G2+

TECHNOLOGY

MANUAL DE USUARIO

ART 1 G2+ TERMINAL



Code 50122529

TART 1/G2+ EN REV.0121

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 ART 1/G2+ 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 & ART 1/G2+ terminals.
- Always follow the instructions contained in this manual.

CHARACTERISTICS

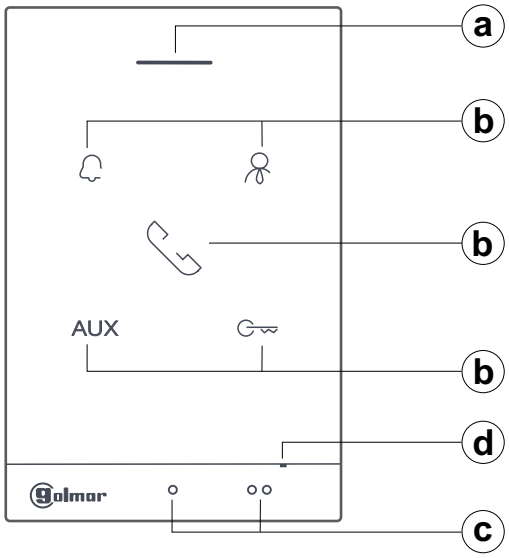
- ART 1 hands-free audio terminal with simplified installation (non-polarised 2 wire bus).
- Up to 4 ART 1 terminals/monitors per apartment (master, slave 1, slave 2 and slave 3).
- Up to 32 apartments/ART 1 terminals in mixed installations with monitors **(EL632 G2+ SE module)**.
- Up to 128 apartments/ART 1 terminals per installation **(EL642 G2+ sound module required).**
- Completely private conversation.
- Call reception volume control: min, med, max and off (do not disturb).
- Audio volume control during communication process (4 different levels).
- "HZ" input for calls from apartment front door.
- Output to auxiliary call repeater (maximum 50mA/12Vdc).
- Up to 6 different ringtones to identify the origin of the call (door panel, intercom, guard monitor or front door of the apartment).
- Button for starting/stopping communication. In standby: 2 short press to "intercom" calls (within the same apartment) and press for 3 seconds to "autoswitch-on" function.
- Button for lock release 1 activation. In standby: activate/ deactivate "Doctor mode".
- Button AUX for lock release 2 activation/ staircase light activation (SAR-G2+ & SAR-12/24 modules required).
- Button for tone call volume control, "do not distrurb" mode/ configuring ringtones/ communication call volume control (ART 1 speaker) & in case of call forwarding, cancel call transfer (with ART 7W monitor).
- Button for guard monitor calls (if exist).
- DIP switches for setting the terminal's address (call code), master/slave and end of line.

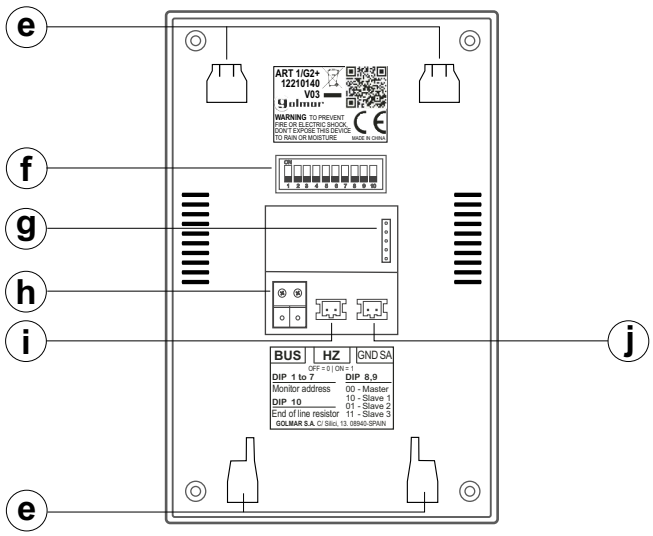
SYSTEM OPERATION

- 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 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.
- Upon receiving the call, the push button LED of the terminal(s) will blink white. 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. Door panel LED will turn off and the led will turn on.
- Communication will last for one and a half minutes or until button is pressed again. When communication has finished, door panel LED will turn off and the channel will be freed. If vocal synthesis is enabled, 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 3 seconds and LED on the door panel will also illuminate for 3 seconds. If vocal synthesis is enabled, a 'Door is open' message will be indicated on the door panel.
- Description of the function buttons can be found on page 4.

TERMINAL DESCRIPTION:

Description:





a. Speaker.
b. Function push buttons.
c. Raised dots for the visually impaired people.
In call/ communication:
- Above this raised dot is the "Start/ End communication" button.
- Above these raised dots is the "Door openning" button.

d. Microphone.
e. Wall mounting connector fixing (x4).
f. Configuration switches.
g. Golmar use.
h. Bus connections terminals.
i. Apartment front door button input "HZ".
j. Auxiliary call repeater output (max. 50mA/12Vdc).

Funtion push button:

Start/stop communication button. In standby: 2 short press to "intercom" call (within the same apartment) and press for 3 seconds to "autoswitch-on" function. See page 9-10.

In standby: short press, it allows to change tone call volume, on every short press terminal reproduces the selected volume (cyclic min/ med/ max/ off "do not disturb"). In communication: on every short press, it allows to change the speaker of the ART 1 audio volume (cyclic 4 audio levels). See p. 9-10.

During the call or communication processes: one press will activate the lock release 1. In standby: press the button for 5 sec. to activate/deactivate the "Doctor mode" function. See page 9-10.

AUX During the call or communication processes: one press will activate the lock release 2. In standby: press the button for 3 sec. to activate the staircase light (the SAR-G2+ & SAR-12/24 modules required). 5 short press to default tones & tones volume (led blink 5 times). See page 9-10.

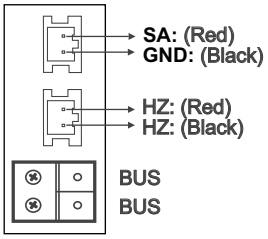
Funtion push button status LED:

- During call door panel, guard or intercom process: Led will blink (white color).
Terminal in communication: Led switch on (white color).

- "Do not disturb" mode: Led switch on (red color).
Call forwarding process (with ART 7W monitor): Led blink (red color).
"Default tones & tones volume": Led blink 5 times (red color).

- "Doctor mode": Led switch on (red color).

Description connection terminals:



BUS, BUS: Communication BUS (non-polarised).

SA, GND: Auxiliary call repeater output (max 50mA/12Vdc), relay SAR-12/24.

HZ, HZ: Apartment front door button input:
Connect only on the master monitor. The signal received is then transmitted to the slave monitors in the same apartment through the BUS.

Note: HZ push button function mode: When HZ push button is pressed will be call tone and activate the output of auxiliary call repeater with standby terminal, call process, communication process (HZ tone with lower audio level), intercom process and "Do not disturb" mode. **Important:** Up to 8 terminals/ apartments with push button "HZ" activated at the same time (with system and terminals in standby).

TERMINAL DESCRIPTION:

Description of the DIP switch and configuration of the ART 1/G2+ terminal address (code):

Edificio / Chalet (Placa Nexa)

Dip1-Dip7: Sets the terminals address (addresses 1 to 128). **Note:** Mixed installations with monitors (addresses 1 to 32). The switches set to OFF have a zero value. The values of the switches set to ON are shown in the table below. The terminal code is the sum of the values of the switches set to ON.

Importante:

Vivienda 1 (Dip1 a ON y Dip2-Dip7 a OFF)
Vivienda 128 (Dip1-Dip7 a OFF)

Tabla de valores

Interruptor nº:	1	2	3	4	5	6	7
Valor en ON:	1	2	4	8	16	32	64



Ejemplo: 0+0+4+0+16+0+0= 20

Dip8-Dip9: These define whether the terminal is master or slave. Each apartment must have only one master terminal.

Master



Slave 1



Slave 2



Slave 3



Dip10: Configures the end of line. In installations with terminals only, it must always be in the OFF position. In mixed installations of monitors with ART 1/G2+ terminals in the same apartment, set to ON for the terminals in which the BUS cable ends and leave in the OFF position for intermediate terminals.

IIMPORTANT: ART 1/G2+ terminal in **Villa installation with SOUL door panel**, see corresponding Kit Soul user manual for Kit features as maximum number of apartments and monitors/ ART 1 G2+ terminals.

Configuration of ART 1/G2+ terminal address codes (up to 128 addresses):

Important:

- Up to 32 apartments/ART 1 terminals in mixed installations with monitors **(EL632 G2+ SE module)**.
- Up to 128 apartments/ART 1 terminals per installation **(EL642 G2+ sound module required).**

Dip1 a Dip7: To configure the ART 1/G2+ terminal/apartment address (up to 128 addresses).

Apartment code 1



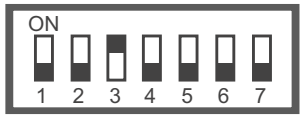
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Apartment code 3



Apartment code 4



Apartment code 5



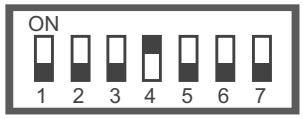
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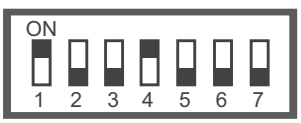
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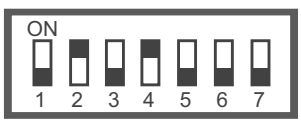
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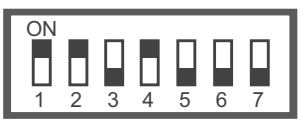
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Apartment code 10



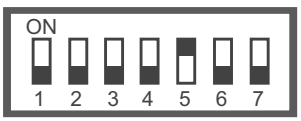
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Apartment code 12



Apartment code 13



Apartment code 14



Apartment code 15



Apartment code 16

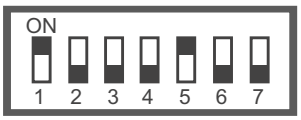


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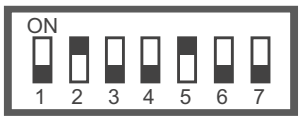
TERMINAL DESCRIPTION:

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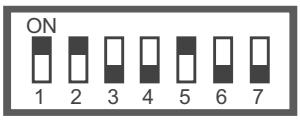
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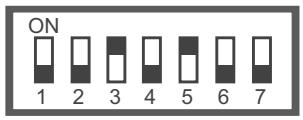
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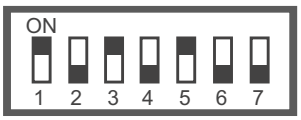
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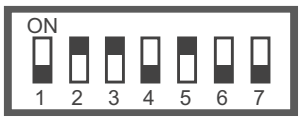
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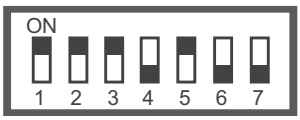
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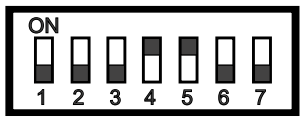
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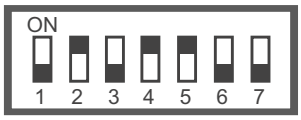
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Apartment code 25



Apartment code 26



Apartment code 27



Apartment code 28



Apartment code 29



Apartment code 30



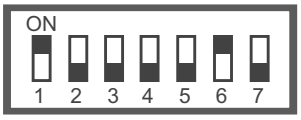
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Apartment code 32



Apartment code 33



Apartment code 34



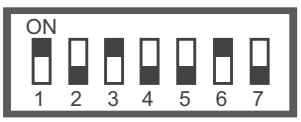
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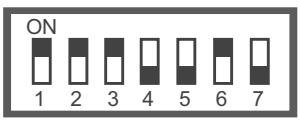
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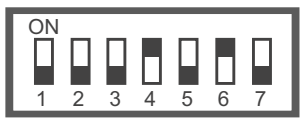
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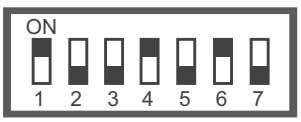
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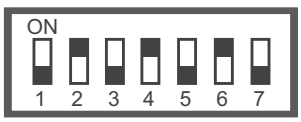
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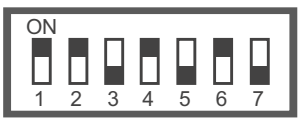
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Apartment code 42



Apartment code 43



Apartment code 44



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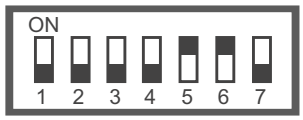
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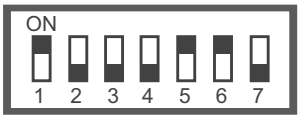
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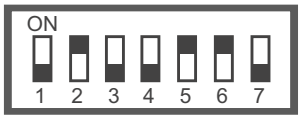
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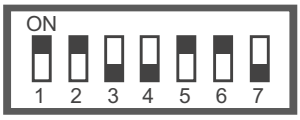
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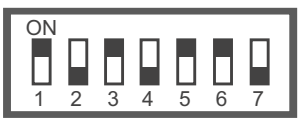
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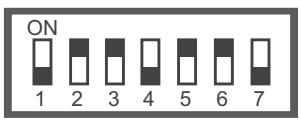
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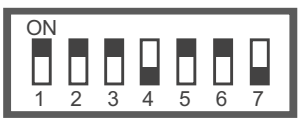
Apartment code 53



Apartment code 54



Apartment code 55



Apartment code 56



Apartment code 57

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Apartment code 60

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TERMINAL DESCRIPTION:

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Apartment code 61



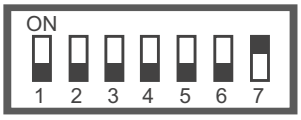
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Apartment code 63



Apartment code 64



Apartment code 65



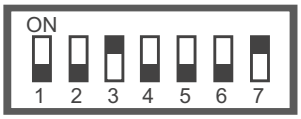
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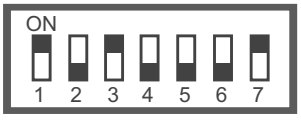
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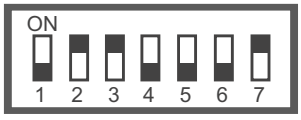
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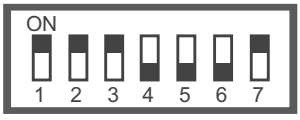
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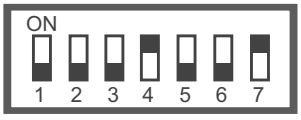
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Apartment code 71



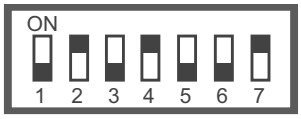
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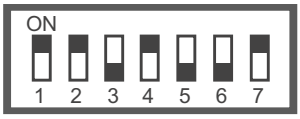
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Apartment code 74



Apartment code 75



Apartment code 76



Apartment code 77



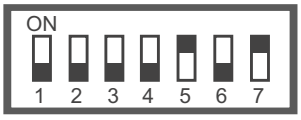
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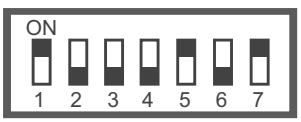
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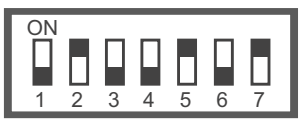
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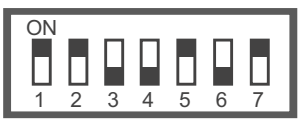
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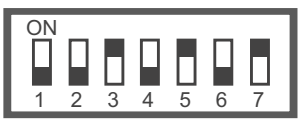
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Apartment code 83



Apartment code 84



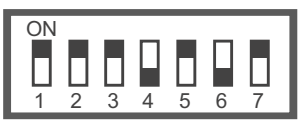
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Apartment code 86



Apartment code 87



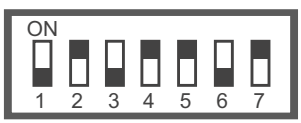
Apartment code 88



Apartment code 89



Apartment code 90



Apartment code 91



Apartment code 92



Apartment code 93



Apartment code 94



Apartment code 95



Apartment code 96



Apartment code 97



Apartment code 98



Apartment code 99



Apartment code 100



Apartment code 101

Apartment code 102

Apartment code 103

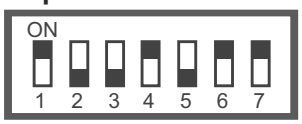
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Continued overleaf

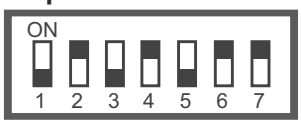
TERMINAL DESCRIPTION:

Continued from previous page.

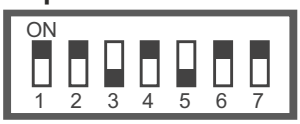
Apartment code 105



Apartment code 106



Apartment code 107



Apartment code 108



Apartment code 109



Apartment code 110



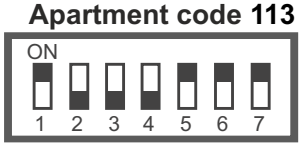
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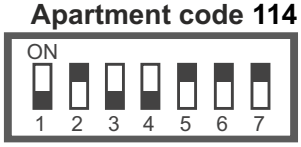
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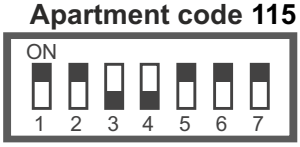
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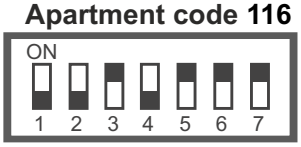
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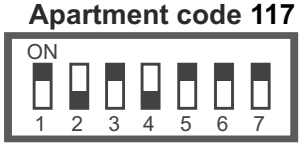
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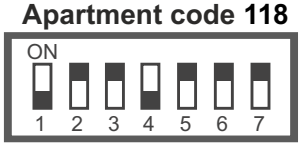
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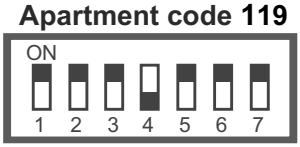
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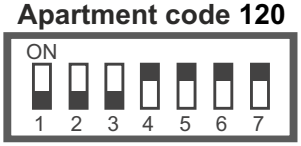
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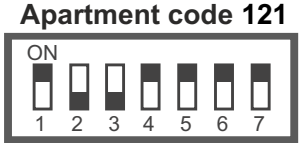
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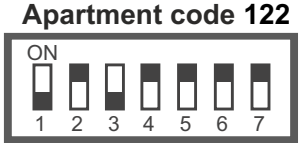
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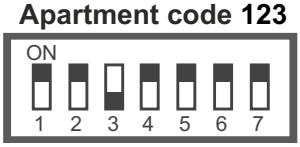
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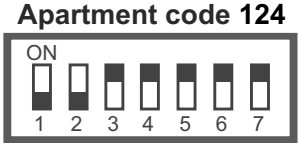
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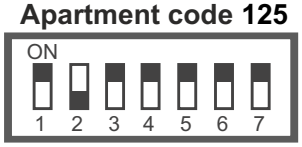
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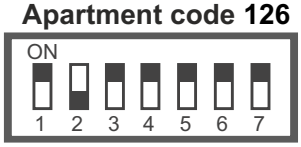
Apartment code 124



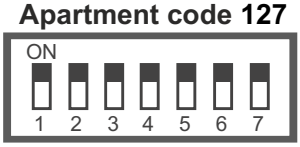
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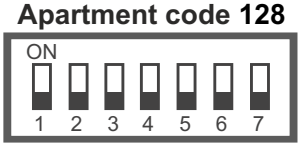
Apartment code 126



Apartment code 127



Apartment code 128



TERMINAL DESCRIPTION:

Autoswitch-on function:

With the ART 1/G2+ terminal in standby mode, you can establish an audio communication with the master door panel. It is only operative if there is no communication in progress.

With the terminal in standby mode, press the button for 3 seconds, a confirmation tone will sound and the led of the button on the terminal will turn on, indicating that audio communication has been established with the master door panel.

The communication will last for one and a half minutes or until the botton is pressed again.

Intercom function:

Intercom functionality between two points in the same apartment comes as standard with the ART 1/G2+ terminal.

The terminal must be in standby to make intercom calls.

To make an intercom call, press button two short times, the led on button of the terminal that makes the intercom call and the terminals that receive the call will blink and some tones in the apartment terminals will confirm that the call is being made.

The call needs to be answered within 40 seconds.

To establish communication, press button of any called terminal of the apartment (if there is more than one slave terminal), the led of the button of the terminals in communication will turn on and the rest of the terminals of the apartment the led of the button will turn off.

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

"Automatic door opening" mode:

The ART 1/G2+ terminal allows you to activate/deactivate the "automatic door opening" mode.

Activate "automatic door opening" mode:

With the terminal in stand-by mode, press the button for 5 seconds, a confirmation tone will sound and the led of the button on the terminal will turn on (red), indicating that the "automatic door opening" mode has been activated (3 seconds after receiving a call from the door panel).

Deactivate "automatic door opening" mode

With the terminal in stand-by mode, press the button for 5 seconds, a confirmation tone will sound and the led of the button on the terminal will turn off, indicating that the "automatic door opening" mode has been deactivated.

Light activation function:

The ART 1/G2+ terminal must be in standby for light activation (requires SAR-G2+ and SAR-12/24 module).

To activate the light (e.g. "staircase light"), press the button AUX for 3 seconds until you hear 2 confirmation tones indicating that the light has been activated.

Important: For connection and configuration, see TSAR-G2+ and TSAR-12/24 manual.

Setting audio volume in the terminal:

The terminal allows you to change the volume of the audio in the speaker of the communicating terminal (between 4 levels from minimum to maximum in carousel mode) through the function button .

The terminal must be in communication, a short press on the button , allows to change the audio volume on the terminal speaker, each short press reproduces the selected volume (between 4 levels from minimum to maximum and in carousel mode), stop pressing once the desired volume level is selected on the terminal. When communication has finished, the selected volume will be saved in the terminal.

Setting call tone volume &'Do not disturb' mode function:

The terminal must be in standby mode to adjust the volume of the call tone or to activate/deactivate the "do not disturb" mode.

A short press on the button allows you to change the volume of the call tone, each short press reproduces the selected volume (minimum/ medium/ maximum and no volume in "do not disturb" mode), stop pressing once the "do not disturb" mode has been selected (the LED on the button turn on in red) or the volume of the desired call tone.

If the "do not disturb" mode has been selected, the LED on the button will turn on (red), indicating that the "do not disturb" mode is active. The terminal will not sound the ring tone when a call is received (see note "HZ" on page 4).

To deactivate the "do not disturb" mode, press the button , each short press reproduces the selected volume (minimum/ medium/ maximum and no volume "do not disturb" mode), stop pressing once the volume (minimum/ medium or maximum) of the desired call tone has been selected; the LED on the button will turn off indicating that the "do not disturb" mode is deactivated.

Continued overleaf

TERMINAL DESCRIPTION:

Continued from previous page.

Configuration & selection of the call tone:

The terminal must be in standby mode for the configuration and selection of the desired call tone.

To modify the call tones, press the button for 3 seconds until you hear 3 confirmation tones that indicate that the terminal is in configuration mode. Once in configuration mode, press the corresponding button to change the call tone (between 6 different ring tones and in carousel mode):

- To change the “apartment front door button" (HZ) call tone, press the button AUX.
  Each short press on the button AUX reproduces a different call tone, stop pressing once you have selected the desired "apartment front door button" call tone on the terminal.
- To change the “intercom” call tone, press the button .
  Each short press on the button reproduces a different call tone, stop pressing once you have selected the desired "intercom" call tone on the terminal.
- To change the “guard monitor” call tone, press the button .
  Each short press on the button reproduces a different call tone, stop pressing once you have selected the desired "guard monitor" call tone on the terminal.
- To change the door panel call tone, press the button .
  Each short press on the button reproduces a different call tone, stop pressing once you have selected the desired door panel call tone on the terminal.

To exit and save the selected call tone in the terminal, press the button for 3 seconds until you hear 2 confirmation tones indicating that the terminal has saved and left the configuration mode.

Make a call to check that the terminal has been configured with the desired call tones.

Tones & volume call tones to default value:

The ART 1/G2+ terminal allows you to restore the tones and volume of the call tones to "default value".

With the terminal in standby mode, 5 short presses on the button AUX, 3 confirmation tones and the led of the button of the terminal will blink 5 times, indicating that the tones and volume of the call tones in the terminal have been restored to their default value.

Cancel the 'call forwarding' process:

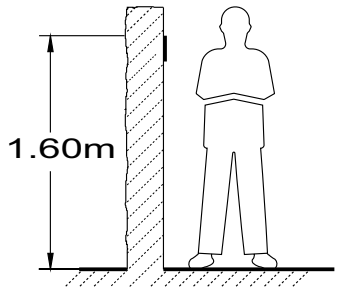
If a call is made from the door panel to an apartment of a mixed video door entry system (ART 7W/G2+ monitors and ART 1/G2+ terminals in the same apartment) and the ART 7W/G2+ monitor has "call forwarding" configured and activated; from an ART 1/G2+ terminal in the same home, you can cancel the process of "call forwarding" to a mobile phone by pressing the button on the terminal for more than 3 seconds (information about this function, see the TART 7W G2+ manual).

INSTALLING THE TERMINAL IN A WALL MOUNTING CONNECTOR

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

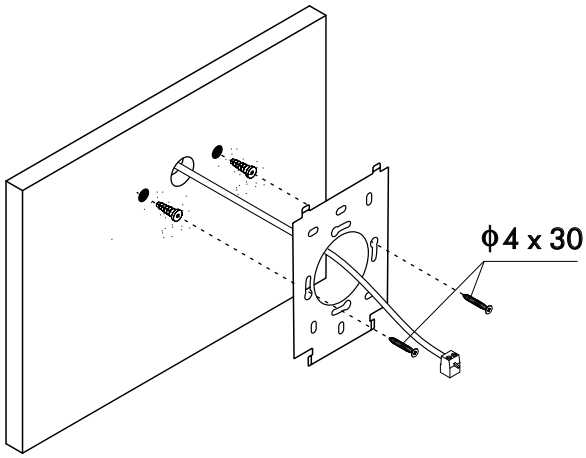
Positioning the wall mounting connector:

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:

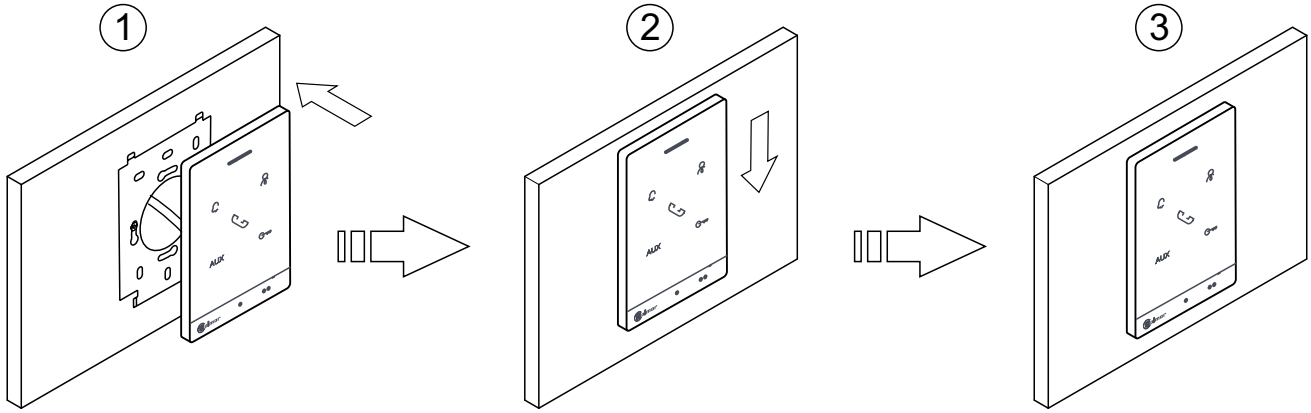
Fix the terminal's wall mounting connector to the wall by drilling two 6mm diameter holes and using the screws and plugs supplied with the terminal.



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.

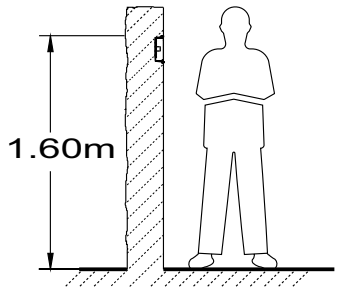


INSTALLATION OF THE TERMINAL IN AN EMBEDDING BOX

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

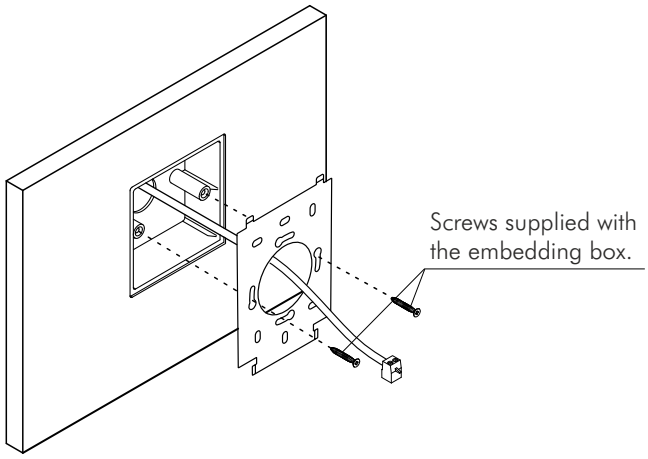
Positioning the embedding box:

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:

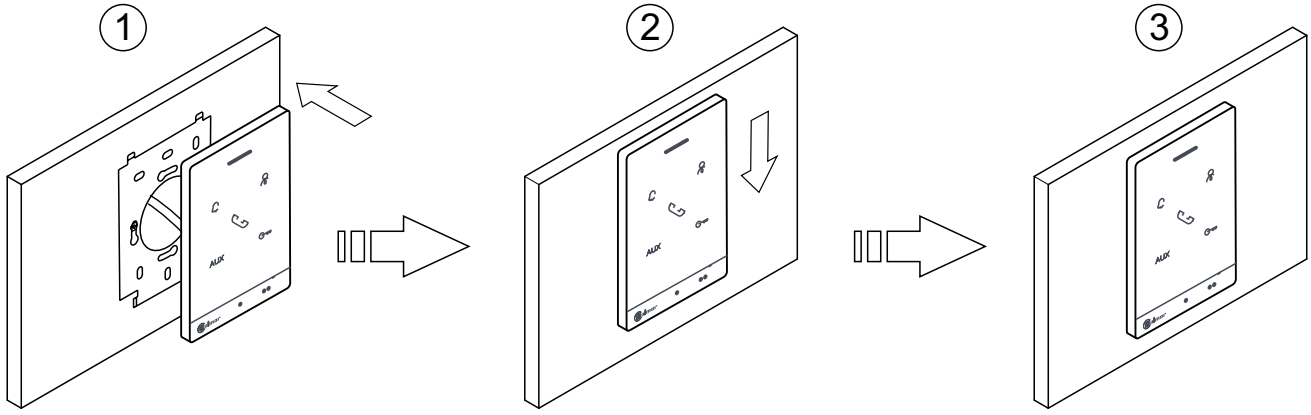
Pass the cable through the hole made in the embedding box. Embed the box and ensure that it is level and flush. Fix the wall mounting connector of the terminal to the embedding box with the screws supplied.



Positioning the terminal:

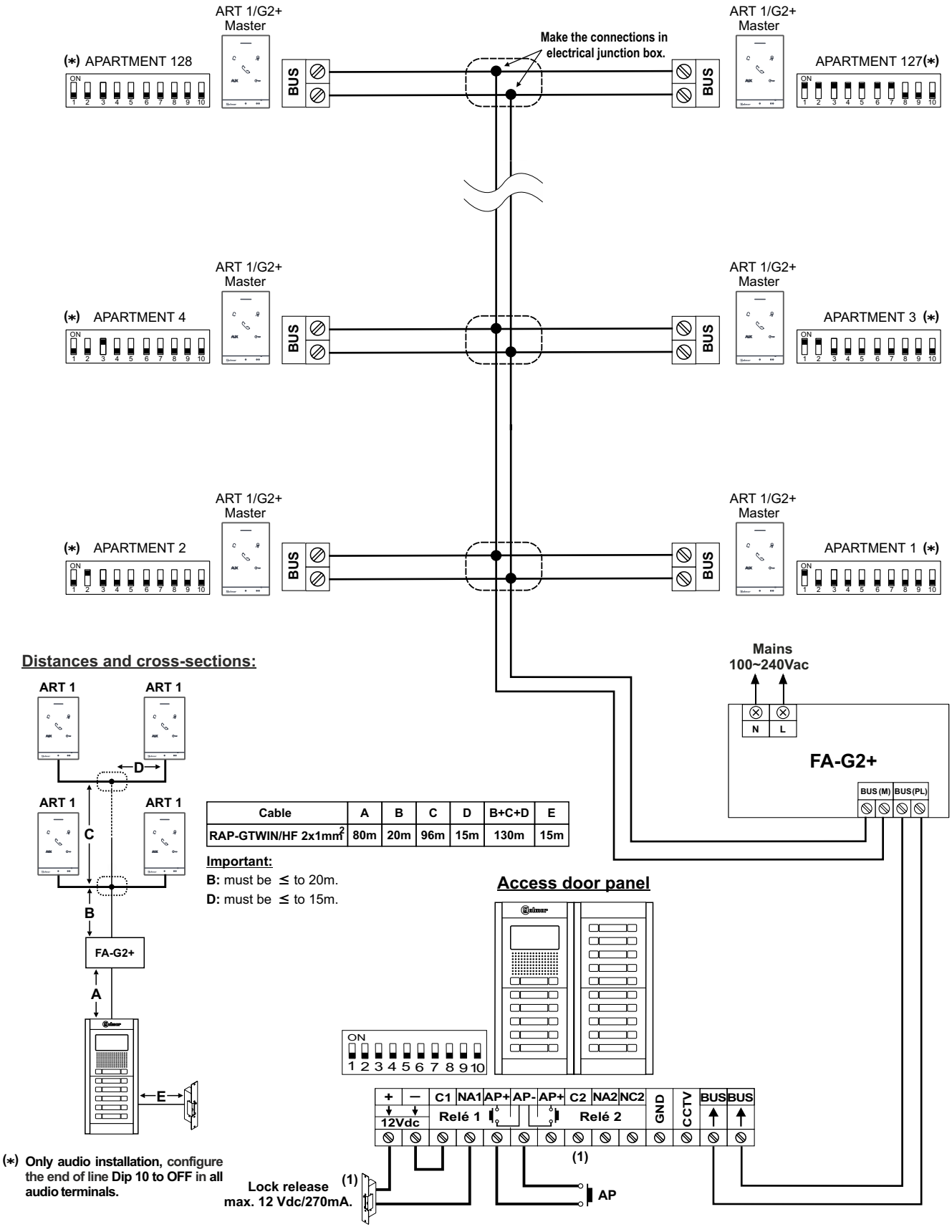
Connect the cables to the terminal (see p. 4), position the terminal in front of the wall mounting connector, ensuring that the holes in the base of the terminal line up with those on the connector (1), and then move the terminal downwards (2) until the terminal is securely fixed to the connector (3).

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



WIRING DIAGRAMS

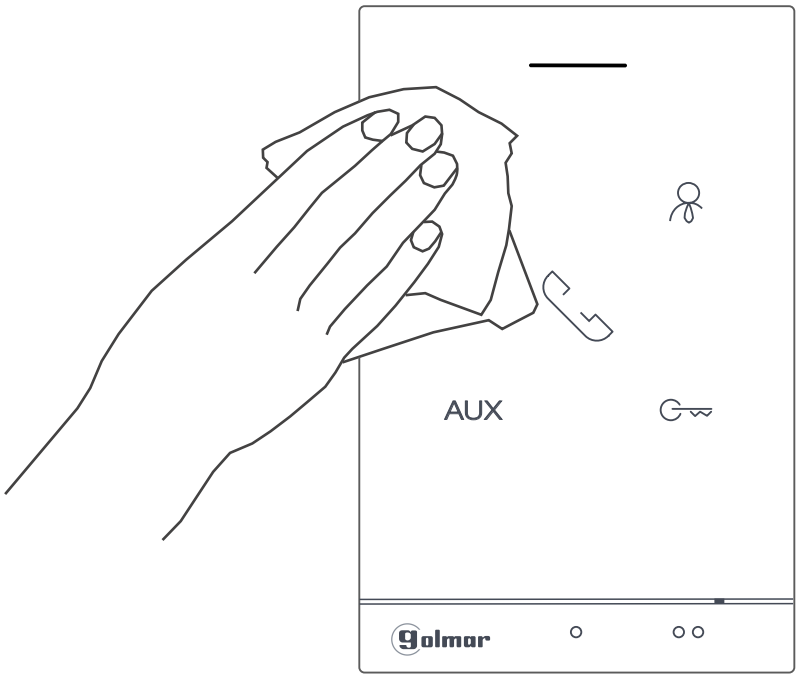
Audio door entry system with 128 apartments / ART 1-G2+ terminals and Golmar d.c lock release.



(1) For more information about the door panel, installation, configuration, connection of an AC lock release, 2nd lock release, mixed installation with monitors and ART 1/G2+ terminals and other wiring diagrams, (see the corresponding door panel manual).

CLEANING THE TERMINAL

- Do not use solvents, detergents or cleaning products that contain acids, vinegar or abrasive components.
- Use a soft damp lint-free cloth with water.
- Always wipe the terminal in the same direction, from top to bottom.
- After cleaning the terminal, remove any moisture with a soft dry lint-free cloth.



NOTES:

COMPLIANCE:

Este producto es conforme con las disposiciones de las Directivas Europeas aplicables respecto a la Compatibilidad Electromagnética ***2014/30/CEE.***

This product meets the essentials requirements of applicable European Directives regarding Electromagnetic Compatibility ***2014/30/ECC****.*

NOTA: El funcionamiento de este equipo está sujeto a las siguientes condiciones:
(1) Este dispositivo no puede provocar interferencias dañinas, y (2) debe aceptar cualquier interferencia recibida, incluyendo las que pueden provocar un funcionamiento no deseado.

NOTE: Operation is subject to the following conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any received interference, including the ones that may cause undesired operation.

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