G2+

TECHNOLOGY

INSTALLER'S MANUAL

Kit Soul

G2+ 2-wire Installation
Art 1 Terminal
T-520 Telephone

TS4110 AUDIO EN REV.0225 V02

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SAFETY PRECAUTIONS

- Preferably use a Golmar **RAP-GTWIN/HF** cable (2x1mm²).

- The wiring must run at least **40cm away from any other wiring.**

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

- The installation and handling of these devices must be carried out by **authorised personnel.**

- Check all connections before starting the device.

- Always follow the instructions contained in this manual.

SYSTEM OPERATION (ART 1 TERMINAL)

To make a call, the visitor needs to press the button for the apartment, an audible two tones indicates that the call is being made. At this moment, the apartment's terminal(s) receives the call.

In systems with two access doors, the other door panel automatically disconnects; if another visitor attempts to call, 5 tones will indicate that the system is busy.

Upon receiving the call, the push button LED of the terminal(s) will blink white. If the call is not answered within 45 seconds, the channel will be freed.

To establish communication, press button on any terminal in the apartment.

Communication will last for one and a half minutes or until button is pressed again. When communication has finished, the channel will be freed.

To open door, **short press button** or activate auxiliary output of the door panel, **short press button** AUX. A single press activates the lock release for 3 seconds or auxiliary output for 1 second, an audible tone be indicated on the door panel.

Detailed operation of the terminal is described on pp. 8 to 11.

SYSTEM OPERATION (T-520/G2+ TELEPHONE)

To make a call, the visitor needs to press the button for the apartment, an audible two tones indicates that the call is being made. At this moment, the apartment's telephone(s) receives the call.

In systems with two access doors, the other door panel automatically disconnects; if another visitor attempts to call, 5 tones will indicate that the system is busy..

When the call is received, tones will be heard on the telephone(s) in the apartment. If the call is not answered within 45 seconds, the channel will be freed up.

To establish communication, lift the handset on any telephone in the apartment.

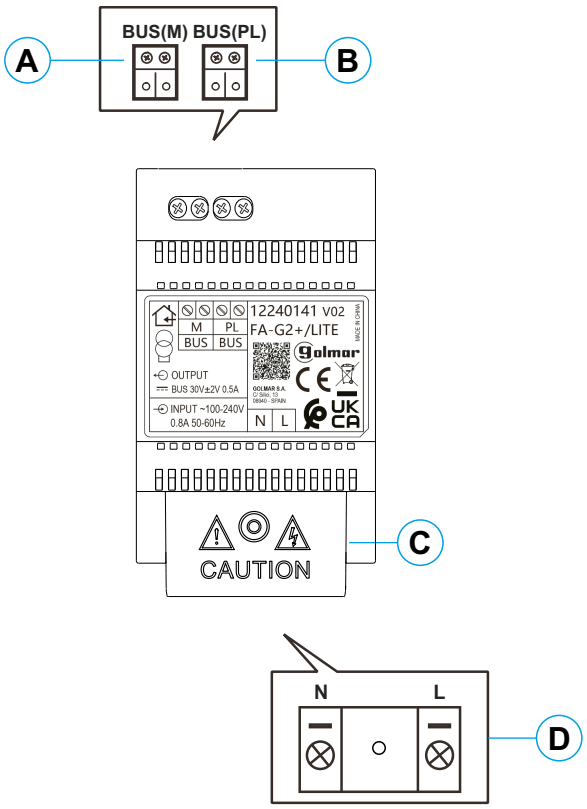
Communication will last for one and a half minutes or until the handset is replaced. When communication has finished the channel will be freed.

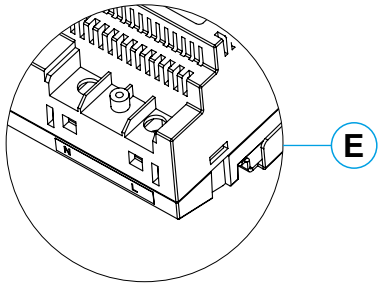
To open door, **short press button** or activate auxiliary output of the door panel, **short press button** AUX. A single press activates the lock release for 3 seconds or auxiliary output for 1 second, an audible tone be indicated on the door panel.

Detailed operation of the terminal is described on pp. 14 a 17.

FA-G2+/LITE POWER SUPPLY

Description





A. Terminal/telephone Bus connection terminals.
B. Door panel Bus connection terminals.
C. Protective cover for the current input.
D. Current input connection terminals.
E. Detail of the current input terminals without protective cover.

Installation

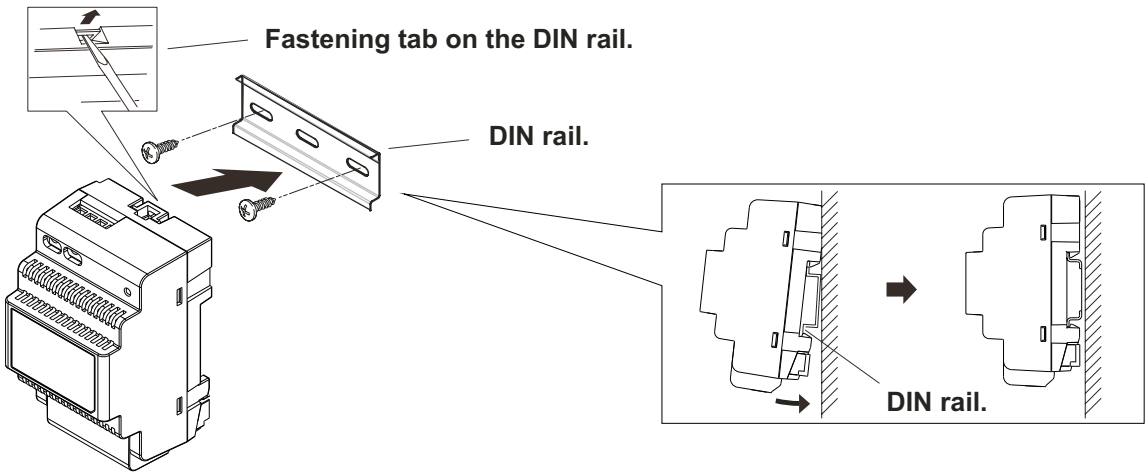
The fitting and handling of the power supply must be carried out by authorised personnel in the absence of electrical current.

Install the power supply in a dry, protected and ventilated location. Make sure that the vents are not obstructed. Use a DIN 46277 rail for fastening (4 elements).

Note that current regulations stipulate that the power supply must be protected by a circuit breaker.

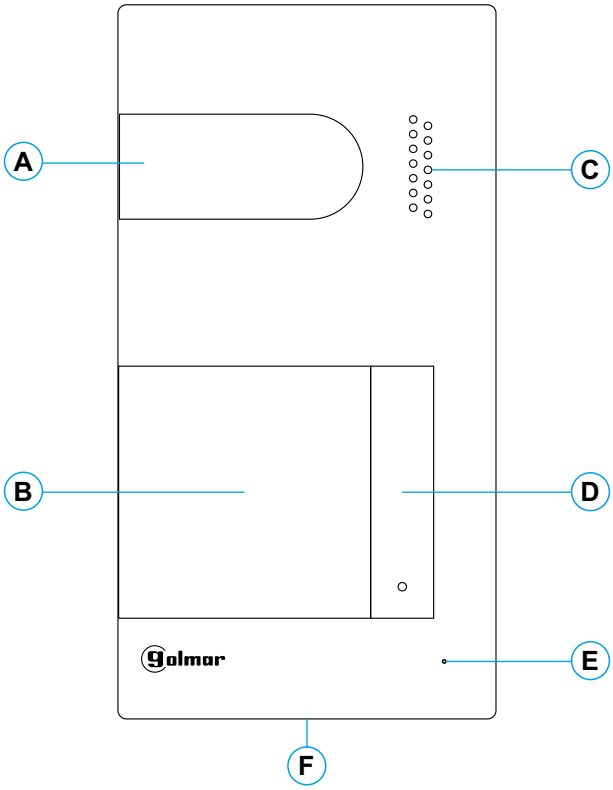
To prevent electric shock, do not remove the protective cover without first disconnecting the power supply. Replace it once all connections have been made.

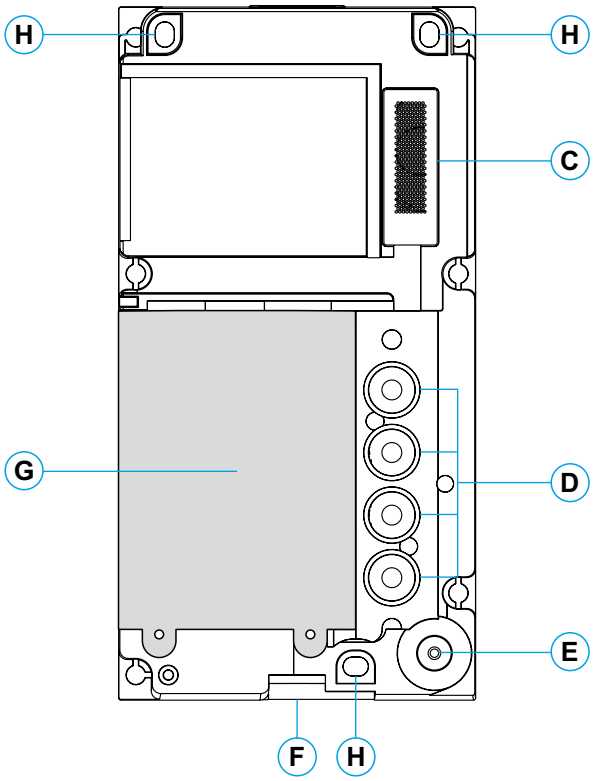
Connect the wires to the installation terminals following the instructions in the diagrams.

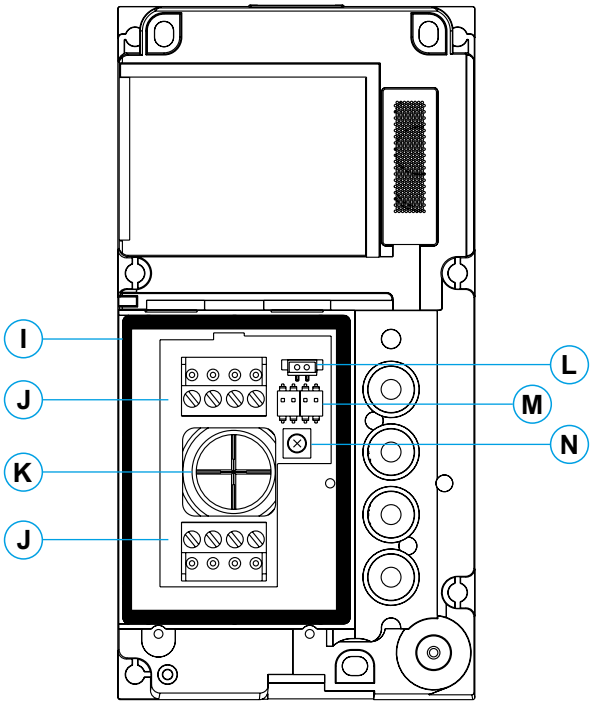


SOUL/1A PANEL

Description







A. Protective polycarbonate.
B. Nameplate label.
C. Speaker grill.
D. Call button
E. Microphone hole.
F. Front fixing screw.
G. Illumination module.
H. Wall fixing hole (x3). **Do not overtighten the fixing screws.**
I. Illumination module gasket.
J. Installation terminals.
K. Cable grommet.
L. Illumination module connector.
M. Configuration switches.
N. Volume control potentiometer.

Note: SOUL/1A door panel with "V02" or later, the activation time is 1 s on the auxiliary relay output.

SOUL/1A PANEL

Installation

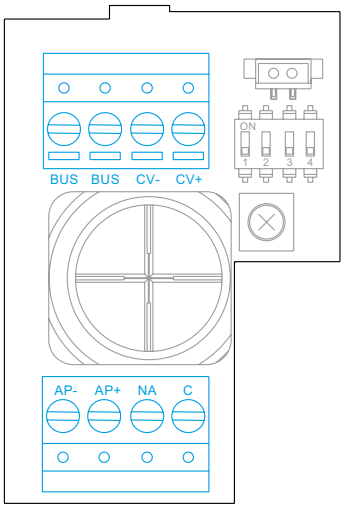
The door panel has been designed to withstand diverse environmental conditions. It is however advisable to take extra precautions to prolong its service life, such as locating it in a covered area.

For correct installation: (locate the top of the door panel at a height of 1.65m).

1. Remove the metal front piece of the door panel by loosening the bottom screw with the Allen key supplied. On the back of the front piece, you will find the button personalisation label.
2. Remove the screws that secure the Illumination module.
3. Present the door panel to the wall, positioning the top at 1.65m. Pass the installation cables through the cable grommet.
4. Drill three 6mm holes at the indicated points (H), see p. 5. Insert the plugs supplied and fix the door panel to the wall using the screws supplied.
5. Connect the cables to the terminals following the instructions in the installation diagrams.

Before replacing the illumination module and closing the door panel, perform the necessary settings (address door panel, audio level setting, etc.), as indicated throughout this manual. Make sure that the illumination module gasket is properly fitted.

Installation terminals (J)



BUS, BUS: communications bus (non-polarised).

CV-, CV+: lock release output 12Vdc (maximum 300mA).

AP+, AP-: remote activation button connection. **Note: For correct operation, the terminal's / telephone's address 1 must be connected to the Bus.**

IMPORTANT: Installation with 2 access door panels and AP button on both door panels, one of the door panels must connect the AC lock release (instead of DC lock release). SAR-12/24 relay & a TF-104 transformer required, see pages 23 to 24.

C, NA: potential-free relay output (maximum 6A/24V).

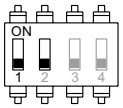
SOUL/1A PANEL

Configuration switches (M)

Configuration changes should be made with the equipment turned off. If they are performed with the equipment turned on, disconnect it for 10 seconds after any modification.

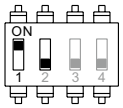
All switches are factory set to OFF.

OFF-OFF



Door panel 1

ON-OFF



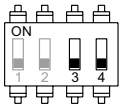
Door panel 2

Switch 1.

Defines the door panel address.

Switch 2, must be OFF.

OFF-OFF

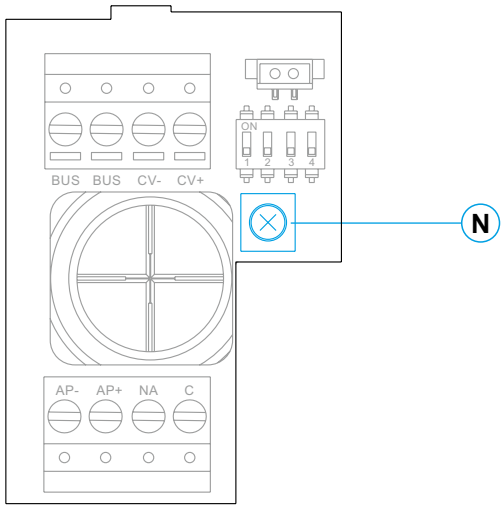


Apartment 1

Switches 3 and 4 must be OFF.

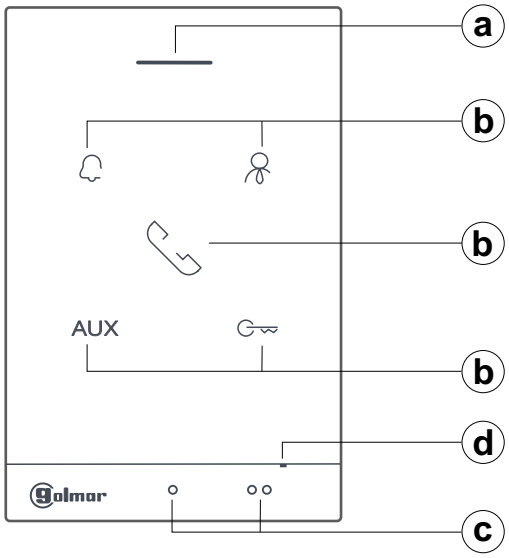
Setting the audio level

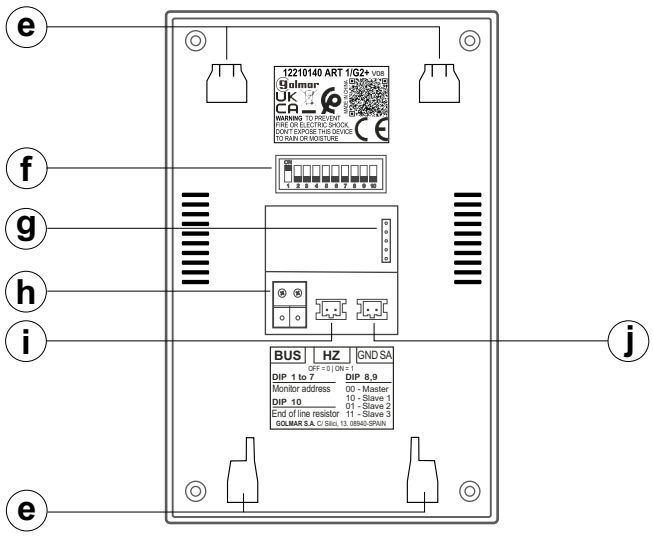
If the audio volume on the door panel after starting up the device is not adequate, use the volume control potentiometer (N). This setting affects the communication and confirmation tone audio level.



ART 1/G2+ 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 10-11.

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. 10-11.

During the call or communication processes: one press will activate the lock release 1. In standby: **Note:** With V06 or later, press the button for 10 sec. to activate/ deactivate the "Doctor mode" function. See page 10-11.

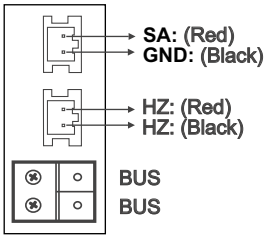
AUX During the call or communication processes: one press will activate the lock release 2. In standby: press the button for 3 sec. to activate the staircase light (the SAR-G2+ & SAR-12/24 modules required). 5 short press to default tones & tones volume (led blink 5 times). See page 10-11.

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).
"Default tones & tones volume": Led blink 5 times (red color).
- "Doctor mode": Led switch on (red color).

Label product:

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.

ART 1/G2+ TERMINAL DESCRIPTION:

Configuration switches:

Switches 1 to 7.

These assign the address of the corresponding terminal to the call button on the door panel. Switches 2 to 7 must remain in the OFF position.

Apartment 1

Switches 8 to 9.

These define whether the terminal is master or slave. The apartment must have only one master terminal.

Master

Slave 1

Slave 2

Slave 3

Switch 10.

Configures the end of line. In installations with terminals only, **it must always be in the OFF position.**

Switch 8 to ON

Switch 8 to OFF

ART 1/G2+ 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:

Note: With V06 or later, with the terminal in stand-by mode, press the button for 10 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

Note: With V06 or later, with the terminal in stand-by mode, press the button for 10 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 8).

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

Continued from previous page.

ART 1/G2+ TERMINAL DESCRIPTION:

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 : No function.
- 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.

Cleaning mode:

The ART1/G2+ terminal with V08 and later, allows "cleaning mode".

- With the terminal in standby, press the button 4 times in 2 seconds to start the "cleaning mode", the button led will flash confirming that the ART1/G2+ terminal is in "cleaning mode" allowing to pass a cloth over the terminal avoiding that the buttons activate any function when pressed.
- The "cleaning mode" has a duration of 30 seconds, at the end of this time the ART1/G2+ terminal exits the "cleaning mode", the button LED will turn off and the ART1/G2+ terminal returns to the standby, now the buttons again have a function when pressed.
- If during the "cleaning mode" of the ART1/G2+ terminal a call is received, the "cleaning mode" will end and the call will be received.

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".

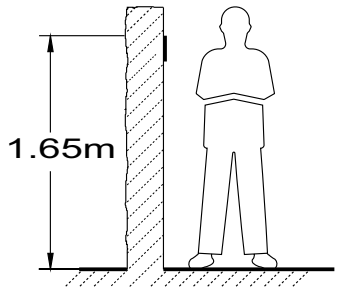
With the terminal in standby mode, 5 short presses on the button AUX, 3 confirmation tones and the led of the button of the terminal will blink 5 times, indicating that the tones and volume of the call tones in the terminal have been restored to their default value.

INSTALLING THE ART 1/G2+ TERMINAL IN A WALL MOUNTING CONNECTOR:

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

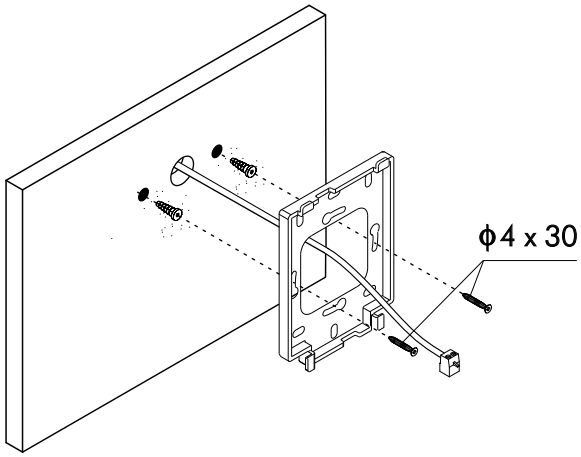
Positioning the wall mounting connector:

The top of the wall mounting connector should be located at a height of 1.65m 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:

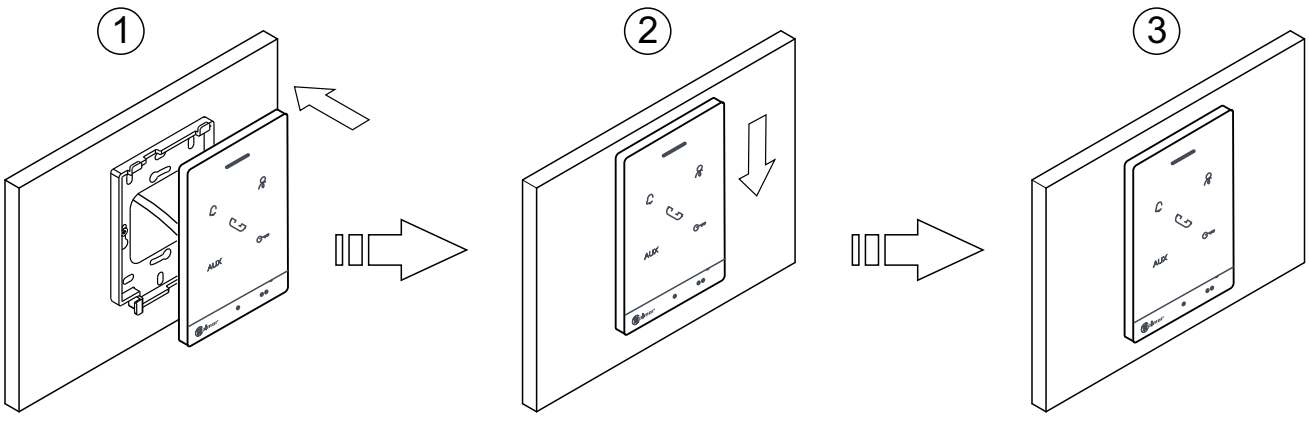
Fix the terminal's wall mounting connector to the wall by drilling two 6mm diameter holes and using the screws and plugs supplied with the terminal.



Positioning the terminal:

Connect the cables to the terminal (see p. 8), 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.

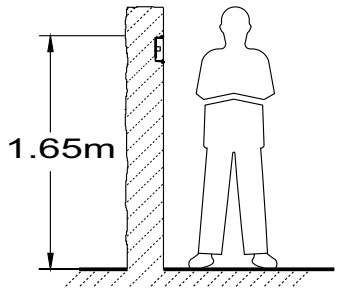


INSTALLATION OF THE ART 1/G2+ TERMINAL IN AN EMBEDDING BOX:

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

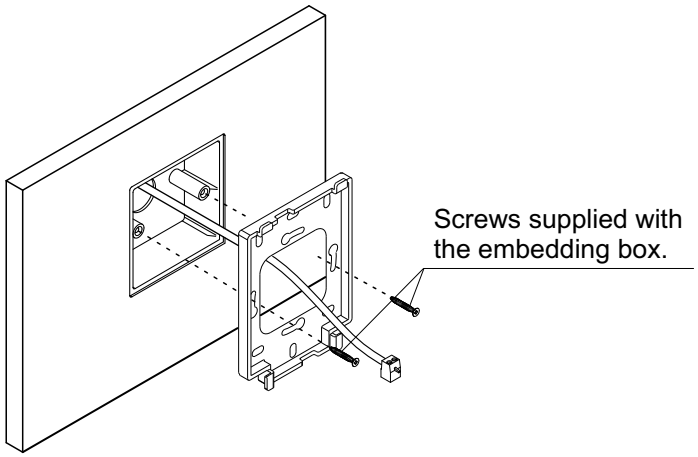
Positioning the embedding box:

Make a hole in the wall to position the top of the universal embedding box at a height of 1.65m 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:

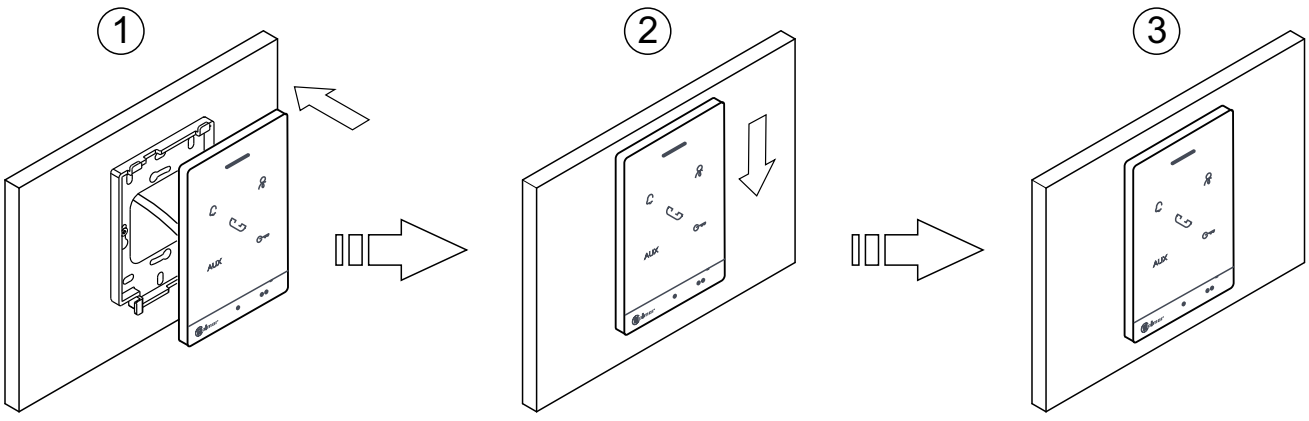
Pass the cable through the hole made in the embedding box. Embed the box and ensure that it is level and flush. Fix the wall mounting connector of the terminal to the embedding box with the screws supplied.



Positioning the terminal:

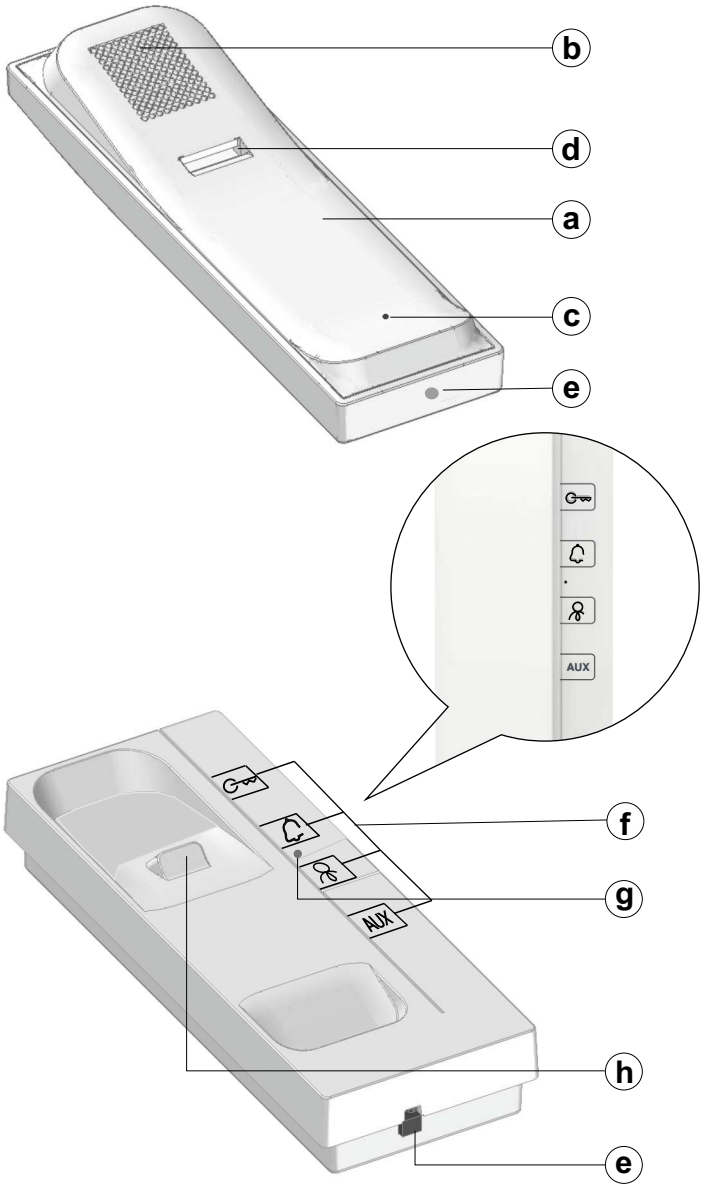
Connect the cables to the terminal (see p. 8), position the terminal in front of the wall mounting connector, ensuring that the holes in the base of the terminal line up with those on the connector ①, and then move the terminal downwards ② until the terminal is securely fixed to the connector ③.

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



T-520/G2+TELEPHONE DESCRIPTION:

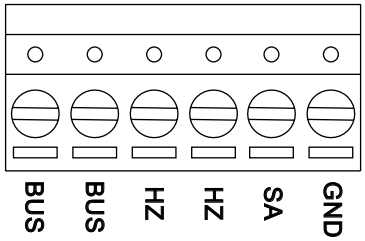
Description:



a. Telephone handset.
b. Speaker grille.
c. Microphone hole.
d. Subjection hole.
e. Telephone cord connectors.
f. Function buttons.
g. Telephone status LED:
-"Do not disturb" mode.: led will flash slow (red).
-Call: If Do Not Disturb mode is enabled, the LED flash fast (red).
h. Hook switch.

Product label:

Description connection terminals:



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

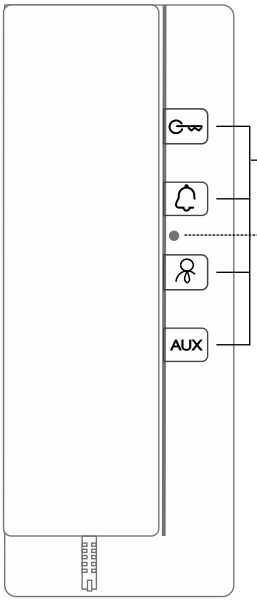
SA, GND: Auxiliary call repeater output (max 50mA/12Vdc), relay SAR-12/24.

HZ, HZ: Apartment front door button input:
Connect only on the master monitor. The signal received is then transmitted to the slave telephones 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 telephone, call process, communication process (HZ tone with lower audio level), intercom process and "Do not disturb" mode.

TELEPHONE DESCRIPTION:

Function push buttons:



Function push buttons (x4)

Status led:
-"Do not disturb" mode: led will flash slow (red).
-Call: If Do Not Disturb mode is enabled, the LED flash fast (red).

during the call or communication processes: **a short press activates door release** 1, and a long press also immediately activates door release 1 (1 beep will be heard). In standby: Handset on hook, an 8 second press activates 'automatic door release' mode (3 beeps will be heard) or deactivates 'automatic door release' mode (1 beep will be heard). In standby: Handset off hook, Press the button for 3 seconds establishes audio communication with the main door panel 1 (auto-switch On) (1 beep will be heard). Further information (see page 16).

In standby: Handset off hook, short press to calls 'Guard' monitor (if exist). In standby: handset of hook, 2 short consecutive presses initiate the intercom call (within the same apartment). Further information (see page 17).

In standby: Handset on hook, a 5 second press (**note:** release the button when the status LED lights up) activates the "do not disturb mode" (2 beeps will be heard), the status led will flash slow (red), and will flash fast (red) when a call is in progress. In standby: Handset on hook, a short press ends 'do not disturb mode' (2 beeps will be heard), the status LED will turn of In standby: Handset on hook, a short press allows you to listen to the current call tone volume or to end the 'do not disturb mode', each short press switches to the next volume level (min/med/max). During a call: A short press silences the call on the pressed phone and deactivates the 'SA' output. In communication: Each short press adjusts (between 4 levels) the volume of the telephone loudspeaker. Further information (see page 16 y 17).

AUX During the call or communication processes: **a short press activates door release 2**, and a long press also immediately activates door release 2 (1 beep will be heard). In standby: Handset on the hook/ off hook, one press will activated the staircase light (1 beep will be heard) (the SAR-G2+ & SAR-12/24 modules required).

Configuration switches:

Switches 1 to 7.

These assign the address of the corresponding terminal to the call button on the door panel. Switches 2 to 7 must remain in the OFF position.

Apartment 1

Switches 8 to 9.

These define whether the terminal is master or slave. The apartment must have only one master terminal.

Master

Slave 1

Slave 2

Slave 3

Switch 10.

Configures the end of line. In installations with terminals only, **it must always be in the OFF position.**

Switch 8 to ON

Switch8 to OFF

T-520/G2+ telephone description

Autoswitch-on function:

With the T-520/G2+ telephone in standby mode and the handset off the hook, you can establish an audio communication with the master door panel. It is only operative if there is no communication in progress.

With the telephone in standby mode and handset off the hook, press the button for 3 seconds, a confirmation tone will sound on the telephone, 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 handset is replaced.

"Automatic door opening" mode:

The T-520/G2+ telephone allows you to activate/deactivate the "automatic door opening" mode.

Activate "automatic door opening" mode:

With the telephone in standby mode (handset on hook), press the button for 8 sec., 3 confirmation beeps will be heard, indicating that the "automatic door opening" mode has been activated, (within 3 seconds of a call from the door panel).

Deactivate "automatic door opening" mode

With the telephone in standby mode (handset on hook), press the push button for 8 seconds, 1 confirmation beep will be heard, indicating that the 'automatic door opening' mode has been deactivated.

Light activation function:

The T-520/G2+ telephone must be in standby for light activation (requires SAR-G2+ and SAR-12/24 module).

To activate the light (e.g. "staircase light"), with the handset hung up/off hook, press the push button AUX 1 confirmation beep will be heard to indicate that the light has been activated.

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

Setting audio volume in the telephone:

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

The telephone must be in communication, a short press on the button , allows to change the audio volume on the telephone 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 telephone. When communication has finished, the selected volume will be saved in the telephone.

Activate / deactivate "do not disturb" mode function:

-Activate 'do not disturb' mode: With the telephone in standby and the handset on hook, a 5 second press on the push button (**note:** release the button when the status LED lights up) activates the 'do not disturb' mode, 2 beep will be heard and the status LED will flash slow (red) indicating that the telephone is in 'do not disturb' mode, and will flash fast (red) when a call is in progress.The phone will not ring when receiving an incoming call (see note 'HZ' on page 14).

-Deactivate 'do not disturb' mode: With the telephone in standby mode and the handset on hook, a short press on the push button deactivates the 'do not disturb' mode, 2 beep will be heard and the status LED will turn off.

Setting call tone volume:

The phone must be in standby mode and the handset must be on hook to adjust the volume of the call tone. A short press on the push button allows you to listen to the current call tone volume (or to end if the 'do not disturb' mode was activated), each short press changes to the next volume level (minimum/medium/maximum).

Continued overleaf

Continued from previous page.

DESCRIPCIÓN DEL TELÉFONO T-520/G2+

Intercom function:

The T-520/G2+ telephone incorporates intercommunication between two points in the same apartment as standard.

The telephone must be in standby mode for intercommunication.

To intercommunicate: in standby with the handset off hook, press twice (consecutive short presses) on the push button, a call tone will be heard in the handset of the calling telephone, the other telephone(s) in the apartment will hear confirmation tones that the call is being made.

You have 45 seconds to answer the call.

To establish communication, lift the handset of any telephone in the apartment (if there is more than one slave telephone), the other telephones will end the call tone.

The communication of the two telephones in intercom shall last for one and a half minutes or until the handset of the telephone is hung up.

"Call tone volume", "communication volume", "doctor mode" & "do not disturb", default value :

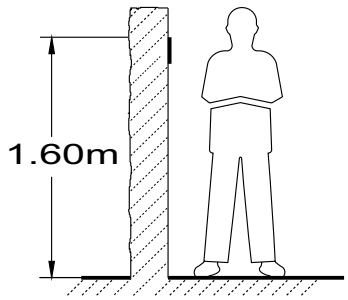
The T-520/G2+ telephone allows you to restore the "volume of the call tones", the "volume of communication", the "automatic door opening" (Doctor mode) and the "do not disturb mode" to the ‘default value’.

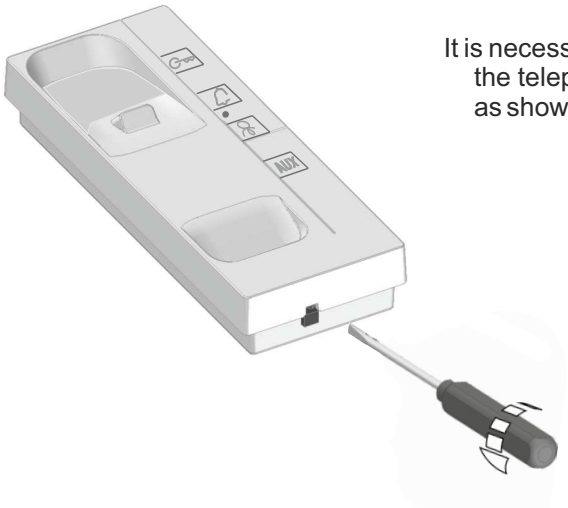
With the telephone in standby mode and the handset on hook, press the push button for 10 seconds, 4 confirmation beeps will be heard, indicating that the "volume of the call tones" level 2, the "volume of communication" level 2, the "automatic door opening" (Doctor mode) deactivated and the "do not disturb mode" deactivated on the telephone have been restored to the default value.

INSTALLING THE T-520/G2+ TELEPHONES

Fixing the telephone to the wall:

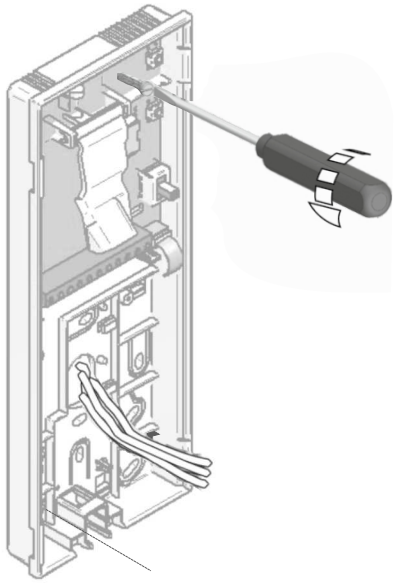
The top of the wall mounting connector should be located at a height of 1.60m from the ground. The minimum distance between the wall mounting connector and the closest object must be 5 cm.

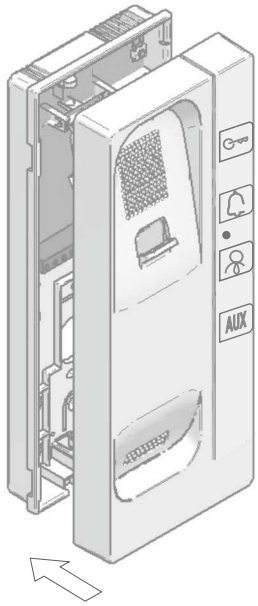




It is necessary to open the telephone for wiring and fixing purposes. To open the telephone, insert a flat screwdriver into the slots and gently pry open as shown in the drawing.

Avoid dusty or smoky environments or locations near sources of heat. The telephone can be fixed to an electrical embedding box or directly to the wall. To secure directly to the wall, drill two 6mm holes at the specified positions using 6mm wall plugs and Ø3.5 x 25mm screws.



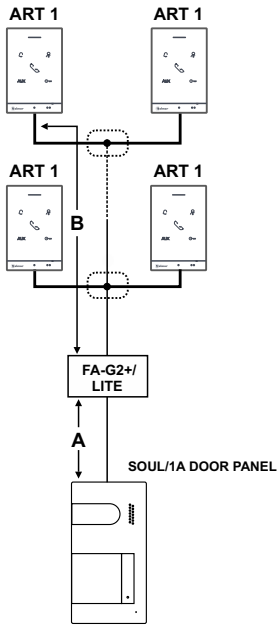


Pass the cables through the cable holes and connect them to the connector as per the wiring diagrams. Close the telephone as shown in the drawing. Once the telephone is closed, connect the handset using the telephone cord and place it on the hook.

WIRING DIAGRAMS (ART 1/G2+ TERMINAL)

Cross sections and distances

- Maximum 1 apartment.
- The maximum number of terminals in the apartment is 4.
- The maximum number of terminals in cascade is 4.
- Maximum two access door panels.

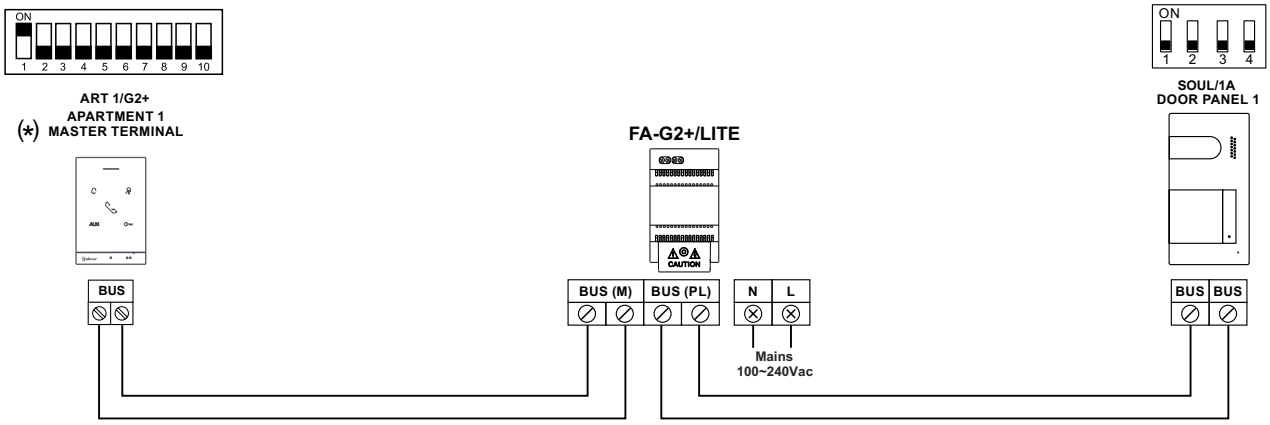


Type of cable	A	B
2 x 0,75mm² (AWG18)	30 m	30 m
CAT5 (*)	60 m	60 m
RAP-GTWIN/HF	80 m	190 m

A. Distance between power supply and the farthest door panel.
B. Distance between power supply and the farthest terminal.
(*). Use two twisted pairs for each bus line.

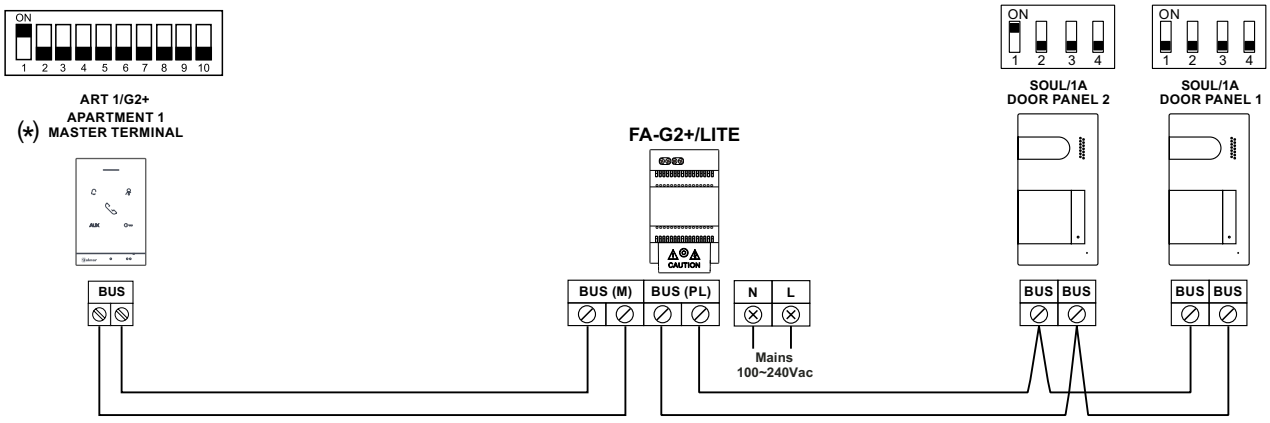
Important: Never use UTP cable of copper clad aluminum (CCA).

One apartment with one access panel and one ART 1/G2+ terminal



(*) Note: Terminal set to master (factory setting), see page 9.

One apartment with two access panels and one ART 1/G2+ terminal



(*) Note: Terminal set to master (factory setting), see page 9

Continued overleaf

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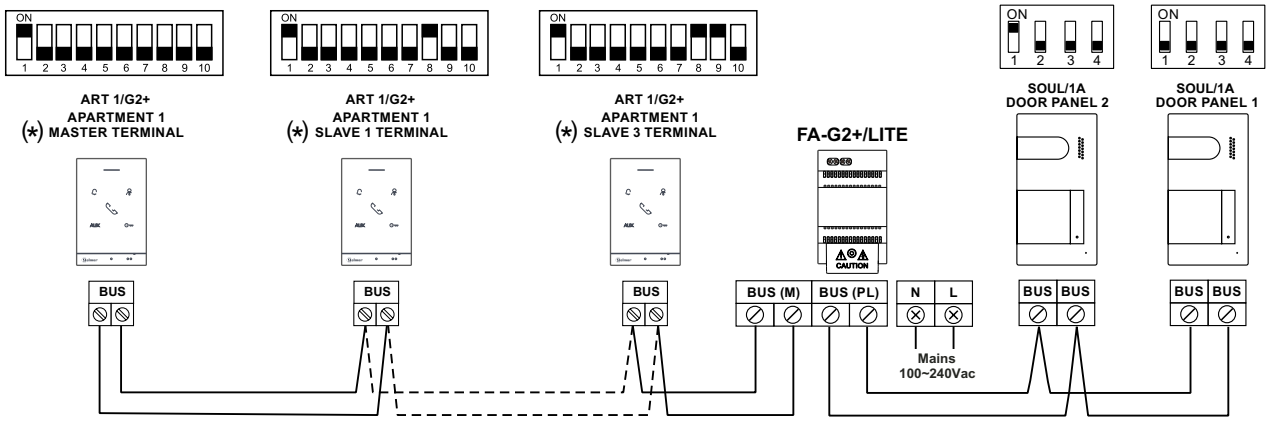
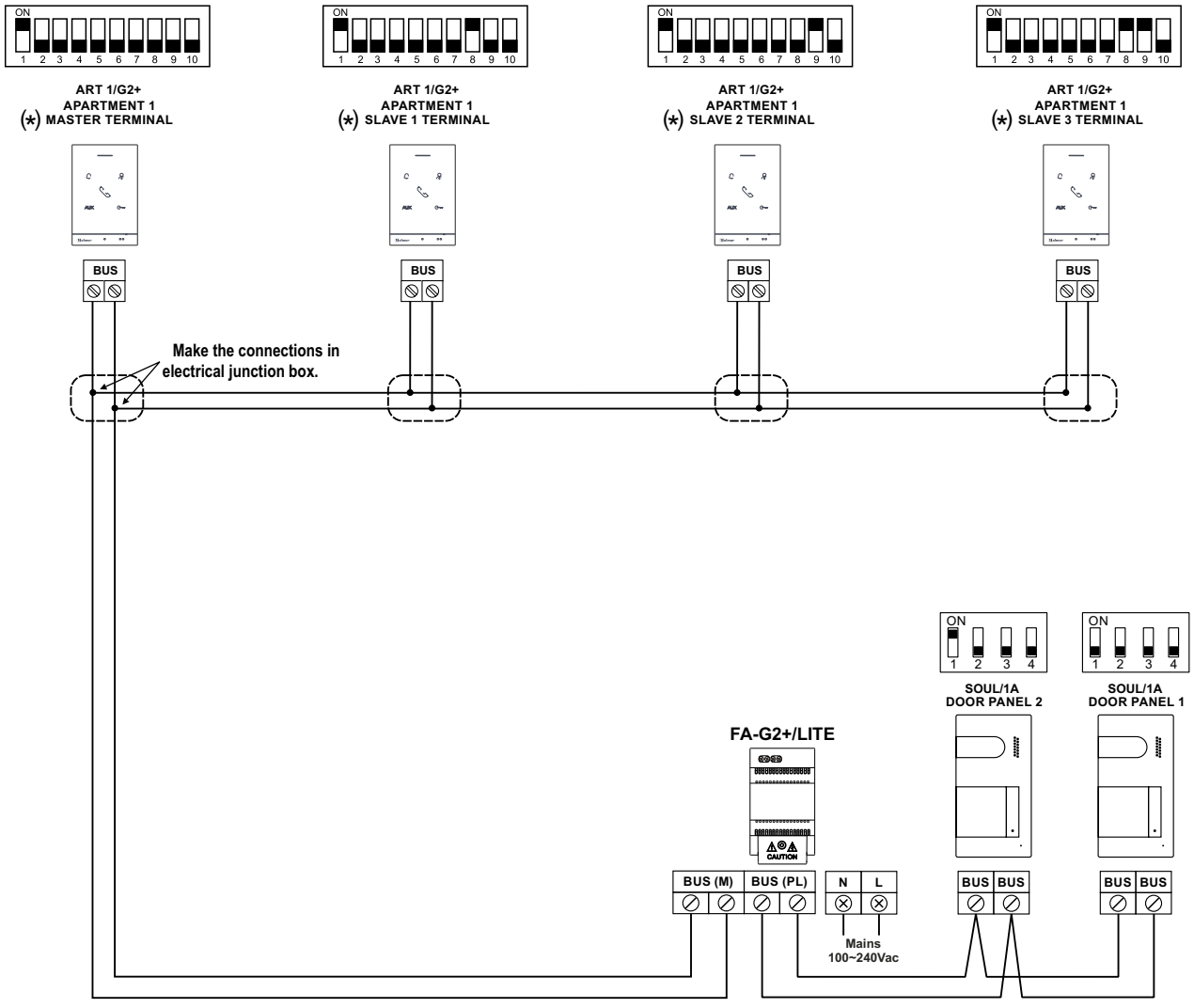
WIRING DIAGRAMS (ART 1/G2+ TERMINAL)

One apartment with up to two access panels and up to four ART 1/G2+ terminals in cascade



(*) **Note: To define whether the terminal is master (factory setting) or slave, see page 9.**

One apartment with up to two access panels and up to four ART 1/G2+ terminals (connection in electrical junction box)

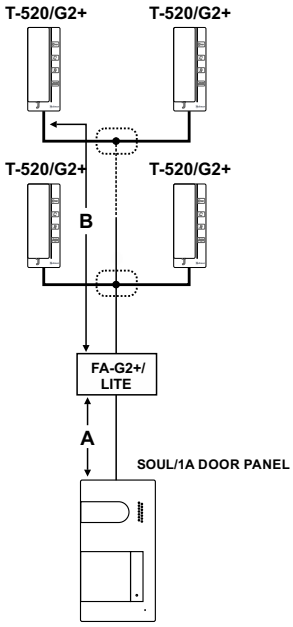


(*) **Note: To define whether the terminal is master (factory setting) or slave, see page 9.**

WIRING DIAGRAMS (T-520/G2+TELEPHONE)

Cross sections and distances

- Maximum 1 apartment.
- The maximum number of telephones in the apartment is 4.
- The maximum number of telephones in cascade is 4.
- Maximum two access door panels.

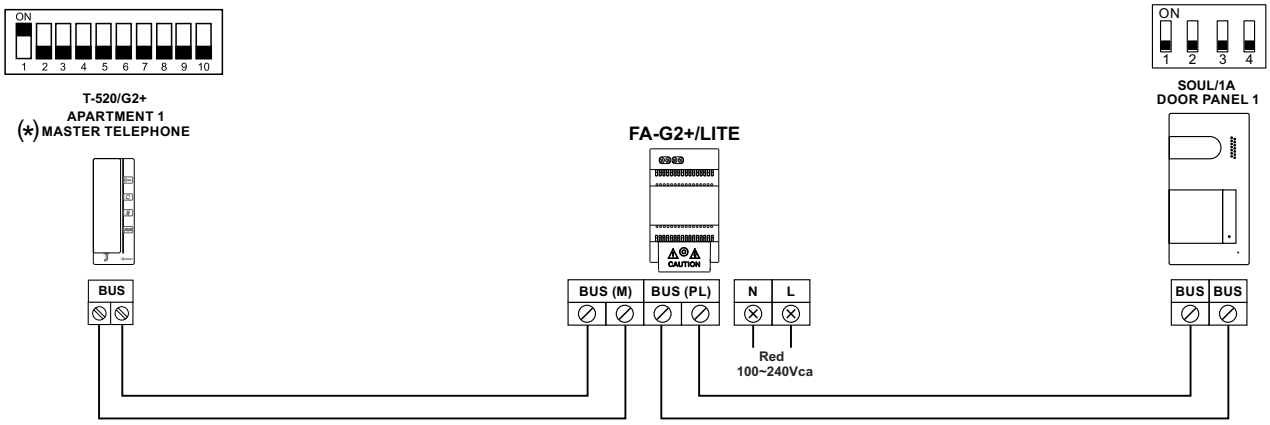


Type of cable	A	B
2 x 0,75mm² (AWG18)	30 m	30 m
CAT5 (*)	60 m	60 m
RAP-GTWIN/HF	80 m	190 m

A. Distance between power supply and the farthest door panel.
B. Distance between power supply and the farthest telephone.
(*). Use two twisted pairs for each bus line.

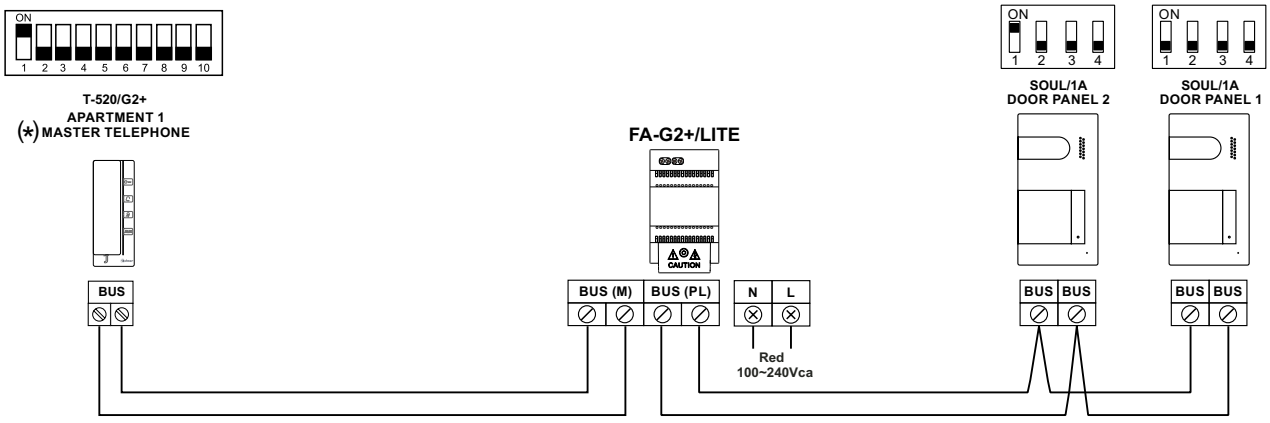
Important: Never use UTP cable of copper clad aluminum (CCA).

One apartment with one access panel and one T-520/G2+ telephone



(*) Note: Telephone set to master (factory setting), see page 15.

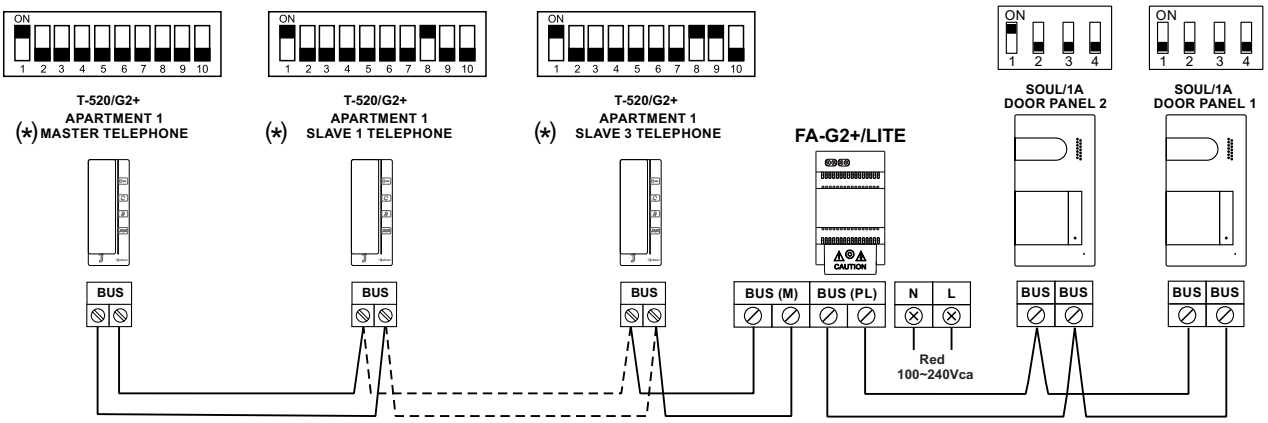
One apartment with two access panels and one T-520/G2+ telephone



(*) Note: Telephone set to master (factory setting), see page 15.

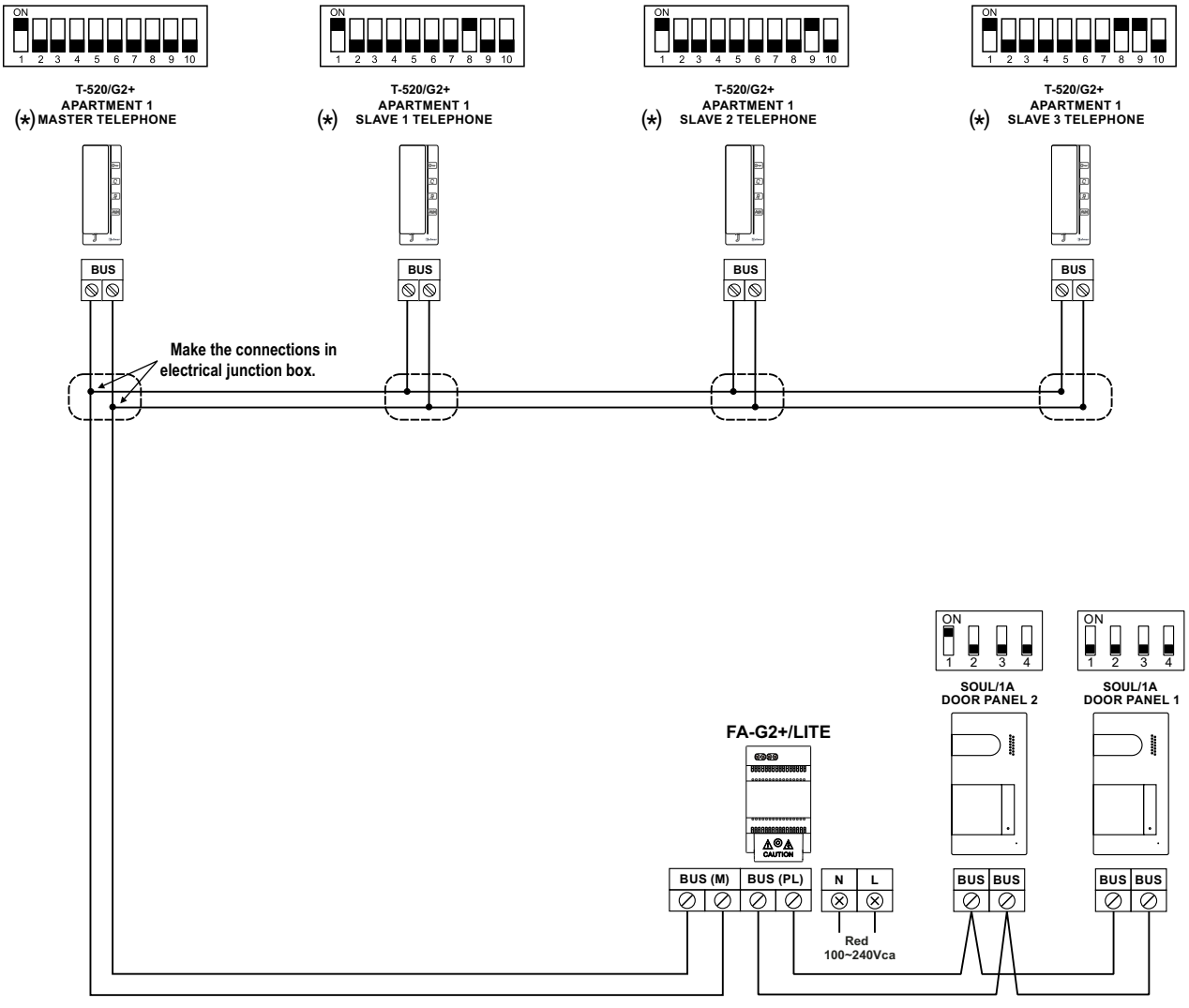
ESQUEMAS DE INSTALACIÓN (TELÉFONO T-520/G2+)

Una vivienda con hasta dos placas de acceso y hasta cuatro teléfonos T-520/G2+ en cascada



(*) **Note: To define whether the telephone is master (factory setting) or slave, see page 15.**

One apartment with up to two access panels and up to four T-ART LITE/G2+ telephones (connection in electrical junction box)



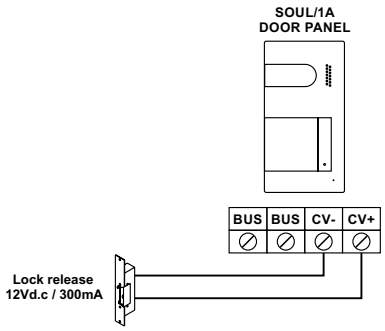
(*) **Note: To define whether the telephone is master (factory setting) or slave, see page 15.**

WIRING DIAGRAMS

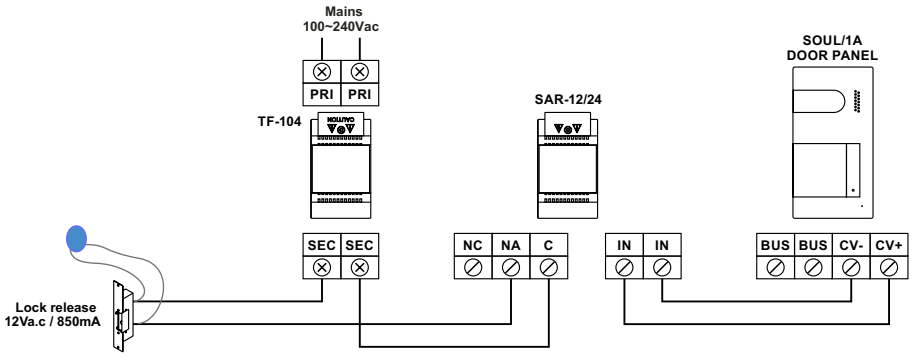
Connection of a lock release

The drawing shows the connection of a 12Vdc lock release, with a maximum consumption of 300mA. Activation is carried out through push button ⊂⌁ of ART 1 terminal / T-ART LITE telephone.

The activation time is 3 seconds, with the possibility of setting it to between 0.5 and 10 seconds (installer programmable).



If the lock release to be used is alternating current, use a relay and transformer suitable for the consumption, as well as the varistor supplied. The example shows a Golmar SAR-12/24 relay and a TF-104 transformer (12Vac/1.5A).

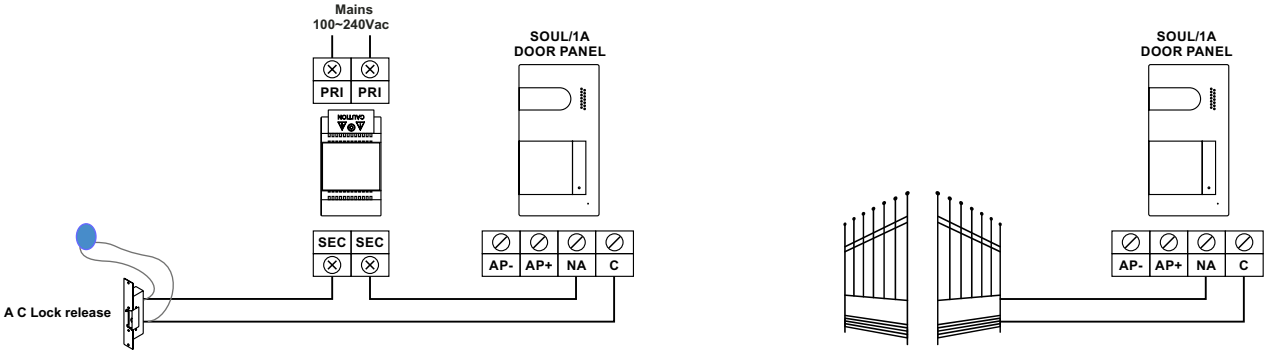


IMPORTANT: Installation with 2 access door panels and AP button on both door panels (see page 25), one of the door panels must connect the AC lock release (instead of DC lock release).

Connection of an auxiliary device at the relay output (ART 1 Terminal)

The drawing, by way of example, shows the connection of a second AC lock release. The relay can switch 6A/24V loads. Activation is carried out through push button AUX of ART 1 terminal.

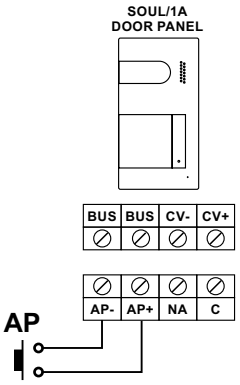
The activation time is 1 second, with the possibility of setting it to between 0.5 and 10 seconds (installer programmable).



WIRING DIAGRAMS

Connection of an output button

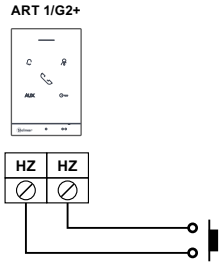
The output button allows remote activation of the lock release connected between the CV- and CV+ terminals (by default or of the relay output,**"installer programmable"**). The delay time in carrying out the activation is 2 seconds, with the possibility of setting it to between 0.5 and 10 seconds (installer programmable).



<u>IMPORTANT:</u> Installation with 2 access door panels and AP button on both door panels, one of the door panels must connect the AC lock release (instead of DC lock release) with a SAR-12/24 relay and a transformer TF-104, (see page 23).

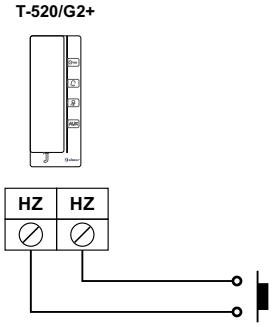
Connection for an apartment door button (ART 1/G2+ terminal)

Only connect the apartment door button to the master terminal of the apartment that will be receiving the call (see note "HZ" page 8). The signal received is then transmitted to the slave terminals in the same apartment).



Connection for an apartment door button (T-520 telephone)

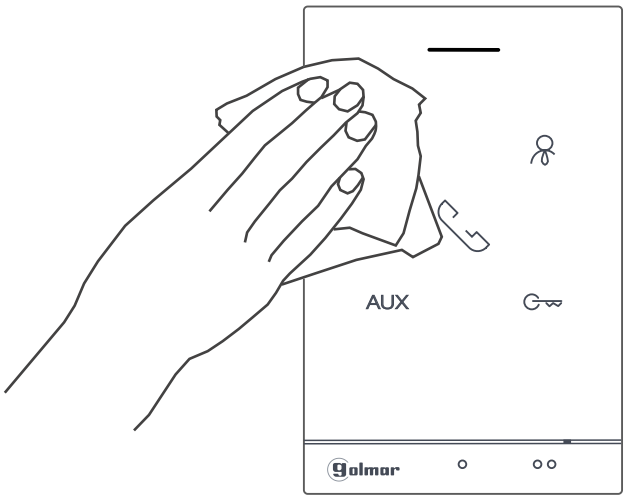
Only connect the apartment door button to the master telephone of the apartment that will be receiving the call (see note "HZ" page 14). The signal received is then transmitted to the slave telephones in the same apartment.



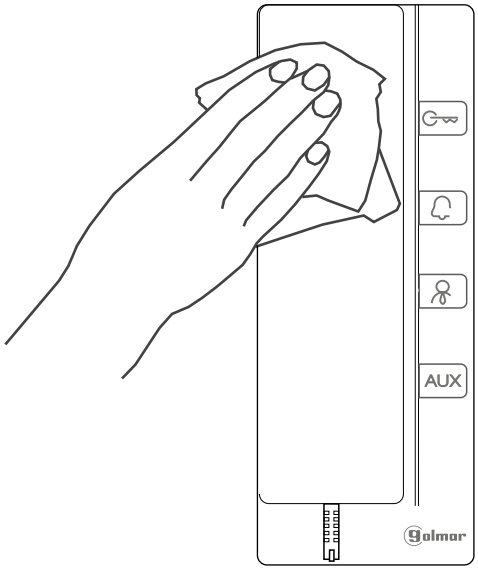
CLEANING THE ART 1/G2+ TERMINAL/ T-520/G2+ TELEPHONE

- Do not use solvents, detergents or cleaning products that contain acids, vinegar or abrasive components.
- Use a soft damp cloth (not wet) that sheds no fibres.
- Always wipe the terminal/ telephone in the same direction, from top to bottom.
- After cleaning the terminal/ telephone, remove any moisture with a soft dry cloth that sheds no fibres.

ART 1/G2+ terminal

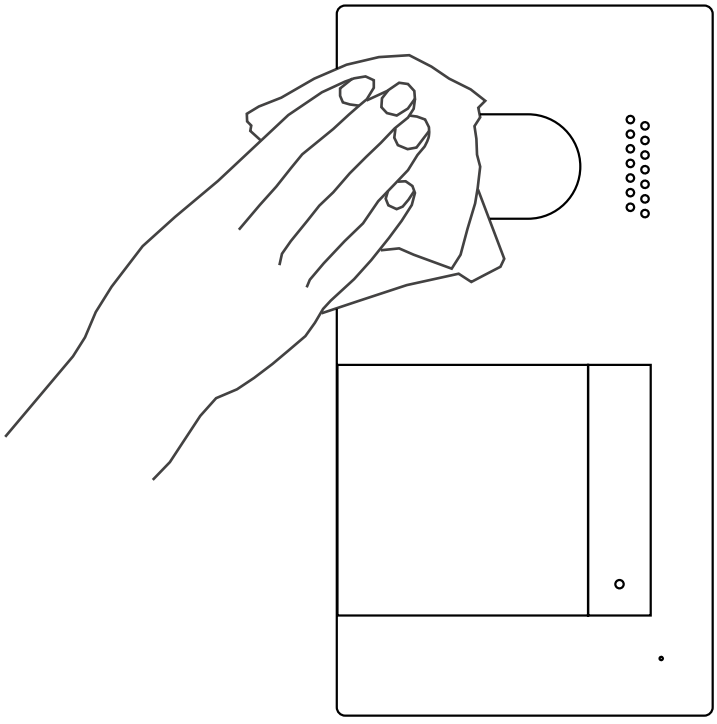


T520/G2+ telephone



CLEANING THE DOOR PANEL

- Do not use solvents, detergents or cleaning products that contain acids, vinegar or abrasive components.
- Use a soft damp cloth (not wet) that sheds no fibres.
- Always wipe the door panel in the same direction, from top to bottom.
- After cleaning the door panel, remove any moisture with a soft dry cloth that sheds no fibres.



CONFORMIDAD:

Este producto es conforme con las disposiciones de las Directivas Europeas aplicables respecto a la Seguridad Eléctrica ***2014/35/CEE*** y la Compatibilidad Electromagnética ***2014/30/CEE.***

This product meets the essentials requirements of applicable European Directives regarding Electrical Safety ***2014/35/ECC*** *and 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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