apartment code 65





Apartment code 73



Apartment code 77



Apartment code 81



Apartment code 85



Apartment code 89



Apartment code 93

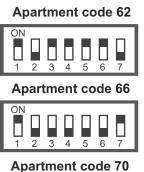


Apartment code 97



Apartment code 101







Apartment code 74



Apartment code 78



Apartment code 82



Apartment code 86



Apartment code 90



Apartment code 94

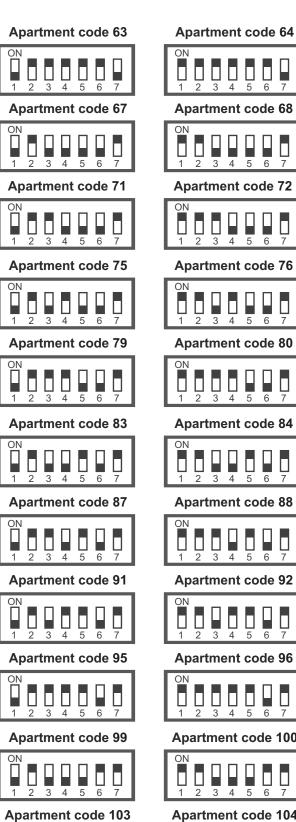


Apartment code 98



Apartment code 102







 \Box Ш Ш Ш 2 3 4 5 6 Apartment code 68 ON 3 4 5 6 Apartment code 72 ON 3 4 5 6 Apartment code 76 ON 3 4 5 6 Π Π 2 Apartment code 80 ON Π **3** 4 5 \Box 6 2 Apartment code 84 ON



Apartment code 88



Apartment code 92



Apartment code 96



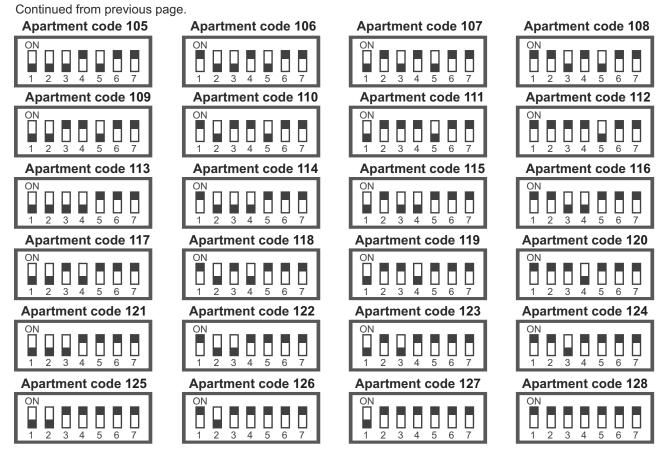
Apartment code 100



Apartment code 104



Continued overleaf



Description of front LED functions:

The Nhea GB2 terminal has a status LED, and LEDs on function buttons (-) and (-) to indicate the status of the terminal.

		LED (Gran	STATUS LED	
Standby (no power)	OFF	OFF	OFF	
Standby (with power)	OFF	OFF	ON	
'Do not disturb' mode activated	OFF	OFF	Blinking	
Call from door panel (ringtone in terminal)	Rapid blink	ON	ON	
Communication with door panel	Slow blink	ON	ON	
Call from terminal (ringtone in terminal)	Rapid blink	ON	ON	
Communication with terminal	Slow blink	ON	ON	
Ringtone settings mode	Slow blink	Slow blink	ON Blinking	
Call from apartment door (ringtone in terminal)	OFF	OFF	ON	

Setting the ringtones:

Description:

To change the terminal's ringtones (door panel, intercom and apartment door), press settings button

There are three ringtone selection groups and each consists of three fixed tones. The first tone of each group heard during selection corresponds to door panel calls, the second to intercom calls and the third to apartment door calls.

Setting and selecting the ringtone group:

The terminal must be in standby to set and select the ringtone group.

- To change the ringtones, press button for 3 seconds. The LEDs on buttons (and will blink to indicate that the terminal is in settings mode.
- To change the ringtone group, press the configuration button the required ringtone group can be heard (up to 3 ringtone groups available in carousel mode).
- To exit and save the selected ringtone group, press button (-) and the LEDs on buttons (-) and (-) will turn off. The terminal exits settings mode after 7 seconds of inactivity and saves the last ringtone group selected.

Make a call to check that the correct ringtone group has been selected.

Intercom function:

Intercom functionality between two points in the same apartment comes as standard with the Nhea GB2 terminal.

The terminal must be in standby to make intercom calls.

To make an intercom call, press button 🕝 for 3 seconds. The LED on button 🕝 will blink, the LED on button 🕞 will light up and the terminal(s) being called in the apartment will ring to confirm that the call is being made.

The call needs to be answered within 40 seconds.

To establish communication, press button 💬 on the terminal called (or one of the terminals called if there is more than one slave terminal).

Communication will last for one and a half minutes or until button (-) is pressed again.

'Do not disturb' mode function:

The terminal must be in standby to activate/deactivate 'Do not disturb' mode.

To activate 'Do not disturb' mode, press button AUX for 3 seconds. The terminal's status LED will then blink to indicate that the function is activated. The terminal will not receive door panel, intercom or apartment door calls.

More than one terminal in the same apartment: Activating do not disturb mode in the master terminal will not allow calls from the door panel to be received in the apartment. If do not disturb mode is activated in a slave terminal (not in the master terminal), it will allow calls from the door panel to be received in the apartment except in the slave terminal with do not disturb mode activated.

To deactivate do not disturb mode, press button AUX for 3 seconds. The terminal's status LED will then light up to indicate that the function is deactivated. The terminal will now receive door panel, intercom and apartment door calls.

Light activation function:

The terminal must be in standby for light activation (SAR-GB2 and SAR-12/24 modules required).

For light activation (e.g. 'staircase light'), press button AUX .

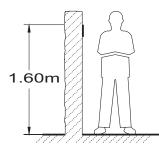
Important: For connections and configuration, see the TSAR-GB2 and TSAR-12/24 manuals.

INSTALLING THE TERMINAL IN A WALL MOUNTING CONNECTOR

Avoid dusty or smoky environments or locations near sources of heat.

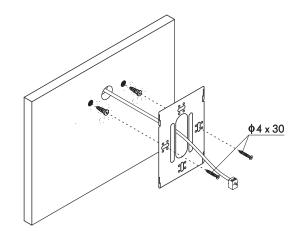
Positioning the wall mounting connector:

The top of the wall mounting connector should be located at a height of 1.60m from the ground. The minimum distance between the wall mounting connector and the closest object must be 5 cm.



Fixing the terminal's wall mounting connector to the wall:

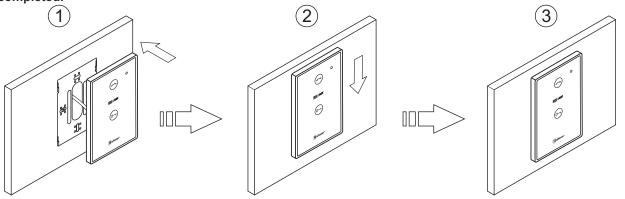
Fix the terminal's wall mounting connector to the wall by drilling two 6mm diameter holes and using the screws and plugs supplied with the terminal.



Positioning the terminal:

Connect the cables to the terminal (see p. 4), position the terminal in front of the wall mounting connector, ensuring that the holes in the base of the terminal line up with those on the connector (1), and then move the terminal downwards (2) until the terminal is securely fixed to the connector (3).

Remember to remove the protective covering from the front of the terminal once installation has been completed.

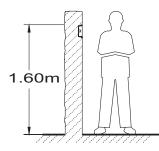


INSTALLATION OF THE TERMINAL IN AN EMBEDDING BOX

Avoid dusty or smoky environments or locations near sources of heat.

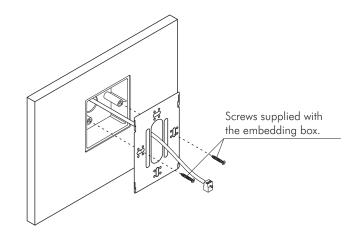
Positioning the embedding box:

Make a hole in the wall to position the top of the universal embedding box at a height of 1.60 m from the ground. The minimum distance between the sides of the embedding box and the closest object must be 5 cm.



Positioning the embedding box and fitting the wall mounting connector:

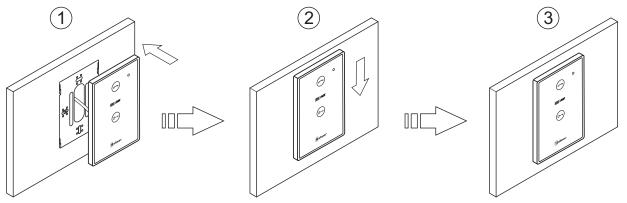
Pass the cable through the hole made in the embedding box. Embed the box and ensure that it is level and flush. Fix the wall mounting connector of the terminal to the embedding box with the screws supplied.



Positioning the terminal:

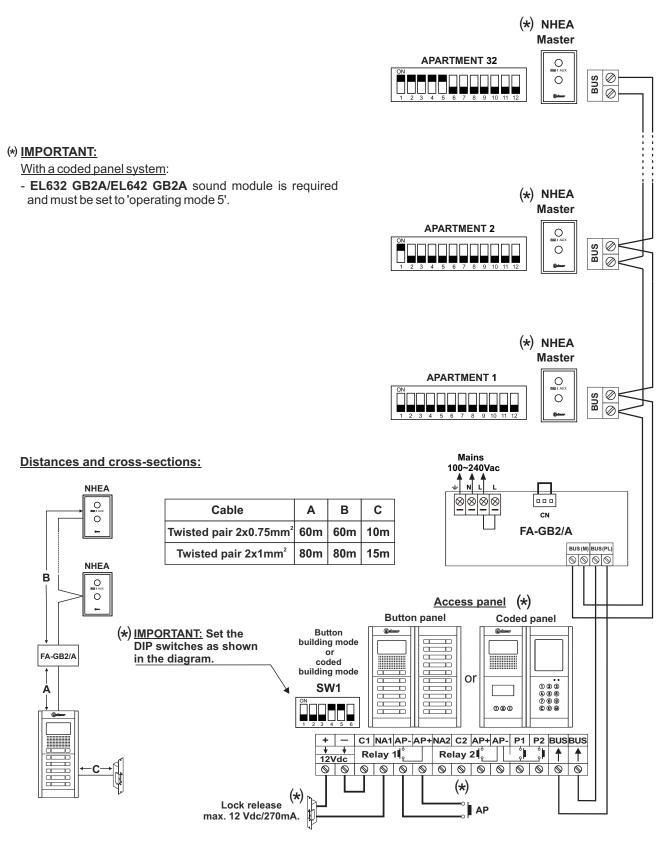
Connect the cables to the terminal (see p. 4), position the terminal in front of the wall mounting connector, ensuring that the holes in the base of the terminal line up with those on the connector (1), and then move the terminal downwards (2) until the terminal is securely fixed to the connector (3).

Remember to remove the protective covering from the front of the terminal once installation has been completed.



WIRING DIAGRAMS

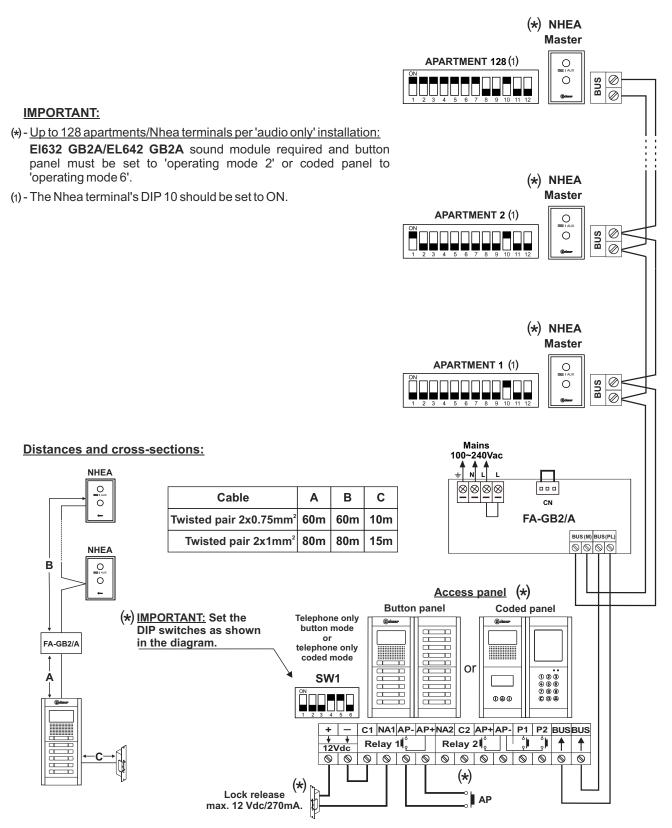
Installation with 32 apartments/NHEA GB2 terminals and Golmar DC lock release:



(*) For more information about the door panel, installation, configuration, connection of an AC lock release, 2nd lock release or mixed installation with monitors and Nhea terminals, see the corresponding door panel manual.

WIRING DIAGRAMS

Audio door entry system with 128 apartments/NHEA GB2 terminals and Golmar DC lock release:



(*) For more information about the door panel, installation, configuration, connection of an AC lock release, 2nd lock release or mixed installation with monitors and Nhea terminals, see the corresponding door panel manual.

