



USER MANUAL



TEKNA GTWIN MONITOR



INTRODUCTION

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

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.

CONTENTS

Introduction.....	2
Contents.....	2
Safety precautions.....	2
Characteristics.....	3
System operation.....	3
Description of the monitor.....	
Description.....	4
Status LED.....	4
Indicator LED.....	4
Communication with hearing aid.....	4
Function buttons.....	5
SW1 DIP switch.....	6-7
SW2 DIP switch.....	8
EL-569 module.....	8
RCTK monitor connector.....	9
Monitor fixing.....	10
Advanced programming (monitor functions).....	11
Programming the intercom function between different apartments.....	12-13
Programming the intercom function in the same apartment.....	14-15
Cancellation of the monitor's intercom codes.....	15
Optional connections.....	
-Button for receiving calls from the apartment front door.....	16
-Additional call repeater (SAV-GTWIN).....	16
-Additional call repeater with SAR-12/18 relay unit.....	17
-Monitors/telephones in parallel (input-output) in the same apartment.....	17
-Cleaning the monitor.....	18
Wiring diagram.....	19

SAFETY PRECAUTIONS

- Avoid overtightening the screws of the monitor connector.
- **Always disconnect the power supply** before installing or making modifications to the device.
- The fitting and handling of these devices must be carried out by **authorised personnel**.
- All of the wiring must run at least **40cm away from any other wiring**.
- Install the monitor 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 system to the mains, check the connections between the door panel, power supply, distributors and monitors.
- Always follow the instructions contained in this manual.

CHARACTERISTICS

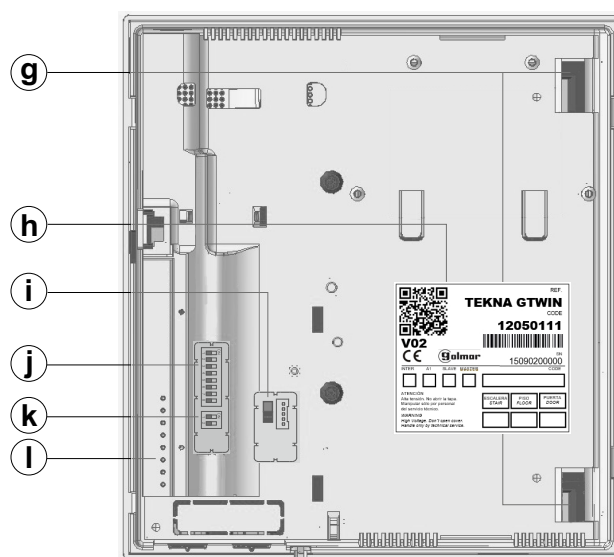
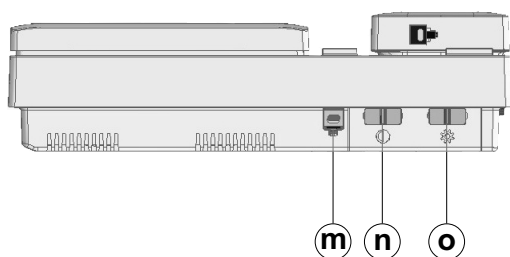
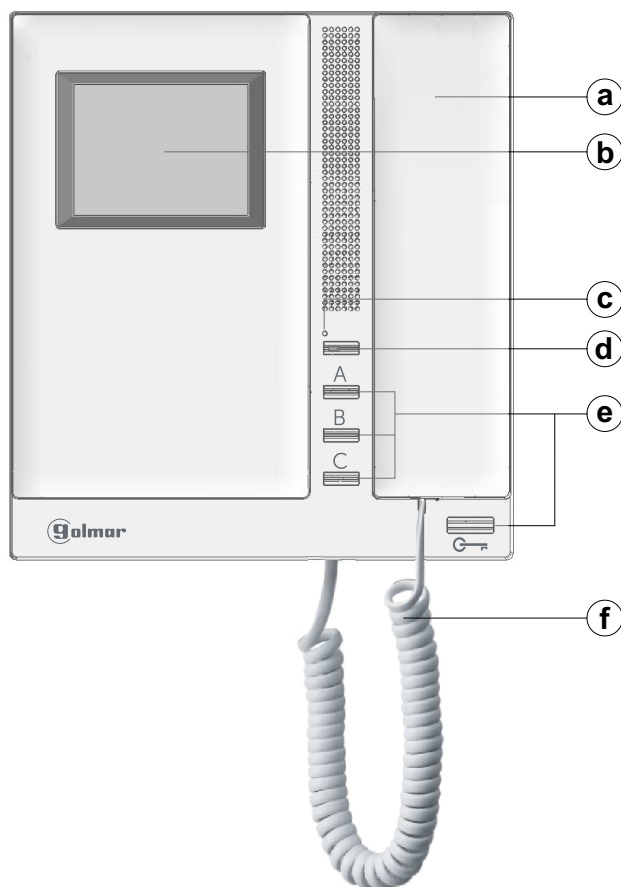
- Monitor for Gtwin installation.
- 3.5" TFT colour screen.
- Monitor with simple installation (unpolarised 2 wire BUS).
- Enables communication with hearing aids equipped with T-mode, making conversation possible (inductive loop).
- Function and programming access buttons (to customise monitor functions).
- Completely private conversation and image.
- Auto spy function.
- 'Doctor mode' function (automatic door opening, see p. 11).
- Intercom between two devices in the same apartment (programmable).
- Intercom between two devices in different apartments (programmable).
- Input for calls from the apartment front door.
- Call volume control (maximum, minimum and no volume).
- Output to auxiliary call repeater.
- Call to guard unit.
- Different ringtones to identify call origin: Main door panel, slave door panel, guard unit, intercom and interior door of the apartment.
- Control of brightness and colour.
- SW1 DIP switches for setting the 'call code (user)' monitor address.
- SW2 DIP switches for setting the monitor as master/slave 1, slave 2 or slave 3.
- Button for activating the main lock release.
- Button for activating the slave lock release.
- Monitor status LED.
- Indicator LED.

SYSTEM OPERATION

- To make a call, the visitor presses the button for the apartment, a number of audible tones indicate that the call is being made and LED  on the door panel illuminates. At this moment, the apartment's monitor(s) receives the call. If the visitor presses the button for another apartment by mistake, the call can be cancelled by pressing the button for the correct apartment.
- In systems with several access doors, the other door panel(s) will automatically disconnect; if another visitor wishes to call, LED  on the door panel will blink for 3 seconds. If the vocal synthesis module is installed on the door panel, the message 'communicating' will indicate that the channel is busy.
- General entrance door panels (main): If the call is being made from the general entrance door panel, the interior door panel of the building being called and other possible general entrance door panels automatically disconnect; if another visitor attempts to call from either a busy interior door panel, an audible tone will indicate that the channel is busy and LED  of the door panel will blink for 3 seconds, or from another general entrance door panel, an audible tone will indicate that the channel is busy and LED  of the general entrance door panel will blink for 3 seconds. The door panels of the other interior buildings will remain free to be used.
- General entrance door panels (main): If the call is made from an interior door panel, the other interior door panels will remain free to be used. It is only possible to make calls to interior buildings from the general entrance door panels when their door panels are not in use; if an attempt is made to make a call to a busy interior door panel, an audible tone will indicate that the channel is busy and LED  of the general entrance door panel will blink for 3 seconds.
- The call lasts for 60 seconds, during which time an image appears on the master monitor of the apartment when the call is received without the visitor knowing, and the indicator LED of the monitor(s) will illuminate (green). To view the image on a slave monitor, press button  and the image disappears from the monitor that was displaying it. If the call is not answered within 60 seconds, the indicator status LED on the monitor(s) and LED  on the door panel will turn off and the channel will become free.
- To establish communication, pick up the monitor handset, the indicator LED of the monitor will remain illuminated (green), LED  of the door panel will now illuminate and LED  of the door panel will turn off. Communication with hearing aid: The handset enables communication with hearing aids equipped with T-mode, making conversation possible (inductive loop).
- Guaranteed communication time is 90 seconds (configurable); after 90 seconds of guaranteed communication time, the channel will become free.
- To end communication, hang up the handset, the indicator LED of the monitor and LED  of the door panel will turn off and the channel will become free.
- To open the main or secondary door, press the corresponding button  / B during the call or communication processes: one press will activate the lock release for 1 second (configurable main door) and, with the opening of the main door, LED  will also illuminate for 1 second.
- A description of the function buttons can be found on p. 5.

DESCRIPTION OF THE MONITOR

Description of the Tekna Gtwin monitor:



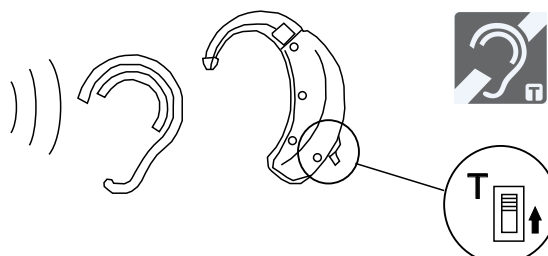
- a. Handset.
- b. Colour screen.
- c. Monitor status LED (three-coloured):
 - No volume (call): LED blinking red rapidly.
 - Doctor mode: LED blinking green.
 - State of the open door on the main door panel: LED illuminated red.
 - (See the TGTWIN SYSTEM MANUAL, p. 10).
 - State of the open door on the slave door panel: LED blinking red slowly.
 - (See the TGTWIN SYSTEM MANUAL, p. 10).
 - Programming mode: LED blinking yellow.
- d. Monitor indicator LED.
 - Standby: LED off.
 - In call, communication or auto spy: LED On green.
- e. Function/programming buttons.
- f. Telephone cord.
- g. Connector fixings.
- h. Identification label.
- i. J4 end of line jumper or EL569 in-out unit connector.
- j. DIP switches of the user code.
- k. DIP switches of the internal code.
- l. Connector connection points.
- m. Cord connector.
- n. Contrast control.
- o. Brightness control.

Communication with hearing aid:



The Tekna Gtwin monitor enables communication with hearing aids equipped with T-mode, making conversation possible (inductive loop).

Note: Device compatible with all hearing aids equipped with T-mode (ETS Standard 300381 and EN 60118).



DESCRIPTION OF THE MONITOR

Function buttons:

- A

In standby and with the handset off the hook: it activates the intercom between 2 devices in the same apartment or in different apartments (this feature must be pre-programmed, see p. 12-15).
- B

During a call, communication or auto-spy process, it enables the slave lock release to be activated: one press will activate the lock release for 1 second.

In standby and with the handset off the hook: it enables a call to be made to the guard unit.

In standby and with the handset off the hook: it activates the intercom between 2 devices in the same apartment or in different apartments (this feature must be pre-programmed, see p. 12-15).

Note: Activation of the *'intercom'* function disables the *'call to guard unit'* function.

In standby and with the handset on the hook: it enables programming mode to be entered or exited by pressing and holding for 5 seconds, a number of short audible tones will indicate that the monitor is in programming mode and the status LED will blink slowly (yellow) or a number of long audible tones will indicate that the monitor has saved and left programming mode, and the status LED will turn off.
- C

In standby and with the handset on the hook: it enables the image from the door panel configured as main to be viewed (if the channel is busy, a number of short audible tones on the monitor will indicate so); if the handset is then picked up, it enables audio and video communication with the door panel to be established.

During a call process: it enables the slave monitors (in the same apartment) to capture the image of the door panel, with the image on the monitor that was displaying it disappearing.

In standby and with the handset off the hook: it activates the intercom between 2 devices in the same apartment or in different apartments (this feature must be pre-programmed, see p. 12-15).
- During call reception and communication processes, it enables the main lock release to be activated.

To restore the monitor's default parameters, after entering programming mode by pressing button **B** for more than 5 seconds, simultaneously press buttons **B** and for more than 3 seconds; confirmation of the command will be indicated by 2 long audible tones and the monitor's exit from programming mode.

Description of the identification label:

REF.

TEKNA GTWIN

CODE:

12050111

SN

00000000000

V.XX

INTER

A1

SLAVE

MASTER

CODE

☐

☐

☐

☐

ESCALERA
STAIR

PISO
FLOOR

PUERTA
DOOR

ATENCIÓN
Alta tensión. No abrir la tapa.
Manipular sólo por personal
del servicio técnico.

WARNING
High voltage. Don't open cover.
Handle only by technical service.

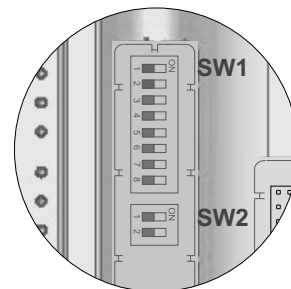
To facilitate repair, replacement or the addition of monitors to the existing installation, fill in the label with the relevant information.

MASTER: main monitor.
SLAVE: slave monitor.
INTER: monitor with intercom function.
A1: Not used.
CODE: call button code.
STAIRWAY: code of the channel (building).

MONITOR SETTINGS

SW1 DIP switch:

The **SW1** DIP switch is located on the left-hand side of the back of the monitor. It enables the monitor to be configured by assigning it a user code address (apartment).



CODE: User code.

Set a number from 0 to 126, respecting the following rules:

- In the column/riser, there should not be different apartments with the same user code.
- In the case of monitors/telephones in parallel in the same apartment, these must have the same user code.
- **The user codes of the same column/riser must be consecutive.**

To set the desired code, use the CODE DIP switches from 2 to 8 (2 = most significant bit and 8 = least significant bit); DIP switch 1 must be OFF.

SW1 DIP SWITCH:

(*) ON 1 2 3 4 5 6 7 8 USER 0	ON 1 2 3 4 5 6 7 8 USER 1	ON 1 2 3 4 5 6 7 8 USER 2	ON 1 2 3 4 5 6 7 8 USER 3	ON 1 2 3 4 5 6 7 8 USER 4	ON 1 2 3 4 5 6 7 8 USER 5
ON 1 2 3 4 5 6 7 8 USER 6	ON 1 2 3 4 5 6 7 8 USER 7	ON 1 2 3 4 5 6 7 8 USER 8	ON 1 2 3 4 5 6 7 8 USER 9	ON 1 2 3 4 5 6 7 8 USER 10	ON 1 2 3 4 5 6 7 8 USER 11
ON 1 2 3 4 5 6 7 8 USER 12	ON 1 2 3 4 5 6 7 8 USER 13	ON 1 2 3 4 5 6 7 8 USER 14	ON 1 2 3 4 5 6 7 8 USER 15	ON 1 2 3 4 5 6 7 8 USER 16	ON 1 2 3 4 5 6 7 8 USER 17
ON 1 2 3 4 5 6 7 8 USER 18	ON 1 2 3 4 5 6 7 8 USER 19	ON 1 2 3 4 5 6 7 8 USER 20	ON 1 2 3 4 5 6 7 8 USER 21	ON 1 2 3 4 5 6 7 8 USER 22	ON 1 2 3 4 5 6 7 8 USER 23
ON 1 2 3 4 5 6 7 8 USER 24	ON 1 2 3 4 5 6 7 8 USER 25	ON 1 2 3 4 5 6 7 8 USER 26	ON 1 2 3 4 5 6 7 8 USER 27	ON 1 2 3 4 5 6 7 8 USER 28	ON 1 2 3 4 5 6 7 8 USER 29
ON 1 2 3 4 5 6 7 8 USER 30	ON 1 2 3 4 5 6 7 8 USER 31	ON 1 2 3 4 5 6 7 8 USER 32	ON 1 2 3 4 5 6 7 8 USER 33	ON 1 2 3 4 5 6 7 8 USER 34	ON 1 2 3 4 5 6 7 8 USER 35
ON 1 2 3 4 5 6 7 8 USER 36	ON 1 2 3 4 5 6 7 8 USER 37	ON 1 2 3 4 5 6 7 8 USER 38	ON 1 2 3 4 5 6 7 8 USER 39	ON 1 2 3 4 5 6 7 8 USER 40	ON 1 2 3 4 5 6 7 8 USER 41
ON 1 2 3 4 5 6 7 8 USER 42	ON 1 2 3 4 5 6 7 8 USER 43	ON 1 2 3 4 5 6 7 8 USER 44	ON 1 2 3 4 5 6 7 8 USER 45	ON 1 2 3 4 5 6 7 8 USER 46	ON 1 2 3 4 5 6 7 8 USER 47
ON 1 2 3 4 5 6 7 8 USER 48	ON 1 2 3 4 5 6 7 8 USER 49	ON 1 2 3 4 5 6 7 8 USER 50	ON 1 2 3 4 5 6 7 8 USER 51	ON 1 2 3 4 5 6 7 8 USER 52	ON 1 2 3 4 5 6 7 8 USER 53

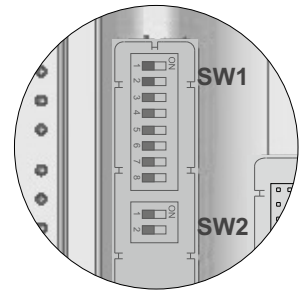
(*) Factory setting

Continued overleaf

MONITOR SETTINGS

SW2 DIP switch:

The **SW2** DIP switch is located on the left-hand side of the back of the monitor. It enables the monitor to be configured as master/slave.

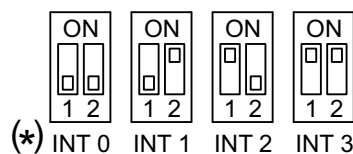


INT: Internal code of the monitor/telephone to set as master/slave.

Set the monitor/telephone as master, slave 1, slave 2 or slave 3 using the SW2 DIP switch with a code from 0 to 3 respectively. Taking into account the following points:

- In the case of a single monitor/telephone in the apartment, the code to be set will always be 0.
- In apartments, up to 4 monitors/telephones can be connected in parallel, all with the same user code but with different internal monitor/telephone code.
- The internal code serves to identify each of the monitors/telephones in the same apartment. This enables intercom calls to be made to a specific monitor/telephone in the same apartment. In the case of intercom calls to different apartments, and in the case of calls coming from door panels and from apartment front doors, all of the monitors/telephones in the apartment always sound. The following considerations must also be borne in mind:
- When master monitor/telephone 0 receives a call, it sounds immediately and slave monitors/telephones 1, 2 and 3 sound in succession, one after the other.
- If a call is made from a video door entry panel, master monitor/telephone 0 shows the image of the door panel. During the call time (60 seconds) and before establishing communication, the other slave monitors in the same apartment can capture the image of the door panel if button **C** is pressed, causing the image on the monitor that was displaying it to disappear.

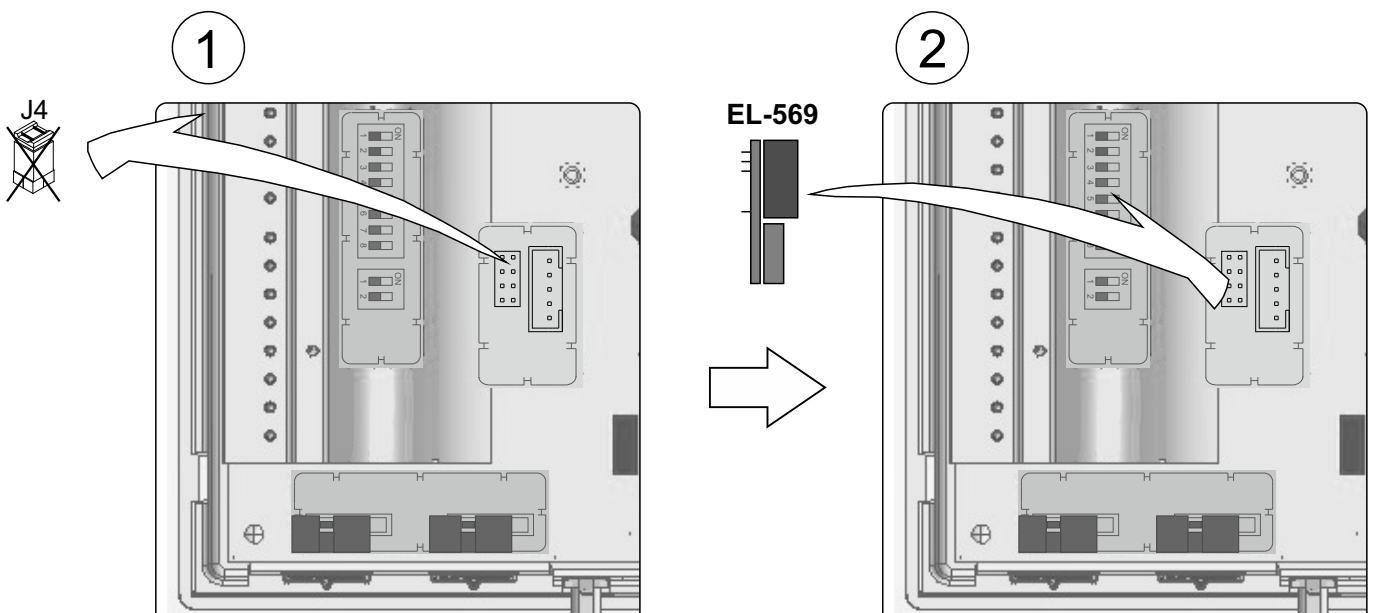
SW2 DIP SWITCH:



(*) Factory setting.

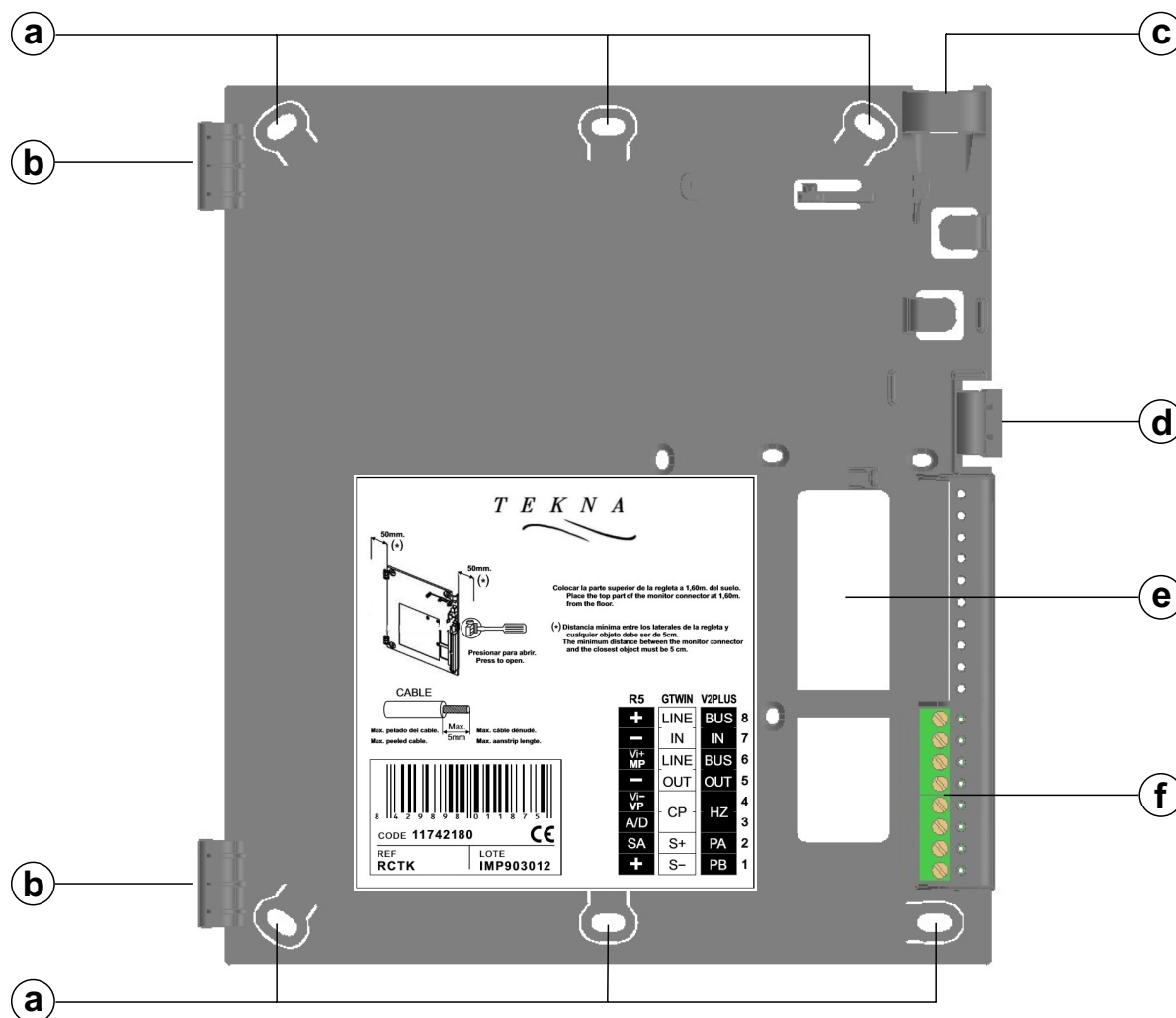
EL569 IN/OUT UNIT:

The EL569 In/Out unit must be inserted in all of the intermediate monitors and the J4 end of line jumper must be left inserted in the last monitor.



DESCRIPTION OF THE CONNECTOR

Description of the RCTK monitor connector:



- a. Holes for fixing to wall (x6).
- b. Monitor fixing clips (x2).
- c. Vertical wiring entry.
- d. Fixing clip.
- e. Central wiring entry.
- f. Connection terminals:

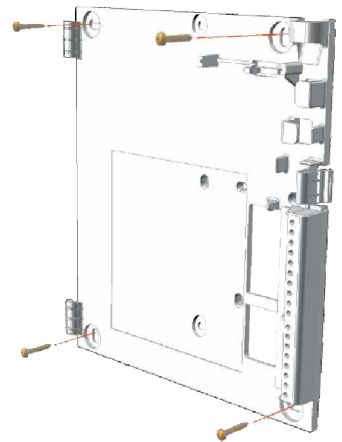
Line In: communication bus input to monitor (non-polarised).
 Line Out: communication bus output to additional monitor/telephone (non-polarised).
 CP: door bell button input.
 S+: output to auxiliary call repeater (SAV-GTWIN).
 S-: output to auxiliary call repeater (SAV-GTWIN).

INSTALLATION OF THE MONITOR

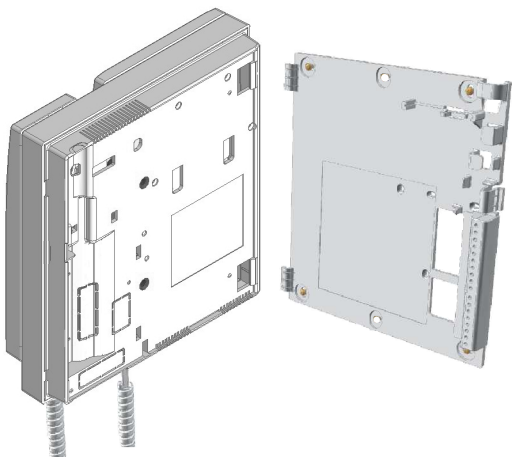
Fixing the monitor's wall mounting connector to the wall:

Avoid dusty or smoky environments or locations near sources of heat.
To fix the monitor directly to the wall, drill four Ø6mm holes and use the plugs and screws supplied.

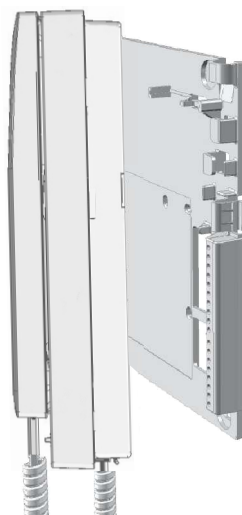
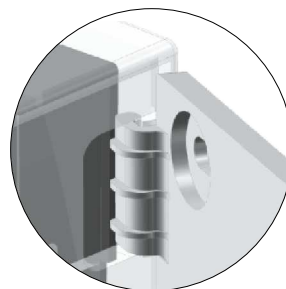
The top of the connector must be positioned at a height of 1.60m. The minimum distance between the sides of the connector and the closest object must be 5cm.



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

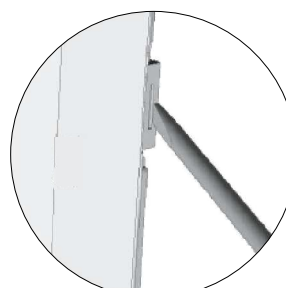


Place the monitor at right angles to connector and align the holes on its base with the fixing clips of the connector, as shown in the drawing.



Close the monitor like a book, applying pressure to the right-hand side until the click of the connector's fixing clips can be heard.

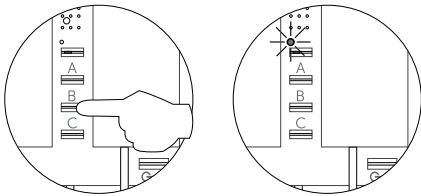
To remove the monitor from the connector after installation, use a flat screwdriver to release the fixing clips. Once the monitor has been released, open it like a book and remove it from the connector, making sure that it does not fall.



ADVANCED PROGRAMMING (MONITOR FUNCTIONS)

Advanced programming of the functions of the Tekna Gtwin monitor:

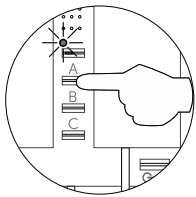
Advanced programming enables the monitor's default settings to be changed:



With the monitor in standby and the handset on the hook:
Press button **B** for more than 5 seconds to access '**programming mode**',
3 short audible tones will confirm this and the status LED will blink (yellow) slowly, indicating that button **B** can be released.

Then adjust the settings as required:

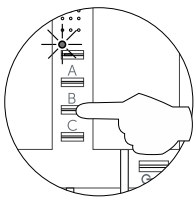
- **Adjusting the call volume:** high volume (default setting).



Adjusting the call volume: press button **A** to select the required volume. Options: maximum, minimum and no volume (if set to 'no volume,' the monitor's status LED will blink red rapidly when the monitor exits programming mode and is in standby) in 'carousel mode'.

- **Changing the door panel ringtone melody:**

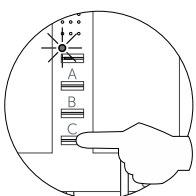
The monitor enables selection of the ringtone (5 different tones).



Select the ringtone melody: press button **B** until the desired melody is heard 'carousel mode'.

- **Changing the ringtone melody from the apartment front door:**

The monitor enables selection of the ringtone from the apartment front door (5 different tones).

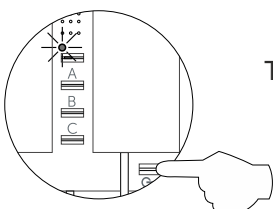


Select the ringtone melody from the apartment front door: press button **C** until the desired melody is heard 'carousel mode'.

- **Activating/deactivating the doctor mode function:** doctor mode not activated (default setting).

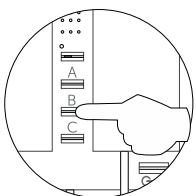
The 'doctor mode' function enables the main lock release to be activated automatically 3 seconds after making a call from the door panel without having to establish communication or press door release button . The call ends after 15 seconds and the channel becomes free.

(Only the master monitor should be configured with 'doctor mode').



To activate doctor mode: press button  once, an audible tone will indicate that the function is activated; if it is pressed again, an audible tone will indicate that the function will change its status to deactivated and so on. The monitor's status LED will blink (red) rapidly when the monitor exits programming mode and is in standby.

- **Exiting programming mode:**



To exit '**programming mode**', press button **B** for more than 5 seconds, 1 short and 2 long audible tones will confirm this and the status LED will turn off, indicating that button **B** can be released.

Note: depending on the function modified, the monitor's status LED will indicate this (see p. 4).

OPTIONAL PROGRAMMING (ADDITIONAL MONITOR FUNCTIONS)

Intercom function of the Tekna Gtwin monitor:

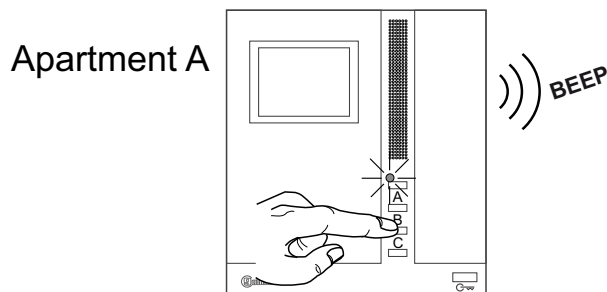
In the Gtwin system, a monitor/telephone button can be programmed to call another apartment in the same Building (channel) or to call another monitor/telephone in the same apartment. In the first case, all of the monitors/telephones of the apartment called sound; in the second case, only the monitor/telephone in the same apartment specified in the programming sounds.

Intercom function between different apartments:

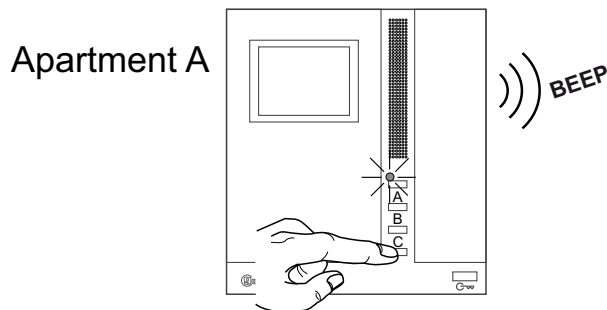
To programme a monitor/telephone in one apartment (apartment A) to call another apartment (apartment B):

Without picking up the handset.

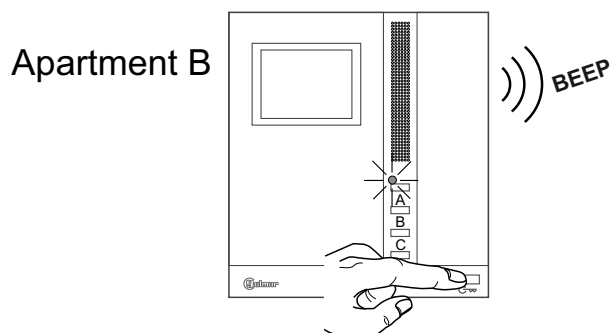
1. Press and hold the button B for more than 5 seconds: it emits 3 short tones and the slow blinking of the status LED (yellow) confirms entry into programming mode. In all cases, after 10 minutes elapse, the device exits programming mode and the modified parameters are saved.



2. Press the button (A, B or C) to be programmed for at least 3 seconds until the confirmation tone sounds.



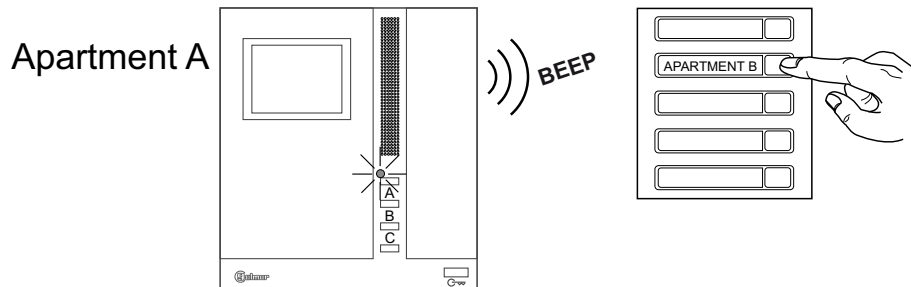
3. Go to the monitor/telephone of apartment B that has to call the button to be programmed in Step 2 and press the door release button. The monitors/telephones emit a completed programming beep.



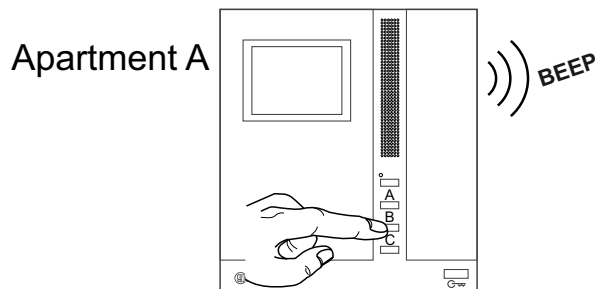
OPTIONAL PROGRAMMING (ADDITIONAL MONITOR FUNCTIONS)

Continued from previous page.

4. Or go to a door panel and press the call button of apartment B; the monitor/telephone in programming (apartment A) emits a completed programming beep. While this operation is being carried out, the monitors/telephones in apartment B sound. Ignore this call.



5. To exit programming mode, press and hold the button **B** for more than 5 seconds, 2 long tones are emitted and the status LED will turn off confirming exit.



6. Check the programmed function: lift the handset of the monitor/telephone (apartment A) and press the programmed button. In apartment B, a ringtone on all monitors/telephones in the apartment will be heard, pick up the handset of one of the monitors/telephones called and check communication.
7. If you also wish to programme the reverse call, it is necessary to programme the monitor/telephone in apartment B for the call to the monitors/telephones in apartment A.

Note:

- If button **B** is programmed for this function, activation of the 'intercom' function disables the 'call to guard unit' function.
- If buttons **A** and **C** are programmed for this function, the other functions are maintained.

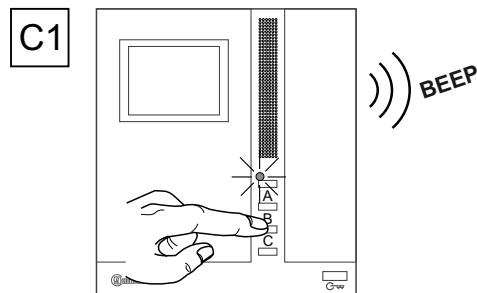
OPTIONAL PROGRAMMING (ADDITIONAL MONITOR FUNCTIONS)

Intercom function in the same apartment:

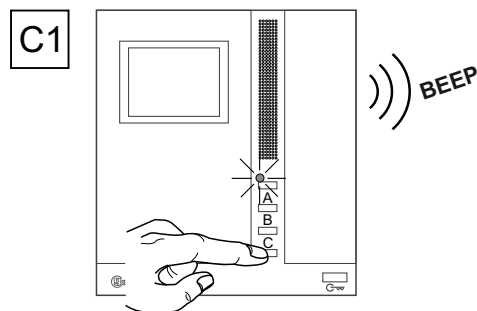
To programme a monitor/telephone (internal device C1) to call another monitor/telephone (device C2) in the same apartment:

Without picking up the handset.

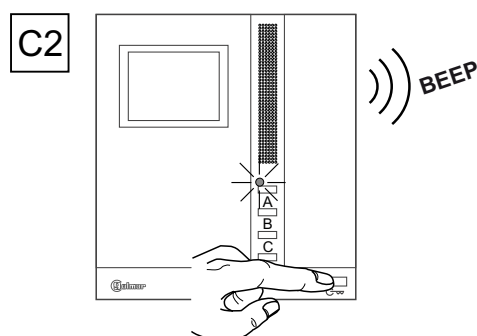
1. Press and hold the button B for more than 5 seconds: it emits 3 short tones and the slow blinking of the status LED (yellow) confirms entry into programming mode. In all cases, after 10 minutes elapse, the device exits programming mode and the modified parameters are saved.



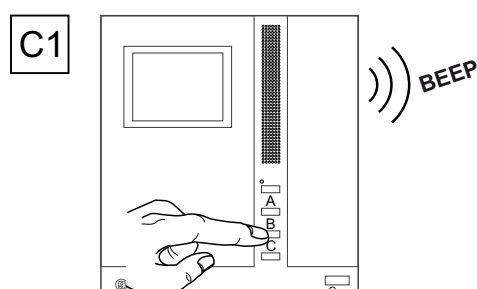
2. Press the button (A, B or C) to be programmed for at least 3 seconds until the confirmation tone sounds.



3. Go to the monitor/telephone (device C2) that has to call the button to be programmed in Step 2 and press the door release button. The monitors/telephones (device C1 and C2) emit a completed programming beep.



4. To exit programming mode, press and hold the button B for more than 5 seconds, 2 long tones are emitted and the status LED will turn off confirming exit from programming mode.



OPTIONAL PROGRAMMING (ADDITIONAL MONITOR FUNCTIONS)

Continued from previous page.

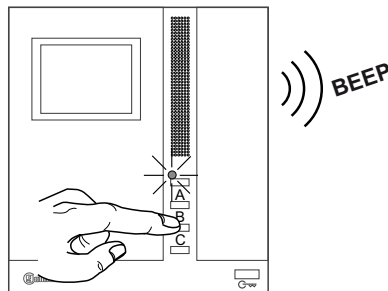
5. Check the programmed function: lift the handset of the monitor/telephone (device C1) and press the programmed button. On the monitor/telephone (device C2), a ringtone will be heard, pick up the handset and check communication.
6. If you also wish to programme the reverse call, it is necessary to programme the monitor/telephone (device C2) for the call to the monitor/telephone (device C1) in the same apartment.

Note:

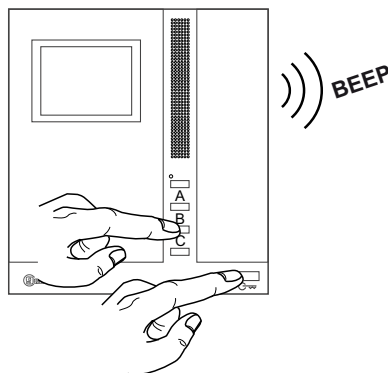
- If button **B** is programmed for this function, activation of the 'intercom' function disables the 'call to guard unit' function.
- If buttons **A** and **C** are programmed for this function, the other functions are maintained.

Cancellation of the intercom call codes of the monitors/telephones:

1. Press and hold the button B for more than 5 seconds: it emits 3 short tones and the slow blinking of the status LED (yellow) confirms entry into programming mode. In all cases, after 10 minutes elapse, the device exits programming mode and the modified parameters are saved.



2. Press buttons **B** and **⏏** simultaneously for more than 3 seconds, the command is confirmed by 2 long tones and exit from programming mode.



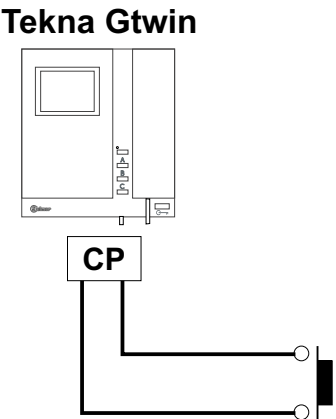
OPTIONAL CONNECTIONS

Button for receiving calls from the apartment front door:

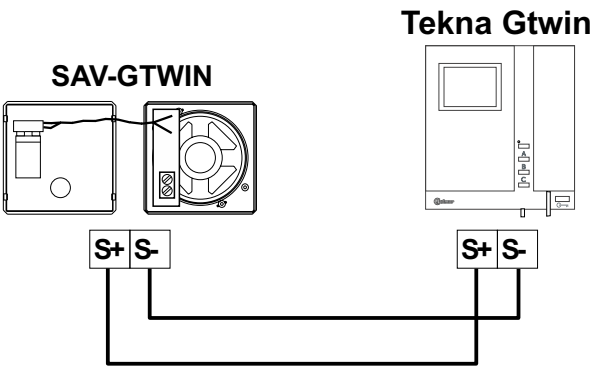
The Tekna Gtwin monitor features as standard the ability to receive calls from the apartment front door. This feature precludes the need to use the bell by positioning a button between the 'CP' terminals of the monitor.

The ringtones vary depending on where the call is being made from, enabling the user to identify its origin. If a call is made from the apartment front door during a conversation with the door panel, the monitor will emit a number of tones to indicate so.

Note: the volume of the 'apartment front door call' ringtone will depend on the volume set for the ringtones on the monitor (see p. 11).



Additional call repeater (SAV-GTWIN tritonal call repeater required):



Configuration of the SAV-GTWIN tritonal call repeater:

Place a 9V battery (type MN1604/6LR61) inside the call repeater. The call repeater features 2 configuration jumpers marked as W1 and W2 for selecting the type of sound (triple tone, double tone or single tone), as shown in the following table:

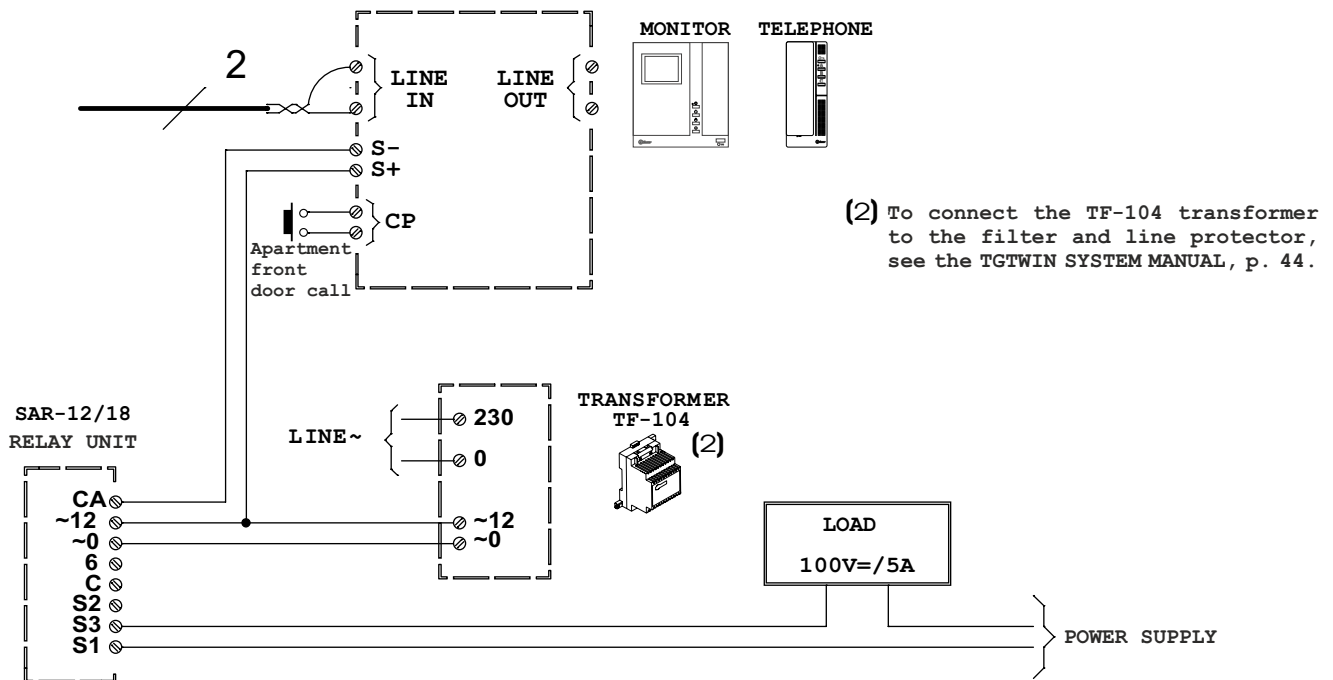
	TYPE OF SOUND	JUMPER		
		W1	W2	
(*)	TRIPLE TONE	X	X	both jumpers fitted
	DOUBLE TONE	X		only the W1 jumper: the W2 is removed
	SINGLE TONE		X	only the W2 jumper: the W1 is removed

(*) Factory setting.

OPTIONAL CONNECTIONS

Continued from previous page.

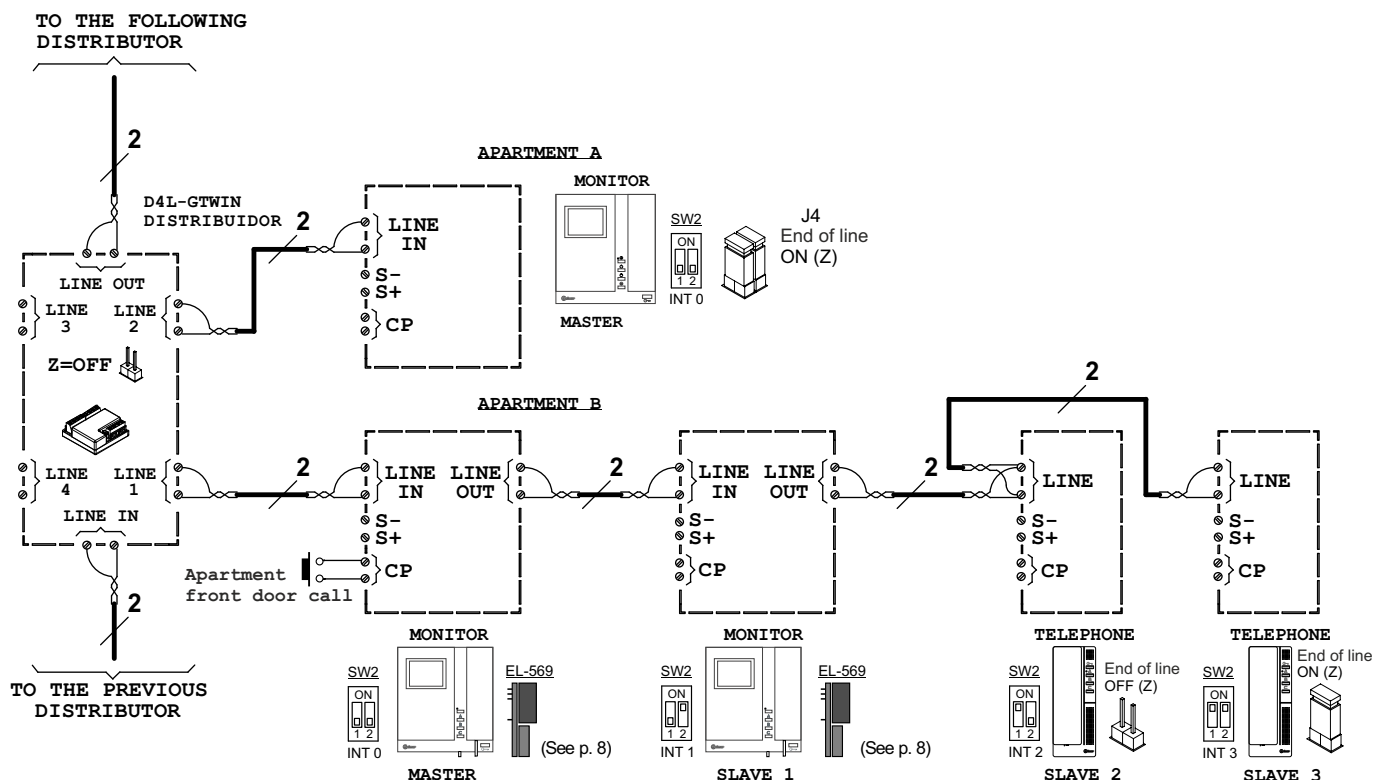
Additional call repeater with SAR-12/18 relay unit in monitor/telephone.



**Monitors/telephones in parallel (input/output) from a bypass of the D4L-Gtwin distributor:
max. connection 4 monitors/telephones in one apartment.**

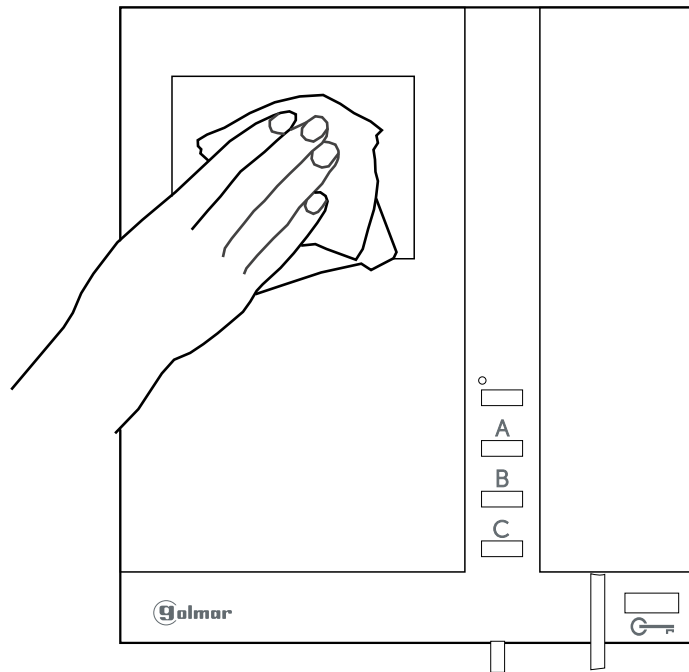
Tekna Gtwin monitor: The EL569 in/out unit must be inserted in all of the intermediate monitors and leave the end of line (Z) inserted in the last monitor (see p. 8).

Note: All devices must have the same apartment call code. The internal code of the Main device must be equal to 0.



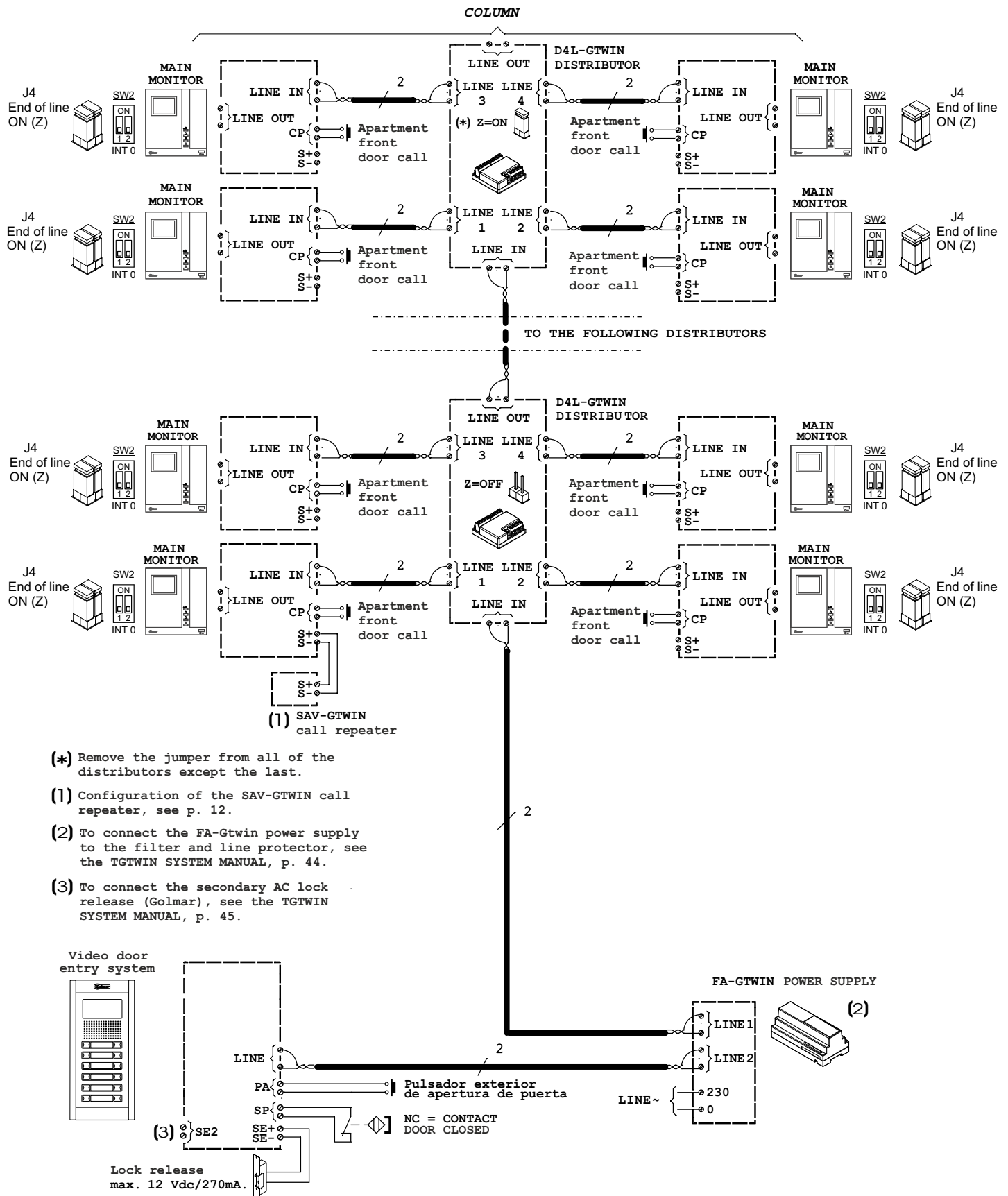
CLEANING THE MONITOR

- 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 monitor in the same direction, from top to bottom.
- After cleaning the monitor, remove any moisture with a soft dry lint-free cloth.



WIRING DIAGRAMS

One building with 1 column of up to 127 monitors and 1 main video panel (buttons).



Note: Button panel up to 122 apartments.

Important:

For further information about the door panel, sections, distances, other wiring diagrams, etc., see the TGTWIN SYSTEM MANUAL.
<https://doc.golmar.es/search/manual/50122345>



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