



T400EN

rev.0204

Audio and Video  
door entry system  
digital installation  
with coded panel

*295 Series*

Instructions manual

First of all we would like to thank and congratulate you for the purchase of this product manufactured by Golmar.

The commitment to reach the satisfaction of our customers is stated through the ISO-9001 certification and for the manufacturing of products like this one.

Its advanced technology and exacting quality control will do that customers and users enjoy with the legion of features this system offers. To obtain the maximum profit of these features and a properly wired installation, we kindly recommend you to expend a few minutes of your time to read this manual.

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- ☞ Microprocessed systems with bus installation (no call wires):
  - ☞ Audio system with 4 common wires installation.
  - ☞ Video system with 3 common wires plus coaxial cable.
  - ☞ Video system with 4 common wires plus twisted pair cable.
- ☞ Unlimited number of door panels being not necessary the use of switching units.
- ☞ Acoustic busy channel and call acknowledgement signals.
- ☞ d.c. lock releases activation.
- ☞ Timed door open activation.
- ☞ In Platea Plus monitors or T-940 Plus telephones:
  - ☞ Privacy on audio and video communications.
  - ☞ 'Video-Spy' function remaining the communication channel free.
  - ☞ Intercommunication function with other monitor or telephone of the same apartment.
  - ☞ Input for door bell apartment push button.
  - ☞ Different call reception tones depending where the call is coming from: main or slave door panels, door bell push button, intercom, ...
  - ☞ Activation of two auxiliary devices: secondary telecamera, courtesy light, ...
  - ☞ Up to three monitors or telephones in the same apartment without additional power supplies.

## UPDATED FEATURES FROM 5.00 VERSION

- ☞ Management of up to 255 internal buildings of 1,000 apartments each.
- ☞ New programming menu structure.
- ☞ Direct Call Code that allows to use a different call code from the one recorded on the monitor or telephone (page 11).
- ☞ 'Repertory:insert' function, that allows to keep sorted the repertory content (page 17).
- ☞ Transmission of the repertory content to other panels or porter's exchanges through the installation wires (page 18).
- ☞ Third access control code with time restriction (page 15).
- ☞ Text edition using the keypad as a mobile phone (page 19).
- ☞ Previous software versions are fully compatible, except when the Direct Call Code is activated or the number of internal buildings is bigger than 99.

## STARTING RECOMMENDATIONS

- ☞ Do not use excessive force when tightening the power supply connector screws.
- ☞ Install the equipment without the power connected. Disconnect from power before any system modification. Check that the input voltage is lower than 230Va.c.
- ☞ Before to connect the system, check the connections between door panel, monitors and telephones, and the transformer connection. Do always follow the enclosed information.
- ☞ Each time the power supply is restarted, or after a modification, the system will remain blocked during 30 seconds.
- ☞ Always use RG-59 or RG-11 coaxial cables. Never use coaxial antenna cable. In installations no longer than 100m., Golmar RAP-5130 cable can be used.

## One building systems.

- ☞ To make a call, the visitor should key-in the three digits code corresponding to the apartment he wishes to contact: the door panel display will show the sequence keyed-in. Once the code has been introduced, press bell key to confirm the call: acoustic tones will be heard confirming the call is in progress and the door panel display will show the message **calling**. At this moment the call will be received at the monitor (telephone) in the dwelling. If an incorrect code has been keyed-in, press CANCEL key and try again.  
In systems with several access doors, the other(s) door panel(s) will be automatically disconnected: if a visitor tries to call from other door panel an acoustic tone will be heard confirming the system is busy and the door panel display will show the message **busy**.  
The call tone will be reproduced on the monitor during 3 seconds: after this time the picture will appear on the master monitor without the visitor being aware of this. To see the picture in a slave monitor press the ⊕ push button, disappearing the picture on the other monitor. If the call is not answered in 45 seconds, the system will be freed.
- ☞ To establish communication pick up the monitor (telephone) handset. The communication will last for one and a half minutes or until the handset is replaced. During the communication the door panel display will show the message **communication**. Once the communication has finished the system will be freed.
- ☞ To open the door, press the door release push button during call or communication progresses: with one press, the door release operates during the programmed time. During the lock release activation an acoustic tone will be heard on the door panel confirming the lock release is activated, and the door panel display will show the message **door opened**.
- ☞ The monitor and telephone push buttons description is shown on pages 22 and 27 respectively.

## Systems with general entrance door panel(s) and several internal buildings.

- ☞ To make a call from a general entrance door panel, the visitor should key-in the five digits code corresponding to the apartment building he wishes to contact: the door panel display will show the sequence keyed-in. Proceed as described on the previous paragraph to establish the call progress. The corresponding internal door panel and the other general entrance door panels (if exist): if a visitor tries to call an acoustic tone will be heard confirming the system is busy, and the door panel display will show the message **busy**. The rest of door panels are free to establish communication.
- ☞ To make a call from an internal door panel proceed as described on the previous paragraph. The rest of internal door panels are free to establish communication. A call from the general entrance door panel can be made to any of the internal buildings, except to the one in communication.

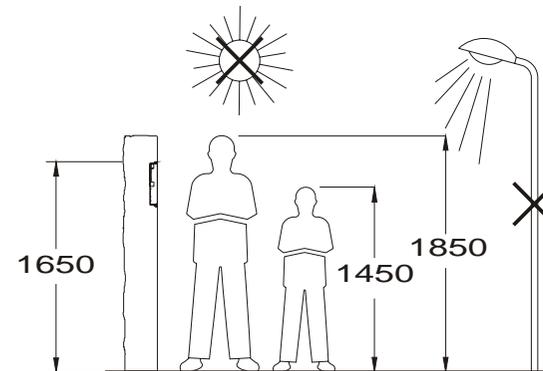
## Use of the repertory names.

- ☞ If the visitor don't know the code of the apartment he wishes to contact, he could find it on the repertory name by searching through the arrow keys. Once the code has been found, the call can be made by pressing the bell key. Refer to page 19 for details about fast repertory searching.

## Lock release activation using the access control.

- ☞ To open the door using the access control facility, press KEY symbol and one of the valid access codes. During the lock release activation an acoustic tone will be heard on the door panel confirming the lock release is activated, and the door panel display will show the message **door opened**. If an incorrect code has been keyed-in, press CANCEL key and try again. The introduction of three wrong consecutive codes freezes the access control during 60 seconds.

## Embedding box positioning.

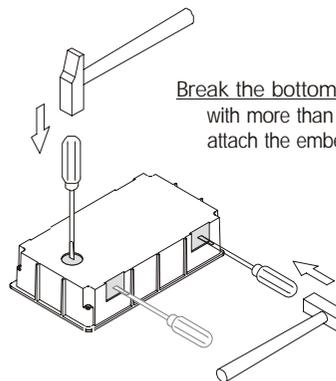


The upper part of the door panel should be placed at 1,65m. height roughly. The hole dimensions will depend on the number of door panel modules.

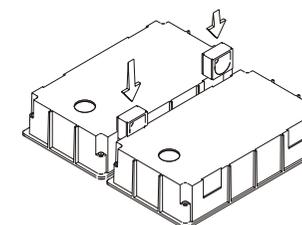
Modules	1	2	3
W	140	280	420 mm.
H	235	235	235 mm.
D	57	57	57 mm.

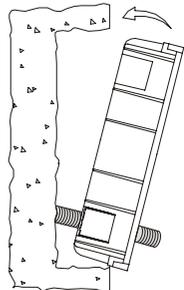
The door panel has been designed to be placed under most of the environmental conditions. However it's recommended to take additional cautions like rainproof covers. To obtain a good quality picture on video door entry systems, avoid direct incidence from light sources.

## Preparing the cables entry.



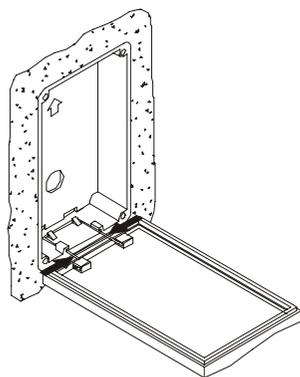
Break the bottom flange to pass the cables through. In case of door panels with more than one embedding box, break the side flanges and attach the embedding boxes using UC junctions.





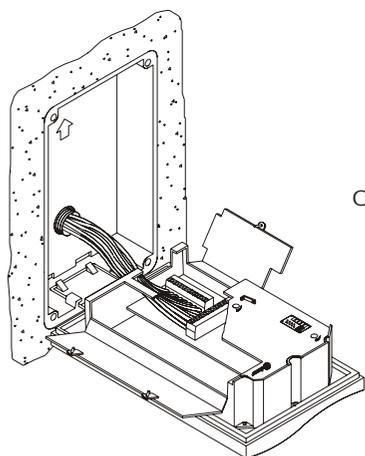
**P**lace the embedding box.

Pass the wiring through the hole made in the bottom part of the embedding box. Level and flush the embedding box. Once the embedding box is placed, remove the protective labels from the attaching door panel holes.



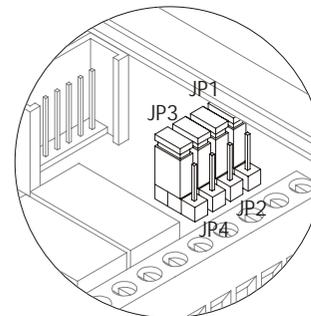
**H**old the door panel on the embedding box.

Insert the hinge in the embedding box lockers. Press the hinge ends to insert them in the door panel lockers as shown.



**D**oor panel wiring.

Open the terminal connector cover and connect the wires as shown on the installation diagram.



**D**escription of the configuration jumpers.

The JP1 to JP4 configuration jumpers are placed near of the terminal connector, and are accessible by opening the terminal connector protection cover.

Jumper JP1 allows the activation of a heater resistor, that prevents from telecamera window condensations when the panel is installed in humid areas. Check the availability of this heater resistor. Factory default: disabled.



Enabled.



Disabled.

Jumper JP2 loads the installation with a communications resistor. For a proper system operation, activate this resistor only in the closest door panel to the backbone installation or in the general entrance door panel (if exists). Factory default: enabled.



Enabled.



Disabled.

Jumper JP3 selects the volume of the door panel acknowledgement signals (call in progress, system busy and door opened). If after starting the system it's considered that the volume is too high, modify the jumper position. Factory default: maximum.

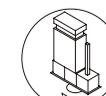


Maximum.



Minimum.

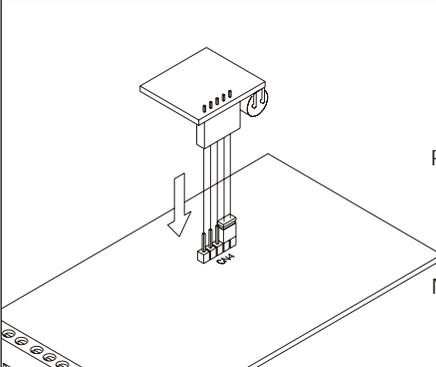
Jumper JP4 allows to reset the installer PIN code to the factory default (see page 9). Use this function only in case to forget this code. With the system switched on, change the jumper position to reset the code and return it to the standby position.



Reset.



Standby.



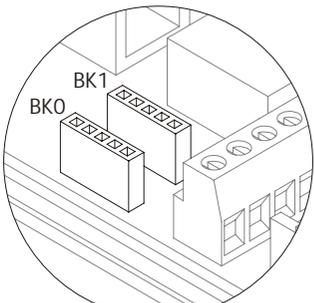
**O**ptional. EL560 module for video installations with twisted pair cable.

Plug the EL560 module in the CN4 connector. The CN4 connector is accessible by unbolting the five screws of the pcb cover protection. Once the connector has been located, remove the existing jumper and plug the module in.

NOTE: on this type of installations the EL561 module must be plugged in all the monitors. Refer to the specific installation diagram.

**M**emory banks.

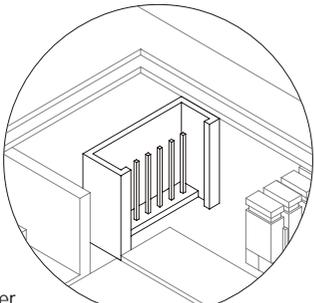
The door panel has two memory banks to plug 256Kb memory modules in. Each module allows to record the custom text for a maximum of 1000 users. The system is delivered with one memory module placed in the bank number 0 (BKO), where the system configuration will be recorded.



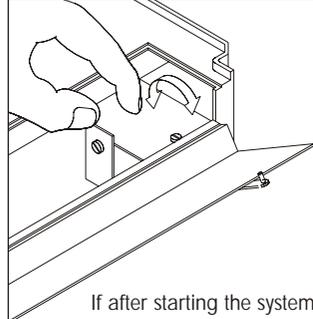
**IMPORTANT:** in case of door panels with two memory modules, don't change their bank position once they have been recorded. BKO bank module must always have a memory module plugged in.

**C**omputer connection.

It's possible to program the door panel using a computer through its RS-232C port. An interface (not included) should be connected to CN10 door panel connector. MEMEDIT software (included with the interface) will allow to program the door panel and to save a copy of each system. In case of memory damage it will be possible to restore the system configuration from the computer.

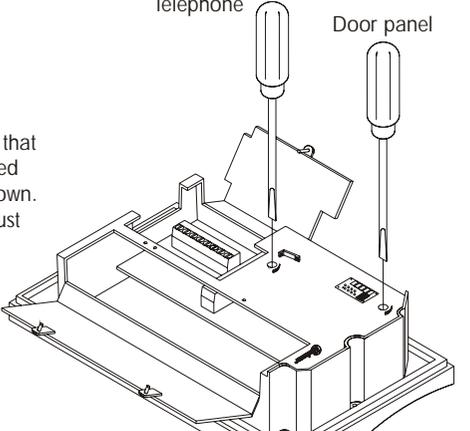


**F**inal adjustments.



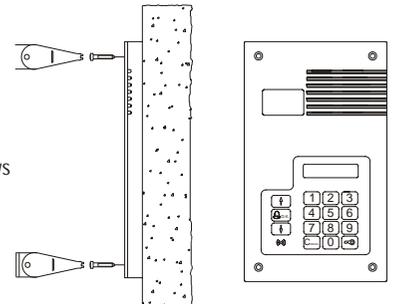
Monitor Telephone Door panel

If after starting the system it's considered that the audio volume isn't correct, proceed with the necessary adjustments as shown. Use the included pan mechanism to adjust the telecamera position.



**C**lose the door panel.

Fix the door panel to the embedding box by using the supplied vandal resistant screws and the special screwdriver.



**P**rogramming menu.

It will be necessary to enter into the programming menu to configure the system properties. For a proper system operation, the menus marked with an asterisk must be configured. Two different programming menus are available: installer, that allows to modify any of the system properties and user, that only allows changes that do not affect the system operation. Programming options with black text and white background are available in both menus; options with white text and black background are only available on installer menu. The first time you enter into the programming menu, the display messages will appear in spanish. Press OK when the display shows the message `configuracion`: the display will show now `castellano`. Press OK to change to english or till the desired language appears. If the option Direct Call Code (page 11) is disabled, it will not be necessary to fill the repertory name for a proper system operation.

Use the arrow keys to move through the programming menu. Option changes will be validate by pressing OK key, even if CANCEL key is pressed later. Use CANCEL key to exit from the configuration menu. The door panel will automatically exit from the configuration menu after 90 seconds with no operation.

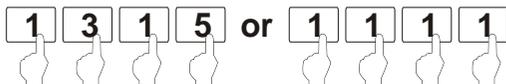


gol mar 16:30



To enter into the main programming menu, press key symbol and enter the installer PIN code (factory default: 1315) or the user PIN code (factory default: 1111).

pin code pin: \_\_\_\_\_



\* configuration

On this menu the system configuration options can be changed. Press OK to enter into this menu.

↓ access control

Access control options can be changed on this menu. Press OK to enter into this menu.

↓ reper tory

This menu allows to fill the repertory and to change its options. Press OK to enter into this menu.

Continue

Coming from previous page

**C**onfiguration menu.

configuration



To enter into configuration menu, follow the steps described on the previous page and press OK when the display shows the message CONFIGURACION.

engl ish

Allows to choose the language of the displayed messages and the programming menus. To choose a different language press OK until the desired language will be displayed.

↓ \* master panel yes

Each system must have one master panel only; the rest of panels must be slave. In systems with general entrance panel configure as master one panel of each internal building. Press OK to change this value.

↓ \* general panel yes

If this panel is a general entrance door panel select YES. Press OK to change this value.

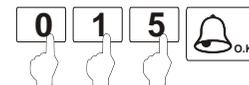
↓ \* panel address :000

Sets the building code. In buildings with more than one panel, set them with the same code; in systems with general entrance panel, set 0 code for the general entrance panel and a different code for each internal panel (valid codes are from 1 to 255).

modify val ue :000



To change this value press OK: the display will show the message modify val ue. Key in the new building code and confirm by pressing OK. If CANCEL is pressed the former value will be restored.



panel address :015

↓ \* panel w. camera yes

If this panel is a video door panel select YES. Press OK to change this value in case of audio door panel only.

Continue

Coming from previous page

Configuration menu.



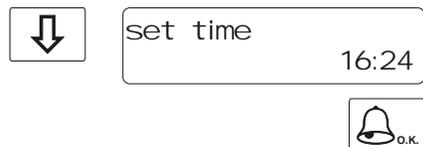
If the option YES is selected, the calls made on the door panel will be transferred to the porter's exchange (if exists) in a first attempt. To enable this function, the porter's exchange must enable its capture panel function. Press OK to change this value.



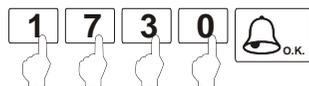
Allows to establish video and/or audio communication without a previous call. In buildings with several panels, this function can be activated in one of them only; in systems with general entrance panel, this function can be activated in the internal building door panels only. Press OK to change this value.



Allows the activation of a second call code for each apartment, that can be different to the programmed call code. This code must be assigned on the repertory menu (page 16). Press OK to disable or enable this feature.



The system has an internal clock that allows to show the time on the door panel display when the system is on stand-by position. This feature can be disabled on the following step and on the user menu.



An internal battery keep the system on time even if the power supply is disconnected during a long period of time.

To set the time press OK: the display will show the message modify value. Key in the hour value from 0 to 23 and minutes value from 0 to 59 and confirm by pressing OK. If CANCEL is pressed the former value will be restored.



Allows to show or to hide the display clock when the system is on stand-by position. Press OK to change this value.

Continue

Coming from previous page

Configuration menu.

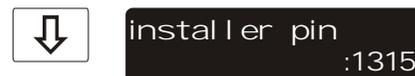


The door panel display shows this message when the system is on stand-by position. Use this text to show i.e. the building name or address.



To change this message press OK and proceed as described on page 19.

Once the modification has been done the display will show the message settings recorded, and will return to the initial screen.



Allows to change the installer PIN code to enter into the installer programming menu (page 105).

Do not let know this code to untrained people; any change on the programming menu could produce a system failure.



To change the PIN code press OK: the display will show the message modify value.

Key in the new code and confirm by pressing OK. If CANCEL is pressed the former value will be restored.



Always use a four digits code.



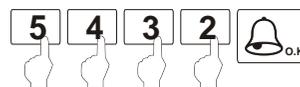
Allows to change the user PIN code to enter into the user programming menu (page 9).

Any change on this menu will not affect the system operation.



To change the PIN code press OK: the display will show the message modify value.

Key in the new code and confirm by pressing OK. If CANCEL is pressed the former value will be restored.



Always use a four digits code.



Continue

Coming from previous page

**C**onfiguration menu.



Allows to set the lock release activation time. Modify this value when the panel is placed far from the door. The value is shown in seconds and the factory default value is 3 seconds.



To change this value press OK: the display will show the message modify val ue. Key in the new activation time and confirm by pressing OK.



If CANCEL is pressed the former value will be restored.



The lock release will not be activated if a null value is introduced. To avoid lock release overheating do not introduce a high value.



Displays the door panel software version.



End of the configuration menu. Use "UP" arrow key to move to the previous options. Press CANCEL to exit from the configuration menu and return to the main menu. If CANCEL is pressed twice the panel will exit from the programming menu.

Continue

Coming from previous page

**A**ccess control menu.



To enter into access control menu, follow the steps described on page 9 and press OK when the display shows the message access cONtrOl .



Allows to enable or disable the access control feature (lock release activation by entering a PIN code). Press OK to change this value.



The system has three different codes to activate the lock release.

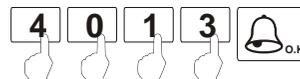
To change the first code press OK: the display will show the message modify val ue. Key in the new code and confirm by pressing OK.



If CANCEL is pressed the former value will be restored.



Always use a four digits code.



To change the second code proceed as described on the previous menu.



To change the third code proceed as described on the previous menu. This code allows the lock release activation during a programmable time period, as described on the next menu.

Continue

Coming from previous page

### Access control menu.

 3rd code on 07:15 

modify value 07:15

1 0 1 3 

3rd code on 10:13

 3rd code off 14:55

 panic code :5555

 End of the access control menu. Use "UP" arrow key to move to the previous options. Press CANCEL to exit from the access control menu and return to the main menu. If CANCEL is pressed twice the panel will exit from the programming menu.

Defines the starting time from which it's possible to activate the lock release by entering the third code. To set this time press OK: the display will show the message modify value. Key in the hour value from 0 to 23 and minutes value from 0 to 59 and confirm by pressing OK. If CANCEL is pressed the former value will be restored. For a proper operation of this function, the system clock must be correctly adjusted, as described on page 11.

Defines the closing time from which it's possible to activate the lock release by entering the third code. To set this time proceed as described on the previous menu. In case that starting and closing times have equal values, the third code will be enabled all the time.

Proceed as described on "1st code" to modify the fourth code. When this code is used to activate the lock release, the system sends an alert message to the porter's exchange (if exists).

Continue

Coming from previous page

### Repertory menu.

reper tory 

 reper tory:new 

enter address :000

1 0 2 

enter direct cod :000000

0 0 3 4 0 9 

enter name

setting recorded

To enter into repertory menu, follow the steps described on page 9 and press OK when the display shows the message reper tory.

Allows to enter a new entry in the last repertory position. To choose a specific position, use the reper tory:insert menu. Press OK to proceed: the display will show the message enter address; key in the monitor code and confirm by pressing OK. If the panel has been configured as general entrance door panel, a six digits code must be entered: the three first digits will match the internal building code and the three last digits will match the monitor code. If the panel has not been configured as general entrance door panel, a three digits code will be required, that will match the monitor code.

IMPORTANT: if "Direct Call Code" function has been enabled (page 11), the display will show the message enter direct cod; enter the six digits code that will be used to call to this apartment. Press OK to validate it.

To assign a text to this entry press OK and proceed as described on page 19. Once the new entry has been recorded the display will show the message settings recorded, and will return to the initial screen. Repeat this procedure to add as much entries as it is needed.

NOTE: to make a call it will not be necessary to enter the zero placed on the left side of the call code. For instance, if the call code is 000100, it will be enough to enter 100 to make the call.

Continue

Coming from previous page

### Repertory menu.





Allows to insert a new entry in a specific repertory position. This function allows to keep the repertory sorted.

Press OK: the display will show the first repertory position: in case of no existing entries the display will show the message `repertory empty`. Use the arrow keys to find the desired position and press OK: the new entry will be inserted before the selected position.

Proceed as described on `repertory:new` menu.

Once the inserted entry has been recorded the display will show the message `inserting...` while sorts the repertory and will return to the initial screen. Repeat this procedure to insert as much entries as it is needed.





Allows to modify the details of an existing entry. Press OK: the display will show the first repertory position: in case of no existing entries the display will show the message `repertory empty`. Use the arrow keys to find the entry to be modified and press OK.

Proceed as described on `repertory:new`. Once the new entry has been modified the display will show the message `settings recorded`, and will return to the initial screen. Repeat this procedure to modify as much entries as it is needed.





Allows to delete an existing entry. Press OK: the display will show the first repertory position: in case of no existing entries the display will show the message `repertory empty`. Use the arrow keys to find the entry to be deleted and press OK.

The display will show the message `deleting...` Once the entry has been deleted, the display will show the next entry. Repeat this procedure to delete as much entries as it is needed.

Continue

Coming from previous page

### Repertory menu.









It is possible to transfer the repertory content to other panel or porter's exchange in the same installation. Before to start with the transmission, the receiving equipment must be ready for reception (see next menu).

Press OK to start the transmission. The display will show the message `sending...` and the transmitted position number.

Once the transmission has been finished, both equipments will exit from their programming menus.

Allows to receive the repertory content from other panel or porter's exchange in the same installation.

Press OK to start with the reception and place the transmitter in transmission mode (see previous menu). The display will show the message `receiving...` and the received position number.

Once the reception has been finished, the receiving equipment will delete the rest of its repertory and the message `deleting...` will be shown on the display.

Finally, both equipments will exit from their programming menus.

**IMPORTANT:** the repertory content can be only transmitted between two equipments: NEVER place more than one system in both transmission or reception modes. It's possible that, during transmission, other of the installed equipments random operates (call receptions, lock release activations, ...): that's normal.



End of the repertory. Use "UP" arrow key to move to the previous options. Press CANCEL to exit from the repertory menu and return to the main menu. If CANCEL is pressed twice the panel will exit from the programming menu.

## T<sub>ext edit.</sub>

To introduce or edit text during programming, use the keypad as described. The maximum number of characters in one text line is 16.

Use the numeric keys to introduce text: press several times the corresponding key till the desired character appears on the display, according with the enclosed characters table.



Use the arrow keys to move through the display.



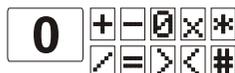
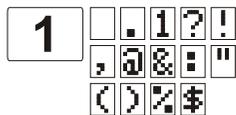
Use the key symbol to delete the actual character. The rest of the text will be moved one position backward.



Press OK to record the whole text. The display will show the message settings recorded.



Press CANCEL key to exit from edition. The former text will be restored and the display will show the message cancel led.



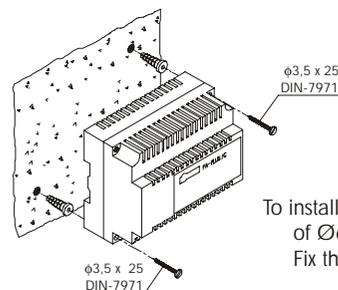
## F<sub>ast repertory search.</sub>

For fast searching press one of the arrow keys followed by the number of entries to be skipped. For a faster search use arrow keys followed by number 0 (10 in 10 entries) or key symbol (100 in 100 entries).



The search is realized of 5 in 5 entries. From that moment, each time an arrow key is pressed the repertory advances 5 in 5 entries.

Installing the FA-PLUS and FA-PLUS/C power supplies.

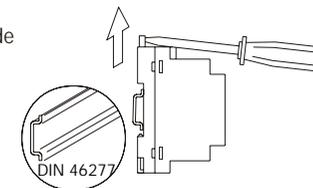


The power supply must be installed in a dry and protected place. It's recommended to protect the power supply by using a thermo-magnetic circuit breaker and to use a ground connection.

To install the power supply directly on the wall, drill two holes of Ø6mm. and insert the wallplugs. Fix the transformer with the specified screws.

The power supply can be installed on a DIN 46277 guide simply pressing it. To disassemble the power supply from the DIN guide, use a plain screwdriver to lever the flange as shown on the picture.

The FA-Plus/C model uses 6 units over DIN guide and 10 units the FA-Plus model.

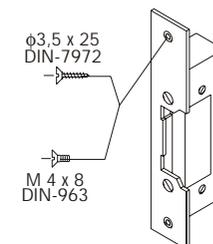


**IMPORTANT:** the maximum number of units that can be connected to a FA-Plus/C power supply is 10, and 50 units in case of a FA-Plus model. Link power supplies to connect more units than the specified as it's shown on page 30.

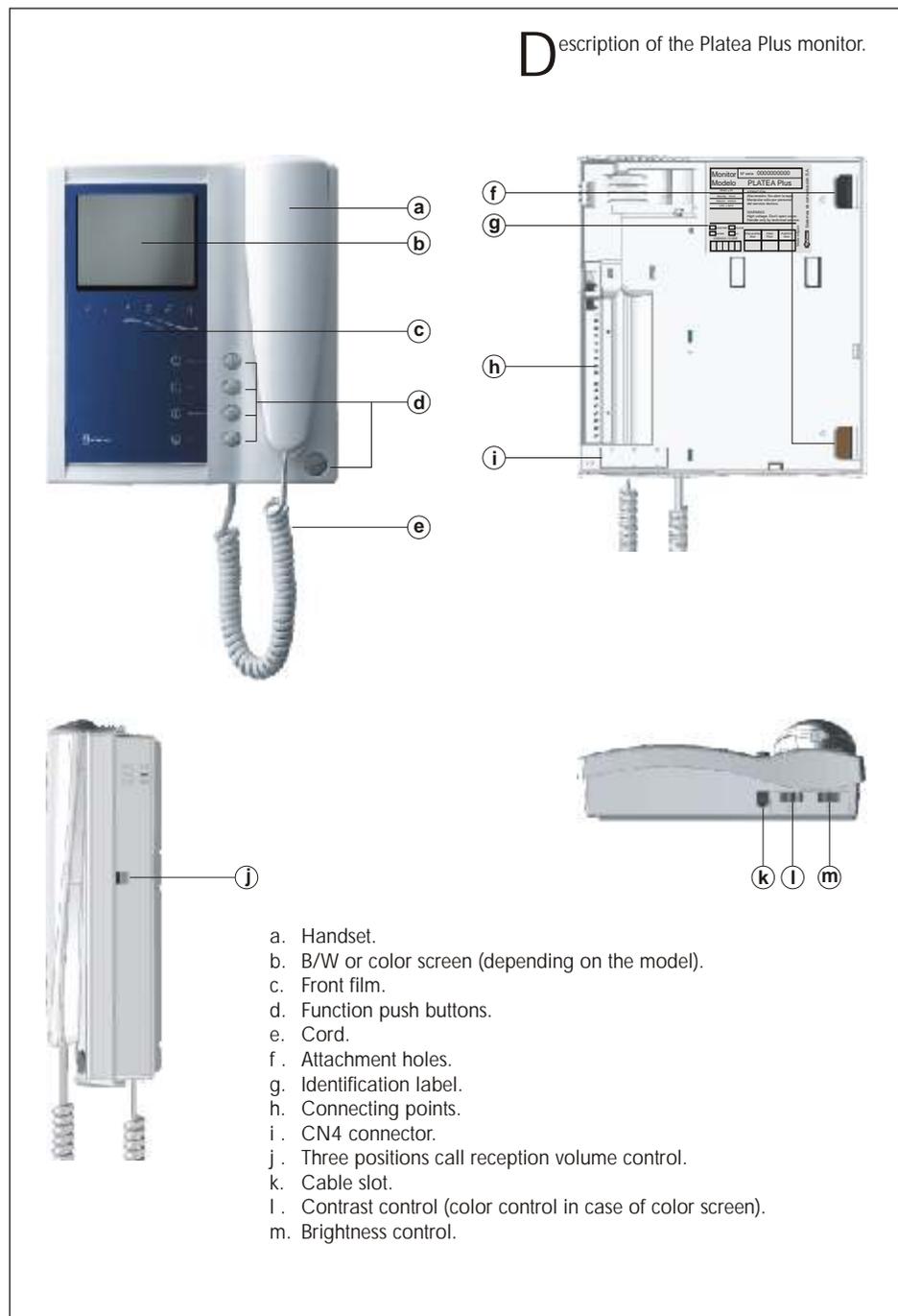
# LOCK RELEASE INSTALLATION

Lock release installation.

If the lock release will be installed in a metal door, use a Ø3,5mm. drill and tap the hole. In case of wood door, use a Ø3mm. drill.



**IMPORTANT:** the lock release to be used must be of 12Vd.c. If you are using a.c. lock releases, use one R-3 relay unit and one TF-104 transformer to activate it, as it is shown on page 30.

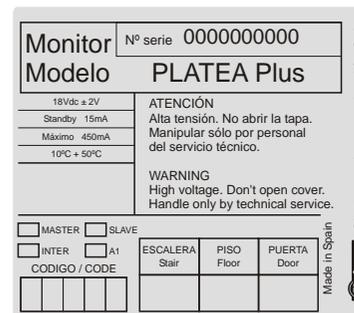


**F**unction push buttons.

-  On-Off push button. After any monitor reset and during the next 45 seconds, all the monitor functions will be disabled, with the exception of call reception.
-  If the handset is on the cradle allows the activation of an optional second camera (\*). If not, allows to make an intercom call or to activate the second camera (\*).
-  If the handset is on the cradle allows the activation of an optional device. If not, allows to call to a slave porter's exchange (\*) or to activate the optional device.
-  If the handset is on the cradle allows to see the picture from the master door panel. If not, allows to establish audio and video communication with the door panel that has been configured with the autoswitch-on function. This function is disabled if a communication is already established.
-  If the handset is on the cradle sends a panic call to the porter's exchanges that have enabled the reception of this type of call. If not, allows to call to the master porter's exchange. During call reception and communication progresses allows the lock release activation.

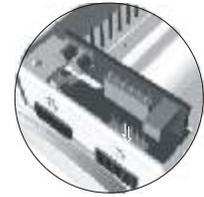
(\*) Second camera activation and call to a slave porter's exchange functions require an internal modification of the monitor. If any of these functions are required, contact with your nearest authorized distributor.  
Second camera activation disables the intercomm function and call function to a slave porter's exchange disables optional device function.

**D**escription of the identification label.



For an easiest repair, replacement or increase of the existing monitors, fill the identifying label information.

- MASTER: master monitor.
- SLAVE: slave monitor.
- INTER: slave monitor with intercom function.
- A1: monitor connected to an auxiliary device.
- CODE: monitor call code (see page 26).
- STAIR: building code (see page 10).



**E**L561 module for video installations with twisted pair cable.

Locate the CN4 connector, that's placed in the monitor base. Remove the existing jumper and plug the EL561 module.

NOTE: on this type of installations the EL560 module must be plugged in the CN4 connector of the door panel pcb (page 7). Refer to the specific installation diagram.

**H**andling the end of line jumper.



The end of line jumper is placed on the CN4 connector, that can be located on the monitor base. In case of twisted pair cable installations, the end of line jumper is placed in the EL561 module, also located in the CN4 connector of the monitor base.

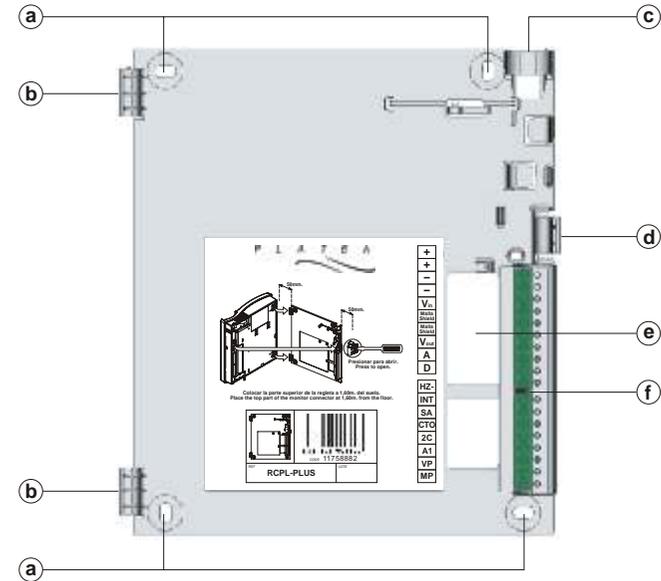
Do not remove the jumper on monitors where the video cable finish. Remove the jumper on monitors where the video cable continue.

**C**hanging the front film.

The monitor is supplied with a reversible front film, that allow the owner to choose between two colors. To change the front film, remove the front plate by inserting a plain screwdriver in the triangle marks, as it is shown on the drawing.



**D**escription of the RCPL-Plus monitor connector.



- a. Wall attachment hole (x4).
- b. Monitor attachment hook (x2).
- c. Vertical wiring input.
- d. Attachment clip.
- e. Wiring input hole.
- f. Installation terminals:
  - + , - : positive, ground.
  - Vin : video signal coaxial input.
  - Malla: coaxial shield.
  - Vout : video signal coaxial output.
  - A : audio communication.
  - D : digital communication.
  - HZ- : door bell push button input.
  - INT : intercom.
  - SA : auxiliary calling device output.
  - CTO : video distributor activation output.
  - 2C : 2nd camera activation output.
  - A1 : optional device activation output.
  - Vp, Mp : twisted pair video signal.

Terminals +, - and Malla (shield) are duplicated for easiest cascade installation of parallel monitors or telephones. If the first monitor is not placed on the connector, cascade units will not be powered.

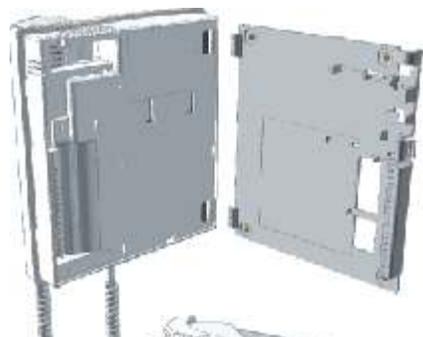
**F**ix the monitor connector to the wall.

Avoid to place the monitor near to heating sources, in dusty locations or smoky environments. To install the monitor directly over the wall, drill two holes of Ø6mm. and use the supplied screws.

The upper part of the monitor connector must be placed at 1,60m. height roughly. The minimum distance between the monitor connector and the closest object must be 5cm.



**F**ix the monitor.

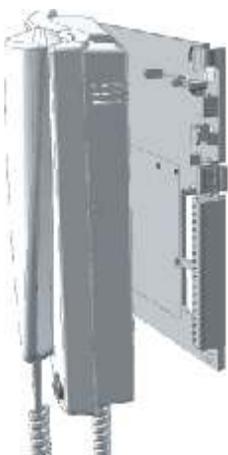


Place the monitor at right angles to the connector and align the attaching holes of the monitor with the attachment hooks of the connector, as it is shown on the drawing.



Lock out the monitor. Press the right side till the attachment clip locks the monitor firmly.

To disassemble the monitor from the connector, use a plain screwdriver to release the attachment clip. Remove the monitor from the connector, with special attention do not falls.



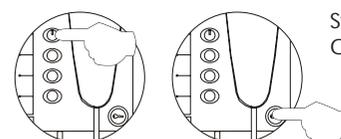
**P**rogramming the monitors.

In case of a general entrance door panel, program the monitors only from each internal building door panel, as described on the corresponding instruction manual.

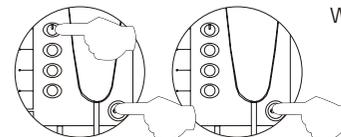
If this door panel is installed on an internal building of a residential complex or on a single building, program the monitors as follows:



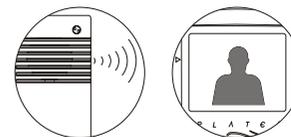
To enter the door panel into program mode, press key symbol and enter the installer PIN code (factory default: 1315), as described on page 9.



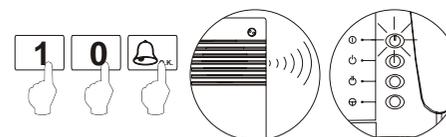
Switch off the monitor to be programmed. Once the monitor is off, press the door release push button.



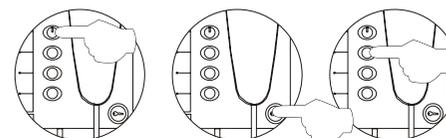
With the door release push button pressed switch on the monitor.



To show that the system is ready for programming, the panel will reproduce a sound and the LCD will display the message *pr ogram mode*, appearing the picture on the monitor. At this moment, the door release push button can be released. Lift the handset to stablish audio communication with the door panel.



Enter the code of the monitor to be programmed and press the bell key. At this moment the panel will reproduce a sound and the monitor led will blink.



To program the monitor as master, switch it off and on again. To program it as slave, press the door release push button. To program it as slave with intercom function press the  $\phi$  push button.

**Each apartment must have one master unit only:** in case of parallel units configure them as slaves, both monitors or telephones.

Repeat these steps to program the rest of monitors.

Once the programming has been finished exit from the programming menu by pressing CANCEL key. If you don't, the door panel will automatically exit after 90 seconds with no operation.

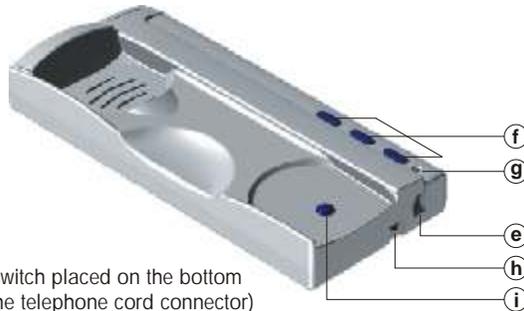
**D**escription of the T-940 Plus telephone.



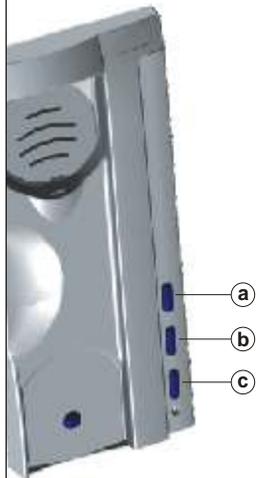
- a. Telephone handset.
- b. Speaker grille.
- c. Microphone hole.
- d. Subjection hole.
- e. Telephone cord connectors.
- f. Function push buttons.
- g. On-Off light indicator.
- h. Call reception volume control.
- i. Hook switch.



The telephone has a three positions switch placed on the bottom part of the telephone (closest to the telephone cord connector) that allows to control the call reception level volume.



**F**unction push buttons.



- a. On-Off push button.  
After any telephone reset, and during the next 45 seconds, all the telephone functions will be disabled, with the exception of call reception.
- b. This push button allows to make an intercom call when the handset is not on the cradle. This function is described on page 42.
- c. If the handset is on the cradle sends a panic call to the porter's exchanges that have enabled the reception of this type of call. If not, allows to call to the master porter's exchange. During call reception and communication progresses allows the lock release activation.

**T**erminal connector description.



- + , - : positive, ground.
- A , D : audio, digital communication.
- INT : intercom.
- SA : auxiliary calling device output.
- HZ- : door bell push button input.

**F**ix the telephone.

It will be necessary to open the telephone for wiring and fixing purposes. To open the telephone insert a plain screwdriver into the slots and rotate it as shown.



Avoid to place the telephone near to heating sources, in dusty locations or smoky environments.

The telephone can be fixed using an electrical embedding box or directly on the wall, as shown on the picture. If the telephone will be installed directly over the wall, drill two holes of Ø6mm. on the specified positions, using 6mm. wallplugs and Ø3,5 x 25mm. screws.



Pass the installation wires through the corresponding hole and connect them as shown on the installation diagrams. Close the telephone as shown on the picture. Once the telephone is closed, connect the handset using the telephone cord and put it on the cradle.

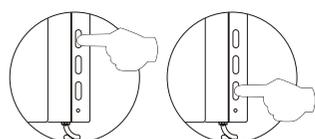
**P**rogramming the telephones.

In case of a general entrance door panel, program the telephones only from each internal building door panel, as described on the corresponding instruction manual.

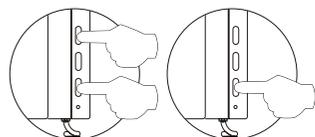
If this door panel is installed on an internal building of a residential complex or on a single building, program the telephones as follows:



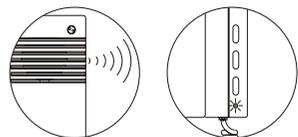
To enter the door panel into program mode, press key symbol and enter the installer PIN code (factory default: 1315), as described on page 9.



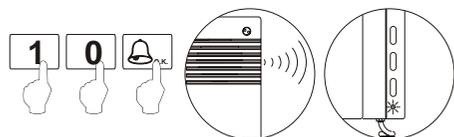
Switch off the telephone to be programmed. Once the telephone is off, press the door release push button.



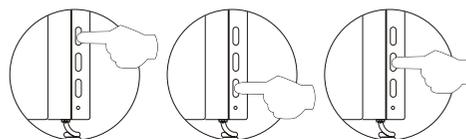
With the door release push button pressed switch on the telephone.



To show that the system is ready for programming, the panel will reproduce a sound and the LCD will display the message program mode. At this moment, the door release push button can be released. Lift the handset to establish audio communication with the door panel.



Enter the code that will be used to call to this telephone and press the bell key. At this moment the panel will reproduce a sound and the telephone led will blink.



To program the telephone as master, switch it off and on again. To program it as slave, press the door release push button. To program it as slave with intercom function press the center push button.

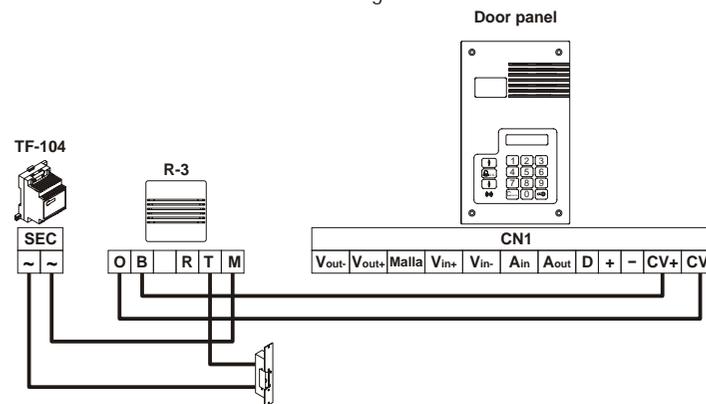
Each apartment must have one master unit only; in case of parallel units configure them as slaves, both monitors or telephones.

Repeat these steps to program the rest of telephones.

Once the programming has been finished exit from the programming menu by pressing CANCEL key. If you don't, the door panel will automatically exit after 90 seconds with no operation.

**C**onnexion of an a.c. lock release.

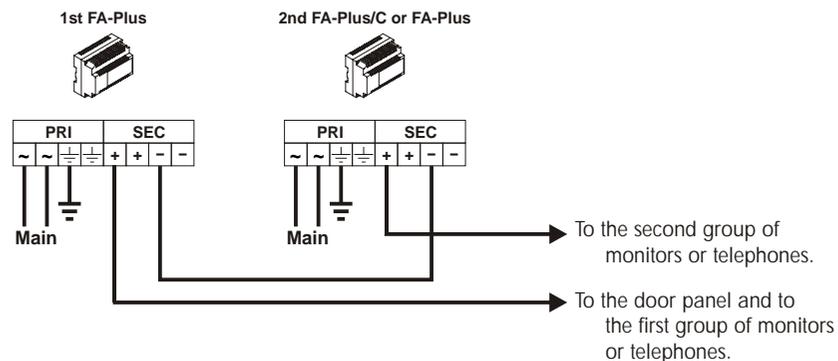
As it is described on page 20, the lock releases to be connected to the door panel must be d.c. type. If an a.c. lock release has been installed before, use a R-3 relay unit and a TF-104 transformer, and connect them to the lock release as it is shown on the enclosed diagram.



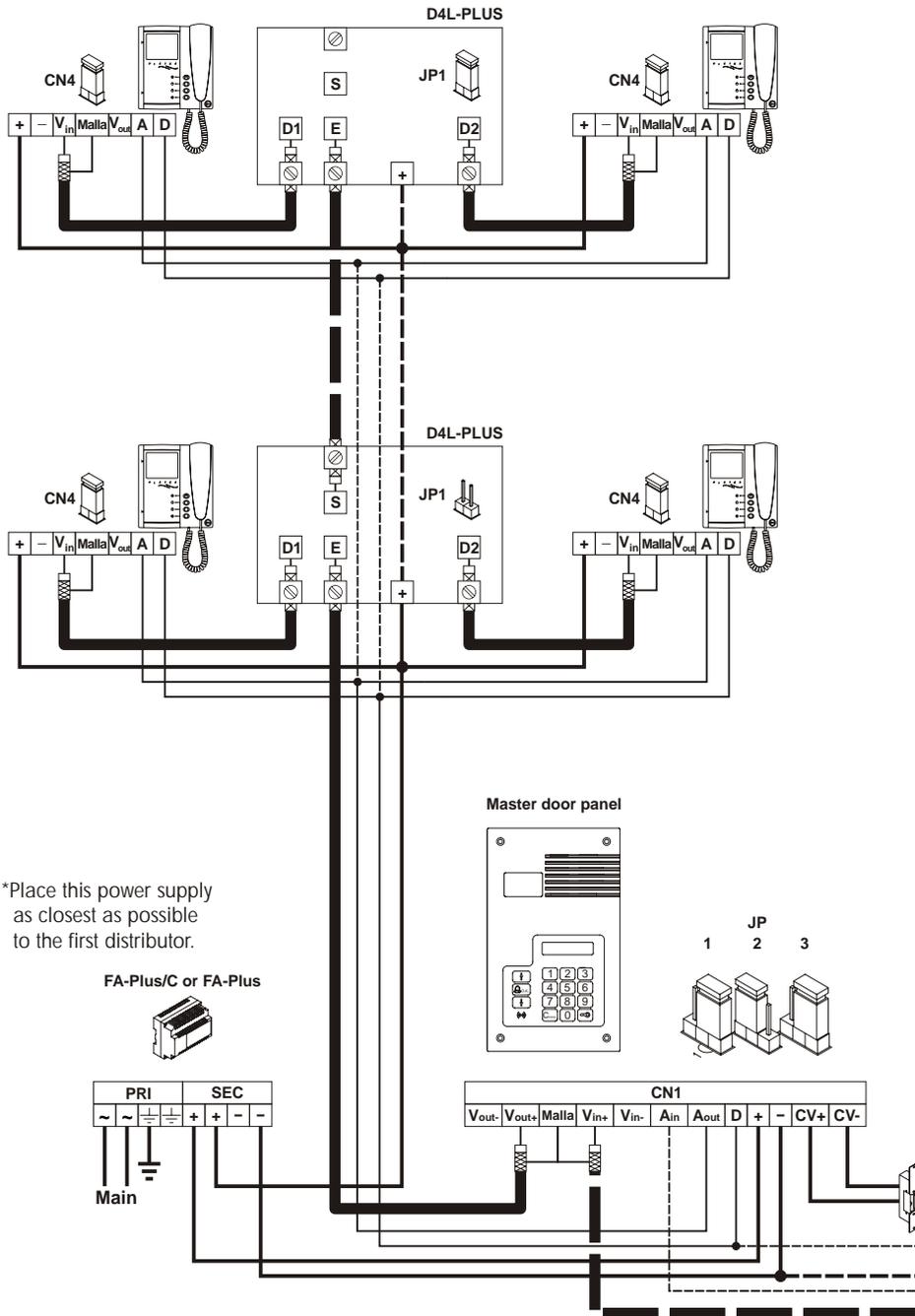
**L**ink of several power supplies units.

If the quantity of monitors or telephones to be connected is bigger than the supported from one power supply (see page 20), use additional power supplies to match the required quantity. The first power supply should be connected to the door panel and to the first group of monitors or telephones; connect the next groups to the positive terminal of its corresponding power supply.

To wire several power supplies link their ground terminals; **NEVER** link positive terminals of different power supplies.



\* Take off JP1 jumper of all the distributors except in the last one.



\*Place this power supply as closest as possible to the first distributor.

FA-Plus/C or FA-Plus

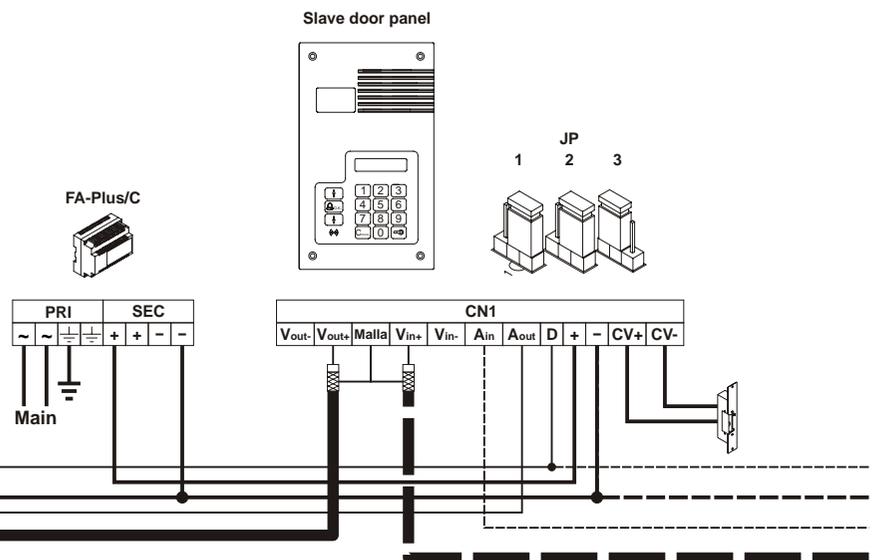


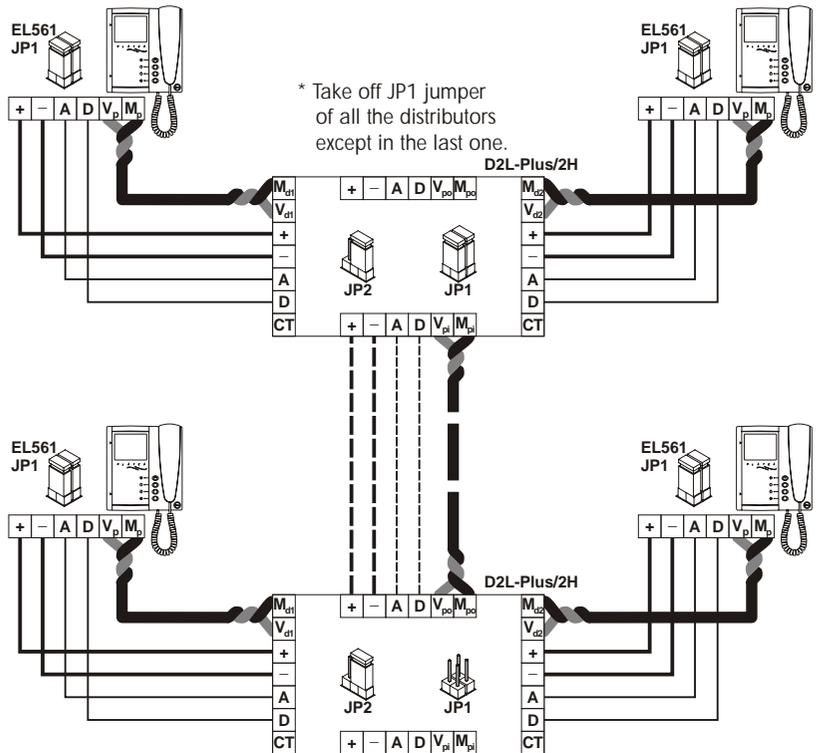
**V** Video installation with coaxial cable.

The installation diagram shows the connection of a video system with one or several door panels for the same building. If the system has one door panel only, override the wiring to the second door panel. If the system has more than one door panel, wire the second panel as shown on the diagram. In case of more than two door panels, wire them as the second is connected.

SECTIONS CHART	Distance	
	Terminal	50m.
+ , - , CV+ , CV-	1,00mm <sup>2</sup>	2,50mm <sup>2</sup>
A <sub>in</sub> , A <sub>out</sub> , A, D	0,25mm <sup>2</sup>	0,25mm <sup>2</sup>
V <sub>in+</sub> , V <sub>out+</sub> , V <sub>in-</sub> , V <sub>out-</sub>	RG-59	RG-59

For longer distances than the specified contact with your distributor.





**V**ideo installation without coaxial cable.

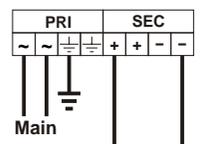
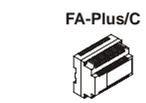
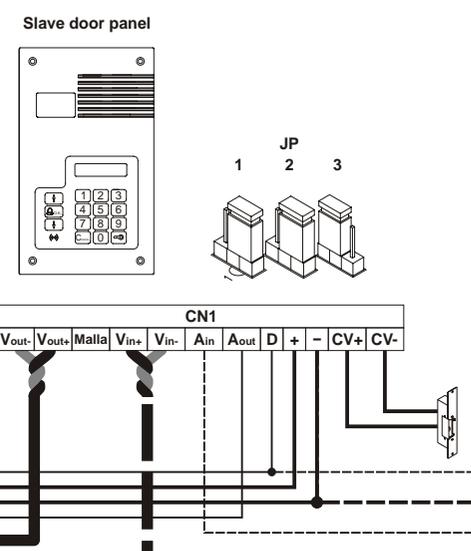
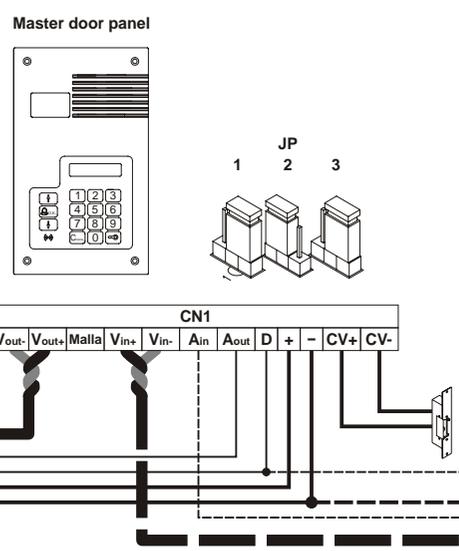
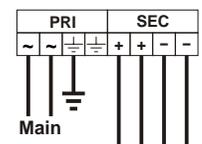
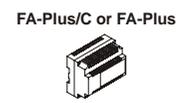
The installation diagram shows the connection of a video system with one or several door panels for the same building. If the system has one door panel only, override the wiring to the second door panel. If the system has more than one door panel, wire the second panel as shown on the diagram. In case of more than two door panels, wire them as the second is connected.

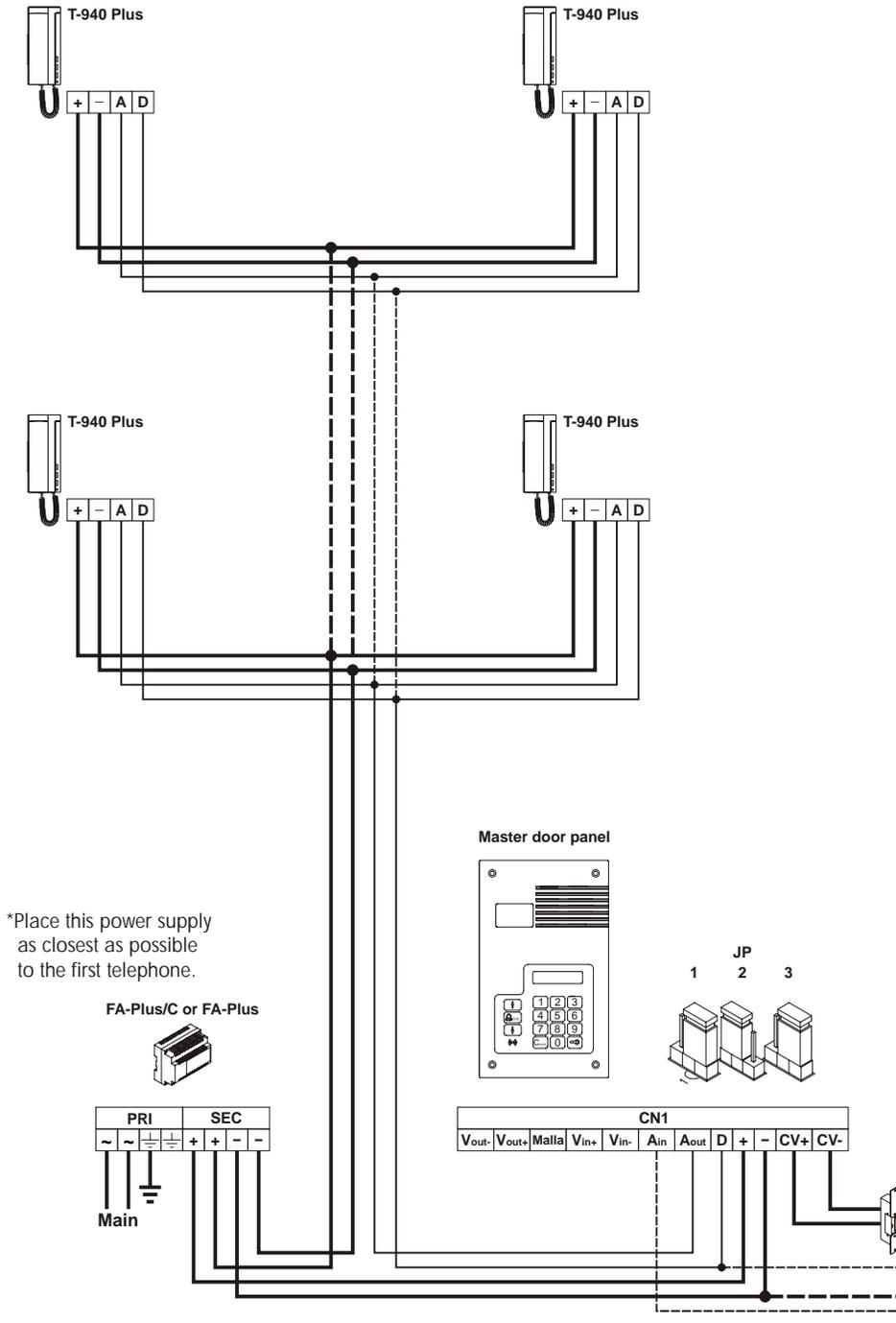
**IMPORTANT:** For this type of installation, the door panels must have plugged an EL560 module in each and the monitors must have an EL561 plugged in each. If the CTO terminal is wired, only the distributor connected to the called monitor will be active. Change the JP2 jumper position of the distributors to enable this function.

SECTIONS CHART	Distance	
	50m.	150m.
Terminal	50m.	150m.
+, -, CTO, CT, CV+, CV-	1,00mm <sup>2</sup>	2,50mm <sup>2</sup>
A <sub>in</sub> , A <sub>out</sub> , A, D	0,25mm <sup>2</sup>	0,25mm <sup>2</sup>
V <sub>in+</sub> , V <sub>out+</sub> , V <sub>p,d</sub> , M <sub>p,d</sub>	CAT-5	CAT-5

For longer distances than the specified contact with your distributor.

\*Place this power supply as closest as possible to the first distributor.





\*Place this power supply as closest as possible to the first telephone.

FA-Plus/C or FA-Plus

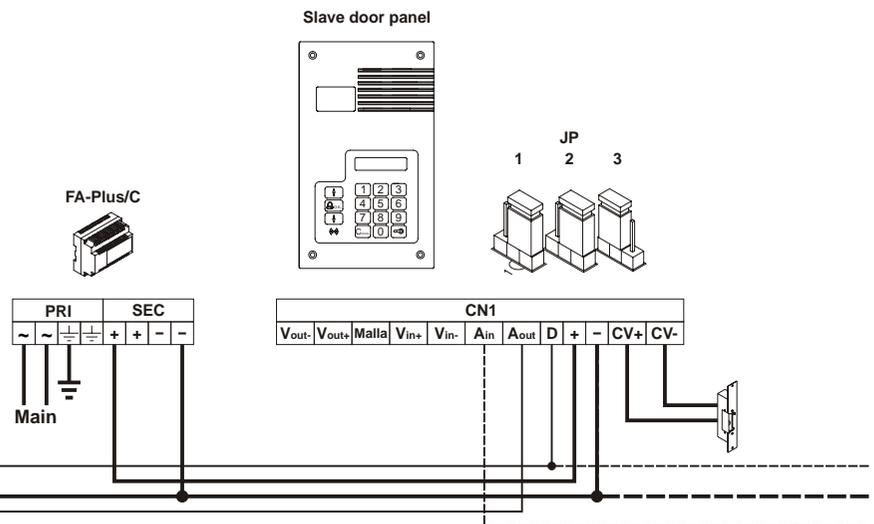


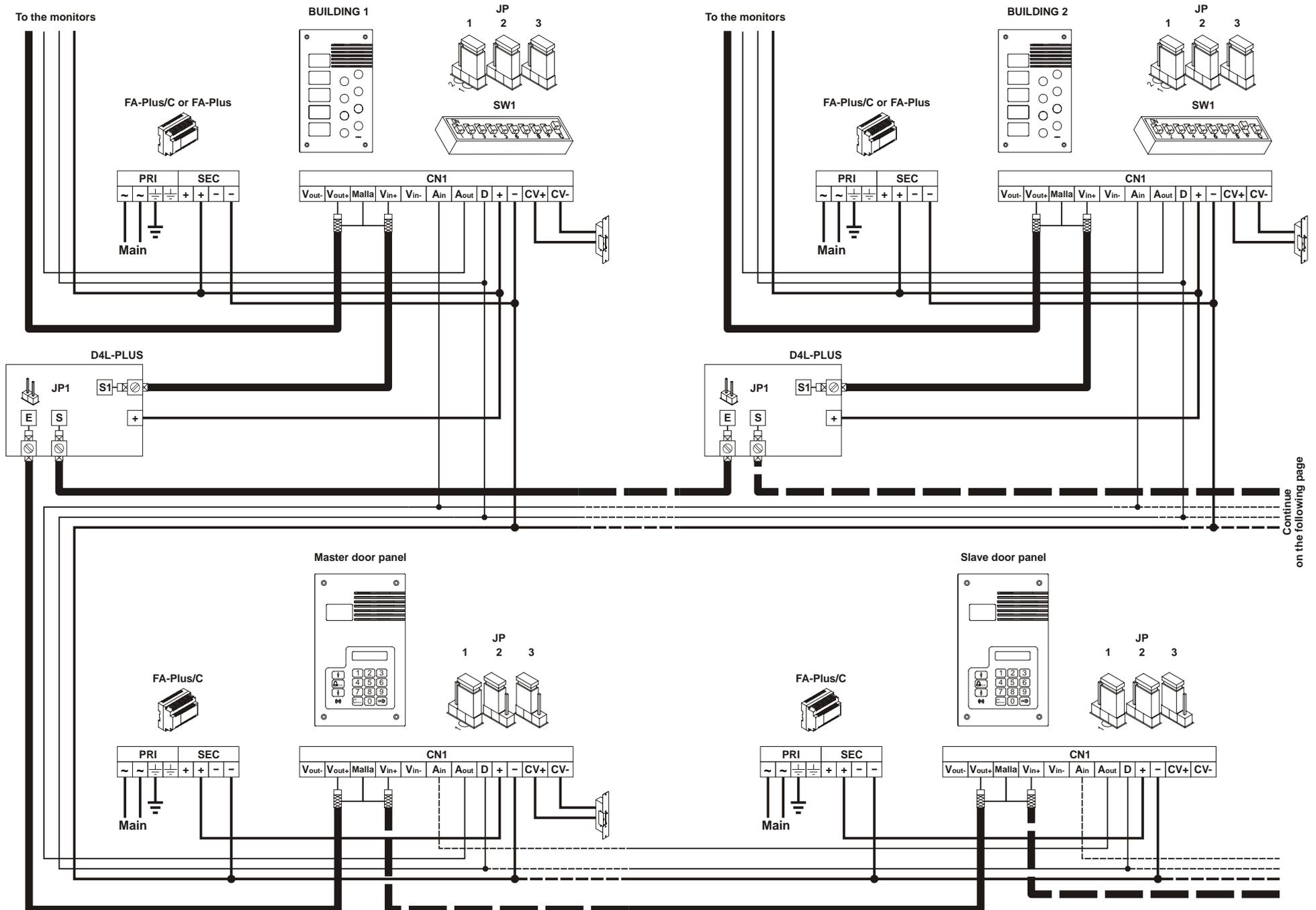
**A**udio installation.

The installation diagram shows the connection of an audio system with one or several door panels for the same building.  
 If the system has one door panel only, override the wiring to the second door panel.  
 If the system has more than one door panel, wire the second panel as shown on the diagram. In case of more than two door panels, wire them as the second is connected.

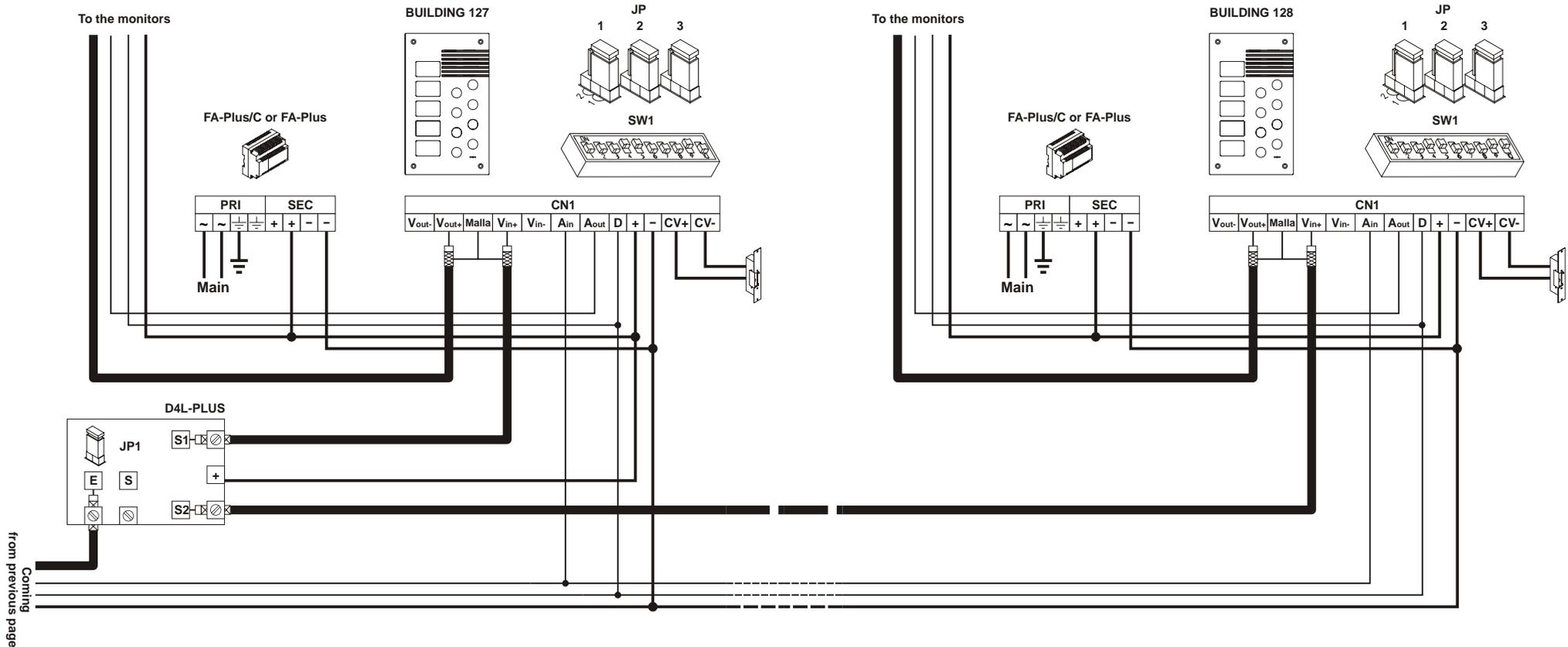
SECTIONS CHART	Distance	
	50m.	150m.
+, -, CV+, CV-	1,00mm <sup>2</sup>	2,50mm <sup>2</sup>
A <sub>in</sub> , A <sub>out</sub> , A, D	0,25mm <sup>2</sup>	0,25mm <sup>2</sup>

For longer distances than the specified contact with your distributor.





Continue on the following page



Coming from previous page

## V

ideo installation with general entrance door panel for residential complexes.

**IMPORTANT NOTES:**

To wire and configure the system properly, use this instruction manual and the ones enclosed in the internal building door panels.

The installation diagram shows the connection of a video system with two general entrance door panels and up to 128 internal building door panels.

In case of more than two general entrance door panels, wire them as the second is connected. In video systems, use a D4L-Plus distributor at each door panel input except on the last one.

Remove the end of line jumper of all the distributors except in the last one.

In case of audio systems only, do not use coaxial cable neither distributors. On the buildings backbones coaxial cable must be replace by a negative wire.

Refer to the previous installation diagrams for monitors or telephones connection.

## V

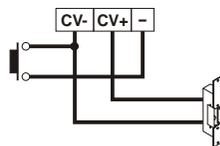
ideo installation with general entrance door panel for residential complexes.

SECTIONS CHART	Distance	
	100m.	300m.
+, -, CV+, CV-	1,50mm <sup>2</sup>	2,50mm <sup>2</sup>
A <sub>in</sub> , A <sub>out</sub> , A, D	0,25mm <sup>2</sup>	0,25mm <sup>2</sup>
V <sub>in+</sub> , V <sub>out+</sub> , V <sub>in-</sub> , V <sub>out-</sub>	RG-59	RG-59

For longer distances than the specified contact with your distributor.

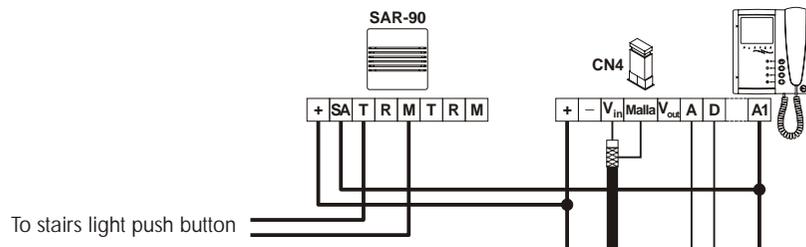
**E**xternal lock release activation.

The lock release can be activated at any moment by using an external push button, that must be connected between 'CV-' y '-' terminals of the keypad module. This function will allow to exit from the building being not necessary the use of a key.

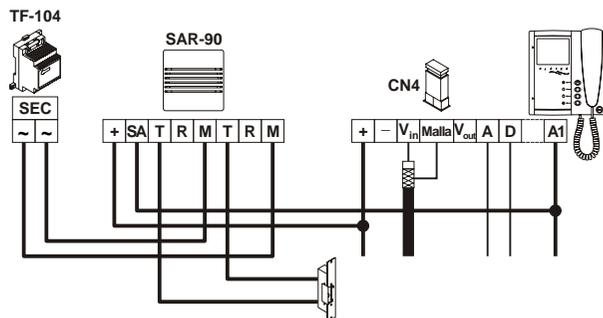


**A**uxiliary devices activation.

To activate auxiliary devices the use of a SAR-90 relay unit will be required. If this device is shared for all the monitors, link their A1 terminal and use just one relay unit. In case that each monitor has its own application use a SAR-90 relay unit for each monitor and don't link the A1 monitor terminals. To activate this function, press the monitor push button at any moment with no dependence of the handset position. Usual applications are the activation of stairs light, second lock release, ...



The use of a TF-104 transformer will be necessary to activate a second lock release. **IMPORTANT:** the lock release must be 12Vc.a. type.



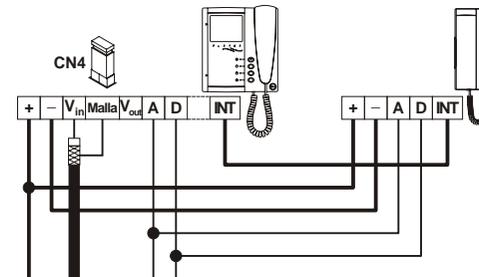
**I**ntercom function.

Platea Plus monitor and T-940 Plus telephone have intercom facility between two units of the same apartment. To enable this function check the following conditions:

- One of the units has been configured as master and the other unit as slave with intercom, as described on pages 26 and 29.
- In case to intercom one monitor with one telephone, configure the monitor as master.
- Link the INT terminal of the units, as it is shown on the enclosed diagram.

To establish an intercom communication lift the handset and press the intercom push button; acoustic tones will be reproduced on the handset confirming the call is in progress or that the other unit is communicating with the door panel. To establish communication lift the handset of the called unit. If during an intercom communication a call is made from the door panel, acoustic tones will be heard on the master unit handset and the picture will appear in case of a monitor; press the intercom push button of the master unit to establish communication with the door panel, or press the door release push button to activate the lock release.

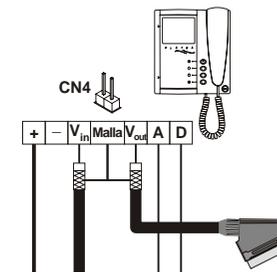
The reproduced acoustic tones are different depending on their provenance, that allows the user to distinguish where the call is made from.



**C**onnecting the Shiner Plus monitor to a video recorder or TV.

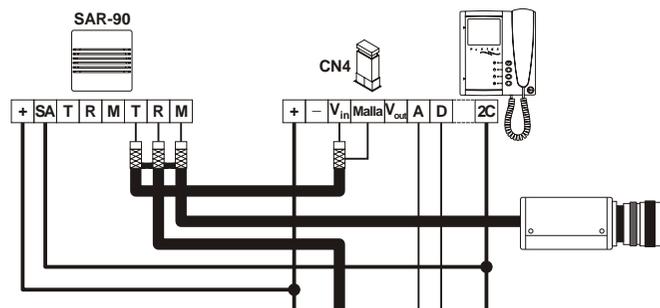
If your TV or video recorder have a SCART connector, it will be possible to view the picture from the door panel on the TV screen.

Remove the end of line jumper, that's placed on the CN4 connector. Connect the coaxial cable between terminals 17 (shield) and 20 (hot) of the SCART connector.



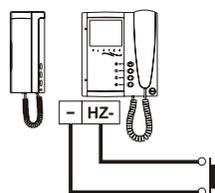
### A ctivation of a second camera.

The use of a SAR-90 relay will be required to activate a second camera and an internal modification on the monitor shall be done, as it's described on page 22. This facility disables the intercom function. If both functions are required, use A1 terminal to activate the second camera. To activate this function, press  $\odot$  monitor push button at any moment with no dependence of the handset position. If this device is shared for all the monitors, link their 2C terminal and use just one relay unit. In case that each monitor has its own camera use a SAR-90 relay unit for each monitor and don't link the 2C monitor terminals. This push button can be used to activate other auxiliary devices, as the A1 terminal is used. Usual applications are the surveillance of the elevator entrance, reception hall, ...



### D oor bell push button connection.

The Platea Plus monitor and the T-940 Plus telephone can be used to receive the calls made from the apartment door, saving the use of a bell. Wire the push button of the apartment door to the 'HZ-' and '-' monitor or telephone terminals. The reproduced acoustic tones are different depending on their provenance, that allows the user to distinguish where the call is made from. If during a conversation a call is made from the apartment door, acoustic tones will be reproduced on the handset to advise that someone is calling.



An easy way to check that the system is working properly is to disconnect the wiring from the door panel and to check the monitor directly connected to the door panel terminal connector.

No shortcircuit will damage the connected units, with the exception of a shortcircuit between CTO and '-' monitor or distributor terminals.

- ⇨ Nothing operates.
  - ☹ Check the output power supply voltage between '-' and '+' terminals: it should have 17,5 to 18,5Vd.c. If not, disconnect the power supply from the installation and measure again. If it's correct now, it means there is a short circuit in the installation: disconnect the power supply from mains and check the installation.
  - ☹ Check that 'D' terminal is not shortcircuited with '-' or '+' terminals.
  - ☹ Check that 'D' terminal hasn't been changed by 'A' terminal somewhere in the installation.
- ⇨ Inappropriate audio level.
  - ☹ Adjust the level volumes as shown on page 8. In case of feedback, reduce the audio levels until feedback fade out. If feedback don't dissapears refer to the following hint.
- ⇨ Continuous audio feedback.
  - ☹ Check that 'A' terminal is not shortcircuited with other terminals.
- ⇨ Door open function no operates.
  - ☹ Remember that this function is only available during call and communication progresses.
  - ☹ Disconnect the lock release from door panel terminal connector and short-circuit terminals '-' and 'CV-': at that moment the output voltage between terminals 'CV+' y 'CV-' should be 12Vd.c. If it's so check the lock release and its wiring.
- ⇨ The system cannot be programmed.
  - ☹ If you are programming push buttons door panels, check that the switch number 2 of the configuration dip switch is set to ON, and that the programming steps are correctly followed. In case of coded door panels, check that the panel is into program mode (see pages 122 and 125).
  - ☹ Check that 'D' terminal is not shortcircuited with other terminals.
  - ☹ Check that the door panels jumper corresponding to the communications resistor are properly placed, as shown on the installation diagrams.
- ⇨ Some units don't receive calls.
  - ☹ Remember that each apartment must have a master unit only. Check that the units are switched on and correctly programmed.





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