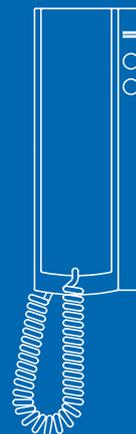
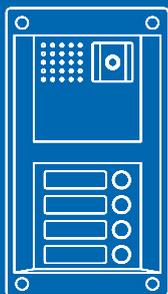
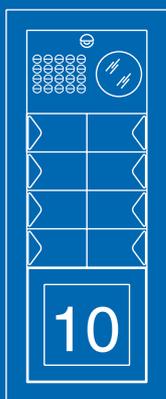


FORTESSA

CONTROLLED ACCESS BY DESIGN

TECHNICAL MANUAL

DIGI2 SYSTEM



Instructions:

- Install the equipment by carefully following the instructions given by the manufacturer and in compliance with the legislation in force.
- All the equipment must only be used for the purpose it was built for **Fortessa** declines any responsibility for improper use of the apparatus, for modifications made by others under any title or scope, and for the use of accessories and materials which are not the original ones.
- All the products comply with the requirements of the 2006/95/CE directives (which replace the 73/23/CEE directives and the successive amendments). This is proved by the **CE** mark on the products.
- Do not run the riser wires in proximity of the power supply cables (230/400V).



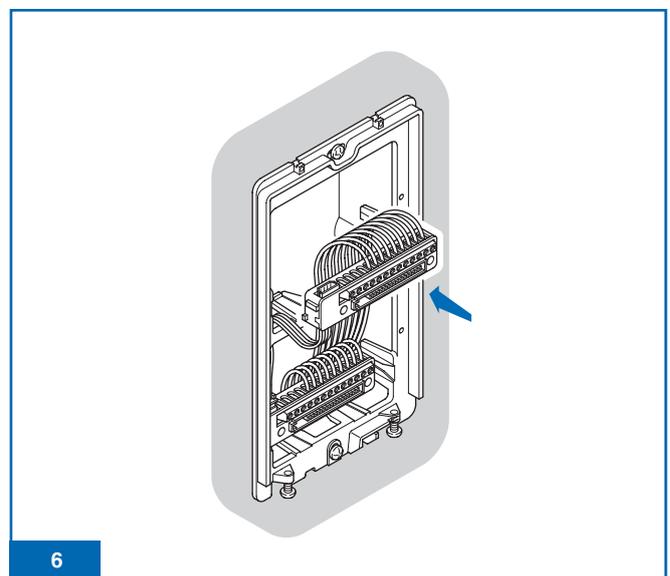
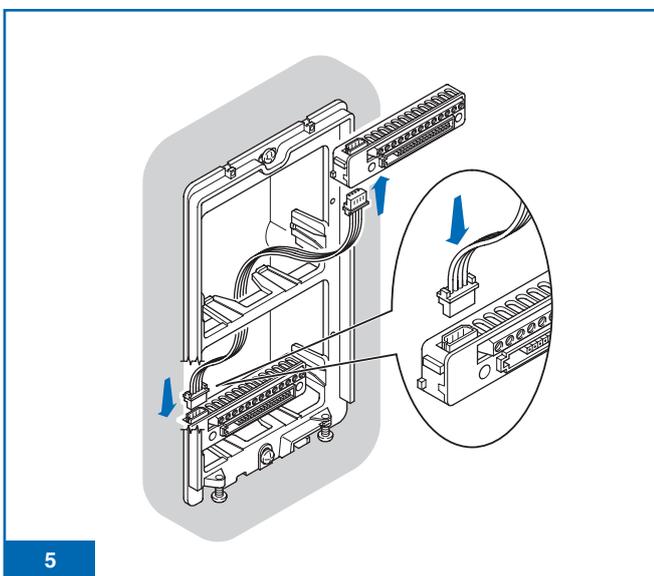
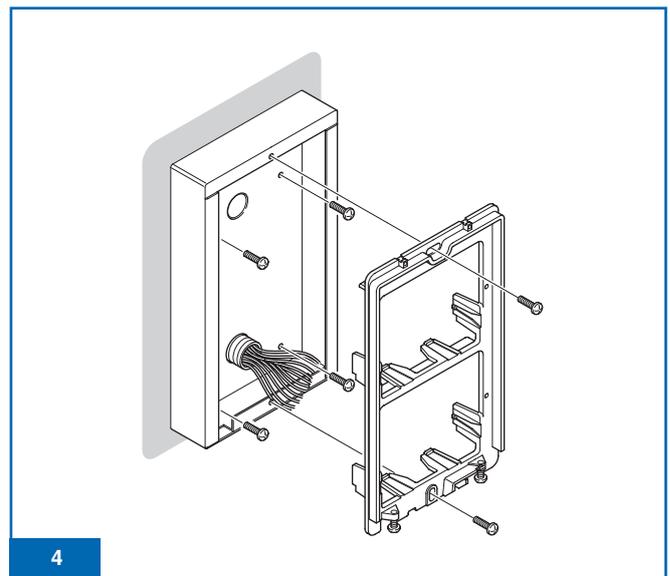
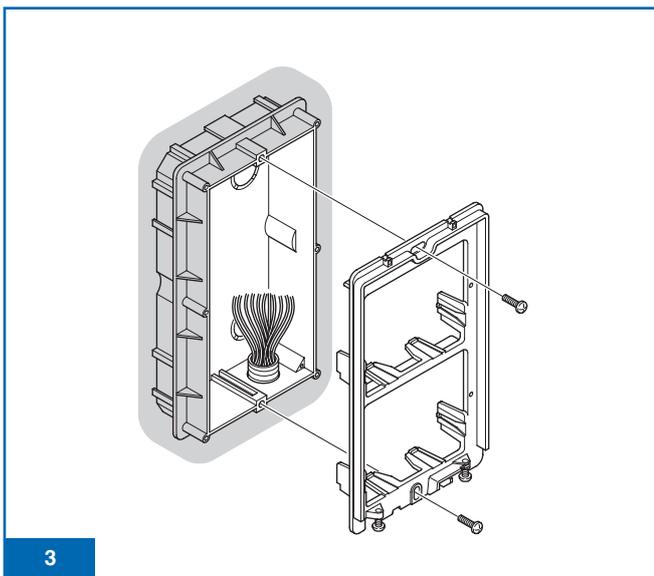
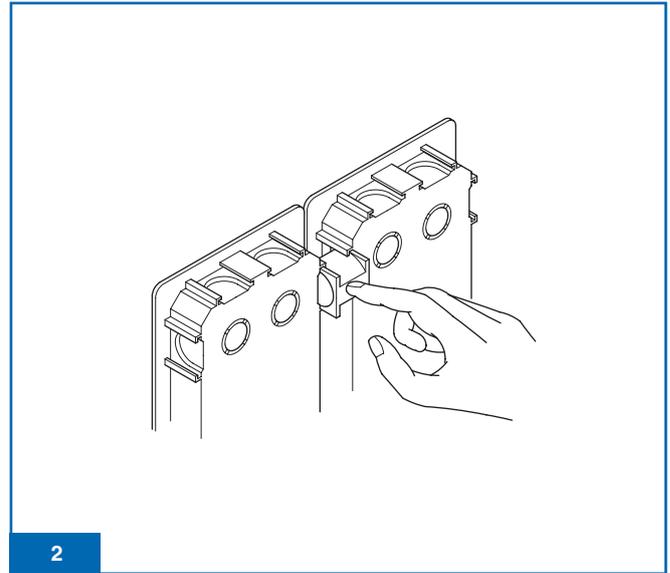
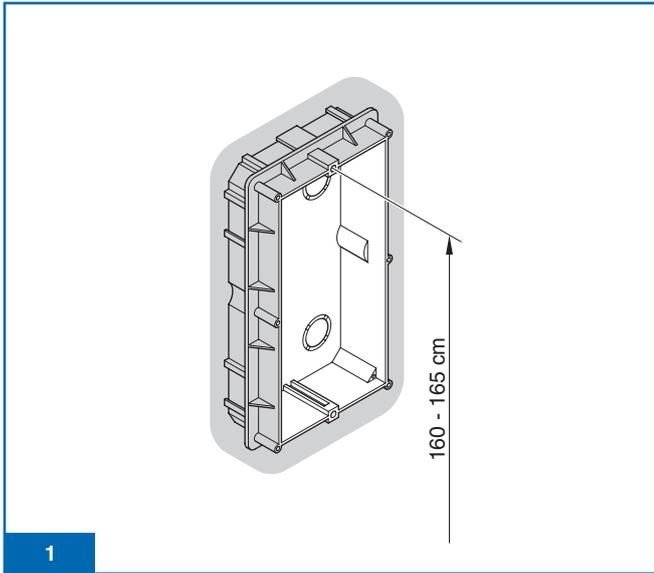
Video door entry system with DIGI-2 cabling

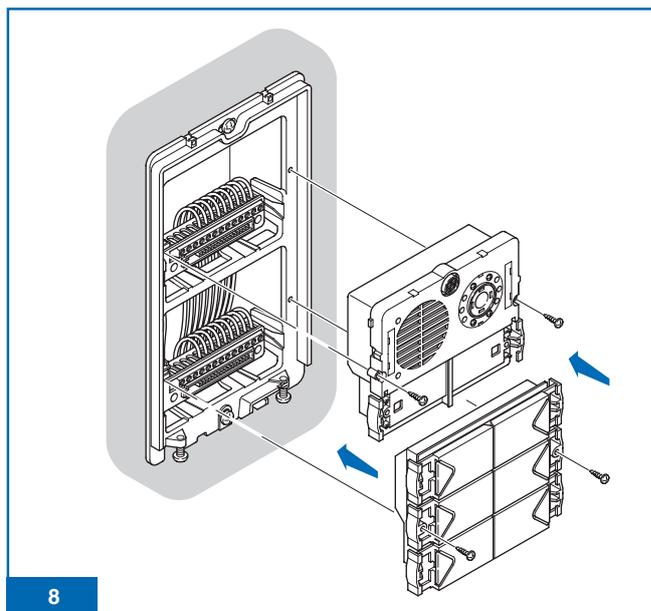
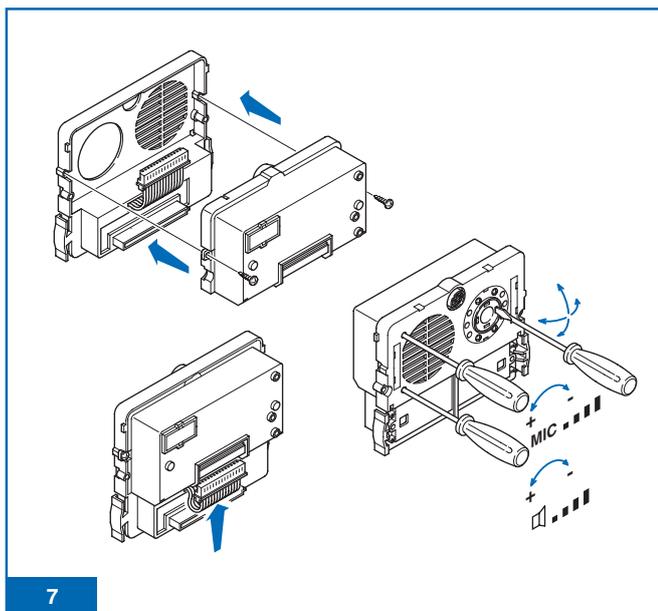
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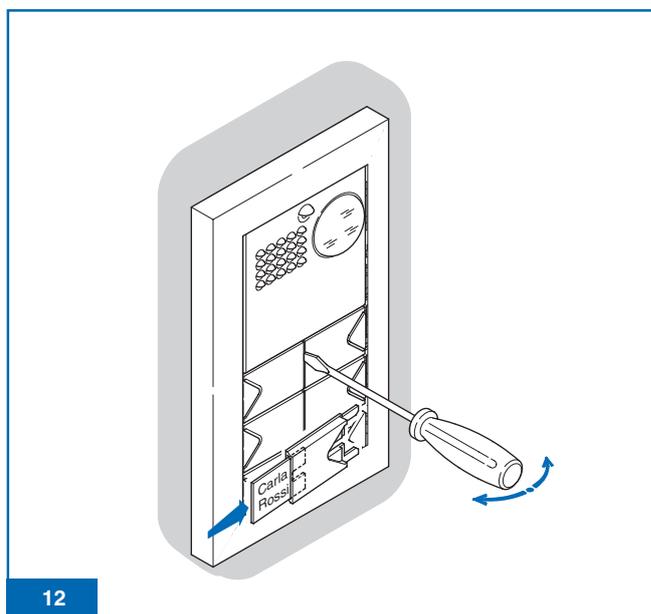
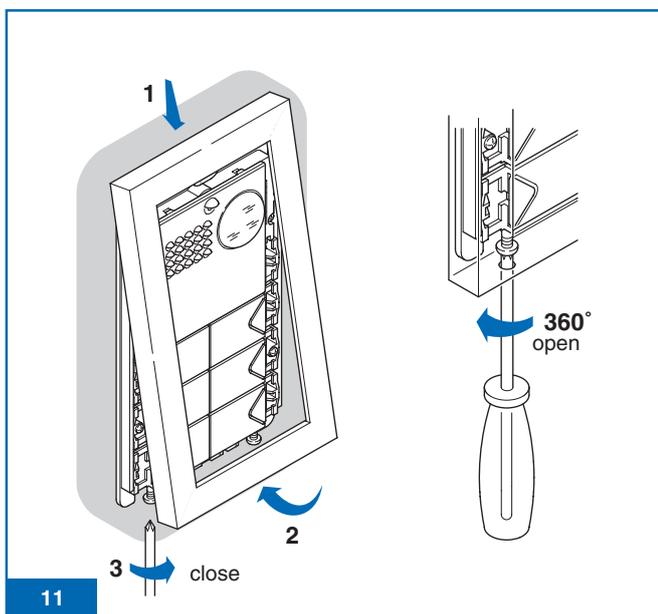
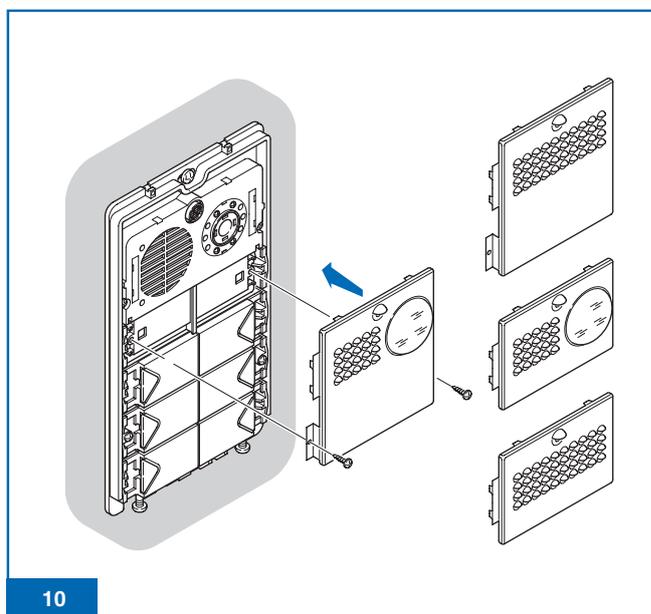
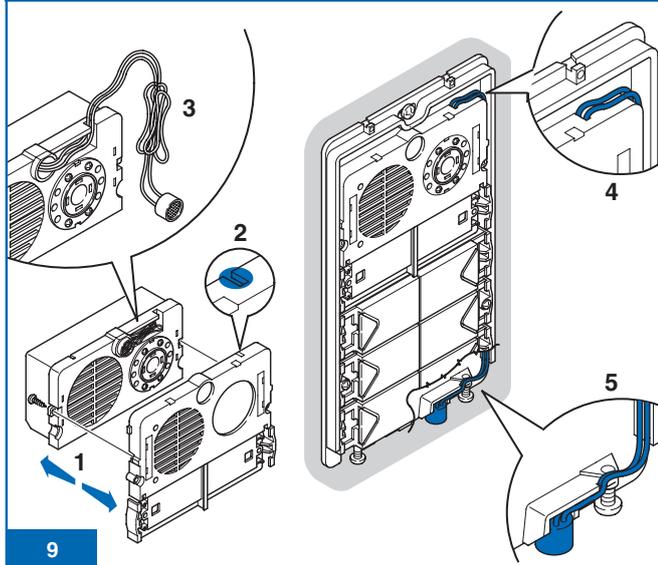
EXTERNAL UNITS

Instructions for installing external audio-video unit standard

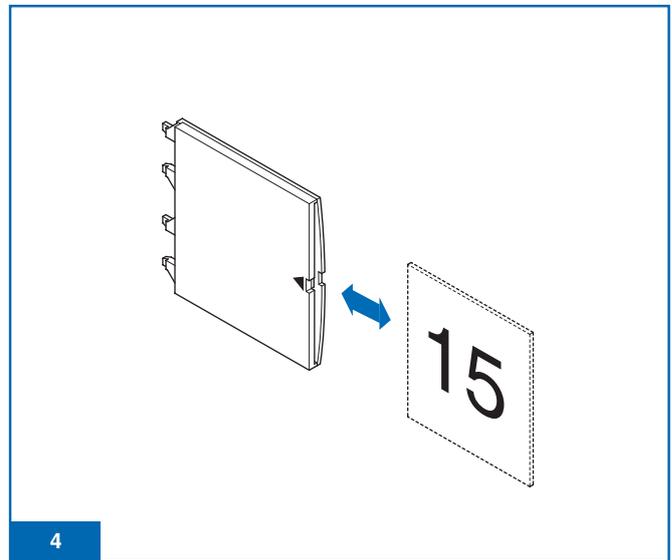
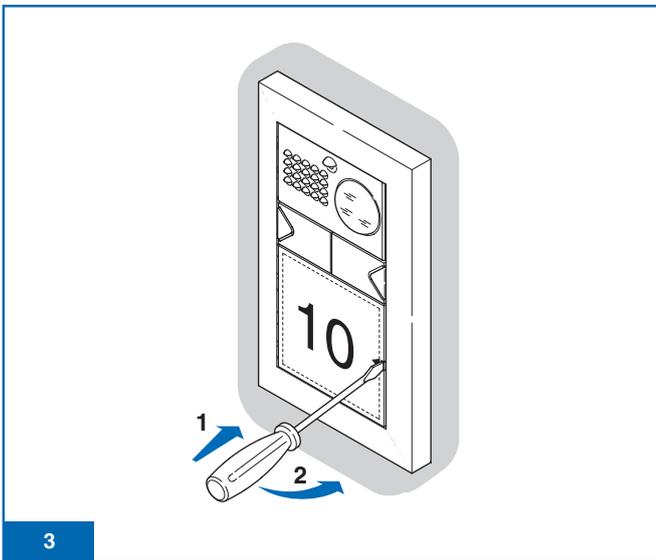
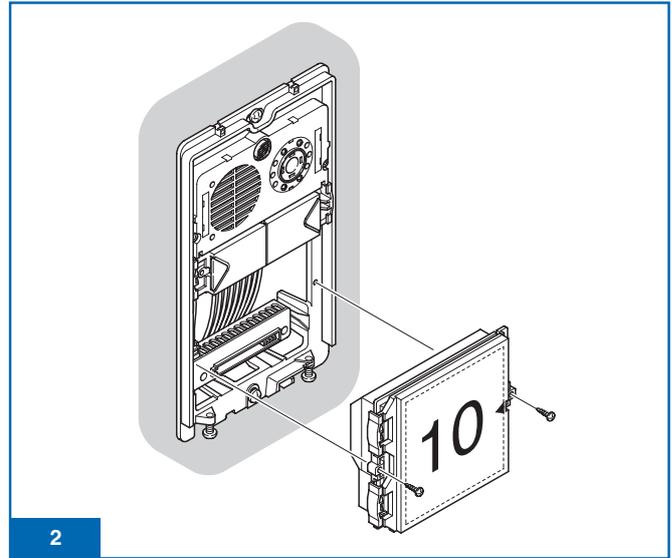
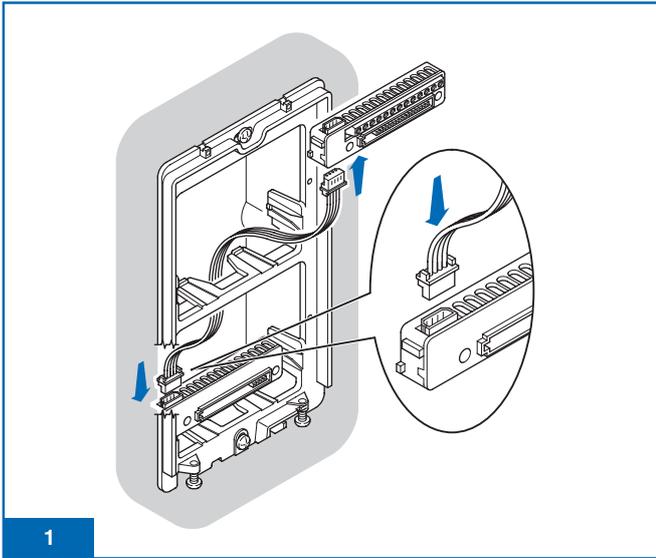




Alternative position of the microphone

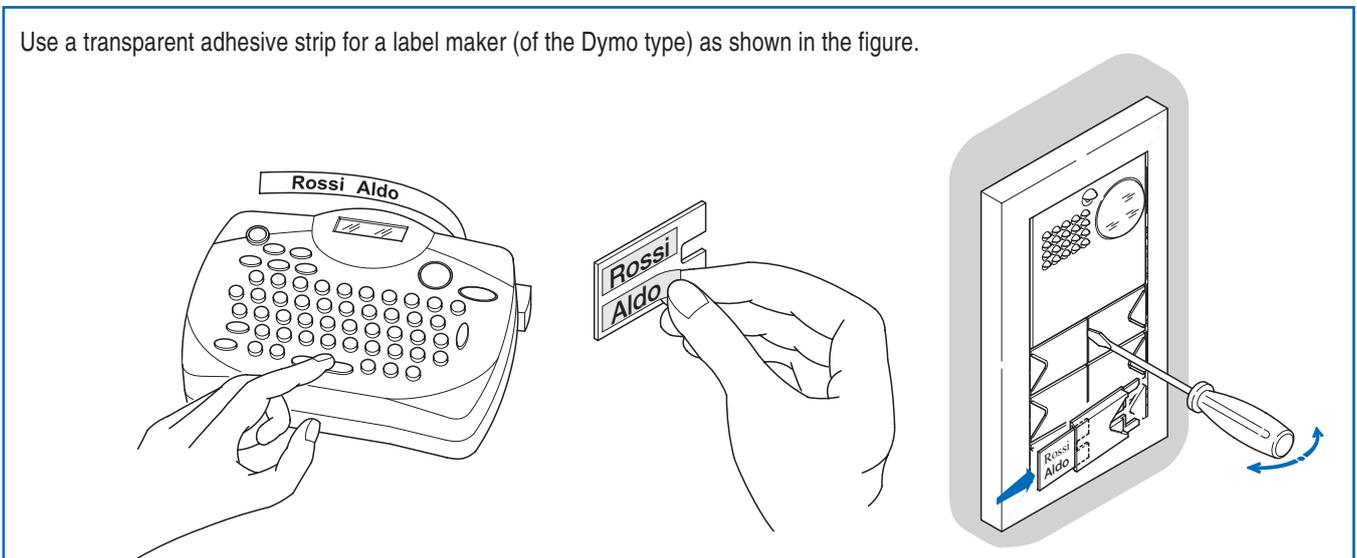


Instructions for assembling an informative module FT3326, FT3344 and FT3346



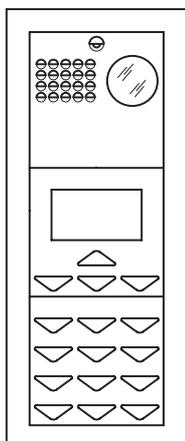
Name tags can be best produced as follows:

Use a transparent adhesive strip for a label maker (of the Dymo type) as shown in the figure.



Digital call FT3340

Arrange the modules only as indicated in the following drawing.

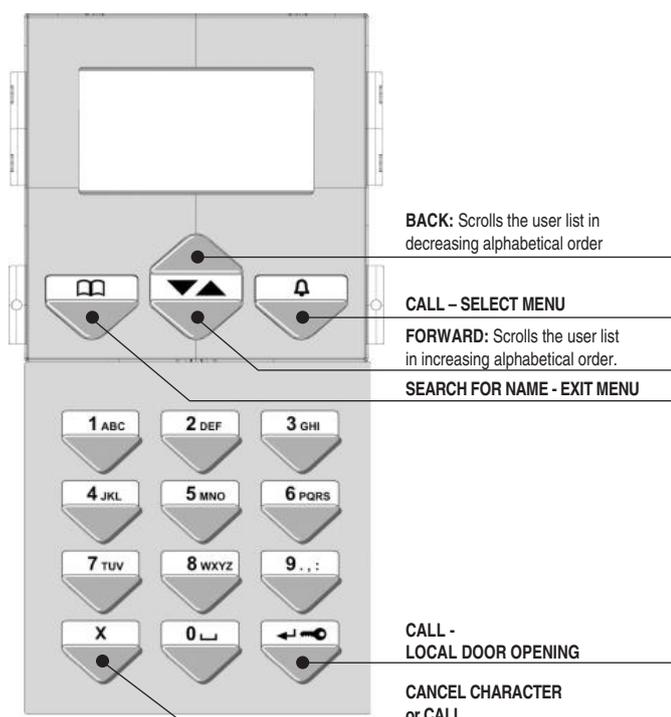


INTRODUCTION

The digital call module FT3340 can be used in audio and video settings, is fitted with a name directory to store a list of user names and with an alphanumeric keypad to call the door entry phone users by entering the code which identifies them. The main characteristics are as follows:

- Memory capacity: 400 names of 18 alphanumeric characters.
- Graphic display with 128x64 dots/pitch resolution.
- 2 call management modes : Standard or indirect code .
- Entering the name list (Download) by means of programmer FT1230 or by means of connection with a PC fitted with software FT1249/A.
- Entering the names by means of connection with the PC can be done over an RS232 line or over an RS485 line by means of the interface card FT1319.
- Reading (Upload) of the name list stored in the directory module by means of connection with a PC fitted with software FT1249/A.
- Access control with the possibility of storing up to 300 password codes to activate the relay in the porter module, typically used as a door opener.
- Possibility of displaying the graphic interface messages in one of the 9 languages available.

1) KEY FUNCTIONS



2) ACCESSING THE CONFIGURATION STAGE

OPERATION	ON DISPLAY	DESCRIPTION
Powered up with PR terminal connected to terminal - . Or: During normal operation press 0 , insert the supercode and confirm pressing 0 .	NAME DIRECTORY ACCESS CONTROL SETTINGS	The module is in programming mode: ⏏ to select the menu ▲▼ to scroll the menus. ⏏ to return to the previous menu.

3) SETTING THE LANGUAGE

3A) THE FIRST TIME THE MODULE IS TURNED ON, THE LANGUAGE HAS NOT YET BEEN SELECTED:

INITIAL CONDITION		
On power up	SELECT LANGUAGE: *ITALIAN ENGLISH	
OPERATION	ON DISPLAY	DESCRIPTION
Scroll the list by means of the ▲▼ keys. To select the language required, press ⏏ .	* ITALIAN ENGLISH FRANCAIS	The DEFAULT item sets the ITALIAN language. The next time the module is turned on, selection of the language is requested again.

3B) CHANGING THE LANGUAGE SET PREVIOUSLY:

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the SETTINGS / SELECT LANG. menu.	SELECT LANGUAGE: *ITALIAN ENGLISH	
Scroll the list by means of the ▲▼ keys. To select the language required, press ⏏ .	SELECT LANGUAGE: ITALIAN *ENGLISH	The default language on power up is Italian. The language set is marked by an asterisk on the left-hand side. When repowered the language resets to Italian by default.

4) SELF - DIAGNOSIS

On power up, the apparatus carries out a diagnostic test of the connections to check correct communication with porter module FT1602/FT4660 and with the keypad module which makes up FT3340. If the word OK appears next to the item, then it has passed the test, otherwise, if the word FAILED appears it has failed the test.

On completion of the Self-Diagnosis mode, press the ▼ key to put the module in the into its normal mode of operation.

The table summarising the meaning of the single tests is given below:

TEST	DESCRIPTION
INITIALIZING	Check the EEPROM which contains the user name list. If the test fails, the module is faulty.
SPEAK. SERIAL	If the test fails, check correct serial connection with porter module FT1602 / FT4660 .
MODE	Check presence of the alphanumeric keypad which makes up FT3340. If the wording FT3342 appears next to the description, correct connection between the alphanumeric keypad and the directory module must be checked.

5) USING THE NAME DIRECTORY

5A) SCROLLING AND CALLING THE USER SELECTED

INITIAL CONDITION		
During normal operation.	<p>ENTER TENANT CODE</p> <p>Followed by:</p> <p>SCROLL NAMES SEARCH NAME</p>	If some users have been stored in the directory.
OPERATION	ON DISPLAY	DESCRIPTION
Scroll the list by means of the ▲▼ keys. To exit, press the ⏏ key.	GIOVANNI ROSSI	The names are entered in alphabetical order.
Press the 📞 key to call the selected user.	<p>CALL EFFECTED</p> <p>Or:</p> <p>USER NOT AVAILABLE</p> <p>Or:</p> <p>USER BUSY</p>	<p>The call has been made correctly.</p> <p>The call has not been made correctly.</p> <p>The system is engaged.</p>
It is possible to cancel the call or the conversation in progress by pressing the X key.	<p>CALL EFFECTED</p> <p>Or:</p> <p>COMMUNICATING</p>	

5B) SEARCHING FOR A NAME IN THE DIRECTORY

INITIAL CONDITION		
During normal operation.	<p>SCROLL NAMES SEARCH NAME</p> <p>Followed by:</p> <p>ENTER TENANT CODE</p>	If some users have been stored in the directory.
OPERATION	ON DISPLAY	DESCRIPTION
Press the ⏏ key.	ENTER THE REQUIRED NAME TO SEARCH	
Enter the user name with part of the extension as well. EXAMPLE: SMITH	SMI_	
Press the 🔍 key to start the search.	SEARCH IN PROGRESS...	
	<p>SMITH JOHN</p> <p>Or:</p> <p>NAME NOT STORED IN DIRECTORY</p>	<p>The user name found is displayed.</p> <p>The user name does not exist.</p>
Now it is possible to scroll the user name list using the ▲▼ keys.		

6) USING THE CALL MODULE

INITIAL CONDITION		
During normal operation.	<p>SCROLL NAMES SEARCH NAME</p> <p>Followed by:</p> <p>ENTER TENANT CODE</p>	
OPERATION	ON DISPLAY	DESCRIPTION
EXAMPLE: If you want to call the user with code 1. Press key 1 on the alphanumerical keypad.	CALL USER: _ _ 1	
Press the ⏏ or 📞 key to call	<p>CALL EFFECTED</p> <p>Or:</p> <p>USER NOT AVAILABLE</p> <p>Or:</p> <p>USER BUSY</p>	<p>The call has been made correctly.</p> <p>The call has not been made correctly.</p> <p>The system is engaged.</p>
It is now possible to cancel the call or the conversation in progress by pressing the X key.	<p>CALL EFFECTED</p> <p>Or:</p> <p>COMMUNICATING</p>	

7) MANAGING THE DIRECTORY

7A) ENTERING A NAME

It is possible to store a name in the directory by means of infrared programmer FT1230, or by means of software FT1249/A, or directly by means of the alphanumerical keypad the module is fitted with.

7B) ENTERING BY MEANS OF FT1230

(not available if the call mode is In direct Code - see point 8)

INITIAL CONDITION		
During normal operation.	<p>ENTER TENANT CODE</p> <p>Followed by:</p> <p>SCROLL NAMES SEARCH NAME</p>	If some users have been stored in the directory.
OPERATION	ON DISPLAY	DESCRIPTION
Press the NAME-> of FT1230.	ENTERING A NAME	
Enter the user name to be inserted. EXAMPLE: SMITH JOHN	SMITH JOHN	To use the lower-case characters of the keys, press SHIFT. To cancel the character on the left press < . To enter special characters, press the combination of keys described below: NAME -> + A = Å NAME -> + B = Ä NAME -> + C = ß NAME -> + O = Ö NAME -> + P = Ø NAME -> + Q = Ü Press ESC to cancel the user name entry operation.
Press the ENTER key of FT1230.	CODE: _ _ _	
Enter the user name. EXAMPLE: 1	CODICE: _ _ 1	
Press the ENTER key of FT1230 to store the user name and code.	STORING IN PROGRESS...	
It is possible to proceed to enter other users.		

7C) ENTERING BY MEANS OF SOFTWARE FT1249/A

INITIAL CONDITION		
During normal operation. Connect the cable combined with FT1249/A to the TX / RX / - terminals. Module FT3340 and FT3342 must not be under programming.	ENTER TENANT CODE	The directory must be empty.
OPERATION	ON DISPLAY	DESCRIPTION
Run the software FT1249/A. Consult the online Guide of the products for the settings required. Press the F7 key to start downloading. CAUTION: The call mode selected must correspond with the one set in module FT3340 (see point 9).	 Or: DOWNLOAD FAILED	If downloading is taking place correctly. If there are connection problems.
On completion of downloading.	DOWNLOAD TERMINATED	

7D) MULTIDOWNLOAD

It is possible to create an RS485 system with digital call modules FT3340/FT3342 to upload or download a user name list on any of the modules on this system, using a pc upgraded with software FT1249/A version 2.2 or later. Each module must have different ID CODE (see point 9C).

7E) ENTERING DIRECTLY FROM THE KEYPAD

(not available if the call mode is Indirect Code - see point 8)

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTING	
Select the NAME DIRECTORY/ENTERING NAMES/MANUALLY menu.	_	The module is ready for entering the names.
Proceed with user name entry. EXAMPLE: JOHN SMITH	JOHN SMITH_	To cancel the character to the left of the cursor, press the X key, for special characters, key 9.
Press the ← key to proceed with the user code entry. EXAMPLE: 1	CODE: __ 1	
Press the ← key to store the user name and code.	STORING IN PROGRESS... Or: NAME ALREADY IN MEMORY	If the user name is already in the directory.
It is possible to proceed to enter other users.	_	

7F) CHANGING A NAME OR A USER CODE

(not available if the call mode is Indirect Code - see point 8)

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	

OPERATION	ON DISPLAY	DESCRIPTION
Select the NAME DIRECTORY/ CHANGE NAMES menu.	ENTER PART OF THE NAME REQUIRED	The user name to be modified is requested.
Enter the user name to be modified, with part of the extension as well. EXAMPLE: SMIT	SMIT_	
Press the ← key to proceed with searching for the user name.	SEARCH IN PROGRESS...	
Use the ▲▼ keys to scroll the user name list. Select the user name to be modified. EXAMPLE: JOHN SMITH	JOHN SMITH	
Press the ← key to proceed with modification of the user name.	JOHN SMITH _	
Modify the name by means of the alphanumerical keypad.	JOHN SMITH _	
Press the ← key to proceed with modification of the user code.	CODE: __ 1	
Modify the code by means of the alphanumerical keypad.	CODE __ 2	
Press the ← key to store the user name and code.	STORING IN PROGRESS... Or: NAME ALREADY IN MEMORY	
It is possible to proceed to modify another user.		

7G) CANCELLING A NAME

(not available if the call mode is Indirect Code - see point 8)

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the NAME DIRECTORY/DELETING NAMES menu.	ENTER PART OF THE NAME REQUIRED	The user name to be cancelled is requested.
Enter the user name to be cancelled, with part of the extension as well. EXAMPLE: SMI	SMI_	
Press the ← key to proceed with searching for the user name.	SEARCH IN PROGRESS ...	
Use the ▲▼ keys to scroll the user list. Select the user name to be cancelled. EXAMPLE: SMITH JOHN	SMITH JOHN	
Press the ← key to proceed with cancelling the user name.	ELIMINATION IN PROGRESS...	
It is possible to proceed to cancel another user.		

7H) CANCELLING A NAME BY MEANS OF FT1230
(not available if the call mode is Indirect Code - see point 8)

INITIAL CONDITION		
In normal mode of operation.	ENTER TENANT CODE	If some users have been stored in the directory.
	Followed by: SCROLL NAMES SEARCH NAME	
OPERATION	ON DISPLAY	DESCRIPTION
Select the user name to be eliminated by scrolling the list by means of the ▲▼ keys.	SMITH JOHN	
Press the NAME-> key of FT1230.	ELIMINATE THE NAME?	
Press the ENTER key of FT1230 to confirm elimination.	DELETING MEMORY...	

7I) CANCELLING ALL THE NAMES IN THE DIRECTORY

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the NAME DIRECTORY/DELETE ALL NAMES menu.	DELETE ALL NAMES?	
Press the ⏏ key to eliminate all the users in the directory. Press the ⏏ key to cancel the operation.	ELIMINATION IN PROGRESS...	

7L) DISPLAYING THE NUMBER OF NAMES ENTERED IN THE DIRECTORY, THE SOFTWARE VERSION INSTALLED AND THE ID CODE

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the INFO menu.	Comelit REV. 1.6 NAMES STORED: 0 ADRESSE RS485: 255	

8) SETTING THE OPERATING MODE
(Standard or indirect code)

8A) STANDARD CALL MODE (Default)

In this operating mode the entry phone user is identified by a un User Name field and by a Code field.

EXAMPLE: User name = Smith ; Code = 1

The call can be made in the following ways:

- 1) I select the user **Smith** by means of the ▲▼ keys → I press the ⏏ key → I send the call to the user identified with code 1.
- 2) From the keypad I enter the code 1 → I press the ⏏ key.

8B) INDIRECT CODE CALL MODE

In this operating mode the entry phone user is identified by the **Indirect code**, **User name** (optional) and **Code** fields.

EXAMPLE: User name = Smith ; Code = 1 ; Indirect Code = 100

The call can be made in the following ways:

- 1) I select the user **Smith** by means of the ▲▼ keys → I press the ⏏ key → I send the call to the user identified with code 1.
- 2) From the keypad I enter the **Indirect Code 100** → I press the ⏏ key → I send the call to the user identified with code 1.

Entry of the list with the listed fields can only be carried out by means of the software FT1249/A.

The indirect code can have a maximum of 6 figures.

The User Name field can also be omitted (see **Indirect Code Mode without name field** in the online Guide FT1249/A).

To update a module where a list has already been stored, it is first necessary to completely cancel the one present, following the procedure in the 7L paragraph.

To select the Standard call mode or indirect code, the following operations must be carried out:

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the SETTINGS / CALL OPERATING menu	CALL OPERATING * STANDARD INDIRECT CODE	
Select the desired mode by means of the ▲▼ keys.	CALL OPERATING * STANDARD INDIRECT CODE	
Press the ⏏ key to confirm the selection	CALL OPERATING STANDARD * INDIRECT CODE	

9) MODIFYING THE SYSTEM PARAMETERS

9A) SETTING THE PORTER FT1602-FT4660 PARAMETERS

(door opening time, conversation time and reset wait time)

The time which passes between closing down a communication and the possibility of being able to start another is meant by reset wait time).

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Module FT1602 / FT4660 powered up with PR terminal connected to terminal -.		The module is in the programming mode
Press ⏏ to select the SETTINGS / SYSTEM PARAMETERS / SPEAKER PARAMETERS menu	ENTER AUDIO TIMING ENT. DOOR LOCK TIME ENTER RESET TIME	
Select the parameter to be modified. EXAMPLE: conversation time.	ENTER AUDIO TIMING ENT. DOOR LOCK TIME ENTER RESET TIME	
Modify the parameter value by means of the ▲▼ keys, press the ⏏ key to cancel the operation.	VALUE IN SECS. 010	Admissible values. Conversation time from 10 to 180 sec. Door opening time: from 1 to 99 sec. Reset wait time: from 0 to 10 sec.
Press the ⏏ key to confirm the value.	PARAMETER CHANGED	A confirmation tone will be heard on porter module FT1602 / FT4660.

9B) DISPLAYING THE PORTER FT1602 – FT4660 PARAMETERS
(door opening time, conversation time and reset wait time).

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out. (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Module FT1602 / FT4660 powered up with PR terminal connected to terminal - .		
Select the SETTINGS / SYSTEM PARAMETERS / SPEAKER PARAMETERS/ VIEWING menu.	DOOR LOCK TIME 01 AUDIO TIMING 010 WAITING TIME 10	The parameters set on the porter FT1602 / FT4660 module are displayed. CAUTION: The function is only guaranteed with porter modules which have a software version of 2.0 or later.

9C) SETTING THE ID CODE (Default = 0)
The ID code is only used in special applications.

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the SETTINGS / SYSTEM PARAMETERS / RS485 ADDRESS menu.	RS485 ADDRESS: 01	The ID code displayed is not the one configured.
Press the key to confirm the selection.	RS485 ADDRESS: 01	The ID code displayed is not the one configured.
Use the keys to modify the value of the ID code.	RS485 ADDRESS: 254	The code can have a value from 1 to 255.
Press the key to store the value.	PARAMETER CHANGED	

10) MANAGEMENT OF THE ACCESS CONTROL FUNCTION

10A) DEFAULT SUPERCODE

The supercode allows access to the configuration stage

10B) CHANGING THE SUPERCODE (Default = 778899)

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the ACCESS CONTROL / SUPERCODE / ENTER NEW ONE menu.	NEW SUPERCODE: -----	
Enter the new supercode. It must have 6 figures.	NEW SUPERCODE: *****	
Press the key to confirm the entry.	SUPERCODE CHANGED Or: SUPERCODE WRONG	

10C) RESETTING THE SUPERCODE

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the ACCESS CONTROL / SUPERCODE / DELETE menu.	SUPERCODE CHANGED	

10D) ENTERING A PASSWORD CODE (Default = no code stored)

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the ACCESS CONTROL / PASSWORD menu.	ENTER DELETE SEARCH	You access the door-opening password management menu.
Select the ENTRY menu.	ENTER PASSWORD: -----	
Enter the desired password value.	ENTER PASSWORD: *****	The password can have from 1 to 6 characters.
Press the key to confirm the entry.	STORING IN PROGRESS...	
It is possible to proceed to enter other passwords.	ENTER PASSWORD: -----	

10E) CANCELLING A PASSWORD CODE

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the ACCESS CONTROL / PASSWORD menu.	ENTER DELETE SEARCH	You access the door-opening password management menu.
Select the DELETE menu.	ENTER DELETE SEARCH	
Press the key to confirm the selection.	DELETE PASSWORD: -----	
Enter the password value to be eliminated.	DELETE PASSWORD: *****	
Press the key to confirm the entry.	DELETING MEMORY... Or: DELETE PASSWORD: X X X X X X	If the password was found in the list. If the password is not found, the one with a similar value is shown. It is possible to scroll the list of entered passwords by using the keys. To cancel the one selected, press the key .
It is possible to proceed to eliminate other passwords.	DELETE PASSWORD: -----	

10F) CANCELLING ALL THE PASSWORD CODES

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the ACCESS CONTROL / PASSWORD menu.	ENTER DELETE SEARCH	You access the door-opening password management menu.
Select the DELETE menu.	DELETE ALL PASSWORDS?	
Press the  key to confirm elimination of all the passwords.	DELETING MEMORY...	

10G) SEARCHING FOR A PASSWORD CODE

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the ACCESS CONTROL / PASSWORD menu.	ENTER DELETE SEARCH	You access the door-opening password management menu.
Select the SEARCH menu.	SEARCH PASSWORD: -----	
Enter the password value to be searched for. EXAMPLE:112233	SEARCH PASSWORD: *****	
Press the  key to confirm the entry.	SEARCH PASSWORD: 112233	The password searched for or the one with a similar value stored in the list is shown.
It is possible to display the list of passwords entered using the  keys.	SEARCH PASSWORD: 112244	The passwords are stored in increasing order

10H) ACTIVATING THE DOOR OPENING RELAY BY ENTERING THE PASSWORD CODE

INITIAL CONDITION		
In normal mode of operation.	ENTER TENANT CODE Followed by: SCROLL NAMES SEARCH NAME	If some users have been stored in the directory.
OPERATION	ON DISPLAY	DESCRIPTION
Press the  key.	ENTER PASSWORD: -----	Entry of the password code is requested.
Enter the password code	ENTER PASSWORD: *****	
Press the  key.	PASSWORD CONFIRMED Or: WRONG PASSWORD	If it is a code in the memory, the relay in module FT1602 / FT4660 is activated. If a code is not in the memory.

10I) DISPLAYING THE NUMBER OF PASSWORDS ENTERED

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the ACCESS CONTROL / INFO menu.	Comelit PASSWORDS ENTERED: 1	The number of passwords entered is displayed.

11) SETTING THE TYPE OF CONNECTION WITH THE PC,
RS232 or RS485 (Default = RS232)

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the SETTINGS / TYPE OF DOWNLOAD menu	TYPE OF DOWNLOAD *RS232 RS485	The DEFAULT setting is RS232.
Select the download mode using the  keys. EXAMPLE: RS485	TYPE OF DOWNLOAD *RS232 RS485	The mode set is marked by an asterisk on the left side.
Press the  key to confirm the selection.	TYPE OF DOWNLOAD RS232 * RS485	An asterisk will appear on the left side of the item selected.

Electronic name directory module FT3342

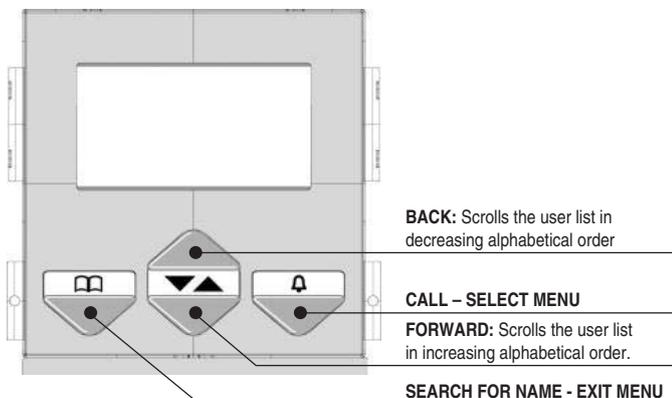
INTRODUCTION

The electronic name directory module FT3342 can be used in audio and video settings, is fitted with a name directory to store a list of user names.

The main characteristics are as follows:

- Memory capacity: 400 names of 18 alphanumerical characters.
- Graphic display with 128x64 dots/pitch resolution.
- 2 call management modes : Standard or indirect code .
- Entering the name list (Download) by means of programmer FT1230 or by means of connection with a PC fitted with software FT1249/A.
- Entering the names by means of connection with the PC can be done over an RS232 line or over an RS485 line by means of the interface card FT1319.
- Reading (Upload) of the name list stored in the directory module by means of connection with a PC fitted with software FT1249/A.
- Possibility of displaying the graphic interface messages in one of the 9 languages available.

1) KEY FUNCTIONS



2) ACCESSING THE CONFIGURATION STAGE

OPERATION	ON DISPLAY	DESCRIPTION
Powered up with PR terminal connected to terminal -	NAME DIRECTORY ACCESS CONTROL SETTINGS	The module is in programming mode: 🔔 to select the menu ▲▼ to scroll the menus 📖 to return to the previous menu

3) SETTING THE LANGUAGE

3A) THE FIRST TIME THE MODULE IS TURNED ON, THE LANGUAGE HAS NOT YET BEEN SELECTED:

INITIAL CONDITION		
On power up	SELECT LANGUAGE: * ITALIAN ENGLISH	
OPERATION	ON DISPLAY	DESCRIPTION
Scroll the list by means of the ▲▼ keys. To select the language required, press 🔔	* ITALIAN ENGLISH FRANÇAIS	The DEFAULT item sets the ITALIAN language. The next time the module is turned on, selection of the language is requested again.

3B) CHANGING THE LANGUAGE SET PREVIOUSLY:

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2)	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the SETTINGS / SELECT LANGUAGE menu	SELECT LANGUAGE: * ITALIANO ENGLISH	
Scroll the list by means of the ▲▼ keys. To select the language required, press 🔔	SELECT LANGUAGE: ITALIANO *ENGLISH	The default language on power up is Italian. The language set is marked by an asterisk on the left-hand side. When repowered the language resets to Italian by default.

4) SELF - DIAGNOSIS

On power up, the apparatus carries out a diagnostic test of the connections to check correct communication with porter module FT1602/FT4660.

If the word OK appears next to the item, then it has passed the test, otherwise, if the word FAILED appears it has failed the test. On completion of the Self-Diagnosis mode, press the ▼ key to put the module in the into its normal mode of operation.

The table summarising the meaning of the single tests is given below:

TEST	DESCRIPTION
INIZIALIZING	Check the EEPROM which contains the user name list. If the test fails, the module is faulty.
SPEAK. SERIAL	If the test fails, check correct serial connection with porter module FT1602 / FT4660 .
MODE	Check presence of the alphanumerical keypad which makes up FT3340. Since it is not provided for FT3342, the wording FT3342 must appear.

5) USING THE NAME DIRECTORY

5A) SCROLLING AND CALLING THE USER SELECTED

INITIAL CONDITION		
During normal operation.	SCROLL NAMES SEARCH NAME	
OPERATION	ON DISPLAY	DESCRIPTION
Scroll the list by means of the ▲▼ keys. To exit, press the 📖 key	ROSSI GIOVANNI	The names are entered in alphabetical order.
Press the 🔔 key to call the selected user.	CALL EFFECTED Or: USER NOT AVAILABLE Or: USER BUSY	The call has been made correctly. The call has not been made correctly. The system is engaged.

5B) SEARCHING FOR A NAME IN THE DIRECTORY

INITIAL CONDITION		
During normal operation.	SCROLL NAMES SEARCH NAME	
OPERATION	ON DISPLAY	DESCRIPTION
Press the 📖 key.	SEARCH THE NAME BY ENTERING INITIAL And then: SELECT INITIAL: A B C D E F G ...	

OPERATION	ON DISPLAY	DESCRIPTION
Select the initial using the ▲▼ keys. To exit press the key. EXAMPLE: A	SELECT INITIAL: A B C D E F G	
Press the key to start the search.	SEARCHING IN MEMORY...	
	ALBINI GIOVANNI Or: NO NAMES FOUND WITH THIS INITIAL	The first user name in alphabetical order with the selected initial is displayed. No user name with the selected initial exists.
It is now possible to scroll the user name list using the ▲▼ keys.		

6) MANAGING THE DIRECTORY

6A) ENTERING A NAME

It is possible to store a name in the directory by means of infrared programmer FT1230, or by means of software FT1249/A.

6B) ENTERING BY MEANS OF FT1230

INITIAL CONDITION		
During normal operation	SCROLL NAMES SEARCH NAME	
OPERATION	ON DISPLAY	DESCRIPTION
Press the NAME-> of FT1230.	ENTER A NAME	
Enter the user name to be inserted. EXAMPLE: ROSSI GIOVANNI	ROSSI GIOVANNI_ ENTER NAME 	To use the lower-case characters of the keys, press SHIFT. To cancel the character on the left press < . To enter special characters, press the combination of keys described below: NAME -> + A = Å NAME -> + B = Ä NAME -> + C = ß NAME -> + O = Ö NAME -> + P = Ø NAME -> + Q = Ù Press ESC to cancel the user name entry operation.
Press the ENTER key of FT1230.		
Enter the user code. EXAMPLE: 1	_ _ 1 ENTER CODE 	
Press the ENTER key of FT1230 to store the user name and code.	STORING IN MEMORY...	
It is possible to proceed to enter other users.		

6C) ENTERING BY MEANS OF SOFTWARE FT1249/A

INITIAL CONDITION		
During normal operation. Connect the cable combined with FT1249/A to the TX / RX / - terminals. Module FT3340 and FT3342 must not be under programming.	SCROLL NAMES SEARCH NAME	
OPERATION	ON DISPLAY	DESCRIPTION
Run the software FT1249/A. Consult the online Guide of the products for the settings required. Press the F7 key to start downloading.	 Or: DOWNLOAD FAILED	If downloading is taking place correctly. If there are connection problems.
On completion of downloading.	DOWNLOAD TERMINATED	

6D) MULTIDOWNLOAD

It is possible to create an RS485 system with digital call modules FT3342 to upload or download an user name list on any of the modules on this system, using a pc upgraded with software FT1249/A version 2.2 or later. Each module must have different ID CODE (see point 7C).

6E) CANCELLING A NAME BY MEANS OF FT1230

INITIAL CONDITION		
In normal mode of operation	SCROLL NAMES SEARCH NAME	
OPERATION	ON DISPLAY	DESCRIPTION
Select the user name to be eliminated by scrolling the list by means of the ▲▼ keys.	ROSSI GIOVANNI	
Press the NAME <- key of FT1230.	DELETE NAME? 	
Press the ENTER key of FT1230 to confirm elimination.	DELETING MEMORY...	

6F) CANCELLING ALL THE NAMES IN THE DIRECTORY

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the NAME DIRECTORY/DELETE ALL NAMES menu.	DELETE ALL NAMES?	
Press the key to eliminate all the users in the directory. Press the key to cancel the operation.	DELETING MEMORY...	

6G) DISPLAYING THE NUMBER OF NAMES ENTERED IN THE DIRECTORY, THE SOFTWARE VERSION INSTALLED AND THE ID CODE

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the INFO menu.	Comelit REV. 2.4 NAMES STORED: 00 ADDRESS RS485 255	

7 MODIFYING THE SYSTEM PARAMETERS

7A) SETTING THE PORTER FT1602-FT4660 PARAMETERS

(door opening time, conversation time and reset wait time. The time which passes between closing down a communication and the possibility of being able to start another is meant by reset wait time).

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Module FT1602 / FT4660 powered up with PR terminal connected to terminal - .		The module is in the programming mode
Press  to select the SETTINGS / SYSTEM PARAMETERS / SPEAKER PARAMETER menu	ENTER AUDIO TIMING ENT. DOOR LOCK TIME ENTER RESET TIME	
Select the parameter to be modified. EXAMPLE: AUDIO TIMING.	ENTER AUDIO TIMING ENT. DOOR LOCK TIME ENTER RESET TIME	
Modify the parameter value by means of the  keys, press the  key to cancel the operation	VALUE IN SECS. 010	Admissible values. Conversation time from 10 to 180 sec. Door opening time: from 1 to 99 sec. Reset wait time: from 0 to 10 sec.
Press the  key to confirm the value	PARAMETER CHANGED	A confirmation tone will be heard on porter module FT1602/FT4660.

7B) DISPLAYING THE PORTER FT1602 – FT4660 PARAMETERS

(door opening time, conversation time and reset wait time).

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out. (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Module FT1602 / FT4660 powered up with PR terminal connected to terminal - .		
Select the SETTINGS / SYSTEM PARAMETERS / SPEAKER PARAMETER/ VIEWING menu.	DOOR LOCK TIME 01 AUDIO TIMING 010 WAITING TIME 10	The parameters set on the porter FT1602/FT4660 module are displayed. CAUTION: The function is only guaranteed with porter modules which have a software version of 2.0 or later.

7C) SETTING THE ID CODE (Default = 0)

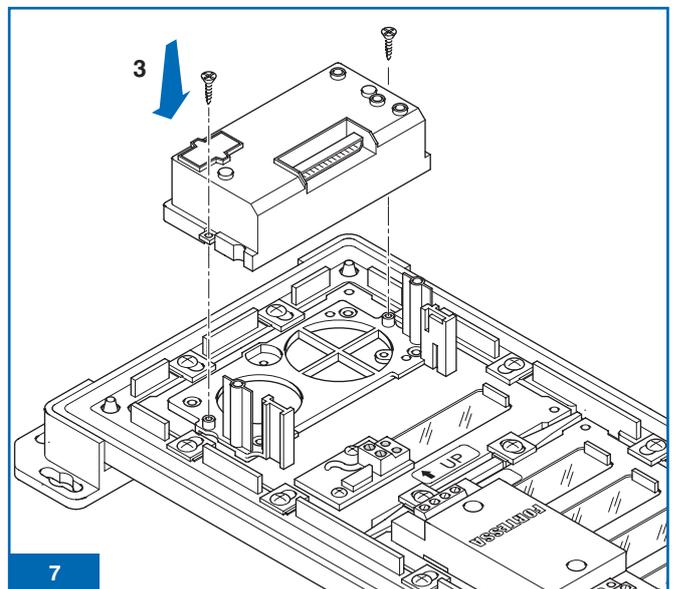
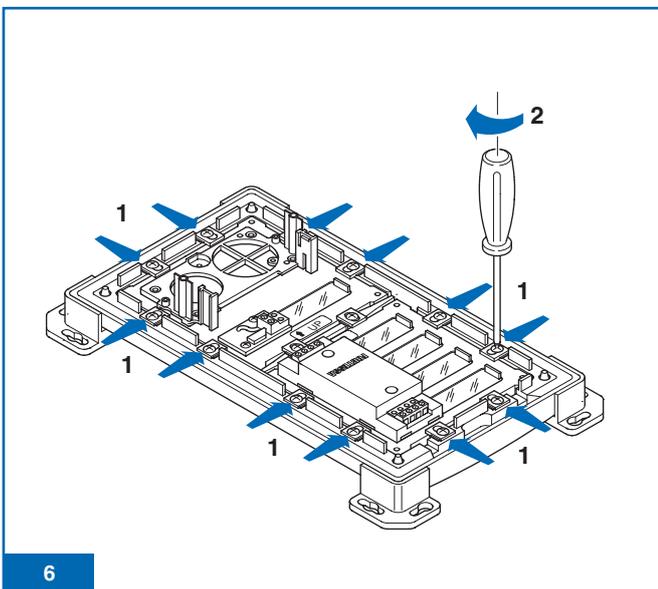
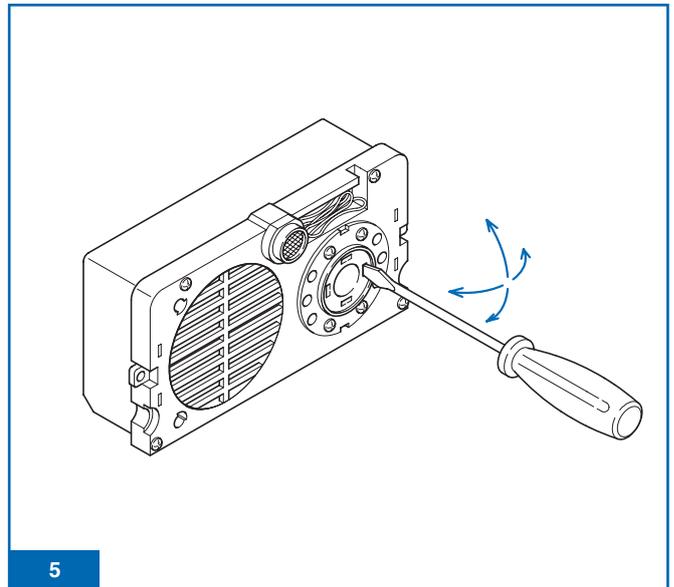
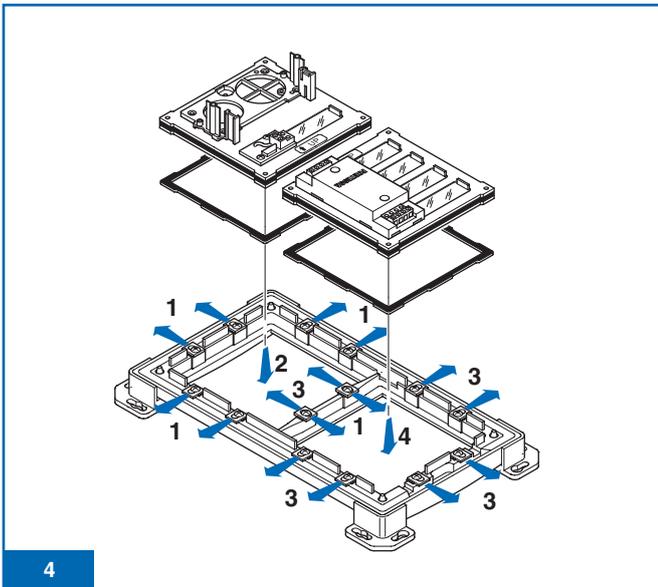
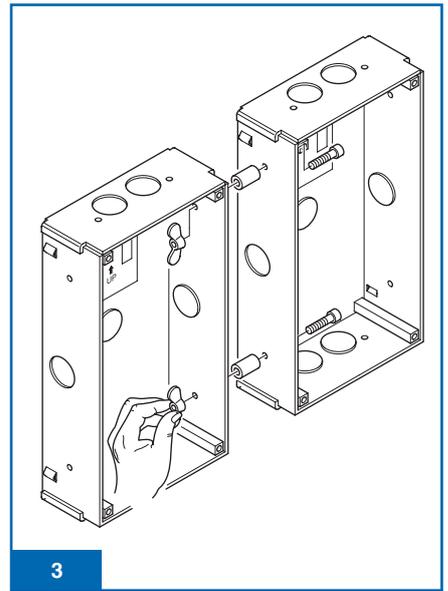
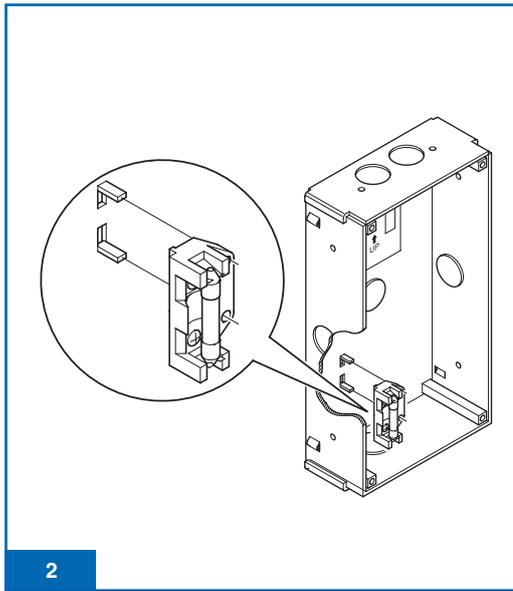
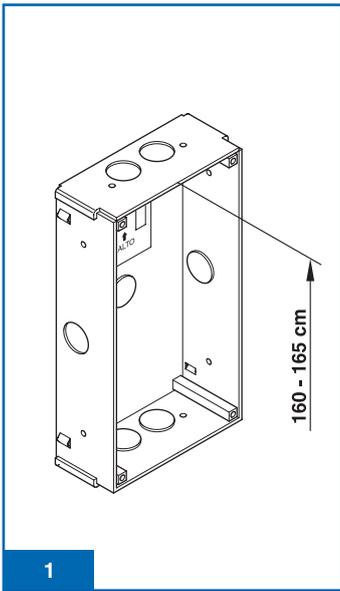
The ID code is only used in special applications.

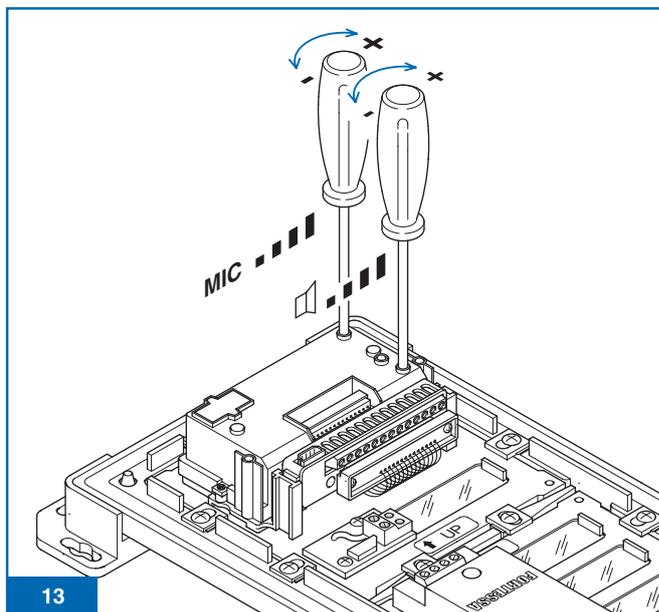
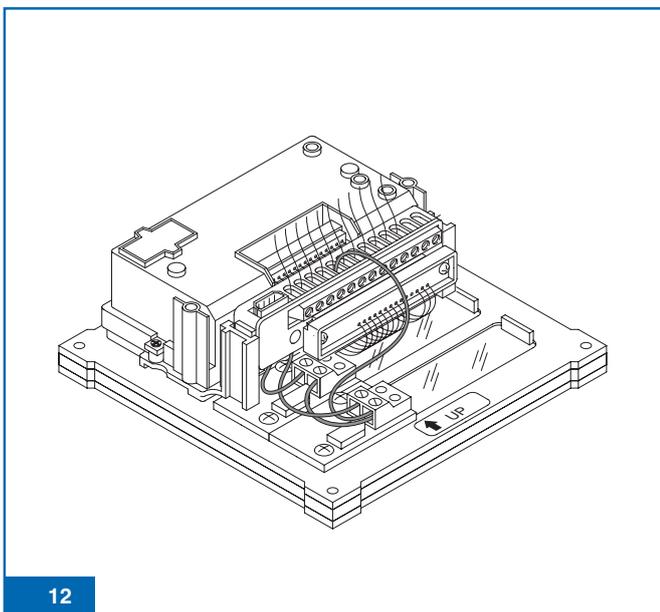
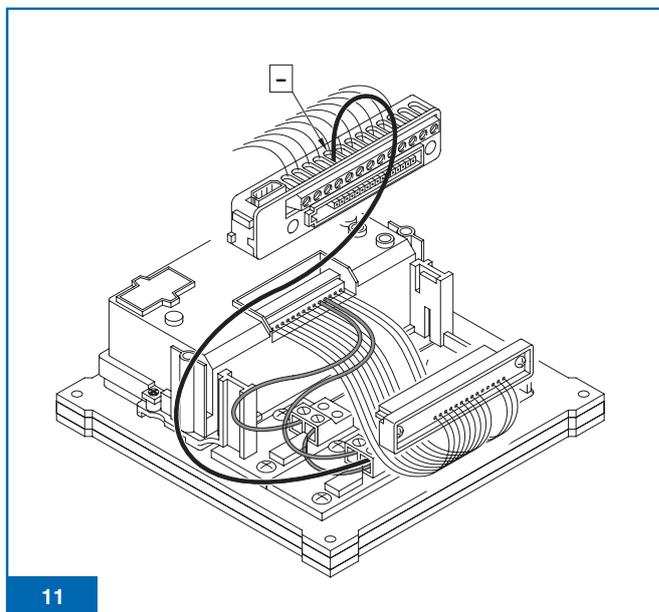
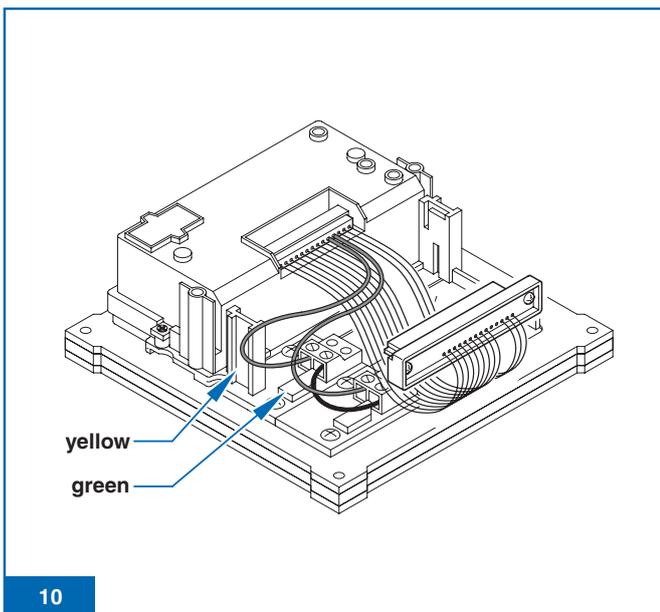
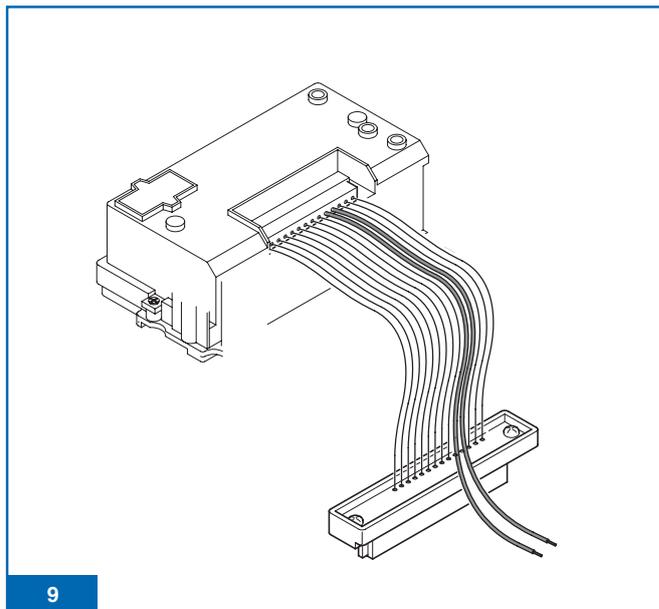
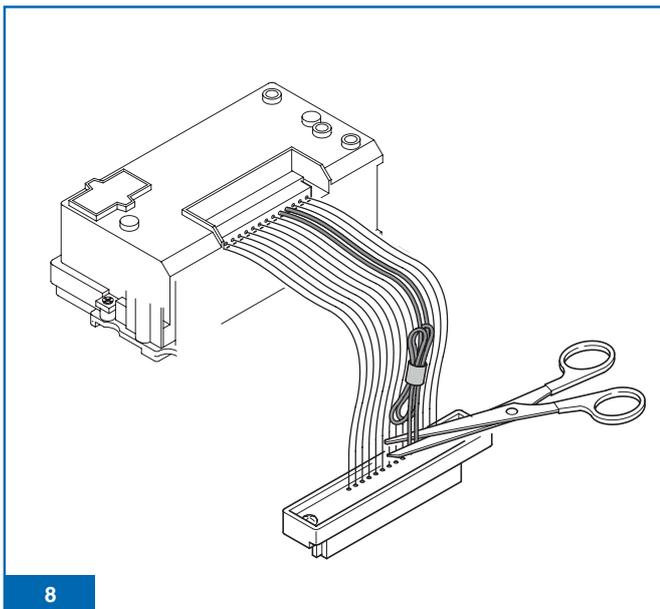
OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the SETTINGS / SYSTEM PARAMETERS / ADDRESS RS485 menu	ADDRESS RS485 : 01	The ID code displayed is not the one configured.
Press the  key to confirm the selection.	ADDRESS RS485 : 01	The ID code displayed is not the one configured.
Use the  keys to modify the value of the ID code	ADDRESS RS485 : 254	The code can have a value from 1 to 255.
Press the  key to store the value.	PARAMETER CHANGED	

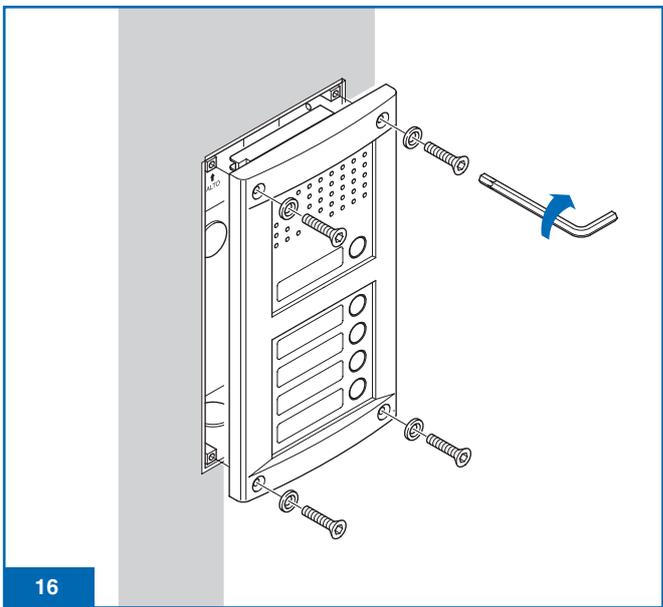
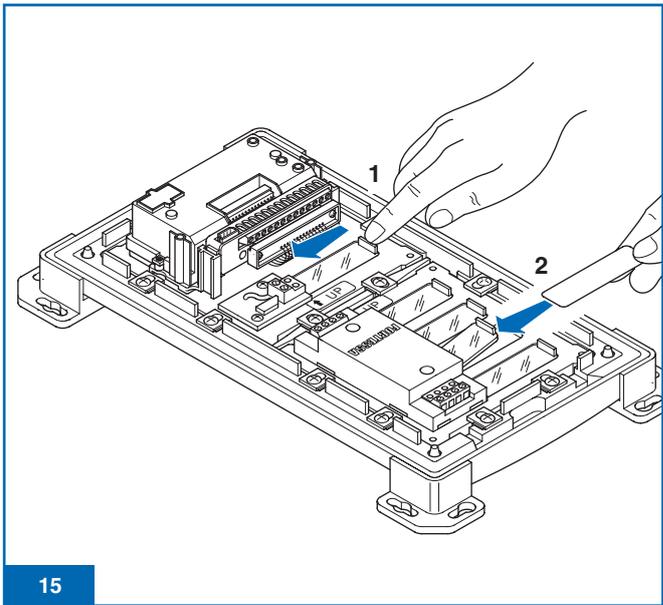
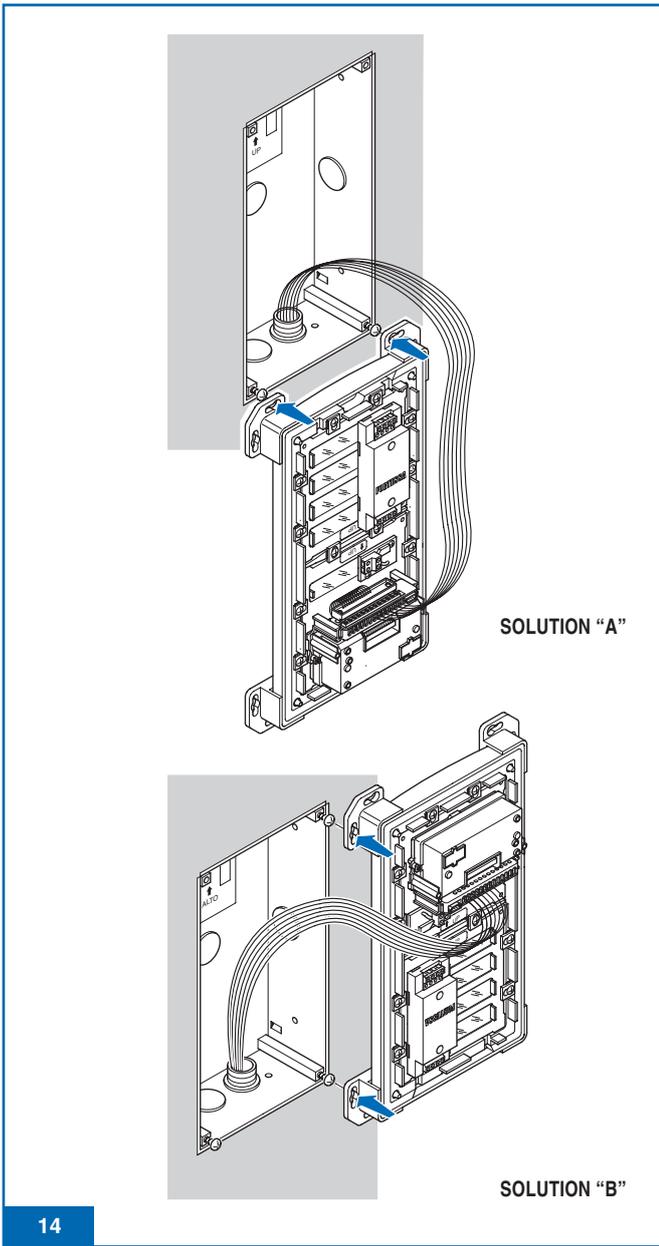
8) SETTING THE TYPE OF CONNECTION WITH THE PC, RS232 or RS485 (Default = RS232)

OPERATION	ON DISPLAY	DESCRIPTION
Access to the configuration stage has been carried out (see point 2).	NAME DIRECTORY ACCESS CONTROL SETTINGS	
Select the SETTINGS / TYPE OF DOWNLOAD menu	TYPE OF DOWNLOAD *RS232 RS485	The DEFAULT setting is RS232.
Select the download mode using the  keys. EXAMPLE: RS485	TYPE OF DOWNLOAD *RS232 RS485	The mode set is marked by an asterisk on the left side.
Press the  key to confirm the selection.	TYPE OF DOWNLOAD RS232 * RS485	An asterisk will appear on the left side of the item selected.

Instructions for installing external audio-video unit vandal resistant







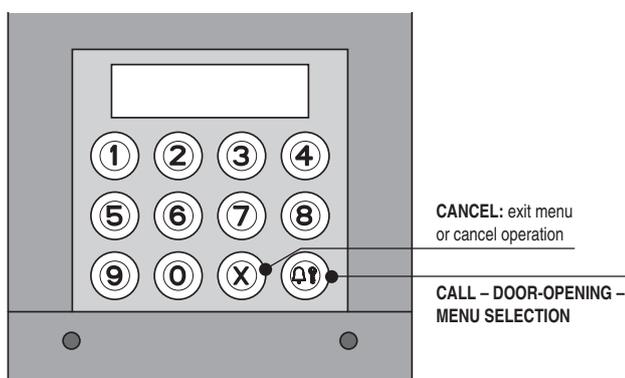
Digital call module FT3070/A

INTRODUCTION

The digital call module FT3070/A can be used in audio and video settings, and allows a door entry phone user to be called by entering their code. The main characteristics are as follows:

- Alphanumerical display with 32 characters.
- Can be combined with porter modules FT3262 (combined with module FT1602) and FT3268 (combined with module FT4660).
- STANDARD or INDIRECT CODE operating mode.
- Possibility of modifying the Door-opening Time, Conversation Time and Module reset wait Time parameters of the porter module.
- ACCESS CONTROL function to open the entrance by entering a pre-recorded password code.
- PC interface for management of the INDIRECT CODE mode by means of an RS232 or RS485 serial line.
- Possibility of displaying the graphic interface messages in one of the 9 languages available.

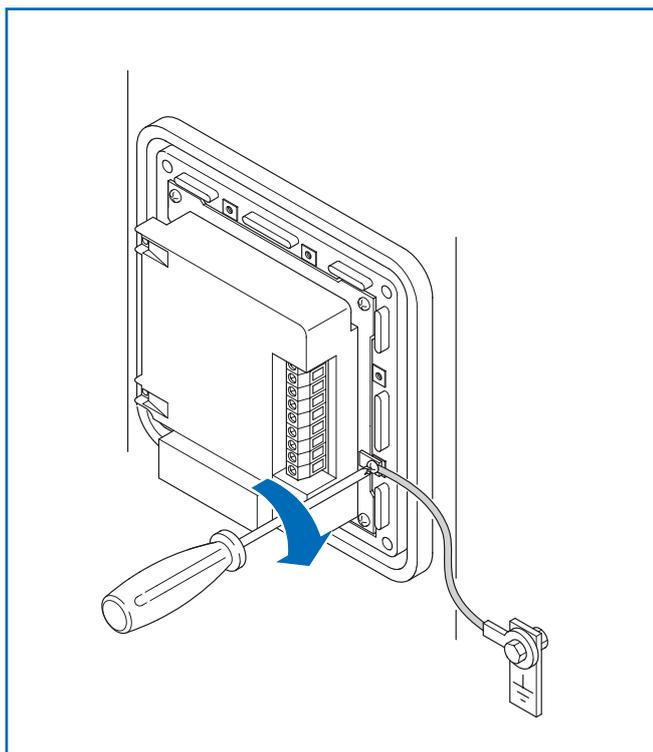
1) KEY FUNCTIONS



2) INSTALLATION OF THE MODULE

To use the FT3070/A module with FT3262 (combined with module FT3602) and FT3268 (combined with module FT4660), see the diagram 29 on page 74.

To prevent any interference caused by electrostatic discharges, it is advisable to screen the casing as shown under.



3) HOW TO USE THE DIGITAL MODULE

3A) CALL TO A USER:

INITIAL CONDITION		
Module supplied in stand-by condition.	ENTER TENANT CODE	
OPERATION	ON DISPLAY	DESCRIPTION
Enter the code by means of the numerical keypad of module FT3070/A. EXAMPLE: call to user with code 1	TENANT: __ 1 PRESS TO CALL	
Press the key to send the call.	If the call is successful the following will appear: CALL EFFECTED If the call is unsuccessful the following will appear: USER NOT AVAILABLE Or, if the riser is engaged, the following will appear: TENANT BUSY	

3B) RESETTING A CALL OR A CONVERSATION

INITIAL CONDITION		
Call sent or conversation going on.	CALL EFFECTED Or: COMMUNICATING...	
Press the X key.	ENTER TENANT CODE	Module FT3070/A returns to the stand-by state.

4) SETTINGS

4A) ACCESSING THE CONFIGURATION STAGE

OPERATION	ON DISPLAY	DESCRIPTION
Module supplied with terminal PR connected to terminal -.	MAIN SETTINGS	The module is in the programming stage. Menu scrolling takes place automatically every 2 seconds.
Or: During normal operation press , insert the supercode and confirm pressing .		

4B) SYSTEM PARAMETERS

4B-1) MODIFYING THE PORTER MODULE CONVERSATION, DOOR-OPENING AND RESET WAIT TIME PARAMETERS

This operation allows the conversation, door-opening relay closing and reset wait times of the porter module to be modified.

INITIAL CONDITION		
Access to the configuration stage has been carried out. (see point 4A).	MAIN SETTINGS	The module is in the programming stage. Menu scrolling takes place automatically every 2 seconds.
Porter module FT3262/ FT3268 supplied with terminal PR connected to terminal -.		The porter module is in the programming stage.

OPERATION	ON DISPLAY	DESCRIPTION
Select the SETTINGS / SYSTEM PARAM. / SPEAKER PARAM. menu by means of the key. To cancel an operation or to exit the menu press the X key.	SPEAKER PAR. ENTER t AUDIO	It is possible to modify the conversation time, the door-opening relay activation time and the reset wait time.
By means of the key, select the menu item corresponding to the parameter to be modified. EXAMPLE: Modifying the conversation time.	t AUDIO (10-180) VALUE: _ _ _	Menu scrolling takes place automatically every 2 seconds.
Enter the desired value. EXAMPLE: 100	t AUDIO (10-180) * VALUE: 100	* N.B: The values in brackets indicate the min and max limits of the parameter (ref. table page 21).
Press the key to confirm the value of the parameter.	PARAMETER CHANGED Or: WRONG ENTRY	If the entry has been made correctly. If the parameter does not come within the foreseen limits
After the modification has been made, remove the connections between PR and – on the FT3262 and FT3268 terminals.		

4B-2) DISPLAY OF THE PARAMETERS OF THE CONVERSATION, DOOR-OPENING AND RESET WAIT TIMES OF THE PORTER MODULE

This operation allows the values of the conversation, door-opening relay closure and reset wait time values set in the porter module to be displayed.

INITIAL CONDITION		
Access to the configuration stage has been carried out. (see point 4A).	MAIN SETTINGS	The module is in the program-ming stage. Menu scrolling takes place automatically every 2 seconds.
Porter module FT3262/ FT3268 supplied with terminal PR connected to terminal -.		The module is in the programming stage
OPERATION	ON DISPLAY	DESCRIPTION
Select the SETTINGS / SYSTEM PARAM. / SPEAKER PARAM. / VIEWING menu by means of the key. To exit the menu press the X key.	AUDIO TIMING VALUE: 180	After 3 seconds, the values of the other parameters are displayed in sequence
After the modification has been made, remove the connections between PR and – on the FT3262 and FT3268 terminals.		

4B-3) TYPE OF SERIAL DOWNLOAD

The parameter sets the type of connection used to download the list used for managing the INDIRECT CODE mode. An RS232 or RS485 interface is available.

INITIAL CONDITION		
Access to the configuration stage has been carried out. (see point 4A).	MAIN SETTINGS	The module is in the programming stage. Menu scrolling takes place automatically every 2 seconds.

OPERATION	ON DISPLAY	DESCRIPTION
Select the SETTINGS / SYSTEM PARAM. / DOWNLOAD TYPE menu by means of the key. To cancel an operation or to exit the menu press the X key.	DOWNL. TYPE(0 - 1) * VALUE: _	* N.B: The values in brackets indicate the min and max limits of the parameter (ref. table page 21).
Enter the desired value of the parameter.	PARAMETER CHANGED	If the entry has been made correctly.
Press the key to confirm the value of the parameter.	Or: WRONG ENTRY	If the parameter does not come within the foreseen limits.

4B-4) CALL MODE

The parameter sets the operating mode of the call module come STANDARD or INDIRECT CODE.

STANDARD CALL MODE (Default):

In this operating mode the entry phone user is identified by a **Code**.

The call takes place in the following way:

- I enter code 1 on the keypad → I press the key and send the call to the user identified by code 1

INDIRECT CODE CALL MODE:

In this operating mode the entry phone user is identified by the **Indirect code** and **Code** fields.

EXAMPLE: User **Rossi Giovanni** identified by Code = 1 and Indirect code = 100

The call takes place in the following way:

- I enter the **Indirect code** 100 on the keypad → I press the key and send the call to the user identified by code 1.

Entry of the list with the fields listed can only be done by means of the software FT1249/A set as INDIRECT CODE mode without field Name.

INITIAL CONDITION		
Access to the configuration stage has been carried out. (see point 4A).	MAIN SETTINGS	The module is in the program-ming stage. Menu scrolling takes place automatically every 2 seconds.
OPERATION	ON DISPLAY	DESCRIPTION
Select the SETTINGS / SYSTEM PARAM. / CALL MODE menu by means of the key. To cancel an operation or to exit the menu press the X key.	CALL MODE (0 - 1) * VALUE: _	* N.B: The values in brackets indicate the min and max limits of the parameter (ref. table page 21).
Enter the desired value of the parameter.	PARAMETER CHANGED	If the entry has been made correctly.
Press the key to confirm the value of the parameter.	Or: WRONG ENTRY	If the parameter does not come within the foreseen limits.

4B-5) RS485 ADDRESS

The value of this parameter is only used in special applications.

INITIAL CONDITION		
Access to the configuration stage has been carried out. (see point 4A).	MAIN SETTINGS	The module is in the programming stage. Menu scrolling takes place automatically every 2 seconds.

OPERATION	ON DISPLAY	DESCRIPTION
Select the SETTINGS / SYSTEM PARAM. / ADDRESS RS485 menu by means of the key. To cancel an operation or to exit the menu press the X key.	ADD.RS485 (1 -255) * VALUE: _ _ _	* N.B: The values in brackets indicate the min and max limits of the parameter (ref. table page 21).
Enter the desired value of the parameter. Press the key to confirm the value of the parameter.	PARAMETER CHANGED Or: WRONG ENTRY	If the entry has been made correctly. If the parameter does not come within the foreseen limits.

4C) SETTING THE LANGUAGE

The value of this parameter is used to set the language for the messages. If it is the first time module FT3070/A has been turned on, you must proceed as described below:

INITIAL CONDITION		
Module supplied	LANGUAGE (1-10): VALUE: _ _	
OPERATION	ON DISPLAY	DESCRIPTION
Enter the value of the parameter. EXAMPLE: if you want to set the ENGLISH language. To cancel the operation, press X .	LANGUAGE (1-10): * VALUE: 2 _ _	* N.B: The values in brackets indicate the min and max limits of the parameter (ref. table page 21). The DEFAULT item sets the messages in ITALIAN. The next time the module is turned on, selection of the language is requested again.
Press the key to confirm the value of the parameter.	PARAMETER CHANGED	If the entry has been made correctly.

To modify the value of the parameter, if the value set is not DEFAULT:

INITIAL CONDITION		
Access to the configuration stage has been carried out (see point 4A).	MAIN SETTINGS	The module is in the program-ming stage. Menu scrolling takes place automatically every 2 seconds.
OPERATION	ON DISPLAY	DESCRIPTION
Select the menu SETTINGS / LANGUAGE. To select, press . To exit, press X .	LANGUAGE (1-10) VALUE:2 _ _	
Enter the value of the parameter.	LANGUAGE (1-10): * VALUE: 2 _ _	* N.B: The values in brackets indicate the min and max limits of the parameter (ref. table page 21).
Press the key to confirm the value of the parameter.	PARAMETER CHANGED	If the entry has been made correctly.

5) ACCESS CONTROL

This function allows activation of the door-opening relay in the porter module (Contact SE / SE) by entering a previously stored password code (see paragraph CARRYING OUT DOOR OPENING BY ENTERING THE PASSWORD CODE).

5A) ENTERING A PASSWORD CODE

INITIAL CONDITION		
Access to the configuration stage has been carried out (see point 4A).	MAIN SETTINGS	The module is in the program-ming stage. Menu scrolling takes place automatically every 2 seconds.
OPERATION	ON DISPLAY	DESCRIPTION
Select the ACCESS CONTR. / PASSWORD / ENTER menu by means of the key. To exit press X .	PASSWORD VALUE: _ _ _ _ _	
Enter the password code desired. EXAMPLE: 100	PASSWORD VALUE:_ _ _ 100	The password code can have a maximum of 6 figures.
Press the key to confirm the entry.	STORING IN PROGRESS..... Or: ALREADY EXISTING	If the code entered does not exist in the memory. It is possible to enter up to 300 password codes. If the code entered already exists in the memory.

5B) ELIMINATION OF A PASSWORD CODE

INITIAL CONDITION		
Access to the configuration stage has been carried out (see point 4A).	MAIN SETTINGS	The module is in the program-ming stage. Menu scrolling takes place automatically every 2 seconds.
OPERATION	ON DISPLAY	DESCRIPTION
Select the ACCESS CONTROL / PASSWORD / DELETE menu by means of the key. To exit press X .	PASSWORD VALUE: _ _ _ _ _	
Enter the password code desired. EXAMPLE: 100	PASSWORD VALUE:_ _ _ 100	The password code can have a maximum of 6 figures.
Press the key to confirm the entry.	STORING IN PROGRESS..... Or: ALREADY EXISTING	If the code entered does not exist in the memory. It is possible to enter up to 300 password codes. If the code entered already exists in the memory.

5C) ELIMINATION OF A PASSWORD CODE

INITIAL CONDITION		
Access to the configuration stage has been carried out (see point 4A).	MAIN SETTINGS	The module is in the program-ming stage. Menu scrolling takes place automatically every 2 seconds.
OPERATION	ON DISPLAY	DESCRIPTION
Select the ACCESS CONTROL / PASSWORD / DELETE ALL menu by means of the key. To exit press X .	DELETE ALL PASSWORDS ?	Pressing the X key allows the operation to be cancelled.
To confirm press the key.	DELETING	

5D) CHANGING THE SUPERCODE

INITIAL CONDITION		
Access to the configuration stage has been carried out.	ACCESS CONTROL SUPERCODE	The module is in the program-ming stage. Menu scrolling takes place automatically every 2 seconds.
OPERATION	ON DISPLAY	DESCRIPTION
Select the ACCESS CONTROL / SUPERCODE / MODIFICATION menu by means of the key. To exit press X .	SUPERCODE VALUE: _____	
Enter the new supercode value. EXAMPLE: 222222	SUPERCODE VALUE: 222222	The supercode must have 6 figures.
Press the key to confirm the entry.	PARAMETER CHANGED	The new supercode value is 222222.

5E) CHANGING THE SUPERCODE TO THE DEFAULT VALUE

INITIAL CONDITION		
Access to the configuration stage has been carried out (see point 4A).	MAIN SETTINGS	The module is in the program-ming stage. Menu scrolling takes place automatically every 2 seconds.
OPERATION	ON DISPLAY	DESCRIPTION
Select the RESET SUPERCODE menu by means of the key. To exit press X .	PARAMETER CHANGED	The supercode has been modified to the default value (111111).

5F) DISPLAYING THE NUMBER OF PASSWORDS ENTERED AND THE SOFTWARE VERSION INSTALLED IN MODULE FT3070/A

INITIAL CONDITION		
Access to the configuration stage has been carried out (see point 4A).	MAIN SETTINGS	The module is in the program-ming stage. Menu scrolling takes place automatically every 2 seconds.
OPERATION	ON DISPLAY	DESCRIPTION
Select the INFO menu by means of the key.	REV 1.0 PASSWORDS:100	The software version installed in module FT3070/A is displayed on the first line. The number of password codes entered is displayed on the second line.

5G) CARRYING OUT A DOOR OPENING OPERATION BY ENTERING THE PASSWORD CODE

INITIAL CONDITION		
Module FT3070/A supplied in stand-by.	ENTER TENANT CODE	
OPERATION	ON DISPLAY	DESCRIPTION
Press the key.	PASSWORD: _ _ _ _ _ CONFIRM WITH	To cancel the operation, press the X key.
Enter the password code EXAMPLE: 100	PASSWORD: _ _ _ 100 CONFIRM WITH	If the password code exists in the memory. The SE / SE contact of the porter module will be activated.
Press the key.	PASSWORD CONFIRMED Or: ENTER TENANT CODE	
		If the password code does not exist in the memory.

6) INDIRECT CODE

6A) MULTIDOWNLOAD

It is possible to create an RS485 system with digital call modules FT3070/A to upload or download an user name list on any of the modules on this system, using a pc upgraded with software FT1249/A version 2.2 or later. Each module must have different ID CODE (see paragraph 4B-5).

6B) INSERTING A LIST (DOWNLOAD)

By means of the software FT1249/A it is possible to enter the list with the **Indirect code** and **Code** fields for the INDIRECT CODE operating mode inside module FT3070/A. The FT3070/A must be set in indirect code call mode (see paragraph 4B-4).

INITIAL CONDITION		
Module supplied in stand-by.	ENTER TENANT CODE	

OPERATION	ON DISPLAY	DESCRIPTION
Connect the small cable provided with the software FT1249/A to terminals TX / RX / - (or D / D- if there is an RS485 line).	ENTER TENANT CODE	
Run the software FT1249/A.	ENTER TENANT CODE	It is necessary to set the CALL MODE on the software FT1249/A as Indirect code without field name.
Compile the list with the Code and Indirect Code fields in the software FT1249/A, or load an existing one.	ENTER TENANT CODE	
Press the Download pushbutton in software FT1249/A.		
	DOWNLOADING... COMPLETED Or: DOWNLOADING... ABORTED	If the download has terminated successfully. If some anomaly has occurred during the download.

6C) READING THE STORED LIST (UPLOAD)

By means of the software FT1249/A it is possible to read the list with the **Indirect code** and **Code** fields for the INDIRECT CODE operating mode from module FT3070/A. The FT3070/A must be set in indirect code call mode. It is necessary to carry out the following operations:

INITIAL CONDITION		
OPERATION	ON DISPLAY	DESCRIPTION
Module supplied in stand-by.	ENTER TENANT CODE	
Connect the small cable provided with the software FT1249/A to terminals TX/RX/ - (or D / D- if there is an RS485 line).	ENTER TENANT CODE	
Run the software FT1249/A.	ENTER TENANT CODE	
Press the Upload pushbutton in the software FT1249/A.		
The list will be loaded inside software FT1249/A.	UPLOAD COMPLETED Or: UPLOAD ABORTED	If the list upload has terminated successfully. The list is cancelled from module FT3070/A. If some anomaly has occurred during the upload of the list.

7) PARAMETER TABLE

The explanatory table of the configuration parameters of module FT3070/A is given below:

PARAMETER	POSSIBLE VALUE	DEFAULT VALUE
LANGUAGE	1=ITALIAN 2=ENGLISH 3=FRENCH 4=GERMAN 5=PORTUGUESE 6=DANISH 7=FINNISH 8=DUTCH 9=SPANISH 10=DEFAULT (you will be requested to enter the language the next time module FT3070/A is turned on).	10 = DEFAULT
DOWNLOAD TYPE	0 = Connection by means of RS232 line 1 = Connection by means of RS485 line	0 = Connection by means of RS232 line
CALL MODE	0 = STANDARD 1 = INDIRECT CODE	0 = STANDARD
RS485 ADDRESS	Value from 01 to 255	0
CONVERSATION TIME	Value from 10 to 180. It expresses the time in seconds of the entry phone conversation.	180
DOOR-OPENING TIME	Value from 01 to 99. It expresses the time in seconds of the door-opening relay.	01
RESET TIME	Value from 0 to 10. It expresses the time in seconds of the reset wait at the end of a telephone conversation.	10

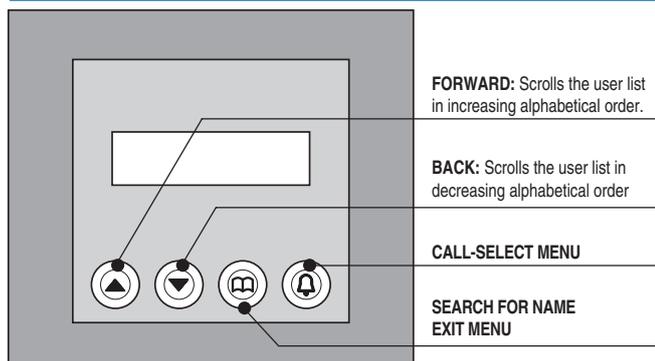
Electronic name directory module FT3072/A

INTRODUCTION

The electronic name directory module FT3072/A can be used in audio and video settings, and allows a door entry phone user to be called by selecting them from a list stored in the memory:

- Alphanumerical display with 32 characters.
- Can be combined with porter modules FT3262 (combined with module FT1602) and FT3268 (combined with module FT4660).
- Possibility of storing up to 400 users with a maximum length of 16 characters.
- Possibility of modifying the Door-opening Time, Conversation Time and Module reset wait Time parameters of the porter module.
- PC interface to be able to upload a list of users. A standard RS232 or RS485 connection is available.
- Possibility of displaying the graphic interface messages in one of the 9 languages available.

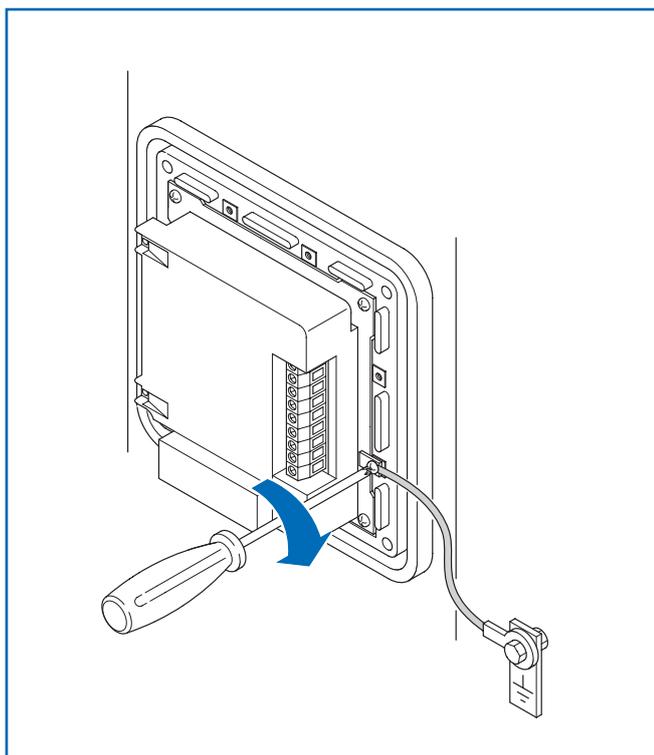
1) KEY FUNCTIONS



2) INSTALLATION OF THE MODULE

To use module FT3072/A with FT3262 (combined with module FT1602) and FT3268 (combined with module FT4660), see the diagram 29 on page 74.

To prevent any interference caused by electrostatic discharges, it is advisable to screen the casing as shown under.



3) USING THE NAME DIRECTORY

3A) SCROLLING THE LIST OF USERS AND CALLING

INITIAL CONDITION		
Module supplied in stand-by condition.	SEARCH THE NAME BY	
OPERATION	ON DISPLAY	DESCRIPTION
Scroll the list by means of the ▲ or ▼ keys.	ALBINI PIETRO PRESS TO CALL	Continual pressure on one of the keys makes scrolling faster.
Press the key to send the call.	If the call is successful the following will appear: CALL EFFECTED If the call is unsuccessful the following will appear: USER NOT AVAILABLE Or, if the riser is engaged, the following will appear: TENANT BUSY	

3B) SEARCHING FOR A USER ON THE LIST BY SELECTING THEIR INITIALS

INITIAL CONDITION		
Module supplied in stand-by condition.	SELECT NAME BY ↓ ↑	
OPERATION	ON DISPLAY	DESCRIPTION
Press the key.	SEARCH A NAME INITIAL WITH ↓ CONFIRM WITH	
Select the initial of the user name to be searched for by means of the ▲ or ▼ keys. EXAMPLE: A	A B C D E F G H I L M N O P Q R S T U V W X Y Z à á â ß ö ü	
Confirm selection by means of the key.	SEARCHING...	
Search the user name by means of the ▲ or ▼ keys.	ALBINI PIETRO PRESS TO CALL Or: NO USER FOUND	The first user on the list with the selected letter is displayed. No user starting with the selected letter has been found.

3C) CANCELLING A CALL

INITIAL CONDITION		
Call sent or conversation in progress.	CALL EFFECTED or COMMUNICATING...	
OPERATION	ON DISPLAY	DESCRIPTION
Press the key.	SELECT NAME BY ↓ ↑ or SEARCH THE NAME BY	Module FT3072/A returns to the stand-by state and the call sent on the riser is cancelled.

4) SETTINGS

4A) SYSTEM PARAMETERS

4A-1) MODIFYING THE CONVERSATION, DOOR-OPENING AND PORTER MODULE RESET TIME PARAMETERS

This operation allows the conversation, door-opening relay closing and reset wait times of the porter module to be modified.

INITIAL CONDITION		
Module FT3072/A supplied with terminal PR connected to terminal -.	MAIN SETTINGS ↓	The module is in the programming stage: ▲ or ▼ to scroll the menus ⏏ to select the menu ⏏ to pass to the lower level menu.
Porter module FT3262/ FT3268 supplied with terminal PR connected to terminal -.		The porter module is in the programming stage.
OPERATION	ON DISPLAY	DESCRIPTION
Select by means of the ▲ or ▼ keys the MAIN SETTINGS / SYSTEM PARAM / SPEAKER PARAM. menu.	SPEAKER PARAM. ENTER t AUDIO ↓	It is possible to modify the conversation time, the door-opening relay activation time and the reset wait time.
Scroll the menu items by means of the ▲ or ▼ keys and select the one regarding the parameter to be modified. EXAMPLE: Modifying the conversation time.	ENTER t AUDIO VALUE: ___ ↓ ↑	
Enter the desired value using the ▲ or ▼ keys. EXAMPLE: 100	ENTER t AUDIO VALUE: 100 ↓ ↑	Continual pressure on the ▲ or ▼ key increases or decreases the value by steps of 10.
Press the ⏏ key to confirm the parameter value.	PARAMETER CHANGED	If the entry has been made correctly.
After the modification has been made, remove the connections between PR and – on the FT3072/A FT3262 and FT3268 terminals.		

4A-2) DISPLAYING THE CONVERSATION, DOOR-OPENING AND PORTER MODULE RESET TIME PARAMETERS

This operation allows the values of the conversation, door-opening relay closure and reset wait time values set in the porter module to be displayed.

INITIAL CONDITION		
Module FT3072/A supplied with terminal PR connected to terminal -.	MAIN SETTINGS ↓	The module is in the programming stage: ▲ or ▼ to scroll the menus ⏏ to select the menu ⏏ to pass to the lower level menu.
Porter module FT3262/ FT3268 supplied with terminal PR connected to terminal -.		The module is in the programming stage.
OPERATION	ON DISPLAY	DESCRIPTION
Select the MAIN SETTINGS / SYSTEM PARAM. / SPEAKER PARAM. / VIEWING menu.	AUDIO TIMING VALUE: 100 ↓ ↑	After 3 seconds, the values of the other parameters are displayed in sequence.

OPERATION	ON DISPLAY	DESCRIPTION
After the modification has been made, remove the connections between PR and – on the FT3072/A, FT3262 and FT3268 terminals.		

4A-3) TYPE OF SERIAL DOWNLOAD

The parameter sets the type of connection used to download the user list. An RS232 or RS485 interface is available.

INITIAL CONDITION		
Module FT3072/A supplied with terminal PR connected to terminal -.	MAIN SETTINGS ↓	The module is in the programming stage: ▲ or ▼ to scroll the menus ⏏ to select the menu ⏏ to pass to the lower level menu.
OPERATION	ON DISPLAY	DESCRIPTION
Select the MAIN SETTINGS/ SYSTEM PARAM. / DOWNLOAD TYPE menu.	DOWNLOAD TYPE VALUE: 0 ↓ ↑	
Enter the desired value using the ▲ or ▼ keys. EXAMPLE: 1	DOWNLOAD TYPE VALUE: 1 ↓ ↑	
Press the ⏏ key to confirm the parameter value.	PARAMETER CHANGED	If the entry has been made correctly.
After the modification has been made, remove the connections between PR and – on the FT3072/A terminal.		

4A-4) RS485 ADDRESS

The value of this parameter is only used in special applications.

INITIAL CONDITION		
Module FT3072/A supplied with terminal PR connected to terminal -.	MAIN SETTINGS ↓	The module is in the programming stage: ▲ or ▼ to scroll the menus ⏏ to select the menu ⏏ to pass to the lower level menu.
OPERATION	ON DISPLAY	DESCRIPTION
Select the MAIN SETTINGS / SYSTEM PARAM. / ADDRESS RS485 menu.	ADDRESS RS485 VALUE: ___ ↓ ↑	
Enter the desired value using the ▲ or ▼ . EXAMPLE: 100.	ADDRESS RS485 VALUE: 100 ↓ ↑	
Press the ⏏ key to confirm the parameter value.	PARAMETER CHANGED Or: WRONG ENTRY	If the entry has been made correctly. If the parameter does not come within the foreseen limits.
After the modification has been made, remove the connections between PR and – on the FT3072/A terminal.		

4B) SETTING THE LANGUAGE

The value of this parameter is used to set the language for the messages.
If it is the first time module FT3072/A has been turned on, you must proceed as described below:

INITIAL CONDITION		
Module supplied.	LANGUAGE VALUE: 01 ↓ ↑	
OPERATION	ON DISPLAY	DESCRIPTION
Enter the value of the parameter. EXAMPLE: 02 if you want to set the ENGLISH Press the key to cancel the operation. To modify the value use the ▲ or ▼ keys.	LANGUAGE VALUE: 02 ↓ ↑	The DEFAULT item sets the messages in ITALIAN. The next time the module is turned on, selection of the language is requested again.
Press the key to confirm the value of the parameter.	PARAMETER CHANGED	

To modify the value of the parameter, if the value set is not DEFAULT:

INITIAL CONDITION		
Module FT3072/A supplied with terminal PR connected to terminal - .	MAIN SETTINGS ↓	The module is in the programming stage: ▲ or ▼ to scroll the menus to select the menu to pass to the lower level menu.
Select the MAIN SETTINGS/ LANGUAGE menu.	LANGUAGE VALUE: 01 ↓ ↑	
Modify the value using the ▲ or ▼ keys.	LANGUAGE VALUE: 03 ↓ ↑	
Press the key to confirm the value of the parameter.	PARAMÈTRE MODIFIÉ Or: WRONG ENTRY	If the entry has been made correctly. If the parameter does not come within the foreseen limits.
After the modification has been made, Remove the connections between PR and – on the FT3072/A terminal.		

4C) DISPLAYING THE NUMBER OF USERS ENTERED AND THE SOFTWARE VERSION INSTALLED

INITIAL CONDITION		
Module FT3072/A supplied with terminal PR connected to terminal - .	MAIN SETTINGS ↓	The module is in the programming stage: ▲ or ▼ to scroll the menus to select the menu to pass to the lower level menu.
OPERATION	ON DISPLAY	DESCRIPTION
Select the INFO menu by means of the key.	FT3072/A REV 2.2 NAMES :100	The software version installed in module FT3072/A is displayed on the first line. The number of users entered in the memory is displayed on the second line.
After the modification has been made, remove the connections between PR and – on the FT3072/A terminal.		

5) MANAGEMENT OF THE USER LIST

5A) ENTERING A NAME BY MEANS OF FT1230

OPERATION	ON DISPLAY	DESCRIPTION
Press the NAME → KEY of FT1230.	ENTER NEW TENANT Followed by: ENTER NAME	
Enter the user name to be inserted. (EXAMPLE: BIANCHINI)	BIANCHINI ENTER NAME	To use the lower-case characters of the keys, press SHIFT . To cancel the character on the left press <. To enter special characters, press the combination of keys described below: NAME-> + A = Á NAME -> + B = Â NAME -> + C = ß NAME -> + O = Ö NAME -> + P = Ø NAME -> + Q = Ü Press ESC to cancel the user name entry operation.
Press the ENTER key of FT1230.	BIANCHINI ENTER CODE _	
Enter the user name. (EXAMPLE: 15)	BIANCHINI ENTER CODE 15	During this phase, only the numerical characters are enabled and it is not therefore necessary to enter the SHIFT key; enter the < key to cancel figures to the left.
Press the ENTER key of FT1230 to store the user name and code, the ESC key to cancel the operation.	STORING... Or: NAME ALREADY IN MEMORY Followed by: ENTER NAME	The newly inserted name is already associated with a different code from the one to be memorised; the name is not inserted. It is possible to proceed to enter other users.
	SELECT NAME BY	

5B) CANCELLING A NAME BY MEANS OF FT1230

OPERATION	ON DISPLAY	DESCRIPTION
Select the user name you want to eliminate by scrolling the list with the keys. (EXAMPLE: BIANCHINI)	BIANCHINI PRESS TO CALL	
Press the NAME key of FT1230.	DELETE TENANT?	Confirmation of cancellation is requested.
Press the ENTER key of FT1230 to confirm elimination or ESC to cancel.	DELETE Followed by: ROSSI PRESS TO CALL	The name has been eliminated. The next tenant in alphabetical order is displayed.
	SELECT NAME BY	

5C) MULTIDOWNLOAD

It is possible to create an RS485 system with digital call modules FT3072/A to upload or download an user name list on any of the modules on this system, using a pc upgraded with software FT1249/A version 2.2 or later.

Each module must have different ID CODE (see paragraph 4A-4).

5D) INSERTING A LIST (DOWNLOAD)

By means of the software FT1249/A it is possible to enter the list with the **User name** and **Code** fields, in increasing alphabetical order, in the module FT3072/A.

It is necessary to carry out the following operations:

INITIAL CONDITION		
Module supplied in stand-by condition.	SELECT NAME BY	
OPERATION	ON DISPLAY	DESCRIPTION
Connect the small cable provided with the software FT1249/A to terminals TX / RX / - (or D / D- if there is an RS485 line).	SELECT NAME BY	
Run the software FT1249/A. Consult the in-line Guide for the settings required.		It is necessary to set the CALL MODE as Standard on the software FT1249/A.
Compile the list with the User name and Code fields in the software FT1249/A, or load an existing one.	SELECT NAME BY	
Press the Download pushbutton in software FT1249/A.		
	DOWNLOAD ENDED Or: DOWNLOAD FAILED	If the download has terminated successfully. If some anomaly has occurred during the download.

5E) READING THE STORED LIST (UPLOAD)

By means of the software FT1249/A it is possible to read the list with the User name and Code fields from module FT3072/A. It is necessary to carry out the following operations:

INITIAL CONDITION		
Module supplied in stand-by condition.	SELECT NAME BY	
OPERATION	ON DISPLAY	DESCRIPTION
Connect the small cable provided with the software FT1249/A to terminals TX / RX / - (or D / D- if there is an RS485 line).	SELECT NAME BY	
Run the software FT1249/A. Consult the in-line Guide for the settings required.	SELECT NAME BY	
Press the Upload pushbutton in the software FT1249/A.	UPLOAD ENDED Or: UPLOAD FAILED	If the upload has terminated successfully. If some anomaly has occurred during the upload of the list.

6) PARAMETER TABLE

The explanatory table of the configuration parameters of module FT3072/A is given below:

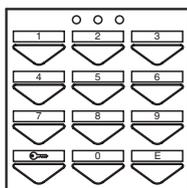
PARAMETER	POSSIBLE VALUE	DEFAULT VALUE
LANGUAGE	1=ITALIAN 2=ENGLISH 3=FRENCH 4=GERMAN 5=PORTUGUESE 6=DANISH 7=FINNISH 8=DUTCH 9=SPANISH 10=DEFAULT (you will be requested to enter the language the next time module FT3072/A is turned on).	10 = DEFAULT
DOWNLOAD TYPE	0 = Connection by means of RS232 line 1 = Connection by means of RS485 line	0 = Connection by means of RS232 line
ADDRESS RS485	Value from 01 to 255	0
AUDIO TIMING	Value from 10 to 180. It expresses the time in seconds of the entry phone conversation.	180
DOOR LOCK TIME	Value from 01 to 99. It expresses the time in seconds of the door-opening relay.	01
RESET TIME	Value from 0 to 10. It expresses the time in seconds of the reset wait at the end of a telephone conversation.	10

Standard combined access FT3328 and vandal combined access FT3188 electronic digital key

General information

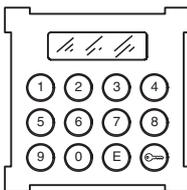
The range of electronic standard combined access keypads consists of 2 models:

FT3328



- FT3328 for insertion in the standard modular push-button panels for the creation of mixed systems with access control -audio and video door entry systems or to be used stand-alone.

FT3188



- FT3188 for insertion in the vandal resistant modular push-button panels for the creation of mixed systems with access control -audio and video door entry systems or to be used stand-alone.

Technically speaking FT3328 and FT3188 come complete with 2 relays which can be controlled with different codes.

Warnings

- Carefully read and follow the instructions given by the manufacturer.
- All the equipment making up the installation must only be used for the purpose it was built for.
- Install the equipment in compliance with the legislation in force.
- In case of a fault and/or incorrect operation of the equipment, disconnect it from the power supply and do not tamper with it. For any repair work, only contact a technical service center authorized by the manufacturer.
- Connect to the ground electronic key FT3328 and electronic key FT3188 like showed on page 27.

FORTESSA reserves the right to change the characteristics and dimensions of the equipment without prior warning.

Technical characteristics

- Total no. Of codes available: 302
 - one supercode;
 - 300 relay codes. The total number of codes available can be distributed as desired between relay 1 and relay 2. E.g.: 245 different codes for relay 1 and 55 different codes for relay 2;
 - anti-panic code.
- Outputs available: 2 on independent relays according to the models, plus 2 open collectors (1 for FT3328).
- Operation of output relays: either bistable or monostable; programmed from the keypad.
- Monostable mode: programmable impulse between 1 and 99 secs. approx.
- Length of supercode: from 1 to 8 repeatable digits.
- Length of relay codes: from 1 to 8 repeatable digits.
- Length of anti-panic code: 1 digit.
- Input for remote reset (for FT3188 only).
- Remote input for enabling of "key" push button (for FT3328 only).
- Programming input.
- Operation mode input with one button only (time programmer).
- 3 signalling LEDs depending on the model 2 for indication of closure of the relays and 1 to indicate the state of programming.
- NO - NC outputs free of potential.
- Contact capacity: 10 A non-inductive.
- Service outputs: max 500 mA.
- Power supply: 12V AC/DC.
- Absorption: 250mA 12V AC with 3 working relays.
- Operation temperature: from -10°C to +50°C.

Programming and functioning modes

There is a time limit for programming after which the operation is cancelled (approx. 40 secs. between pressing one button and the next); for this reason the procedure should only be started when the operator has a clear idea of all the operations to be carried out.

1) Insertion of supercode

Programming of the supercode is the first operation to be performed since it subsequently affects all the other stages. It is a good idea to choose a short, easy-to-remember code.

Write the number on a piece of paper and keep it in a safe place.

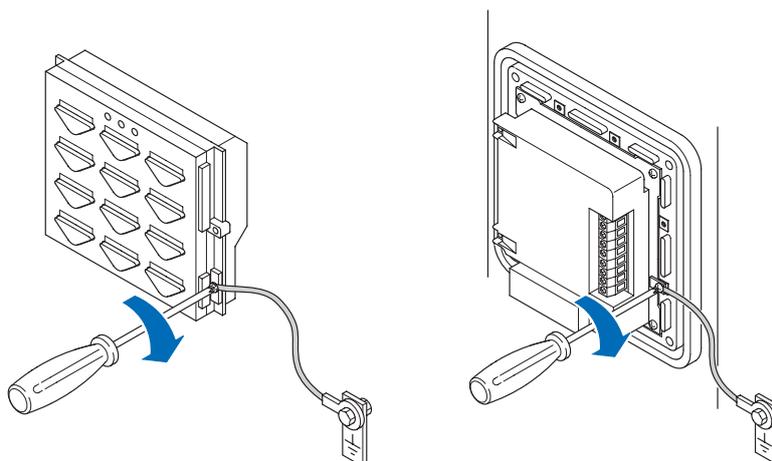
Procedure for entering supercode

- 1) Connect power to the keypad.
- 2) Make the bridge between PGM and the negative (- or **CK2**).
- 3) Check that the red LED is on.
- 4) Key in the supercode (1 to 8 repeatable digits).
- 5) Press button "E" on the key-pad to memorise the code entered.
- 6) Wait 10 seconds or a confirmation tone.
- 7) Remove the bridge.

E.g. to insert supercode 12345, proceed as follows:

- give power supply;
- make the bridge;
- key in the following: 12345 E;
- wait 10 sec. or a confirmation tone; remove the bridge.

Connection to the ground of electronic standard key FT3328 and electronic vandal resistant key FT3188



- In case of an error during programming, press button  "key" to cancel the operation being carried out.
- Always remember to press "E" at the end of each operation, both during the programming stage and during normal operation.
- The insertion of the super code cancels all the previous programming.

2) Initial programming of relay codes

In order to proceed with programming of relay codes it is necessary to know the supercode. During programming, the red LED on the keypad will be on. In case of an error the led will turn off after a brief flashing, so programming must be started again from the beginning.

Procedure for initial programming of relay codes

- 1) Key in "0" e "E" (start of programming control).
- 2) Make sure the red LED is on.
- 3) Key in the **supercode** (entered in point 1), followed by "E".
- 4) Key in the identification **number** of the relay (**1** or **2**) followed by "E".
- 5) Key in the operation **mode** (see point 5), then "E".
- 6) Key in the **new code** to be entered, followed by "E".
- 7) Check that the LED has turned off.

E.g.:

to insert code 55127 for relay 1, in bistable mode (on/off), key in the following:

0 E start of programming
12345 E supercode
1 E identification of relay 1
0 E bistable operation mode
55127 E new code

3) Use of relay codes

After carrying out the above operation, relay 1 can be activated simply by keying in: 55127 E.

In this example, the operation mode was programmed as 0, i.e. relay operation is bistable (on/off). To activate monostable mode operation, see point 5.

- Up to 300 codes can be inserted on either relay 1 or 2 as desired. If an attempt is made to insert a code which has already been stored in the memory, an error is indicated.

4) Deletion of relay codes

The following procedure must be followed to delete a previously set code from the memory:

- 1) Key "0" "E" (start of programming control).
- 2) Make sure the LED is on.
- 3) Key in the **supercode** (see point 1), followed by "E".
- 4) Key in "0" (code deletion), followed by "E".
- 5) Key in the **code** you wish to delete, then "E".
- 6) Check that the LED is turned off.

E.g.:

to delete code 55127, key in the following:

0 E start of programming
12345 E supercode
0 E deletion procedure
55127 E code to be deleted

5) Bistable/monostable operation

From previous programmings it will be noted that it is possible to obtain bistable (on/off) or monostable (timed) closure, of the relays by programming the desired time value in seconds.

Bistable mode:

if the value "0" is programmed, the relay will be activated with the first correct execution of the code, and will be deactivated with the next correct execution.

Monostable mode:

if a value from **1** to **99** is programmed, the relay will be activated with the correct execution of the code, and will be deactivated after the programmed time (1" - 90").

Modification of the relay timing:

Delete the relay code as indicated in point 4 before modifying the relay timing.

E.g.:

if the relay "1" is activated by the code 55127 and is bistable, to transform it into monostable mode follow this procedure.

- 1) Delete the code by keying in:
0 E start programming
12345 E supercode
0 E cancellation procedure
55127 E code to be deleted.

2) Re insert the code with the required functioning way:

0 E start of programming
12345 E supercode
1 E identification
5 E monostable mode, timed 5"
55127 E new code

After this operation the code 55127 will activate the relay 1 in monostable mode for 5".

6) Panic function

When the operator needs to send an alarm signal without being seen to do so, he can activate the panic function.

The panic code, which consists of a single digit, must be keyed in after one of the relay codes and this gives activation of both the selected relay and the timed panic output (approx. 5").

(AC for FT3188 or AL for FT3328)

Procedure for programming the panic function:

- 1) Key in "0" "E" (start of programming control).
- 2) Make sure the LED is on.
- 3) Key in the programming **supercode** (see point 1), followed by "E".
- 4) Key in "4" (selection of panic function), followed by "E".
- 5) Key in the **panic code** (1 digit), followed by "E".
- 6) Check that the LED is turned off.

E.g.:

to programme panic code of 3, key in the following:

0 E start of programming
12345 E supercode
4 E panic function
3 E panic code

This means that when the relay code followed by the panic code is keyed in, both the output relay and panic relay are activated (timing=approx. 5"): 71032 3 E.

- **The panic code must be keyed in after the relay code and before the final E.**
- **If the panic code is activated, the relay code must not have more than 7 figures.**
- **The relay codes must not end with the digit chosen for the activation of the panic function.**
- **The panic output has an open collector (500 mA max).**

7) Programming of accepted number of errors

This enables the number of code-forming errors which can be keyed in before the block function intervenes to be programmed.

For example, if a value of 3 is fixed, at the third incorrect attempt to form a code the key will temporarily lock for approximately one minute. It is also possible to transmit an alarm signal (AL output) after accepted incorrect attempts, if this has been provided when programming.

If you need to transmit the alarm signal, "1" will be keyed in during programming otherwise "0" will be set in programm (see procedure below).

An attempt to insert an incorrect code is considered keying in a number not previously coded followed by "E".

Procedure for programming the number of accept errors

- 1) Key in "0" "E" (start of programming control).
- 2) Make sure the LED is on.
- 3) Key in the **supercode** (see point 1), followed by "E".
- 4) Key in "5" (selection of "block error" function), followed by "E".
- 5) Key in the number of accepted errors (1-9), without "E".
- 6) Key in: "1" "E" if you wish an alarm signal to be transmitted when locking occurs. "0" "E" if no alarm signal is to be transmitted.
- 7) Check that the LED is turned off.

E.g.:

to programme locking after 3 errors without an alarm signal, key in the following:

0 E start of programming
12345 E supercode
5 E "error" function
3 number of incorrect attempts accepted
0 E no alarm signal

Enabling of "key" push-button

By short-circuiting terminals CK1 and CK2, e.g. by means of a timer, it is possible to activate relay 1 without forming the relay code, simply by pressing the "key" push-button on the keypad .

Reset input (FT3188 only)

Connecting this input to the negative (-), operation of the keypad will block completely and all outputs will be deactivated (relays and alarms).

Remote input for enabling of push-button (for FT3328 only)

By connecting the contact **RK** to ground, Relay 1 is activated for 5 sec. The maximum distance for this contact is 20 metres .

Terminal boards description:

-- ~+ power supply 12V DC/AC
CK1 contact enabling the "key" push-button
CK2 contact enabling the "key" push-button (for FT3188 only)
CK2 contact enabling the "key" push-button/negative (for FT3328 only)
+OUT positive not adjusted
AC- panic output , 500 mA max (FT3188 only)
AL- alarm output (and panic for FT3328) (500 mA max)
L2 L1 free (FT3188 only)
NO/2 relay 2
C/2 relay 2
NC/2 relay 2
NO/1 relay 1
C/1 relay 1
NC/1 relay 1
PGM programming input
RST remote reset input (FT3188 only)
GND - negative (FT3188 only)
RK remote input for enabling of key p. button (FT3328 only)

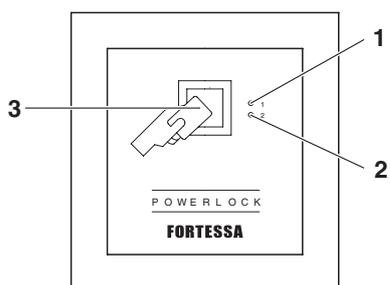
Access control device standard lock FT3335 and vandal resistant lock FT3195

General information:

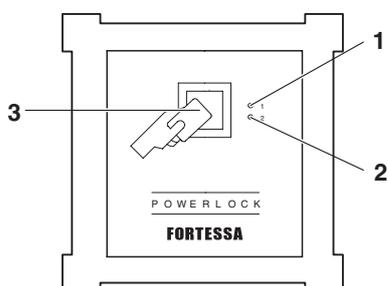
The standard lock access control device FT3335 and vandal resistant lock FT3195 are extremely easy to install. It is possible to memorize 1 Master Card and up to 660 User Cards (expandable to a maximum of 2708 User Cards).

The module can be programmed by the user in two ways: using the programmer FT1028, or using the Mastercard (only some functions).

FT3335



FT3195



- 1. Power supply LED (blue)
- 2. Programming LED (red)
- 3. Entrance key sensor

Terminal box description FT3335:

~ ~ power supply terminals

C NC NO electric lock connection terminals

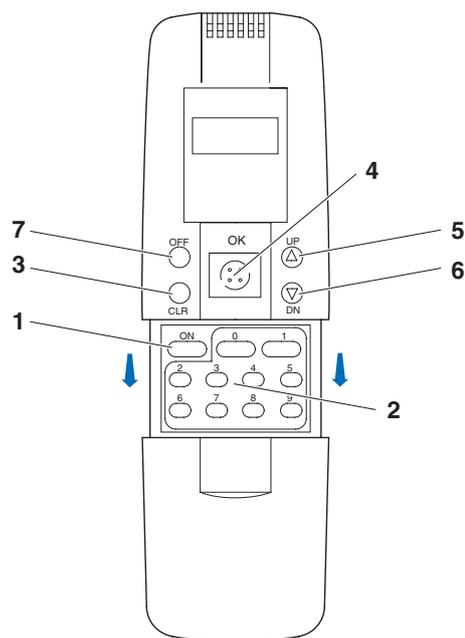
CLR memory reset terminal

GND ground connection terminal

CHAN master card programming terminal

SP local door opener terminal

FT1028



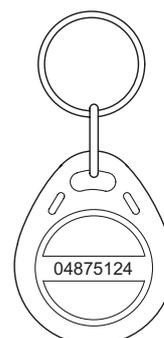
- 1. On button
- 2. Numerical keyboard
- 3. CLR button
- 4. OK button
- 5. UP button
- 6. DN button
- 7. Off button

FT1026



Badge programmable as access key

FT1027



Keychain programmable as access key

REGISTRATION OR CHANGING A MASTER CARD

When the module is turned on for the first time, it is necessary to register a Master Card:

OPERATION	DESCRIPTION
Connect terminal CHAN to terminal GND for 2 seconds	the buzzer will "bip" every second and the programming LED will flash at the same timing
Place the desired master card in front of the module *	the buzzer will "bip" continuously for 2 seconds and the module returns to standby mode

* If no card is placed in front of the module within 60 seconds, it automatically returns to standby mode

SETTING THE ADMINISTRATOR PASSWORD

To be able to use the programmer FT1028 it is necessary to set an administrator password:

OPERATION	DESCRIPTION
Place the Master Card in front of the module	The buzzer will "bip" every 3 seconds and the programming led will flash at the same timing (programming mode)
Press the ON button on the programmer FT1028	On the programmer the writing TCSTAR 7320 is displayed
Press the OK button	Access to the programming menu is granted
Scroll the menu using the UP or DN buttons till option: ChgPword. Press OK to select	
Insert a 6 digit password twice and press OK twice to confirm	The buzzer will "bip" continuously for 2 seconds
Exit the programming menu	

ENTER AND EXIT THE PROGRAMMING MENU

To enter and exit the programming menu it is possible to use either the Master Card or the Programmer FT1028.

Using the Master Card:

OPERATION	DESCRIPTION
Place the Master Card in front of the module To exit:	The buzzer will "bip" every 3 seconds and the programming led will flash at the same timing (programming mode)
Place the Master Card in front of the module again	The buzzer will "bip" continuously for 2 seconds and will return automatically in standby mode

Using the Programmer FT1028:

OPERATION	DESCRIPTION
Press the ON button on the programmer FT1028	On the programmer the writing TCSTAR 7320 is displayed
Press the OK button	Access to the programming menu is granted
Scroll the menu using the UP or DN buttons till option: Password. Press OK to select	
Insert the administrator password and press OK to confirm	The buzzer will "bip" every 3 seconds and the programming led will flash at the same timing (programming mode)
To exit the programming menu scroll the menu using the UP or DN buttons till option: EndSetup. Press OK to select	The buzzer will "bip" continuously for 2 seconds and will return automatically in standby mode

PROGRAMMING AN ACCESS KEY USING THE MASTER CARD

OPERATION	DESCRIPTION
Enter the programming mode	The buzzer will "bip" every 3 seconds and the programming led will flash at the same timing (programming mode)
Place the desired badge or keychain in front of the module	The buzzer will "bip" continuously for 2 seconds
Place the next badge or keychain to be programmed in front of the module Or: Exit the programming mode	The buzzer will "bip" continuously for 2 seconds The buzzer will "bip" continuously for 2 seconds and will return automatically in standby mode

PROGRAMMING AN ACCESS KEY USING THE PROGRAMMER FT1028

OPERATION	DESCRIPTION
Enter the programming mode	The buzzer will "bip" every 3 seconds and the programming led will flash at the same timing (programming mode)
Scroll the menu using the UP or DN buttons till option: Add Card. Press OK to select	The programmer requires to insert the number of the card or keychain to be registered
Insert the fist 10 digits written on the lower right corner of the badge or "00" followed by the 8 digits at the center of the keychain and press OK twice ignore the digits after the comma on the badge	The buzzer will "bip" continuously for 2 seconds if the card or keychain has been accepted Or: The buzzer will "bip" twice if the access key is already stored in memory
Exit the programming mode	The buzzer will "bip" continuously for 2 seconds and will return automatically in standby mode

DELETING ALL ACCESS KEYS USING THE TERMINAL BOX

OPERATION	DESCRIPTION
Connect terminal GND to terminal CLR for 2 seconds	The buzzer will "bip" for a variable time, according to how many access keys are stored in memory (Max 8 min), and will return automatically in standby mode.

DELETING AN ACCESS KEY

OPERATION	DESCRIPTION
Enter the programming mode	The buzzer will "bip" every 3 seconds and the programming led will flash at the same timing (programming mode)
Scroll the menu using the UP or DN buttons till option: Del Card. Press OK to select	The programmer requests the number of the access key that is to be deleted
Insert the fist 10 digits written on the lower right corner of the badge or "00" followed by the 8 digits at the center of the keychain and press OK twice ignore the digits after the comma on the badge	The buzzer will "bip" for 2 seconds if the access key is deleted Or: the buzzer will "bip" twice if the access key is not stored in memory
Exit the programming mode	The buzzer will "bip" continuously for 2 seconds and will return automatically in standby mode

DELETING ALL ACCESS KEYS USING THE PROGRAMMER FT1028

OPERATION	DESCRIPTION
Enter the programming mode	The buzzer will "bip" every 3 seconds and the programming led will flash at the same timing (programming mode)
Scroll the menu using the UP or DN buttons till option: Del All Press OK to select	The programmer requests the Master Card number
Insert the first 10 digits written on the lower right corner of the Master Card and press OK twice ignore the digits after the comma on the badge	The buzzer will "bip" for a variable time, according to how many access keys are stored in memory (Max 8 min).
Exit the programming mode	The buzzer will "bip" continuously for 2 seconds and will return automatically in standby mode

CHANGING THE MASTER CARD USING PROGRAMMER FT1028

OPERATION	DESCRIPTION
Enter the programming mode	The buzzer will "bip" every 3 seconds and the programming led will flash at the same timing (programming mode)
Scroll the menu using the UP or DN buttons till option: ChgMcard. Press OK to select	The programmer requests the password for changing the Master Card
Insert the password 6789 and press OK twice	the buzzer will "bip" every second and the programming LED will flash at the same timing
Place the desired master card in front of the module *	the buzzer will "bip" continuously for 2 seconds and the module returns to standby mode

* If no card is placed in front of the module within 60 seconds, it automatically returns to standby mode

CHANGING THE ADMINISTRATOR PASSWORD

OPERATION	DESCRIPTION
Enter the programming mode	The buzzer will "bip" every 3 seconds and the programming led will flash at the same timing (programming mode)
Scroll the menu using the UP or DN buttons till option: ChgPword. Press OK to select	
Insert a 6 digit password twice and press OK twice to confirm	The buzzer will "bip" continuously for 2 seconds
Exit the programming mode	The buzzer will "bip" continuously for 2 seconds and will return automatically in standby mode

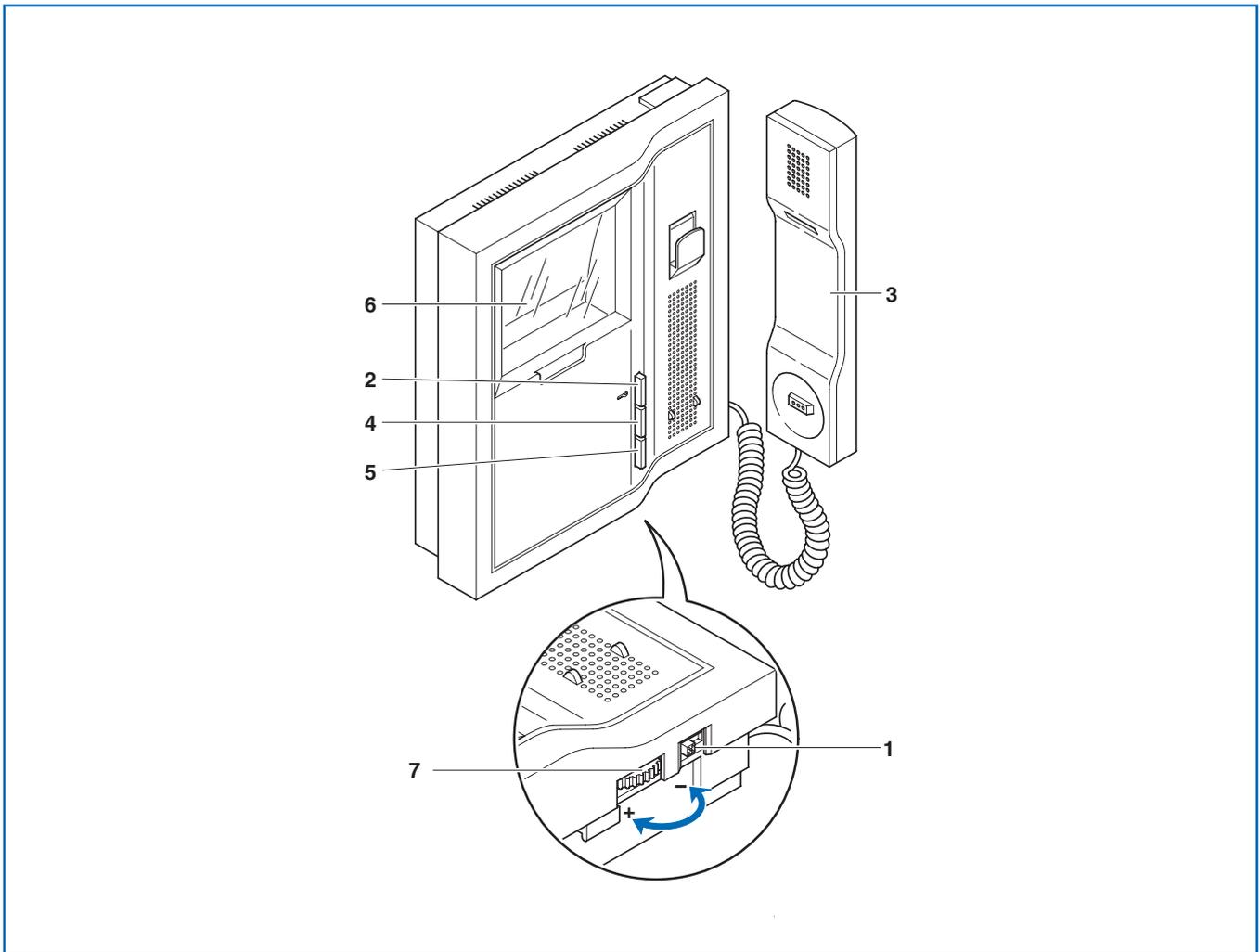
CHANGING THE RELAY LOCK TIME

It is possible to vary the relay lock timing (Min 01 seconds, Max 50 seconds)

OPERATION	DESCRIPTION
Enter the programming mode	The buzzer will "bip" every 3 seconds and the programming led will flash at the same timing (programming mode)
Scroll the menu using the UP or DN buttons till option: Chg Time. Press OK to select	The programmer requests the relay lock timing
Insert the 3 desired digits and press OK twice	
Exit the programming mode	The buzzer will "bip" continuously for 2 seconds and will return automatically in standby mode

INTERNAL UNITS

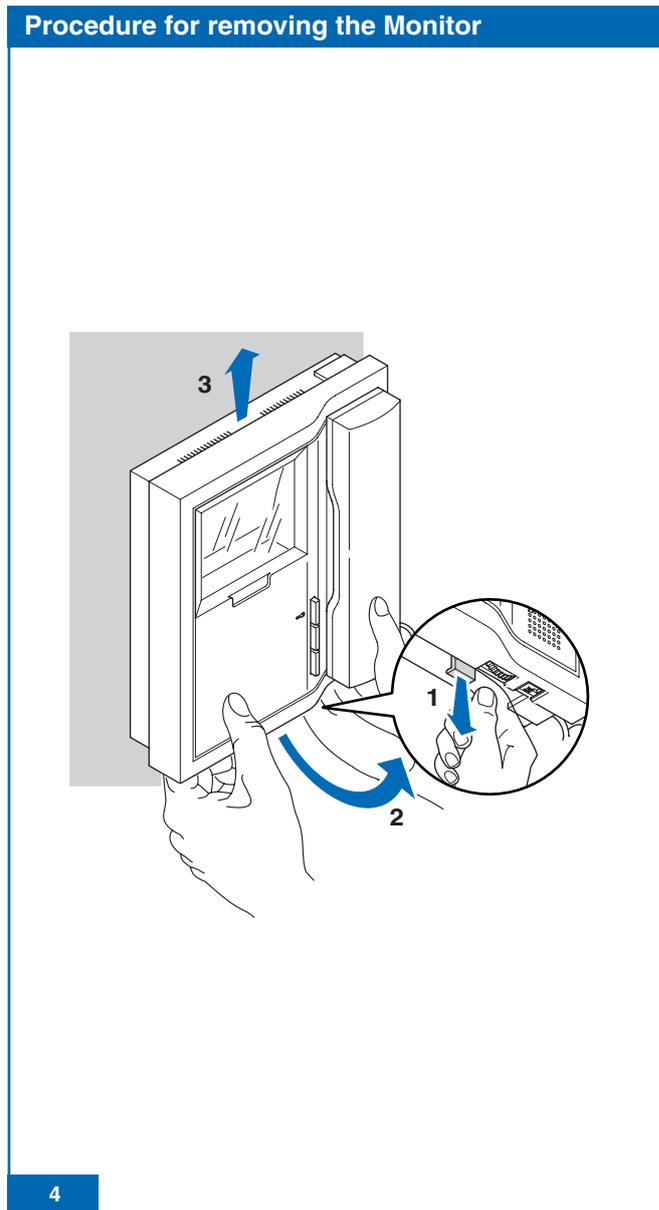
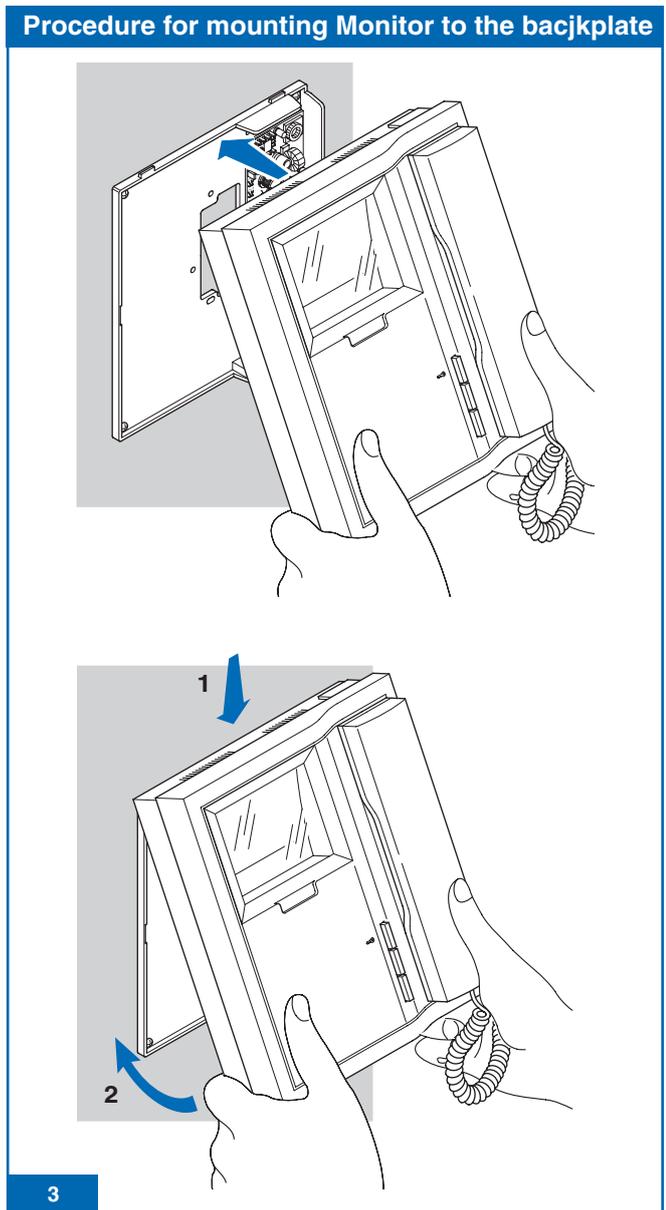
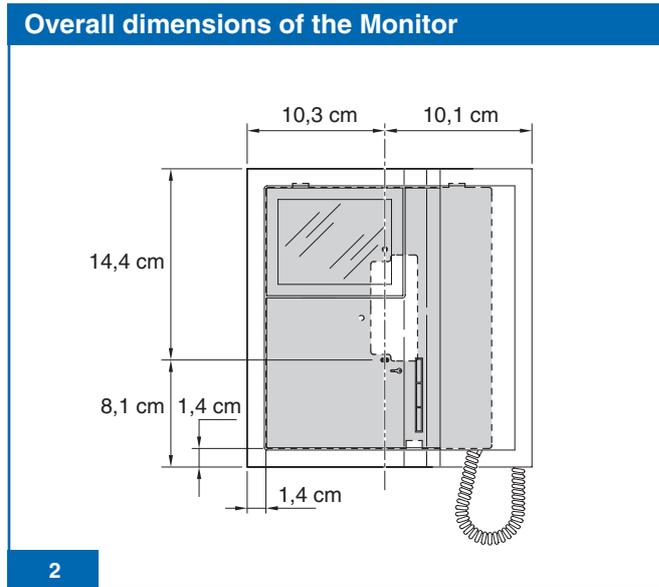
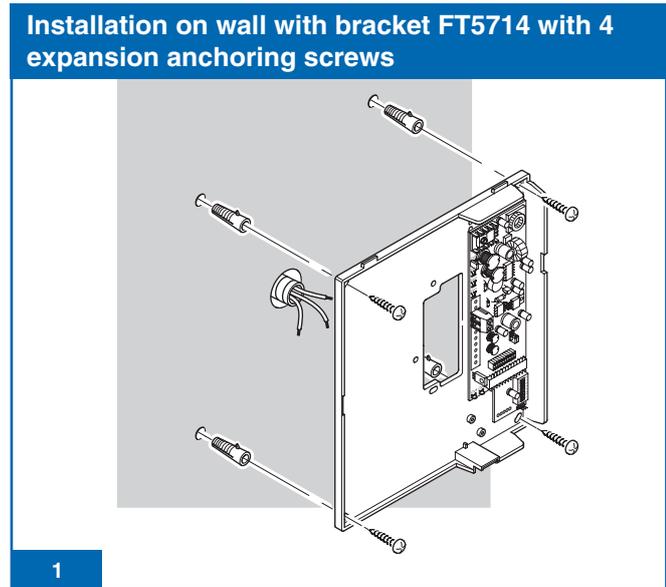
Description of the monitor Genius and user information

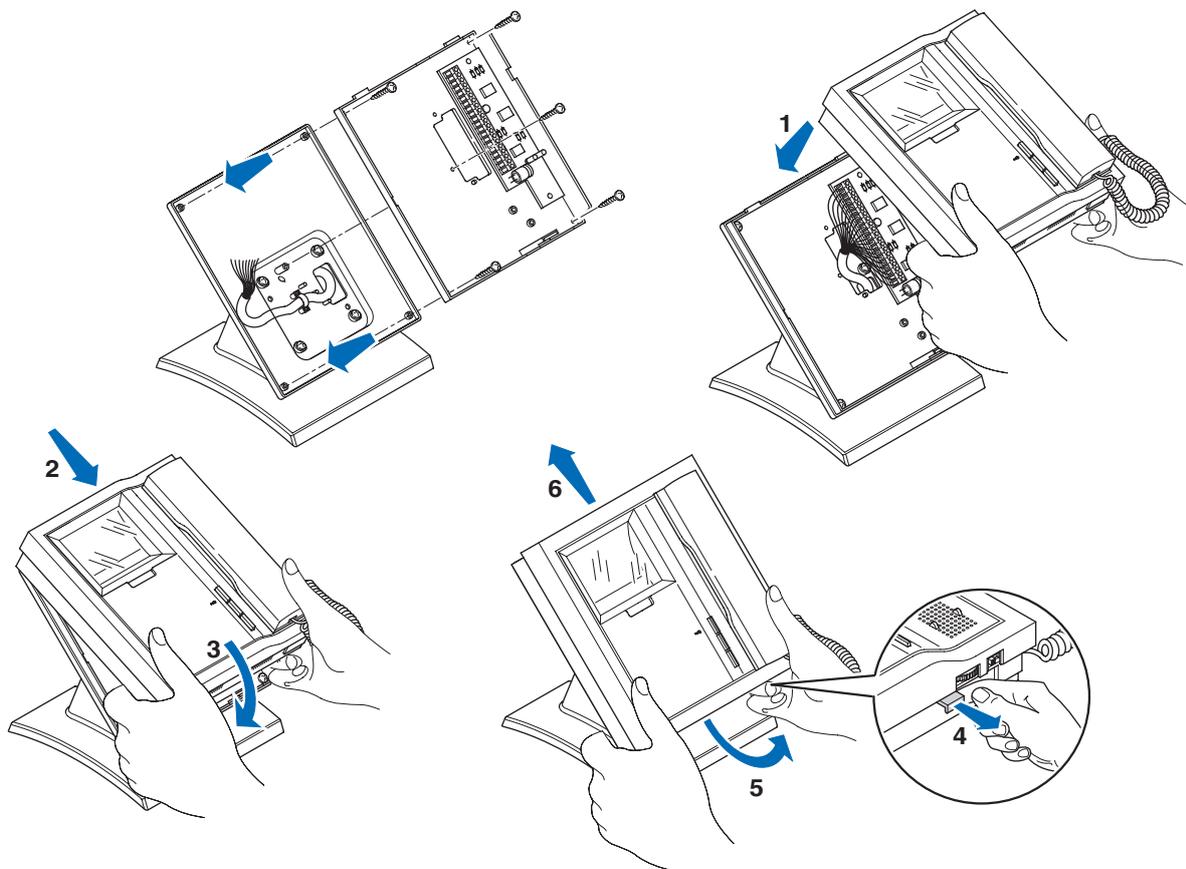


The Monitor Genius FT5801 (Black and white Monitor) can be used on bracket FT5714 and with desk conversation support FT5712. For the installation and the cabling refer to the products just mentioned.

1. 3-position selector for Bell:
Left-hand position: Bell at maximum volume.
Central position: Bell at medium volume.
Right-hand position: Bell at minimum volume
2. Door-opening pushbutton .
3. Monitor handset (lift the handset to start communication).
4. Pushbutton 1: call to porter switchboard.
5. Pushbutton 2: self-ignition or video request.
6. 4" Black and white screen.
7. Brightness adjustment knob (turn counter-clockwise to increase brightness).

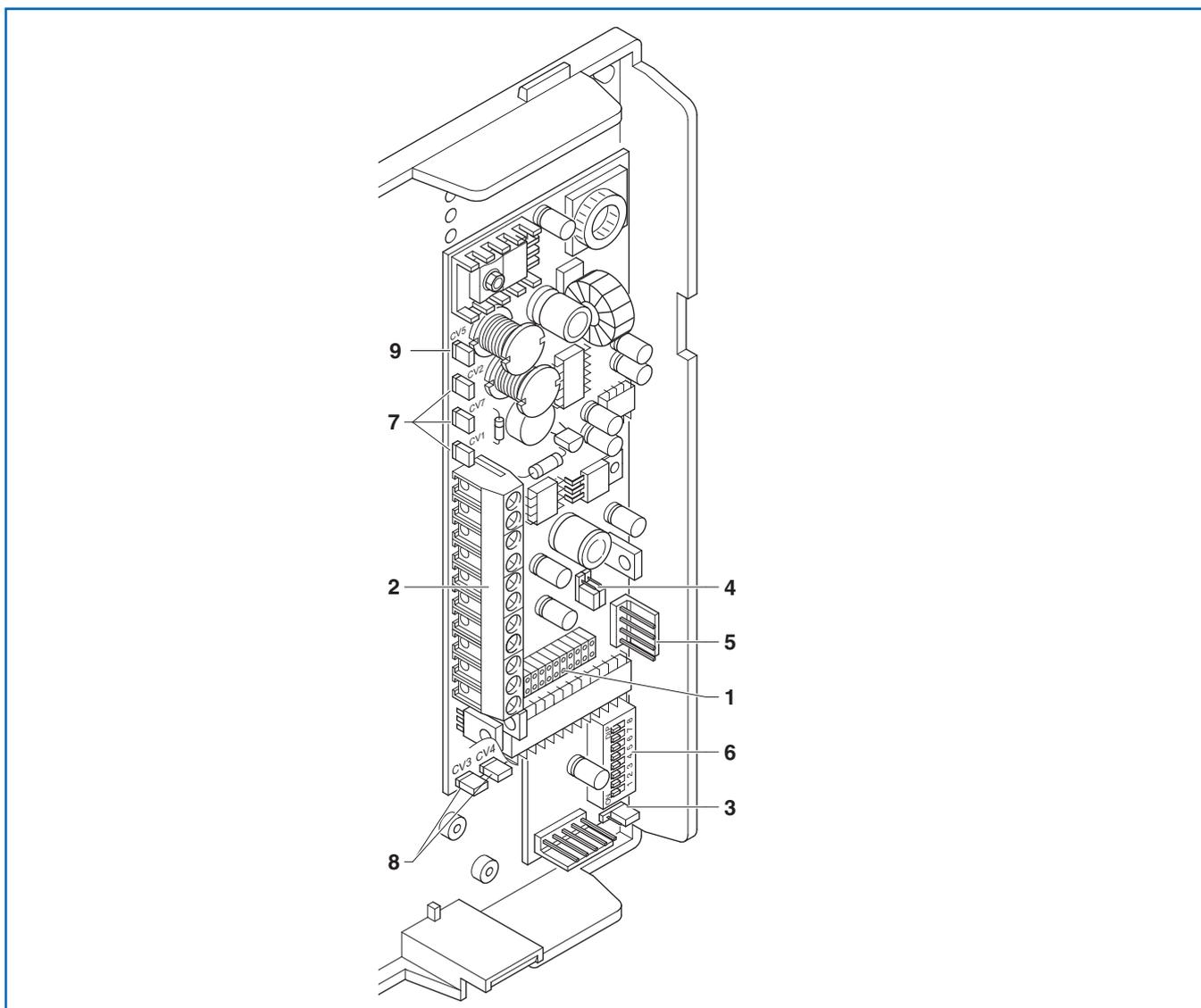
Instructions for installation of the internal unit Genius



Installation of monitor on desk support FT5712

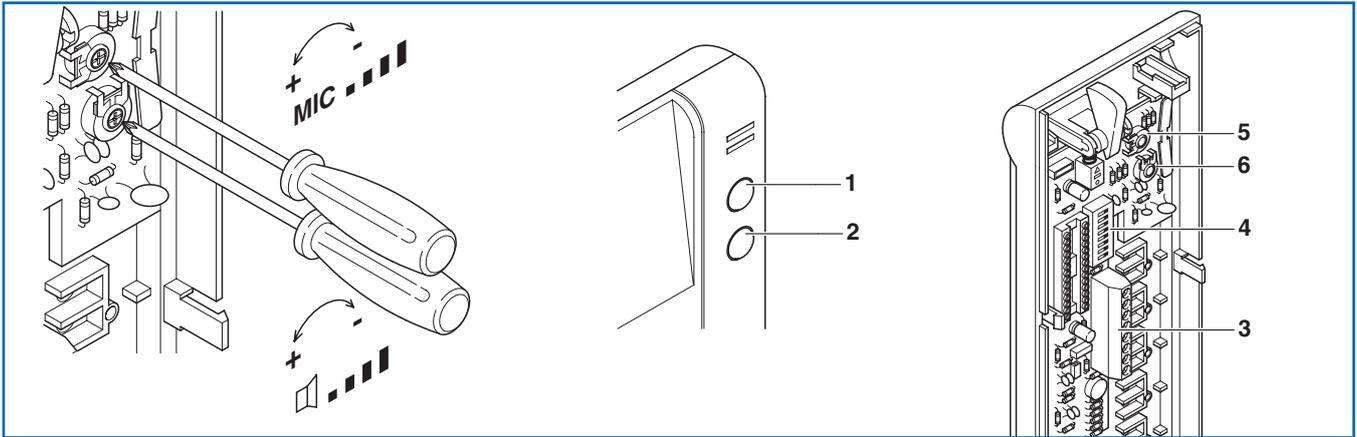
5

Technical characteristics of bracket FT5714 for Genius monitor



1. Bracket-Monitor connector.
2. Terminals for system connection:
+20 0 Connection terminals FT1212/B or FT1205/B.
L L Bus line connection.
CFP CFP local floor call input.
P1 C1 Connection terminal regarding Pushbutton 1 for various uses.
To have a clean C.NO. contact (24V 100mA max), cut CV3 and CV4.
3. **JP1** Jumper to set bracket as Main or Secondary.
4. **JP2** Jumper selection of type of operation (audiosettings or videosettings).
5. **CN2** Programming connector for FT1251/A.
6. **S1** Dip Switches for programming user code.
7. **CV1 CV2 CV 7** additional Monitor power supply jumpers.
8. **CV3 CV4** jumper to free Pushbutton 1 (Contact C.NO. 24V 100mA max).
9. **CV5** Jumper for closing video.

Digi2 wall telephone for mixed systems FT2428W/A



2-wire digital telephone, with electronic call with adjustable volume, conversation privacy, conversation button on the base, door opening pushbutton and pushbutton for calling the switchboard, or free (C.N.O). Complete with dip-switch with 8 positions for selection of the user code desired.

Allows management of floor door call. Telephone to be used in mixed audio/video settings* or in audio systems when the call repetition function is needed.

Fitted with branch terminal 1214/2.

Dimensions: 85x223x65 mm.

Technical characteristics:

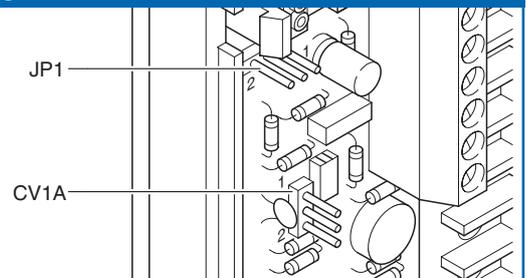
1. Door-opening push-button.
2. Switchboard call push-button/push-button for various uses present in the terminal board (P1 C1).
3. Terminal connection System:
L L connection to the line bus.
CFP CFP local floor call input.
P1 C1 push-button normally dedicated to various services.
 To have a clean C.NO. contact, cut bridges CV2 and CV3.
S+ S- terminals to connect a bell repetition device to.
4. Dip switches for setting user code.
5. Microphone volume adjustment trimmer.
6. Call tone volume adjustment trimmer.

* See "EXPLANATION OF THE MEANT ONE OF AUDIO SETTINGS AND VIDEO SETTINGS" on page 43.

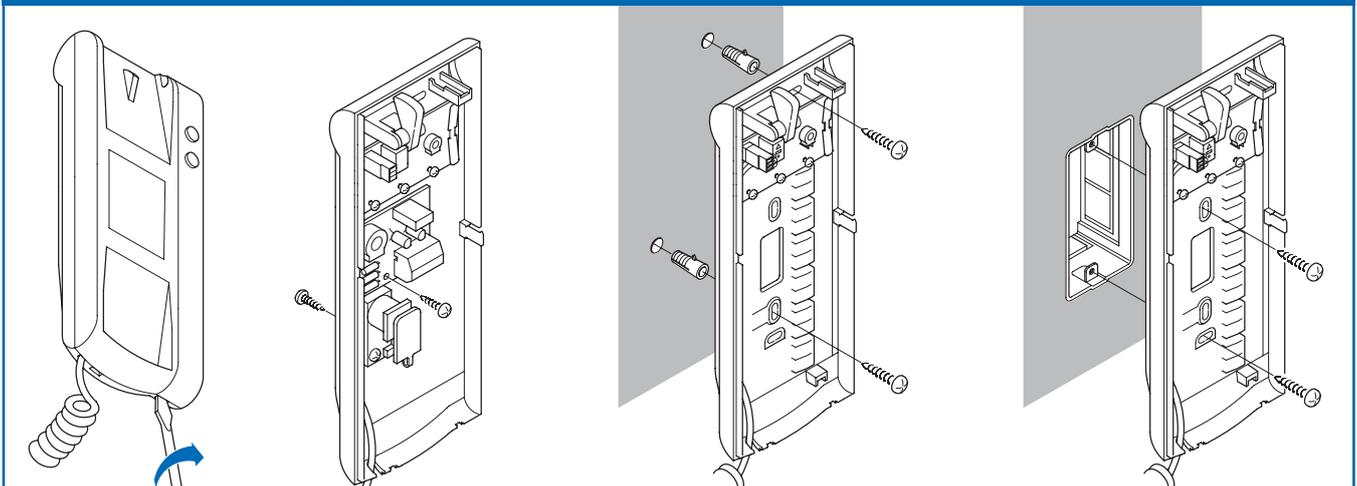
How to set the door phone FT2428W/A to work with audio settings*

①  JP1 Set jumper JP1 as shown in the picture.

②  CV1A Remove jumper CV1A.

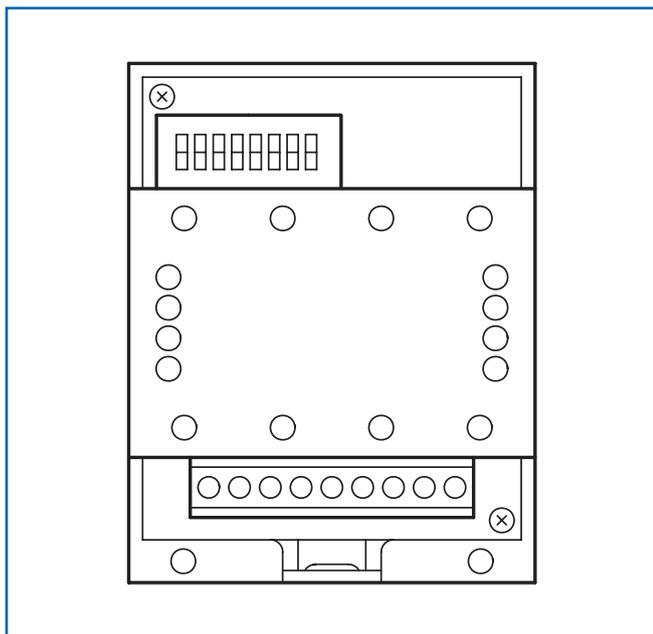


Instructions to install telephone FT2428W/A



ACCESSORIES

Relay Module FT1256



Intelligent device for controlling a 10A relay (on-board) for general uses.

It can be used either audio and video settings.*

Insert a Max. of 10 relay modules FT1256 on the outgoing bus line from an audio or audio/video external unit (audio settings).

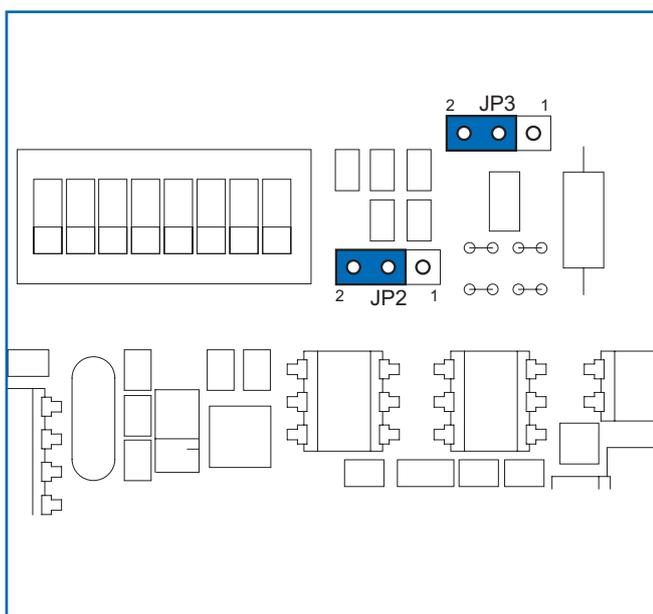
Insert a Max. of 30 relay modules FT1256 on the outgoing bus line from a mixer-power supply FT4896 (DIGI-2 system).

FT1256, is factory-set to be used on audio settings.*

To use the relay module in DIGI-2 systems after FT4896:

- 1) move jumper JP2 to position 2
- 2) move jumper JP3 to position 2
- 3) move jumper JP4 to position 2

* See "EXPLANATION OF THE MEANT ONE OF AUDIO SETTINGS AND VIDEO SETTINGS" on page 43.



FT1256 PROVIDES THE FOLLOWING SIX FUNCTIONS ACCORDING TO THE POSITION OF JUMPER JP1:

A) Call repeat function.

Function which can be used in audio and video settings.*

To activate this function, set jumper JP1 as shown in figure 1. The relay C.NO. contact is activated on a call from porter switchboard, from an external unit and from the floor door.

This only takes place if the user code the call is to be repeated from is set by means of the Dip switches. On a call from the external unit and from the floor, single closure of the relay takes place. On a call from porter switchboard, double closure of the relay takes place. The intercom calls are not repeated.

The relay module can also be used when the call is not to be repeated to a flat, but if the C.NO. contact is to be closed when the external unit calls the user code set on FT1256.

The closure time of the relay is fixed at about 2 sec. To set the user code by means of Dip switches, see "Programming bracket FT5714 and Digi2 telephone FT2428W/A" on page 39.

For correct insertion of FT1256 in audio and video settings*, see diagram 25 on page 72.

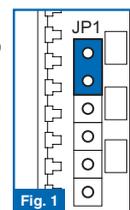


Fig. 1

B) Activation on porter switchboard call pushbutton.

Function which can be used on audio and video settings.*

To activate this function, set jumper JP1 as shown in figure 2. Only to be used for systems not provided with porter switchboard FT1998A.

The relay C.NO. contact is activated on a porter switchboard call sent from a telephone or from a video entry phone. The closure time of the relay can be programmed by means of Dip switches - see table A on page 38.

The function can only be used when the system is not engaged. For correct insertion of FT1256 on audio and video settings*, see diagrams: 15, 16, 17, 25.

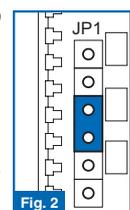


Fig. 2

C) External unit Light Function / Stair Lights Function.

Function which can be used in audio and video settings.*

To activate this function, set jumper JP1 as shown in figure 3. The relay C.NO. contact is activated on a call from the external unit or on internal self-ignition from a video entry phone.

The closure time of the relay can be programmed by means of Dip switches - see table A on page 38.

For correct insertion of FT1256 in audio and video settings*, see diagrams: 15, 16.

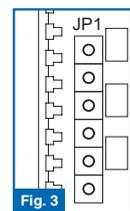


Fig. 3

D) Secondary Door-opening Function (without external unit).

Function which can be used in audio and video settings.*

To activate this function, set jumper JP1 as shown in figure 4.

The relay is activated when the door-opening pushbutton is pressed if the user code of the telephone or of the video entry phone from which the command is sent is within the range defined by means of Dip switches - see table B on page 38.

The closure time of the relay is fixed at about 2 sec.

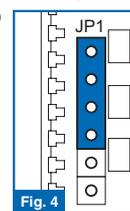


Fig. 4

E) Activation on apartment unit pushbutton. ()**

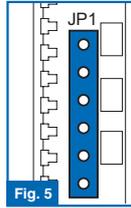
*Function which can be used in audio and video settings.**

To activate this function, set jumper JP1 as shown in figure 5.
The relay C.NO. contact is activated when relevant pushbutton is pressed on a telephone or a video entry phone.

The closure time of the relay can be programmed by means of Dip switches, see table A under.

The function can always be used except when a conversation is taking place from a telephone or video entry phone other than your own.

All FT1256 set to be used with this function are activated at the same time by pressing the pushbutton on the internal unit.



() To use this function it is necessary to programme the pushbuttons of the video entry phone with hand-held programmer FT1251/A.**

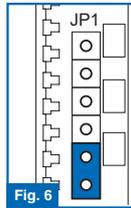
For correct insertion of FT1256 in audio and video settings*, see diagrams: 15, 16, 17, 25.

F) Activation on apartment unit coded pushbutton. ()**

*Function which can be used on audio and video settings.**

To activate this function, set jumper JP1 as shown in figure 6.

The relay C.NO. contact is activated if the pushbutton pressed on the telephone or video entry phone has been programmed with same FT1256 code.



The closure time of the relay is fixed at 2 sec.

The function can always be used. To set the FT1256 code by means of Dip switches, see "Programming bracket FT5714 and Digi2 telephone FT2428W/A" on page 39.

() To use this function it is necessary to programme the pushbuttons of the video entry phone with hand-held programmer FT1251/A.**

For correct insertion of FT1256 in audio and video settings*, see diagrams: 16, 17, 25.

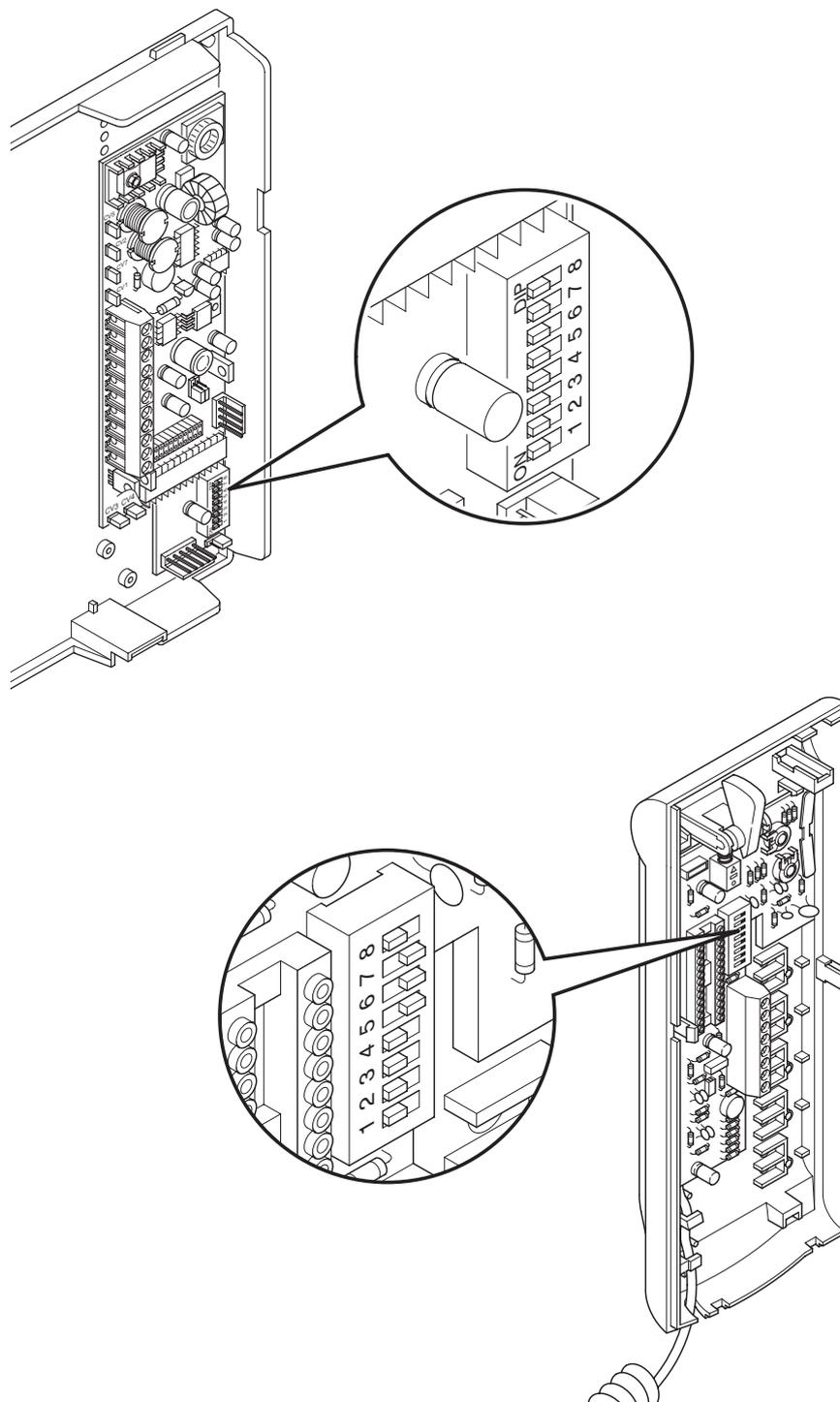
* See "EXPLANATION OF THE MEANT ONE OF AUDIO SETTINGS AND VIDEO SETTINGS" on page 43.

Table A: programming relay closure time for functions B, C and E.								
Dip switches on ON	1	2	3	4	5	6	7	8
Relay closure time	1 sec.	2 sec.	4 sec.	8 sec.	16 sec.	32 sec.	1 min. and 5 sec.	2 min. and 10 sec.

Table B: programming code Range for function D.								
Dip switches on ON	1	2	3	4	5	6	7	8
Enabled codes	1÷30	31÷60	61÷90	91÷120	121÷150	151÷180	181÷210	211÷240

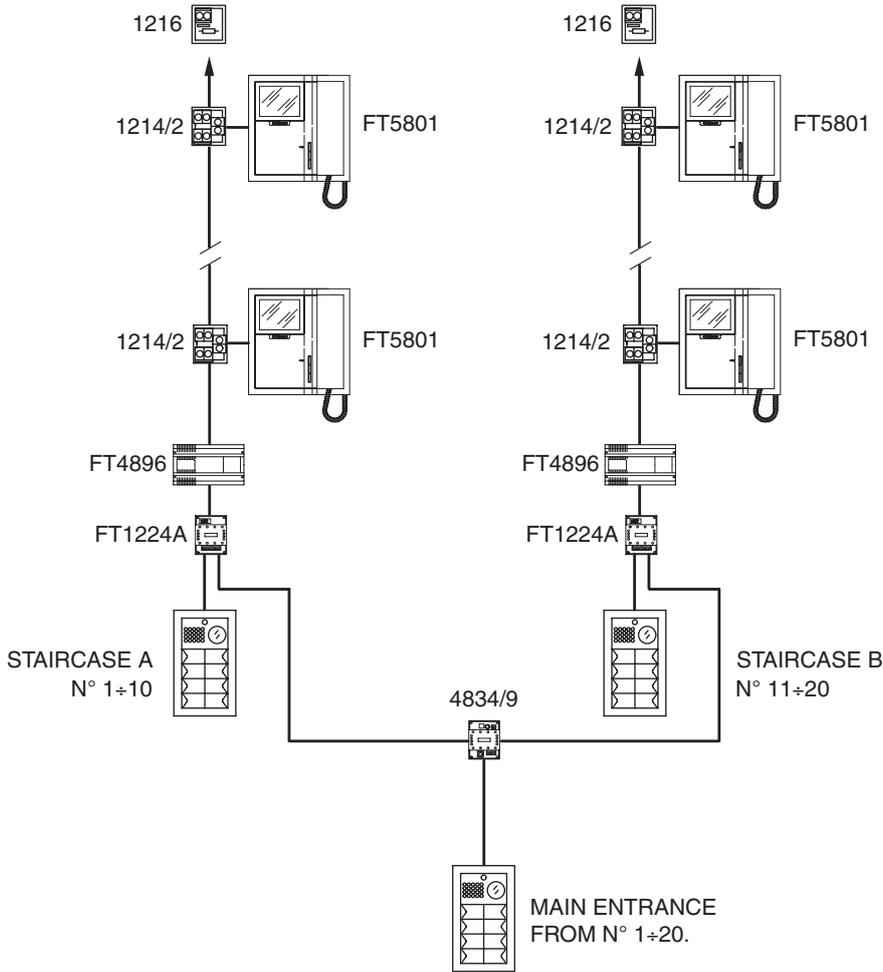
CONFIGURATION OF THE DEVICES

Programming bracket FT5714 and Digi2 telephone FT2428W/A



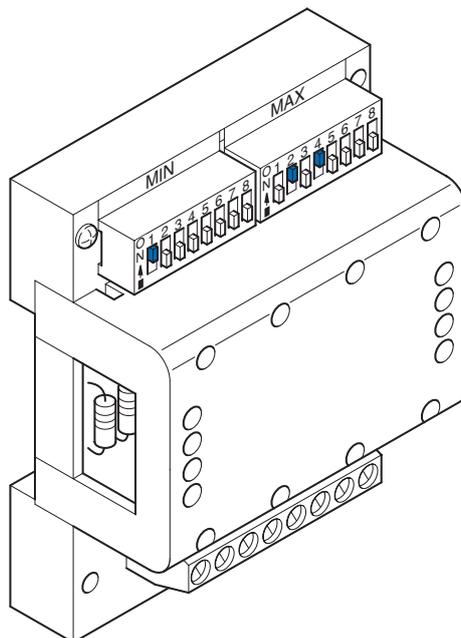
- Each telephone or bracket in the system is identified by means of its own code. This code must be set by means of the Dip switches on the telephone card or on the bracket (see figures).
- The user code must be set according to the corresponding one described in the programming table on page 42.
- Coding can take place at any time, even without a power supply.

Programming switching device FT1224A

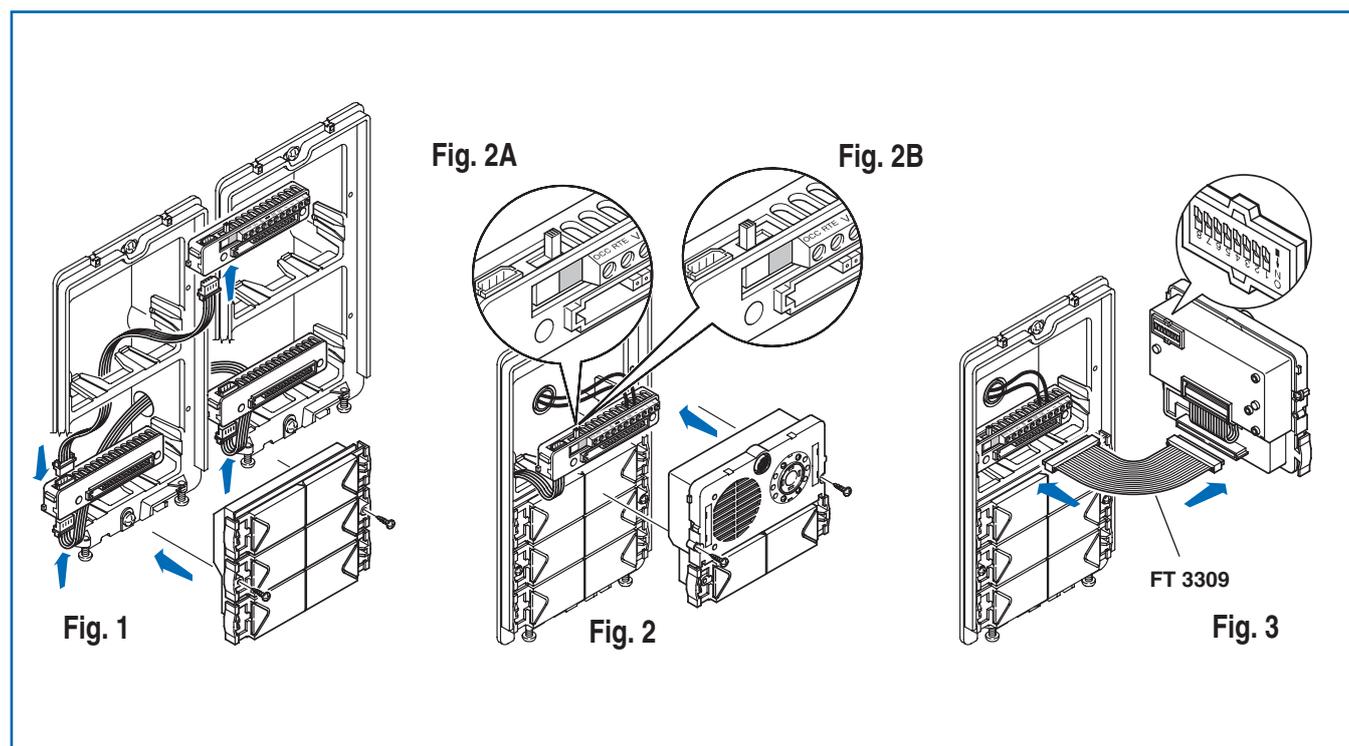


- Each switching device module is fitted with a pair of Dip switches with 8 selectors (see figure). The two Dip switches define the minimum and maximum range - MIN - MAX - of codes which can be recognised by the switching device.
- Remember that the MIN and MAX Dip switches define the lowest and highest user codes respectively which can be connected to the riser.
- For setting the values desired, refer to the table on page 42.
- Distinct switching devices must manage code ranges which are not overlapping.

- Example of coding switching device FT1224A of staircase A minimum number: 1, maximum number: 10.



Push button programming with audio-video FT4660 group and modules FT3323/3, FT3323/4 and FT3323/6



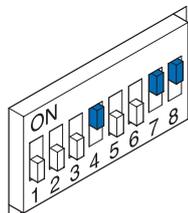
WARNING:

- Modules FT4660 normally function as main external unit (timed engaged signal).
To set them as secondary external unit (engaged signal active for the whole time the riser is in use), it is necessary to put all the Dip switches of the selector to ON.
 - When a call is transmitted from the external unit if a busy tone is heard instead of the ring tone it means that a call to another external unit is in session.
 - **In case of a persistent shortcircuit on the bus line an intermittent signaling sound will be heard on the external unit.**
1. Connect the terminal boards of modules FT3323/3, FT3323/4 and FT3323/6 together and with the terminal board of the FT4660 group using the special cables. Insert the modules FT3323/3, FT3323/4 and FT3323/6 on the relative terminal boards (figure 1).
 2. On the terminal board of module FT4660 connect the power supply to ~~, set the switch in programming position (red) (Figure 2A).
Connect the terminal board to module FT4660 assembled as shown previously.
(Warning - modules FT3323/3, FT3323/4 and FT3323/6 to be programmed must already be positioned) (figure 2).
Note: for connection between the terminal board and module FT4660, it is possible to use the cable FT3309, available as an optional accessory (figure 3) during the programming stage.
 3. Set the Dip switches located on the rear of the audio module with the same code assigned to the telephone or monitor according to the correspondence described in the programming table on page 42.
 4. Press the push-button to be associated with the telephone call. A confirmation tone signals that programming has taken place.
 5. **After completing programming, set the switch back into standby position (white) (Figure 2B).**

Table for programming the Dip switches

User code	Dip switches to ON	User name	User code	Dip switches to ON	User name	User code	Dip switches to ON	User name	User code	Dip switches to ON	User name
1	1		61	1,3,4,5,6		121	1,4,5,6,7		181	1,3,5,6,8	
2	2		62	2,3,4,5,6		122	2,4,5,6,7		182	2,3,5,6,8	
3	1,2		63	1,2,3,4,5,6		123	1,2,4,5,6,7		183	1,2,3,5,6,8	
4	3		64	7		124	3,4,5,6,7		184	4,5,6,8	
5	1,3		65	1,7		125	1,3,4,5,6,7		185	1,4,5,6,8	
6	2,3		66	2,7		126	2,3,4,5,6,7		186	2,4,5,6,8	
7	1,2,3		67	1,2,7		127	1,2,3,4,5,6,7		187	1,2,4,5,6,8	
8	4		68	3,7		128	8		188	3,4,5,6,8	
9	1,4		69	1,3,7		129	1,8		189	1,3,4,5,6,8	
10	2,4		70	2,3,7		130	2,8		190	2,3,4,5,6,8	
11	1,2,4		71	1,2,3,7		131	1,2,8		191	1,2,3,4,5,6,8	
12	3,4		72	4,7		132	3,8		192	7,8	
13	1,3,4		73	1,4,7		133	1,3,8		193	1,7,8	
14	2,3,4		74	2,4,7		134	2,3,8		194	2,7,8	
15	1,2,3,4		75	1,2,4,7		135	1,2,3,8		195	1,2,7,8	
16	5		76	3,4,7		136	4,8		196	3,7,8	
17	1,5		77	1,3,4,7		137	1,4,8		197	1,3,7,8	
18	2,5		78	2,3,4,7		138	2,4,8		198	2,3,7,8	
19	1,2,5		79	1,2,3,4,7		139	1,2,4,8		199	1,2,3,7,8	
20	3,5		80	5,7		140	3,4,8		200	4,7,8	
21	1,3,5		81	1,5,7		141	1,3,4,8		201	1,4,7,8	
22	2,3,5		82	2,5,7		142	2,3,4,8		202	2,4,7,8	
23	1,2,3,5		83	1,2,5,7		143	1,2,3,4,8		203	1,2,4,7,8	
24	4,5		84	3,5,7		144	5,8		204	3,4,7,8	
25	1,4,5		85	1,3,5,7		145	1,5,8		205	1,3,4,7,8	
26	2,4,5		86	2,3,5,7		146	2,5,8		206	2,3,4,7,8	
27	1,2,4,5		87	1,2,3,5,7		147	1,2,5,8		207	1,2,3,4,7,8	
28	3,4,5		88	4,5,7		148	3,5,8		208	5,7,8	
29	1,3,4,5		89	1,4,5,7		149	1,3,5,8		209	1,5,7,8	
30	2,3,4,5		90	2,4,5,7		150	2,3,5,8		210	2,5,7,8	
31	1,2,3,4,5		91	1,2,4,5,7		151	1,2,3,5,8		211	1,2,5,7,8	
32	6		92	3,4,5,7		152	4,5,8		212	3,5,7,8	
33	1,6		93	1,3,4,5,7		153	1,4,5,8		213	1,3,5,7,8	
34	2,6		94	2,3,4,5,7		154	2,4,5,8		214	2,3,5,7,8	
35	1,2,6		95	1,2,3,4,5,7		155	1,2,4,5,8		215	1,2,3,5,7,8	
36	3,6		96	6,7		156	3,4,5,8		216	4,5,7,8	
37	1,3,6		97	1,6,7		157	1,3,4,5,8		217	1,4,5,7,8	
38	2,3,6		98	2,6,7		158	2,3,4,5,8		218	2,4,5,7,8	
39	1,2,3,6		99	1,2,6,7		159	1,2,3,4,5,8		219	1,2,4,5,7,8	
40	4,6		100	3,6,7		160	6,8		220	3,4,5,7,8	
41	1,4,6		101	1,3,6,7		161	1,6,8		221	1,3,4,5,7,8	
42	2,4,6		102	2,3,6,7		162	2,6,8		222	2,3,4,5,7,8	
43	1,2,4,6		103	1,2,3,6,7		163	1,2,6,8		223	1,2,3,4,5,7,8	
44	3,4,6		104	4,6,7		164	3,6,8		224	6,7,8	
45	1,3,4,6		105	1,4,6,7		165	1,3,6,8		225	1,6,7,8	
46	2,3,4,6		106	2,4,6,7		166	2,3,6,8		226	2,6,7,8	
47	1,2,3,4,6		107	1,2,4,6,7		167	1,2,3,6,8		227	1,2,6,7,8	
48	5,6		108	3,4,6,7		168	4,6,8		228	3,6,7,8	
49	1,5,6		109	1,3,4,6,7		169	1,4,6,8		229	1,3,6,7,8	
50	2,5,6		110	2,3,4,6,7		170	2,4,6,8		230	2,3,6,7,8	
51	1,2,5,6		111	1,2,3,4,6,7		171	1,2,4,6,8		231	1,2,3,6,7,8	
52	3,5,6		112	5,6,7		172	3,4,6,8		232	4,6,7,8	
53	1,3,5,6		113	1,5,6,7		173	1,3,4,6,8		233	1,4,6,7,8	
54	2,3,5,6		114	2,5,6,7		174	2,3,4,6,8		234	2,4,6,7,8	
55	1,2,3,5,6		115	1,2,5,6,7		175	1,2,3,4,6,8		235	1,2,4,6,7,8	
56	4,5,6		116	3,5,6,7		176	5,6,8		236	3,4,6,7,8	
57	1,4,5,6		117	1,3,5,6,7		177	1,5,6,8		237	1,3,4,6,7,8	
58	2,4,5,6		118	2,3,5,6,7		178	2,5,6,8		238	2,3,4,6,7,8	
59	1,2,4,5,6		119	1,2,3,5,6,7		179	1,2,5,6,8		239	1,2,3,4,6,7,8	
60	3,4,5,6		120	4,5,6,7		180	3,5,6,8		*240	5,6,7,8	

EXAMPLE: setting code 200.

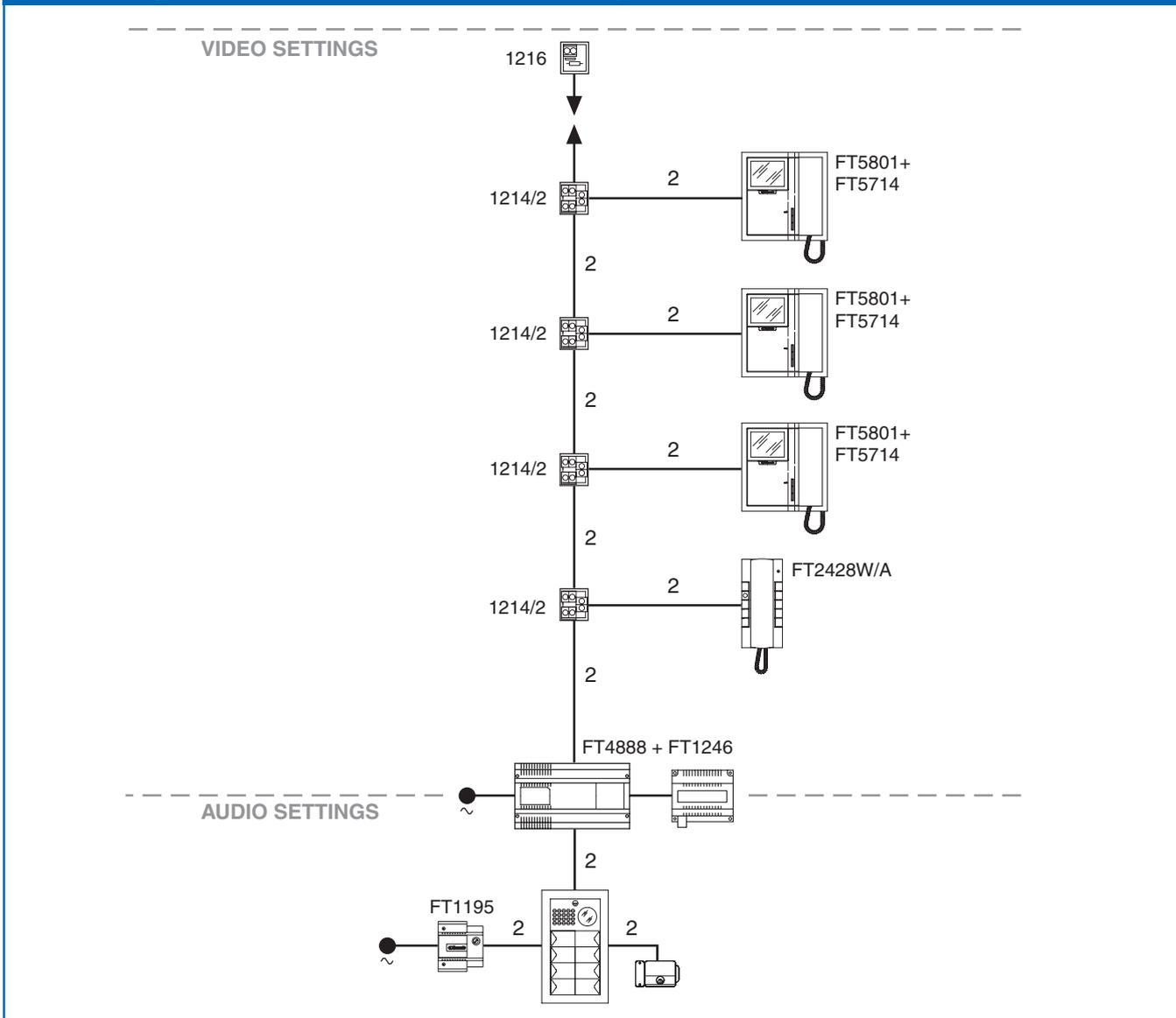


*NOTE: code 240 is reserved for the switchboard.

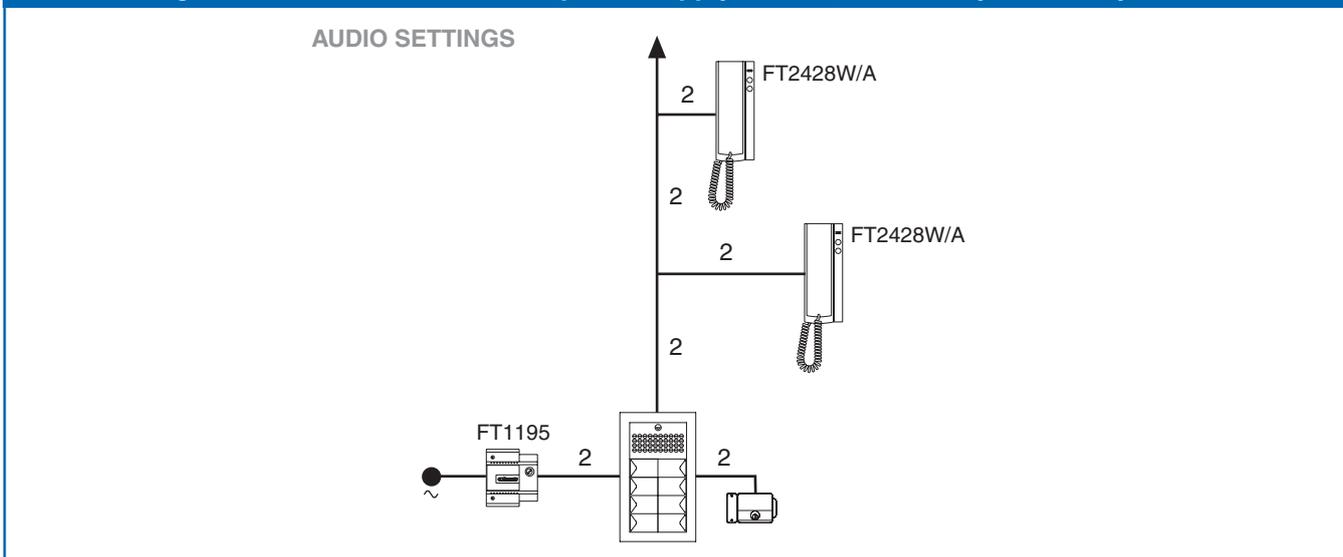
GENERAL INSTRUCTIONS FOR INSTALLATION AND OPERATION

Explanation of the meant one of audio settings and video settings

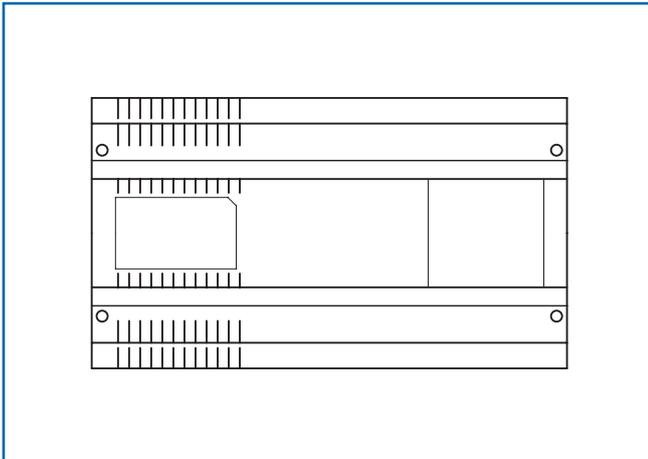
Video settings section is after the mixer power-supply FT4896



Audio settings section is before the mixer power supply FT4896, or in the systems only audio



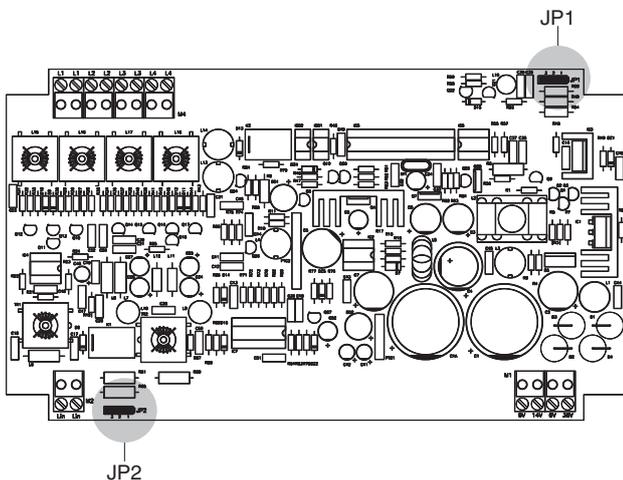
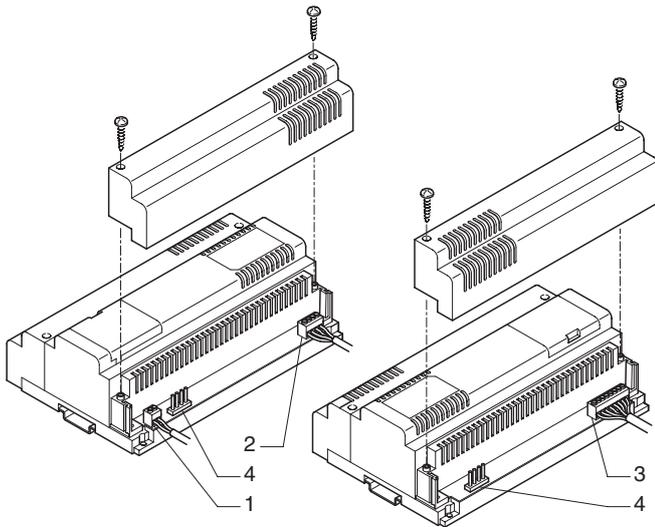
Mixer-power supply FT4896



Mixer-power supply

The Mixer-power supply FT4896 is contained in a 12 DIN module box. Dimensions: 208x140x65 mm.

To access the connection terminals, remove the side covers as shown in the figure.



FT4896 must be supplied by means of transformer FT1246.

Carry out the cabling and system connection prior to the connection of the power supply operations after disconnecting the mains supply.

This unit is fitted with a protection PTC, device after a short-circuit, disconnect the power supply for approximately one minute to allow re-setting. Insert the line on input from the external unit, and then switch on the power from FT1246 to the Mixer-power supply module FT4896.

The device allows a maximum of one monitor to be supplied and is able to manage a **MAX of 100** users.

Terminals for system connection:

1. **Lin Lin** connection to the line coming from the external unit.
2. **0V 36V** connection to terminals OUT1 of transformer FT1246.
0V 14V connection to terminals OUT2 of transformer FT1246.
3. **L1 L1** branch output 1 of riser.
L2 L2 branch output 2 of riser.
L3 L3 branch output 3 of riser.
L4 L4 branch output 4 of riser.
4. Jumpers to be set according to the number of total users connected to the Mixer-power supply FT4896.
JP1 and JP2 in **position 3** for systems with from **0 to 15** users.
JP1 and JP2 in **position 2** for systems with from **16 to 35** users.
JP1 and JP2 in **position 1** for systems with from **36 to 100** users.

JP1 - JP2



Installation rules for video door entry systems

Avoid placing the riser wires near power supply cables (230/400V).

In the branches towards each user, insert terminal 1214/2 supplied to equip the telephones FT2428W/A and the bracket FT5714.

Terminate each riser or branch with 1216 supplied with the Mixer-power supply FT4896 and with the video module FT4660. According to the cable used for the riser, set closure on 1216 as shown in under table.

According to the cable used for the riser, assess the maximum distance which can be reached between the Mixer-Power supply FT4896 and the monitor furthest away, and between terminal of branch terminal 1214/2 and the monitor furthest away.

According to the cable used for the connection, assess the maximum distance which can be reached between the external unit video and the Mixer-power supply FT4896.

Refer to the table on page 46 to assess the distances according to the conductors.

Each FT4896 can manage a **MAX of 9** riser branches - see diagram 8 on page 60.

In the case of systems with main and secondary entrances, it is necessary to use the line concentrator FT4834/9 and the switching device FT1224A.

In the case of a single entrance, it is possible to connect **up to 9** Mixers-power supplies FT4896 after FT4834/9 (see diagram 5 on page 54).

Each FT4834/9 allows a **MAX of 9** branches: in the case where several branches are needed (**up to 16**), it is necessary to put two FT4834/9 in cascade.

The additional FT4834/9 must be preceded by the relative video signal amplifier FT4833/A (see variant 13 on page 66). A **MAX of 2 FT4834/9 in cascade** can be inserted.

The **MAX number of users which can be connected to a single Mixer-power supply FT4896 is 100** regardless of whether they are divided over a single riser or over several riser branches (e.g.: 100 users over a single riser or 25 users over each of the 4 riser branches).

It is possible to connect **up to 25** monitors in cascade for each riser branch (see variant 15 on page 67).

In this case, in order to determine the Max. distance between external unit and the last monitor of the cascade, please refer to the table on page 46 column **A**.

The connection between several monitors with same user code (**MAX 3**) can take place in cascade or branched from the riser following the variants 18, 19, 20, 21, 22.

Telephones FT2428W/A with same monitor user code must be branched directly from the riser by means of 1214/2.

FT4896 supplies **only a single monitor for each call**, therefore for systems with several monitors with the same user code, it is necessary to set the additional monitors as **secondary** or supply each additional monitor with power separately by means of FT1212/B.

Set the bridges and the jumper on bracket FT5714 as shown in the variants to the basic diagrams 18, 19, 20 according to the configuration to be obtained.

The cameras of the external units must not be directed towards direct light sources (e.g.. lamps, sunlight, reflecting surfaces, etc.).

Table of 1216 Settings according to the type of connection cable used

Type of cable	Setting 1216
Specific cable FT4577 1 mm ² cross-sect. (Ø 1.2 mm)	
Two-wire cable 1.5 mm ² cross-sect. (Ø 1.4 mm)	
Braided and shielded cable 1 mm ² cross-sect. (Ø 1.2 mm)	
Twisted telephone cable 0.28 mm ² cross-sect. (Ø 0.6 mm)	
UTP5 cat 5 AWG 24 cable 0.2 mm ² cross-sect. (Ø 0.5 mm)	
Two-wire cable 0.5 mm ² cross-sect. (Ø 0.8 mm)	

Maximum distances and characteristics of the conductors

The connection of the apparatus is of the unpolarised type.
 The use of conductors with characteristics other than those prescribed does not guarantee certain system distances being

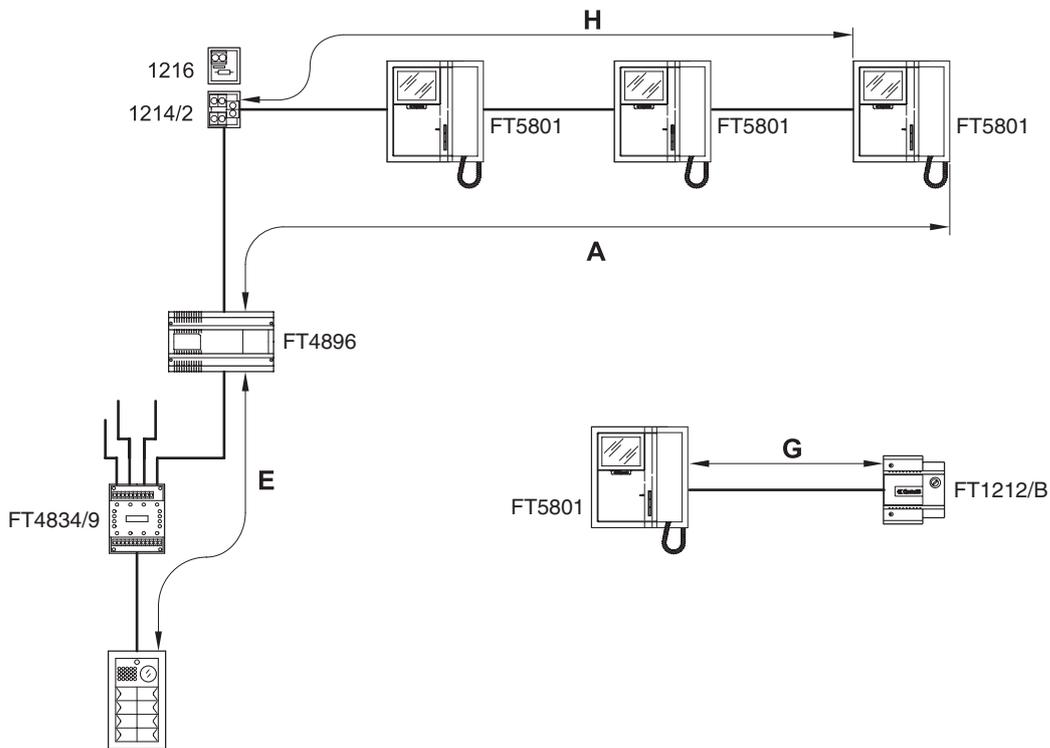
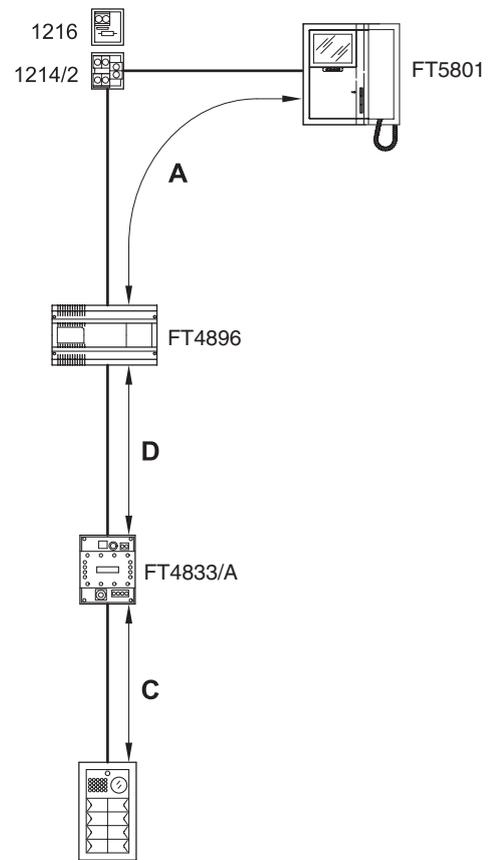
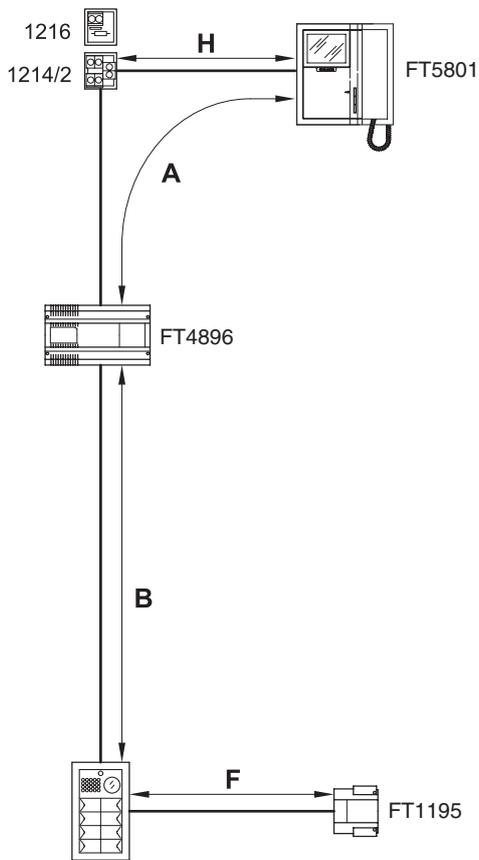
reached or the good quality of the video signal, therefore only use the cables described in the tables below.

Type of cable	Max. distance between Mixer FT4896 and internal unit.	Max. distance between external unit and Mixer FT4896.	Max. distance between external unit and FT4833/A.	Max. distance between FT4833/A and Mixer FT4896.	Max. distance between external unit and Mixer or amplifier FT4833/A with a FT4834/9 inserted.	Max. distance between terminal of branch 1214/2 and internal unit.
	A	B	C	D	E	H
Specific cable FT4577 1 mm ² cross-sect. (Ø 1.2 mm) 	200 m	200 m	200 m	200 m	150 m	60 m
Two-wire cable 1.5 mm ² cross-sect. (Ø 1.4 mm)** 	150 m	100 m	100 m	100 m	80 m	40 m
Braided and shielded cable 1 mm ² cross-sect. (Ø 1.2 mm)* 	120 m	80 m	80 m	80 m	50 m	30 m
Twisted telephone cable 0.28 mm ² cross-sect. (Ø 0.6 mm)* 	100 m	150 m	150 m	150 m	100 m	40 m
UTP5 cat 5 AWG 24 Cable 0.2 mm ² cross-sect. (Ø 0.5 mm)* 	80 m	150 m	150 m	150 m	100 m	40 m
Two-wire cable 0.5 mm ² cross-sect. (Ø 0.8 mm)** 	120 m	100 m	100 m	100 m	80 m	40 m

* In case of multipaired cable, it is advisable to use one pair only for the system. If necessary to reduce voltage drop, due to long distances, it is possible to use a pair as a single core.

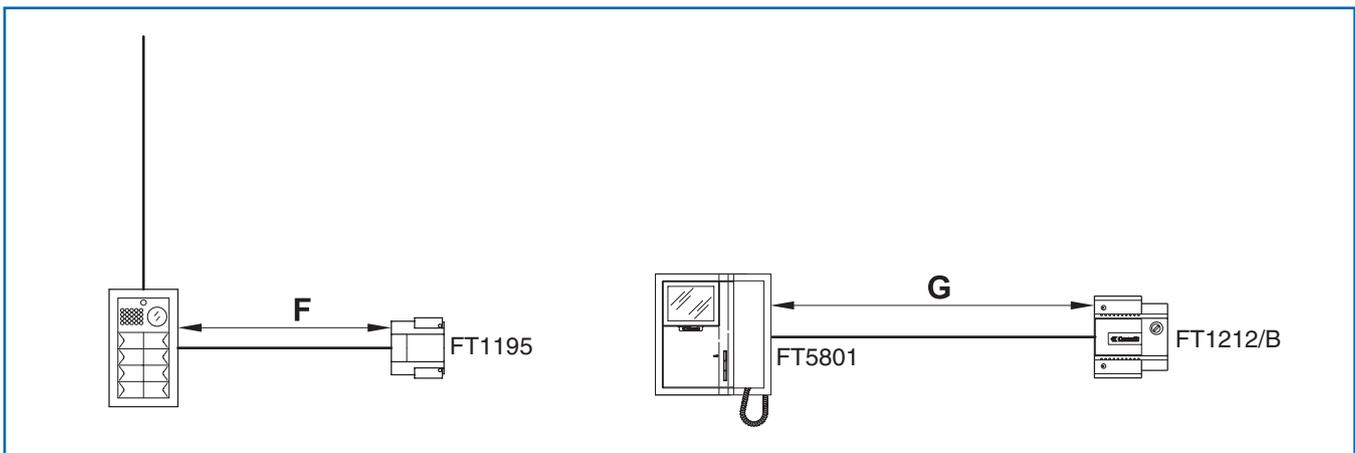
** In case of multicore cable, it is necessary to use only two of the available wires. We recommend not to double up on the conductors.

Figures showing distances



Maximum distances which can be reached by the conductors off additional monitor power supply and external unit

Cross-section of the conductor	Max. distance between transformer FT1195 and external unit.	Max. distance between power supply FT1212/B and internal unit.
	F	G
0.28 mm ² (Ø 0.6 mm)	4 m	10 m
0.5 mm ² (Ø 0.8 mm)	10 m	25 m
1 mm ² (Ø 1.2 mm)	20 m	50 m
1.5 mm ² (Ø 1.4 mm)	30 m	100 m
2 mm ² (Ø 1.6 mm)	40 m	150 m


OPERATING NOTES

- When the visitor presses the call button the bell of the internal unit is activated.
- There is a reassurance tone for the call having been made at the external unit. If the call confirmation tone is not heard in systems with several entrances, it means that another conversation is taking place with another external unit installed on the same riser. In the case where FT3346 - system engaged signalling module - is installed, wait until the module turns off before making the call again. In the case where FT3340 is installed, indication of the system being engaged is shown on the display.
- At the internal unit, communication takes place by lifting the handset.
- The button marked with the key symbol acts on the electric lock of the external unit, activating it for about **2 sec.**
- By pressing the call button on the external unit in video door entry systems, the infrared LEDs (not visible to the human eye) for illumination of the caller light up. The image remains on the monitor for about 90 sec.
- See page 36 for microphone volume and call tone volume adjustment of the telephones FT2428W/A.
- See page 35 for call tone volume adjustment and brightness of the monitor Genius.
- See page 3 and 15 for adjustment of audio volumes on the external unit.
- To enable the **Self-ignition** function, it is necessary to keep **push-button 2** pressed for more than **2 sec.**
A confirmation tone is heard on completion of setting.
- Monitor **Self-ignition** (if the function has been enabled) takes place by pressing **push-button 2**. In the case where two external units are installed, by pressing push-button 2 of monitor self-ignition in succession, there is the possibility of displaying first one image and then the other of the two external units on the monitor (alternating function between two entrances).
- By replacing the handset of the internal unit, you have a few seconds to replace the audio with the external unit. From the moment of hanging up, a few seconds pass before the image disappears from the monitor.
- The monitor set as **Main** (factory setting of bracket FT5714) lights up on a call and on self-ignition even if it is inserted as additional monitor with same user code.
- The monitor set as **Secondary** (see variant 18, 19) does not light up on a call, but there is the possibility of self-ignite it by pressing **push-button 2 (video request function)**. In that case, there is no possibility of self-ignite the monitor. Notice the difference between self-ignition, i.e. lighting up of the monitor with the system free with the possibility of alternating the image between two external units and the video request only active after a call.
- Monitor and telephones with same user code all ring at the same time (regardless of whether they are main or secondary) on a call from the external unit and on a door bell.

WIRING DIAGRAMS

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Diagram 2

System with 1 standard Series audio entrance.

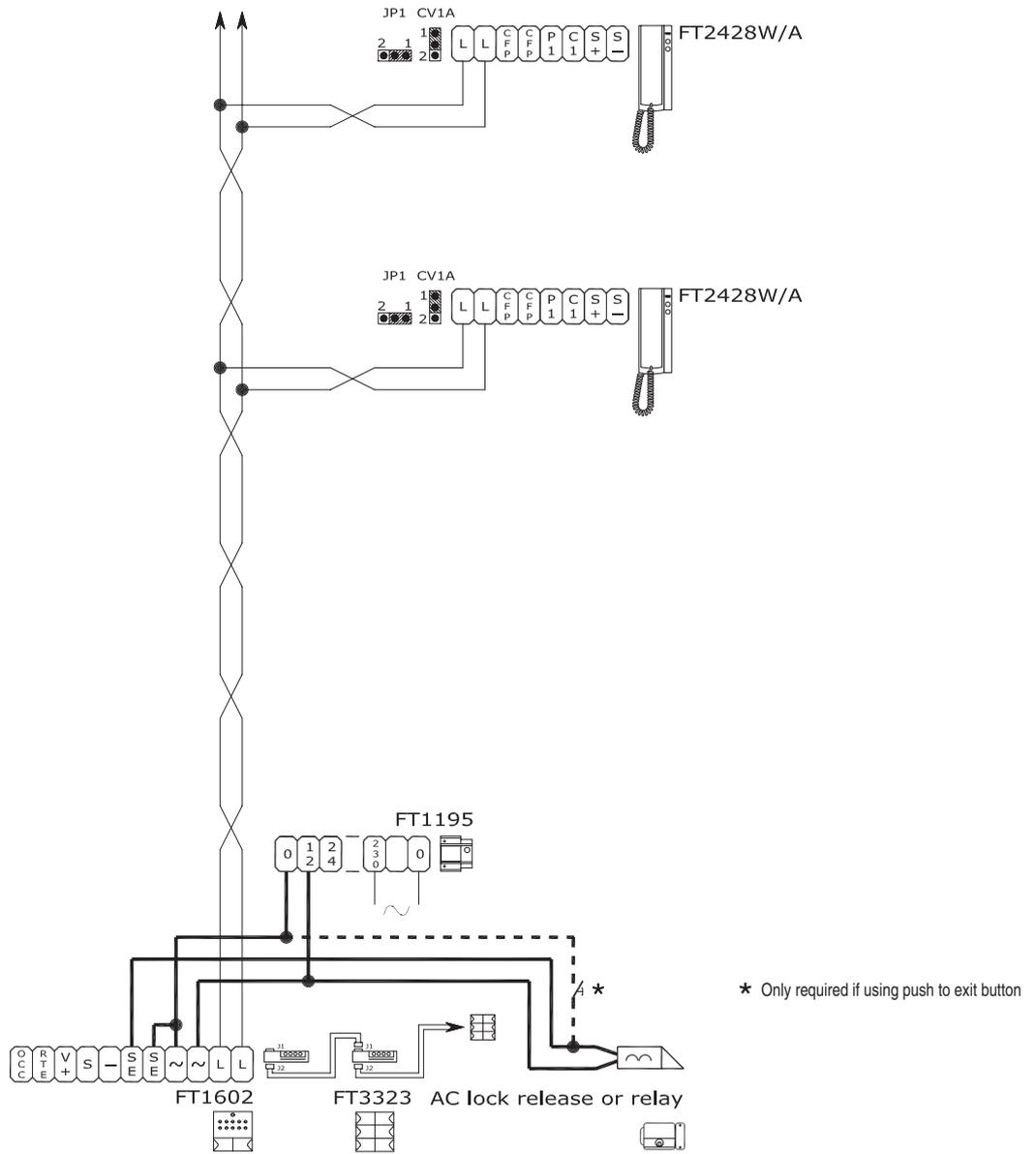
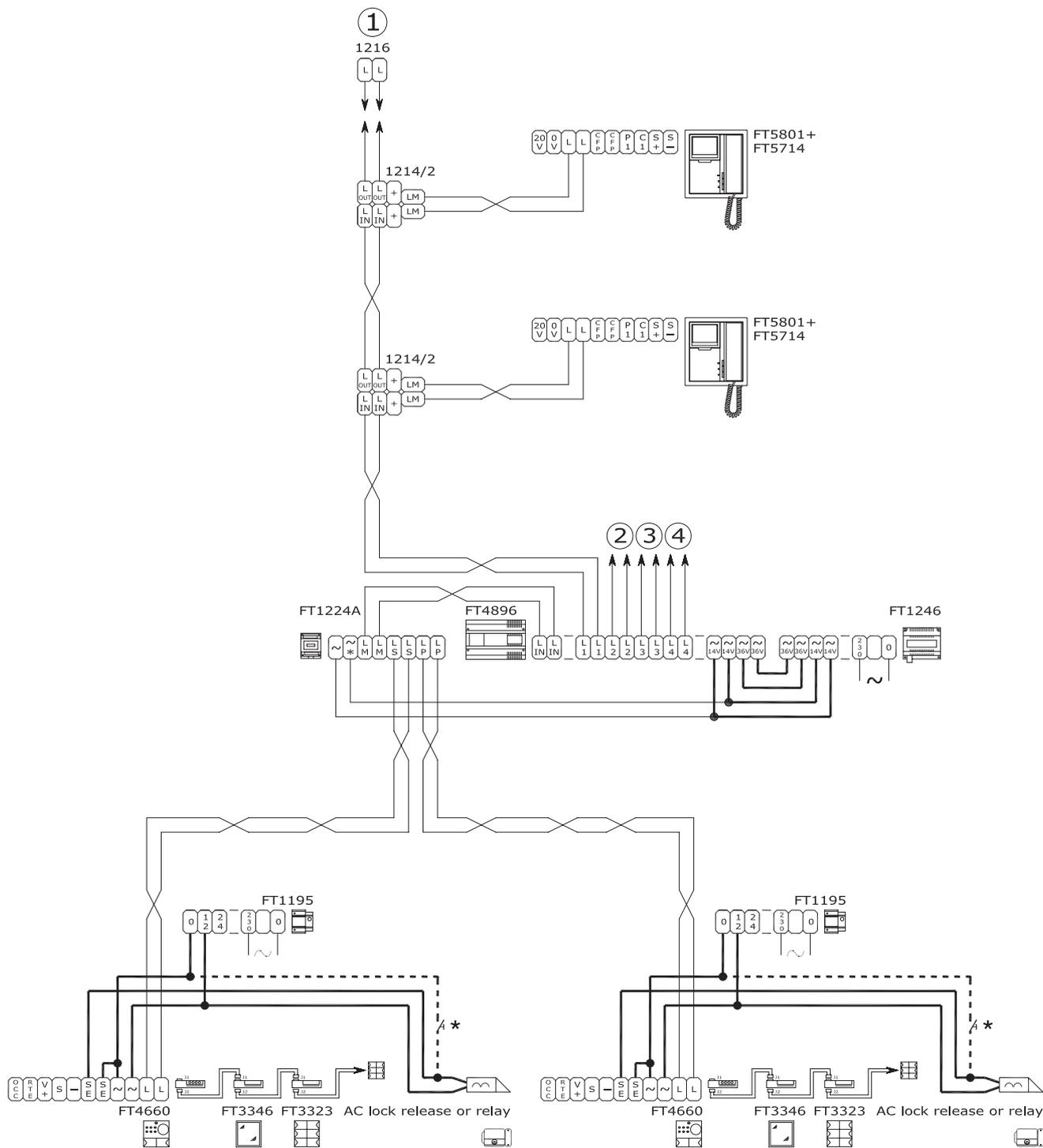


Diagram 3

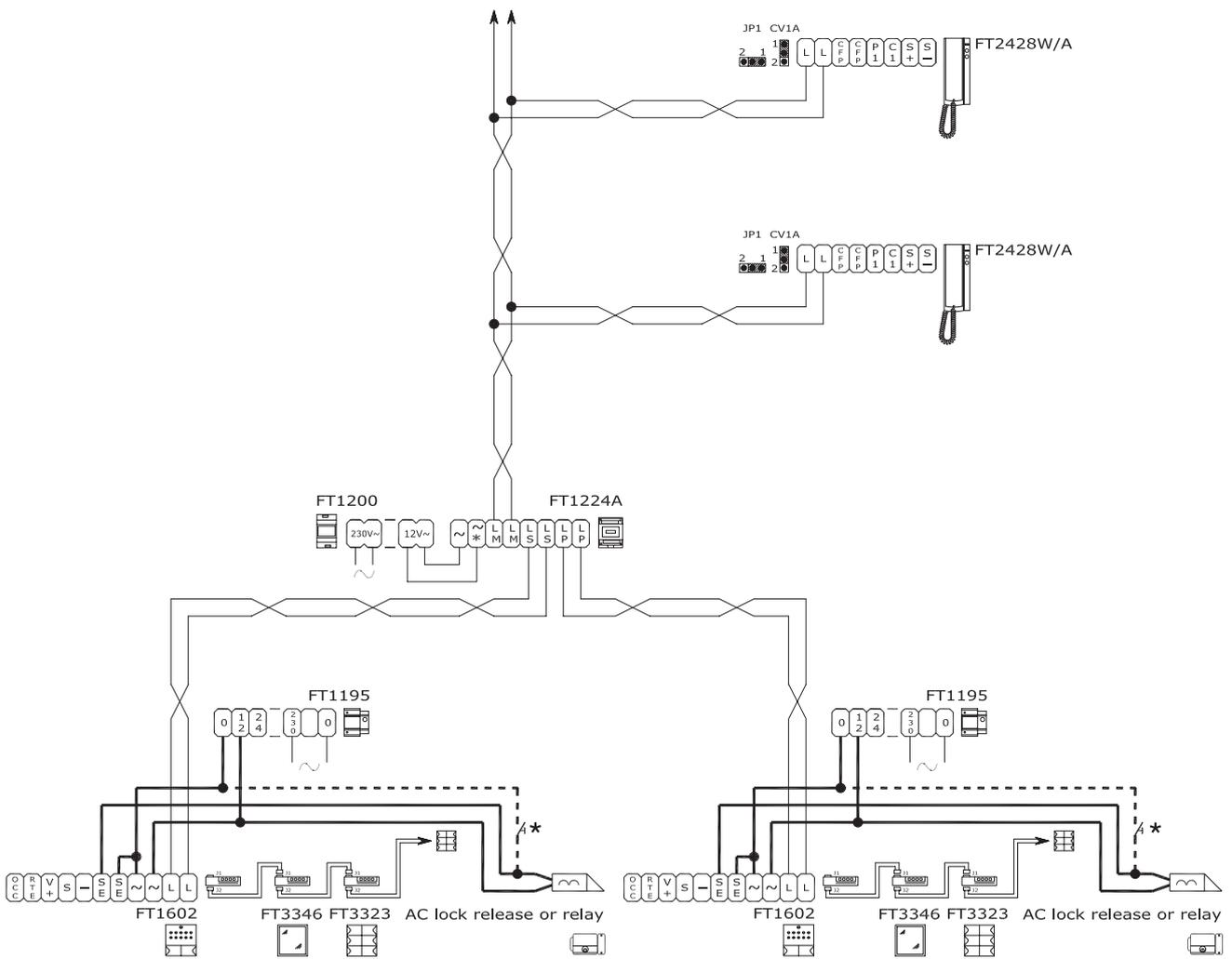
System with 2 standard Series video entrances.



* Only required if using push to exit button

Diagram 4

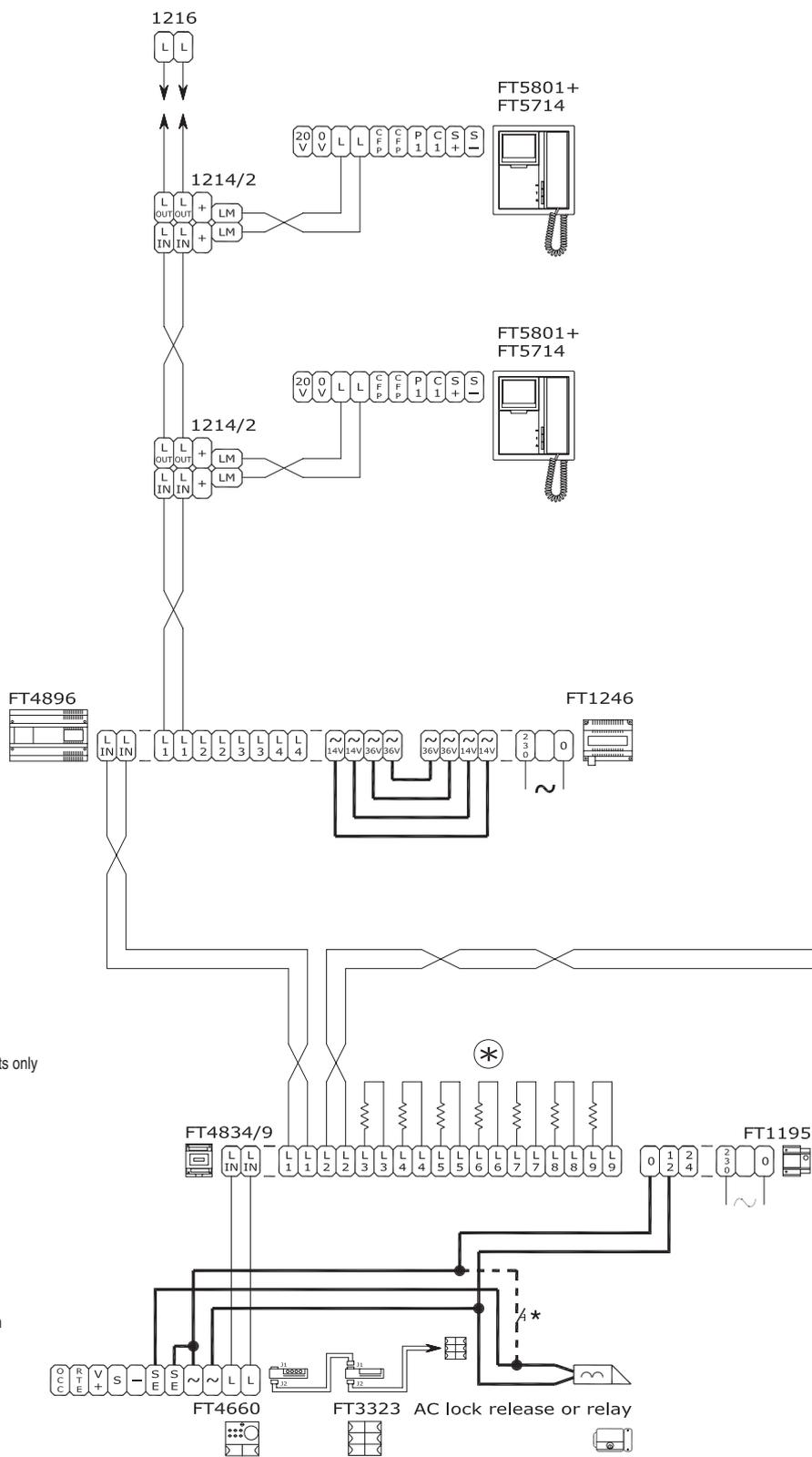
System with 2 standard Series audio entrances.



* Only required if using push to exit button

Diagram 5

System with 1 standard serie video entrance and MAX 9 Mixers-power supplies FT4896.



* Please remove resistors from used outputs only

* Only required if using push to exit button

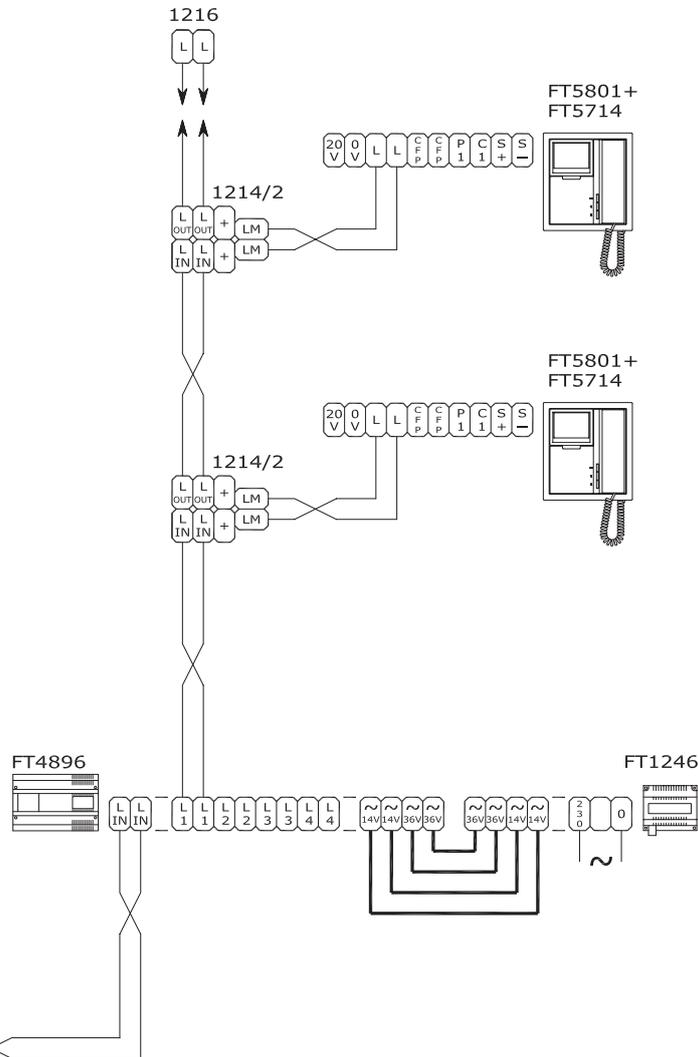
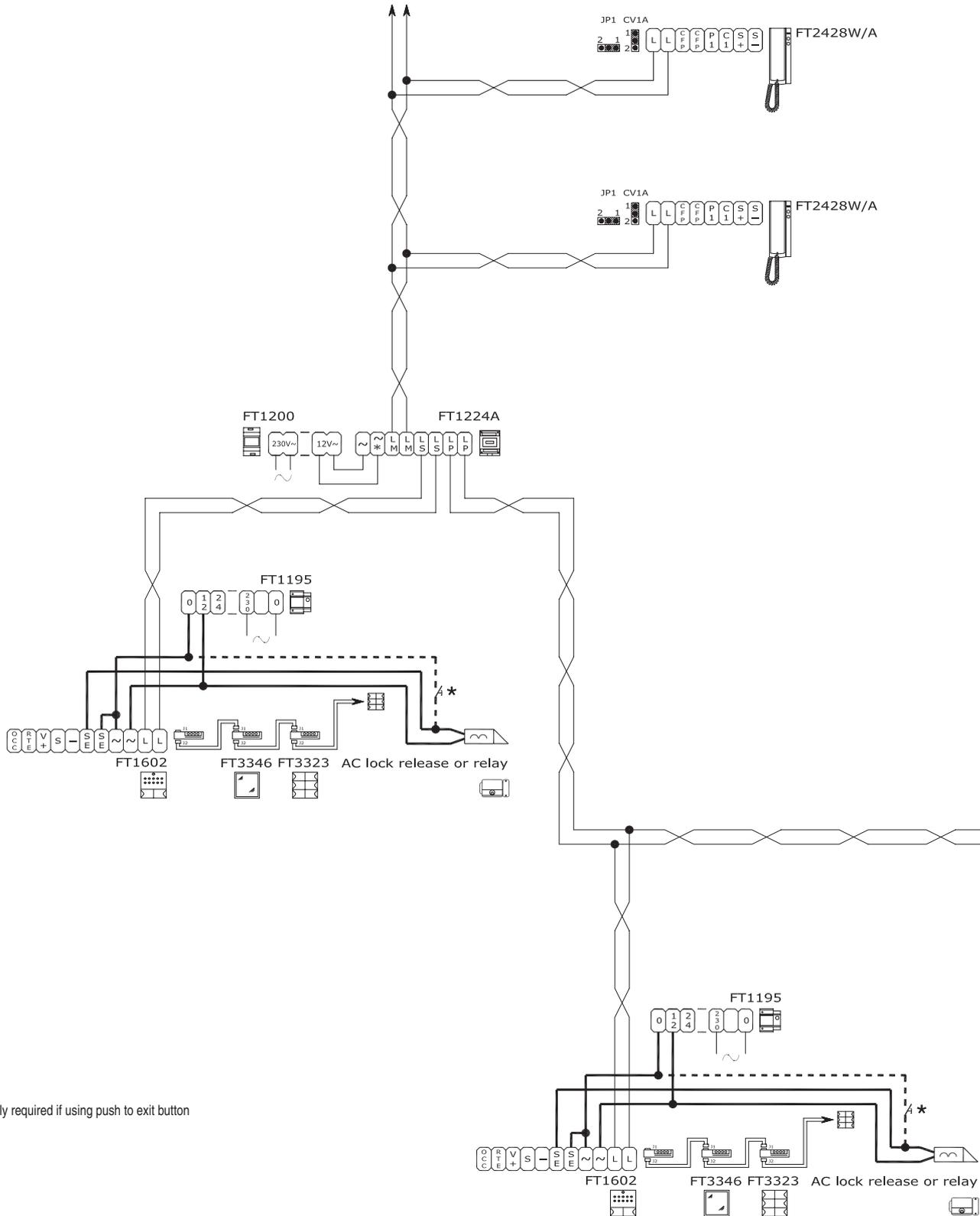


Diagram 7

System with 1 main audio entrance and standard series secondary audios.



* Only required if using push to exit button

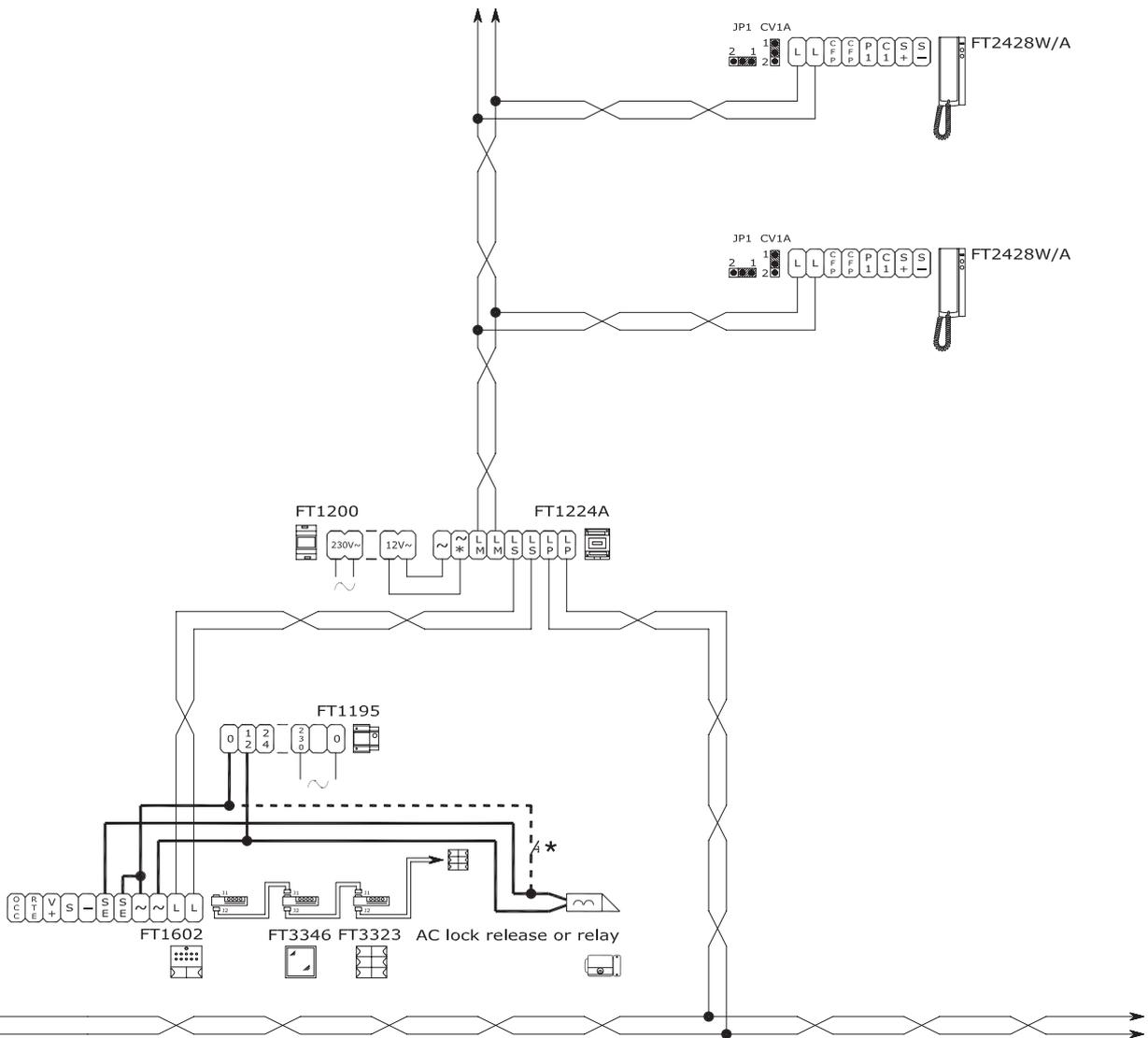


Diagram 8

Connection of a MAX 9 riser branches for each Mixer-power supply FT4896.

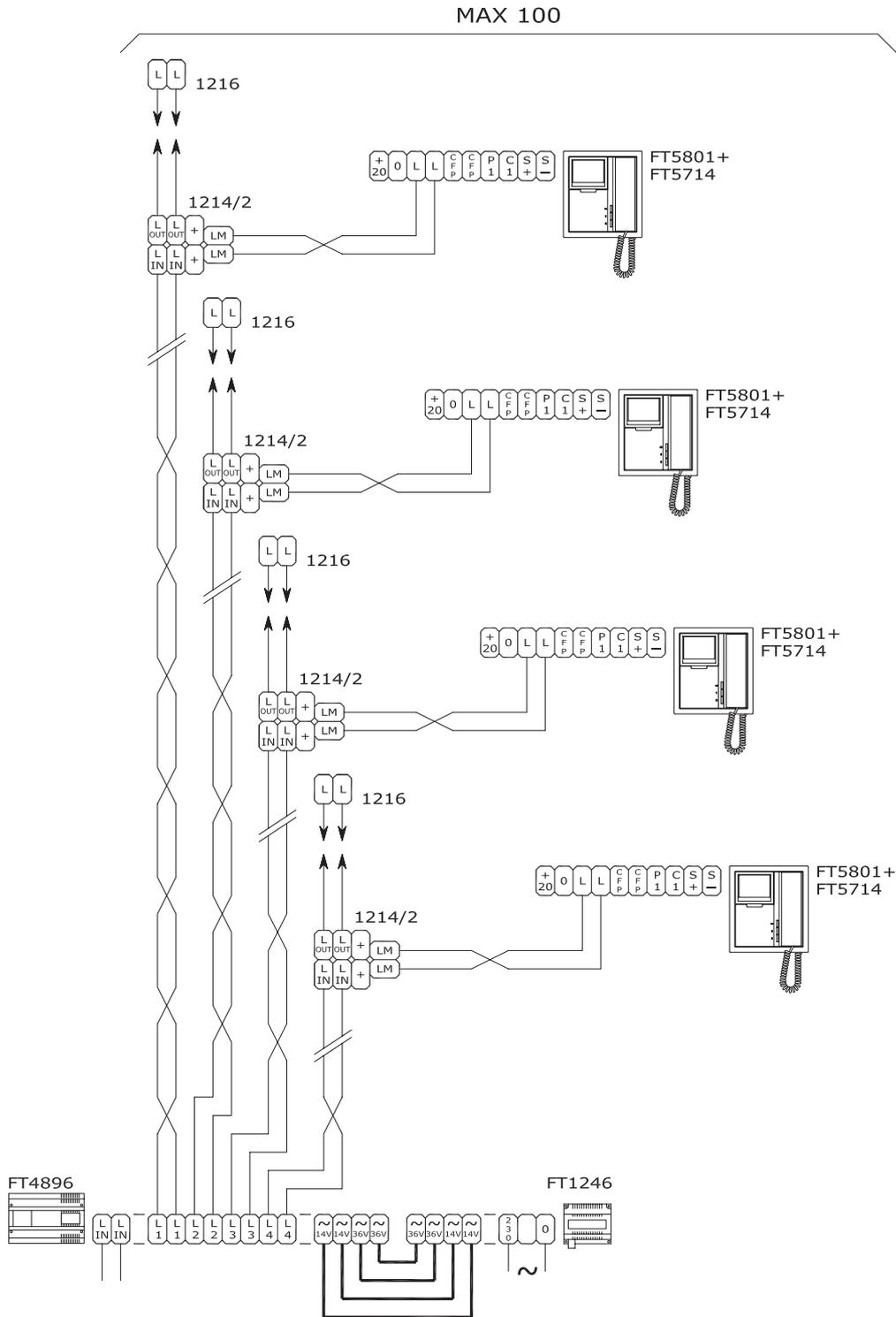
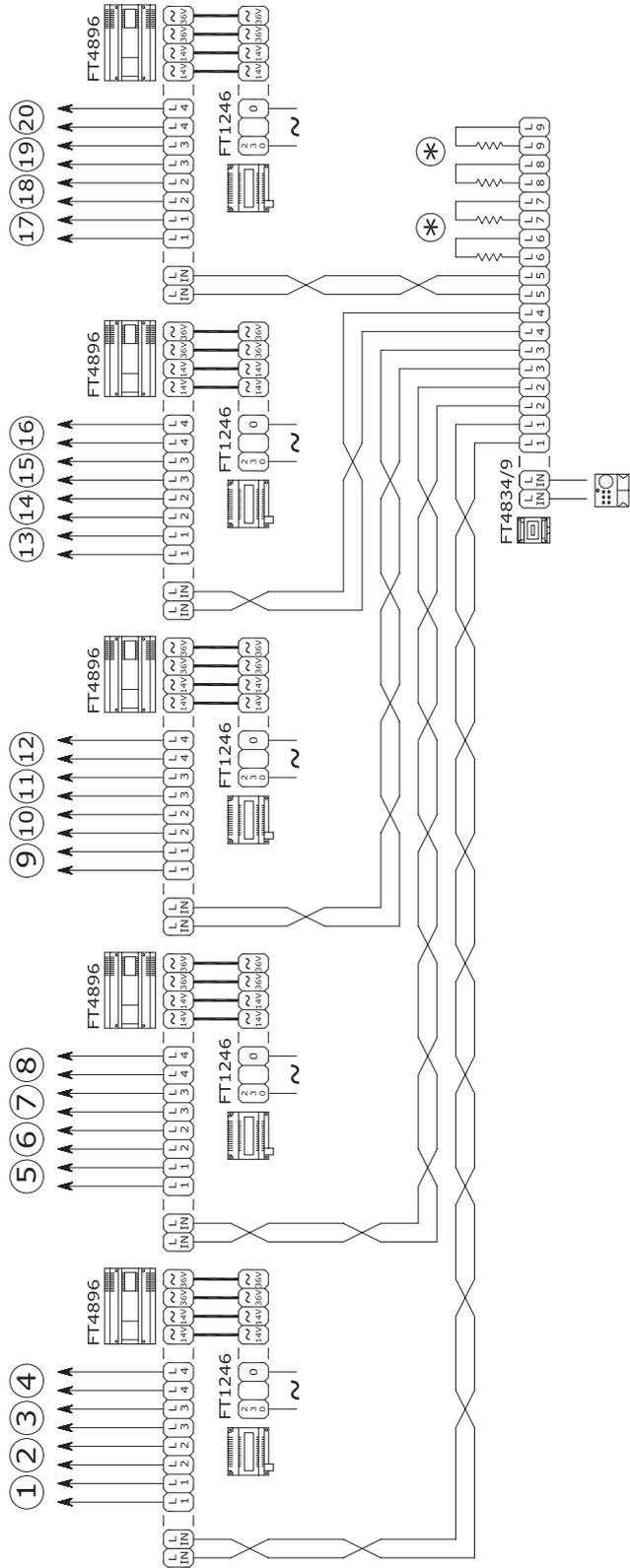


Diagram 9

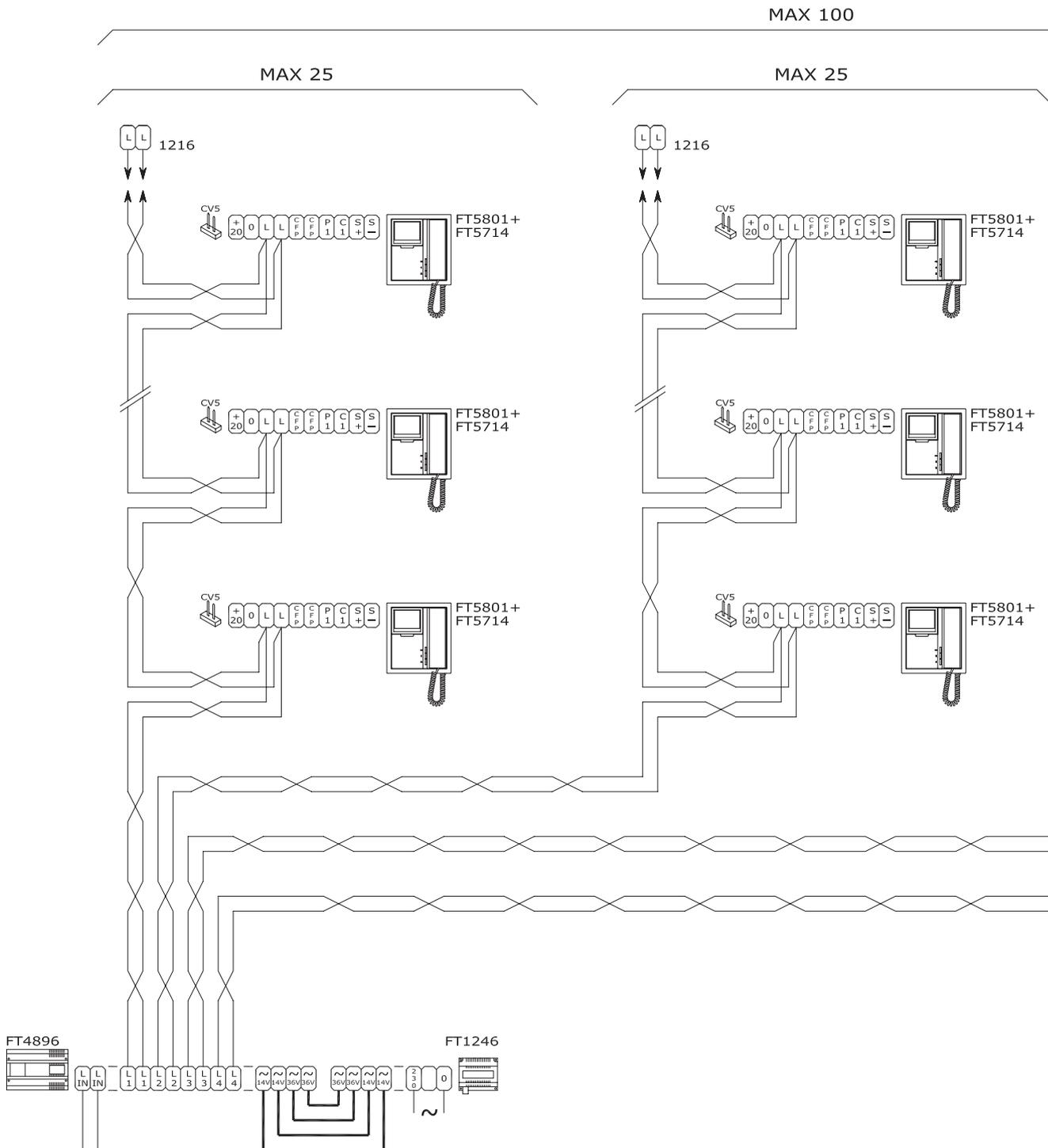
Connection in derivation of mixer- power supply FT4896.



(*) Please remove resistors from used outputs only

Diagram 10

Connection in cascade of several internal units (up to 25 for branch from FT4896).



MAX 25

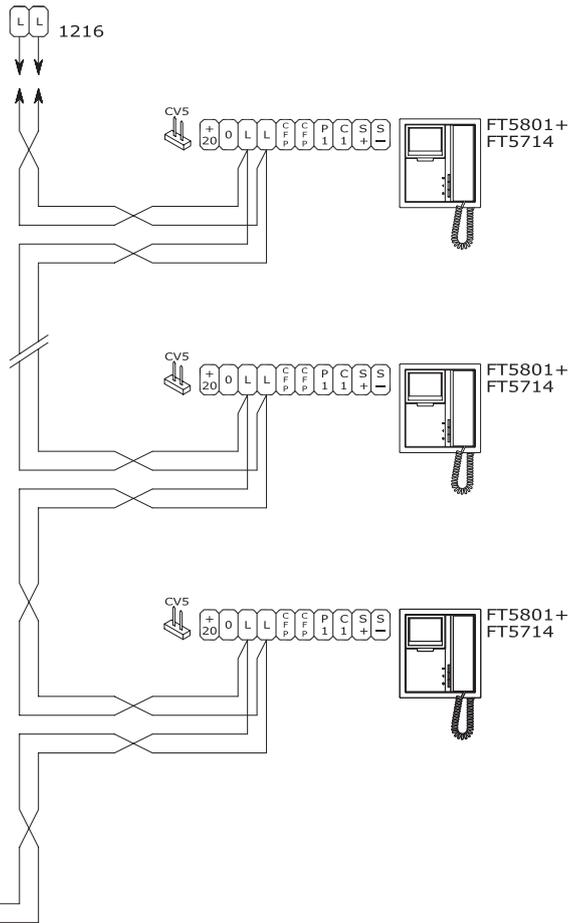


Diagram 11

Video door entry system with 1 main entrance and porter switchboard FT1998A.

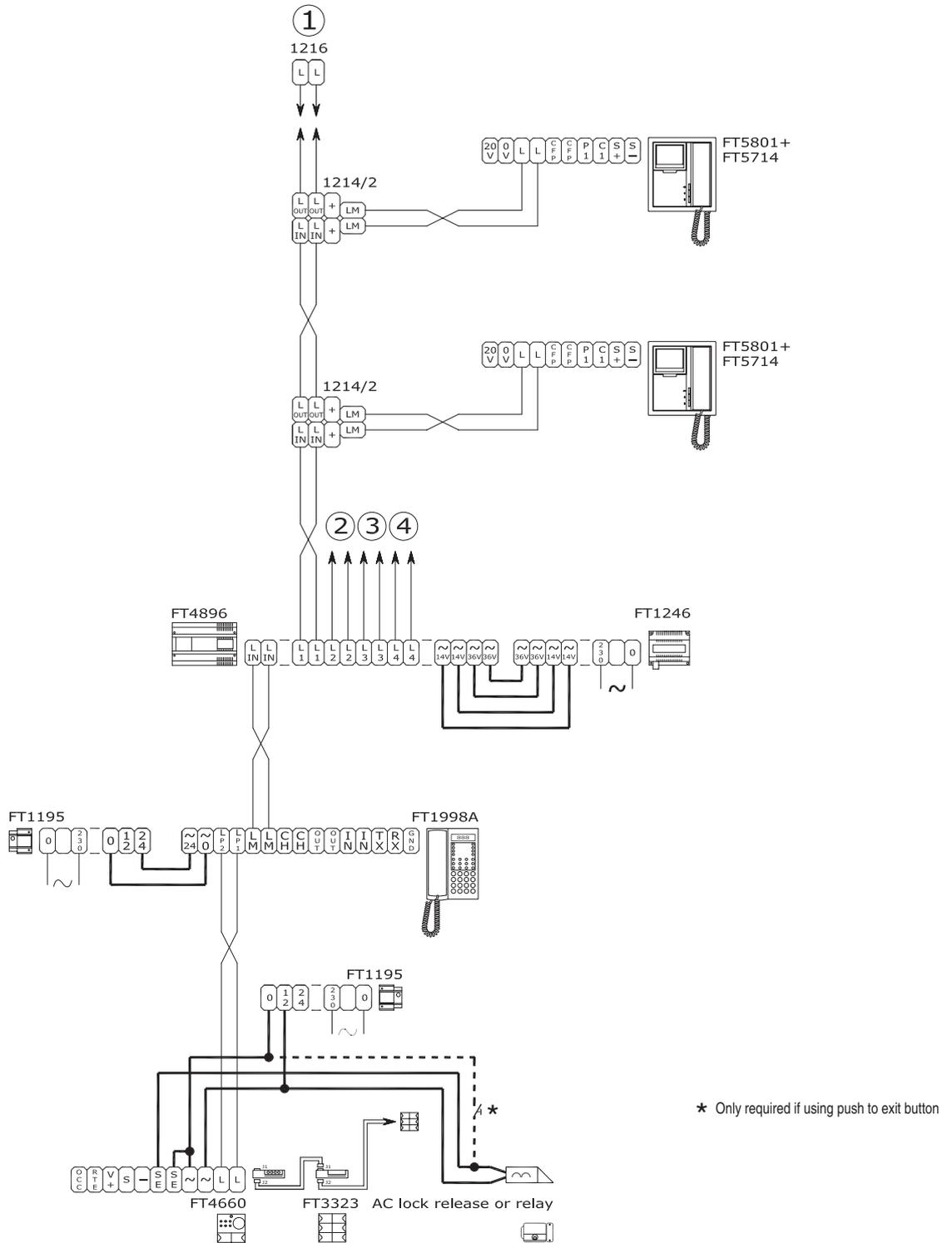


Diagram 12

Audio door entry system with 1 main entrance and porter switchboard FT1998A.

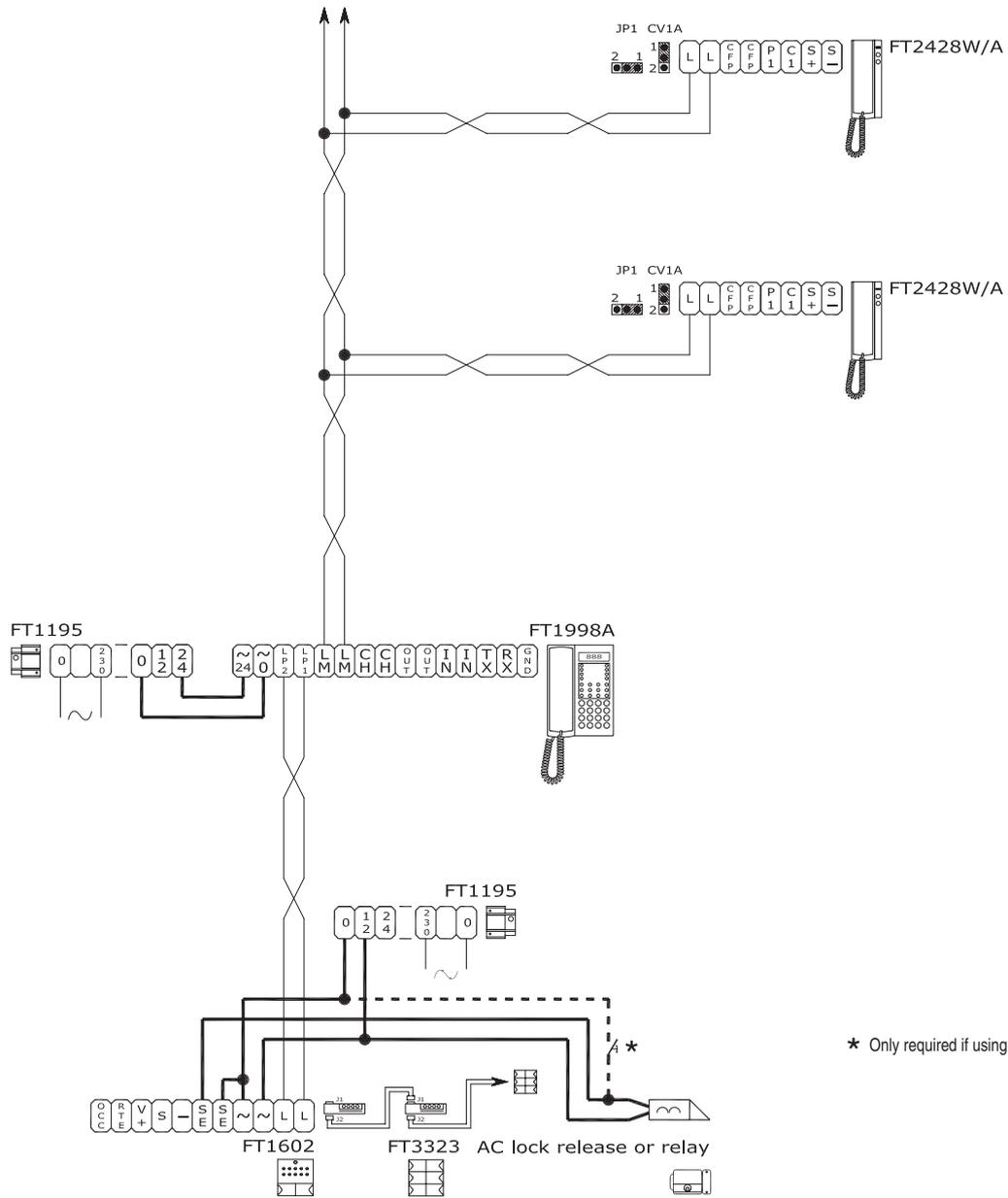
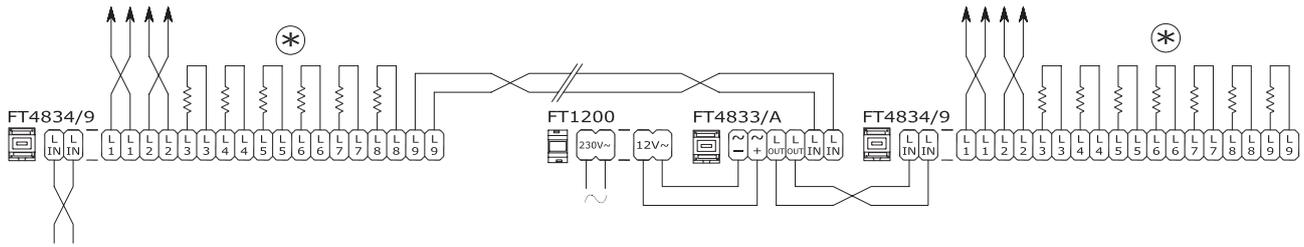


Diagram 13

Connection in cascade FT4834/9.

In case it is necessary to have more than the 9 branches provided by a concentrator FT4834/9, it is possible to connect a second 4834/9 on the output of the first. Connect an amplifier FT4833/A for each additional concentrator FT4834/9. In this configuration, use at MAX 3 outputs on the first FT4834/9 in order to obtain a MAX total of 33 branches.



⊛ Please remove resistors from used outputs only

Diagram 14

Connecting an amplifier FT4833/A.

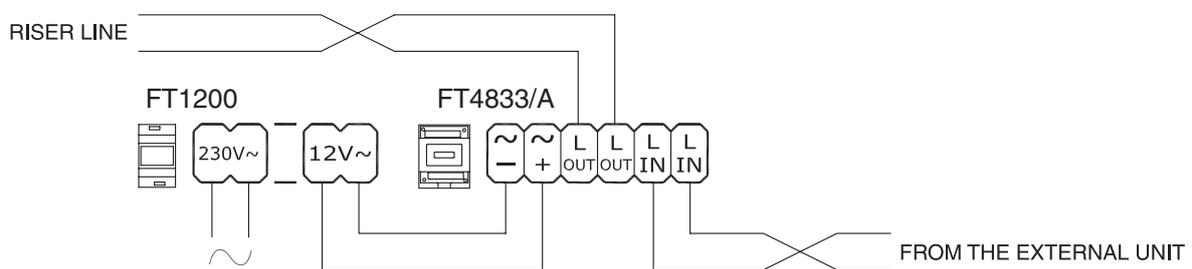


Diagram 17

Secondary door opening with FT1256 branched before FT4896.

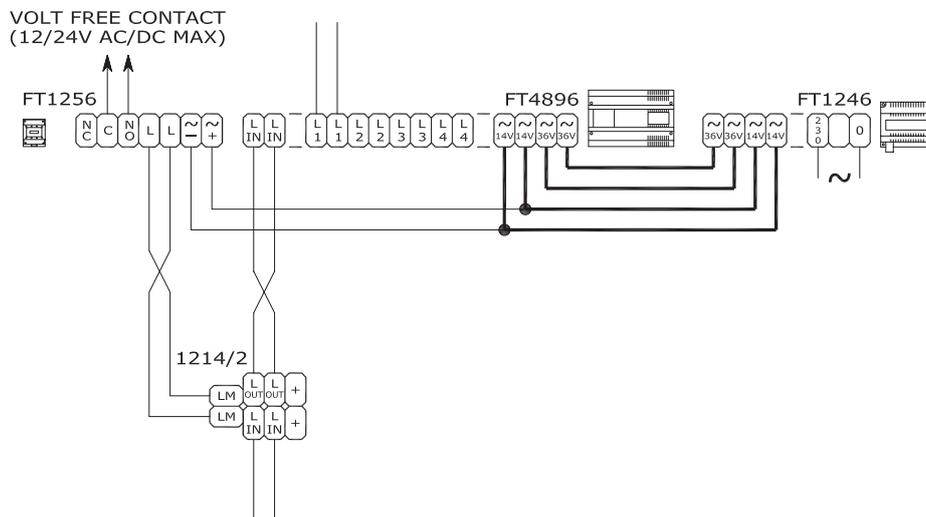
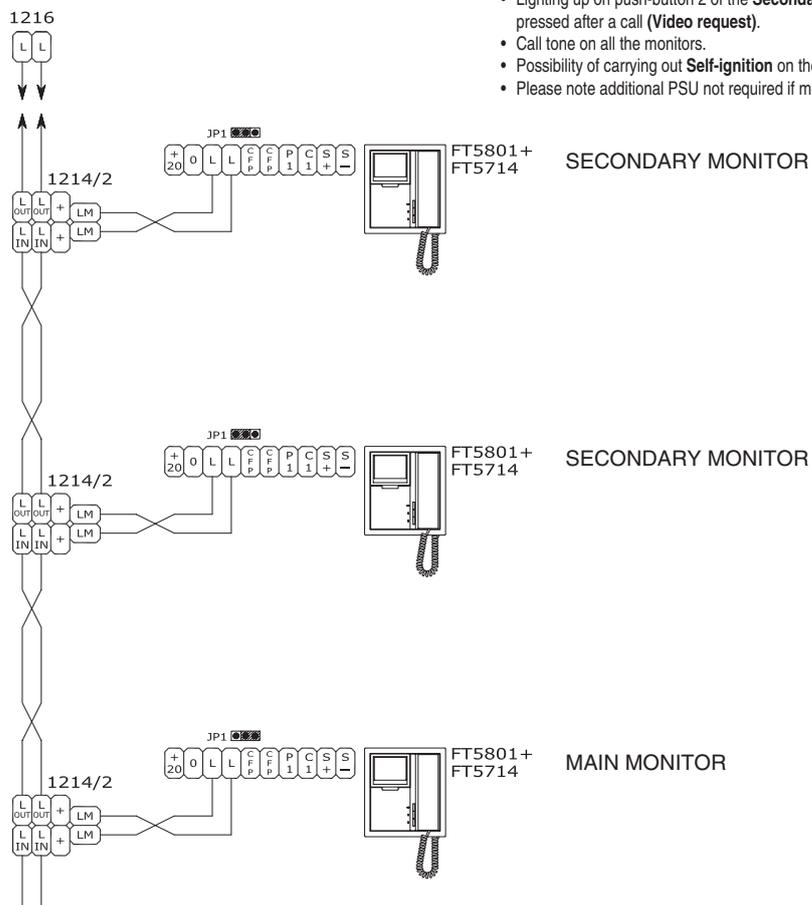


Diagram 18

Branched connection of monitors with the same user code supplied by a riser.



- Ignition up only of **Main** monitor on a call.
- Lighting up on push-button 2 of the **Secondary** monitors being pressed after a call (**Video request**).
- Call tone on all the monitors.
- Possibility of carrying out **Self-ignition** on the **Main** monitor.
- Please note additional PSU not required if monitors set to secondary.

Diagram 19

Connection in cascade of monitors with the same user code supplied from a riser.

- Ignition up on a call of **Main** monitor only.
- Ignition up on pressing push-button 2 of the **Secondary** monitors after a call (Video request).
- Call tone on all the monitors.
- Possibility of carrying out **Self-ignition** on the **Main** monitor.
- Please note additional PSU not required if monitors set to secondary.

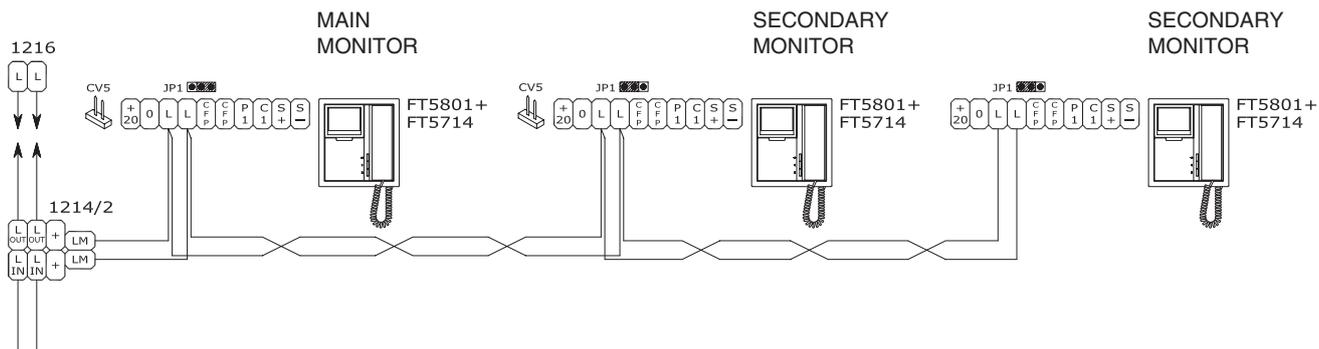


Diagram 20

Connection in cascade of monitors with the same user code supplied separately.

- Simultaneous ignition up of all the monitors both on a call and on self-ignition.
- **Self-ignition** on pressing push-button 2 of the monitor.
- Warning: by removing the **Main** monitor supplied from a riser, there is no longer the video signal on the other two monitors either.

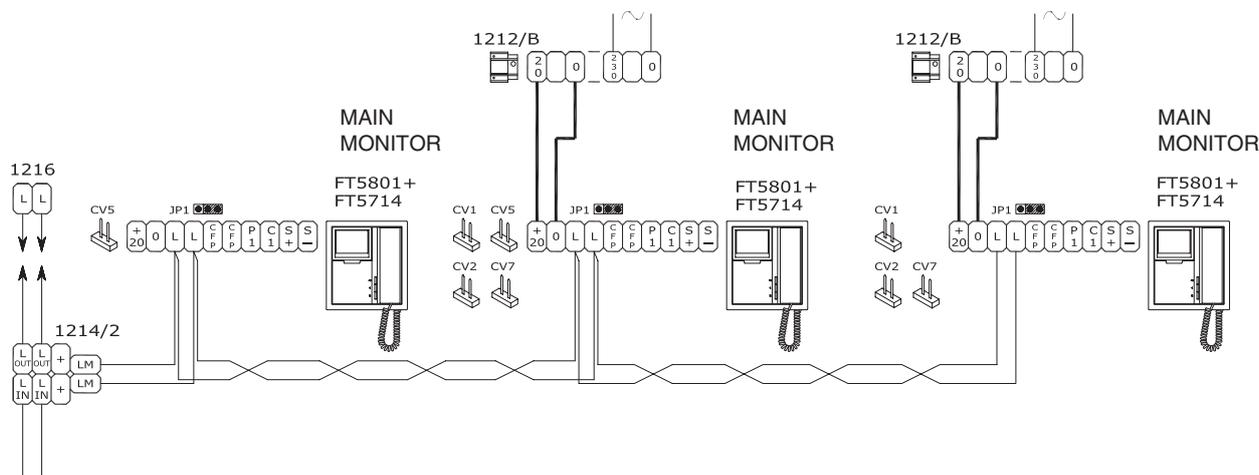


Diagram 21

Connection of users audio in mixed system. Telephones in cascade.

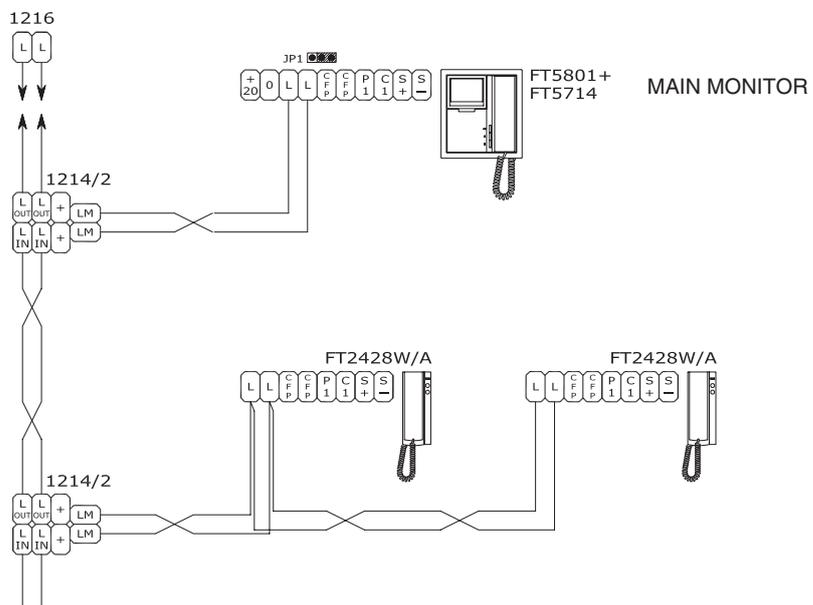


Diagram 22

Connection of users audio in mixed system. Branched telephones.

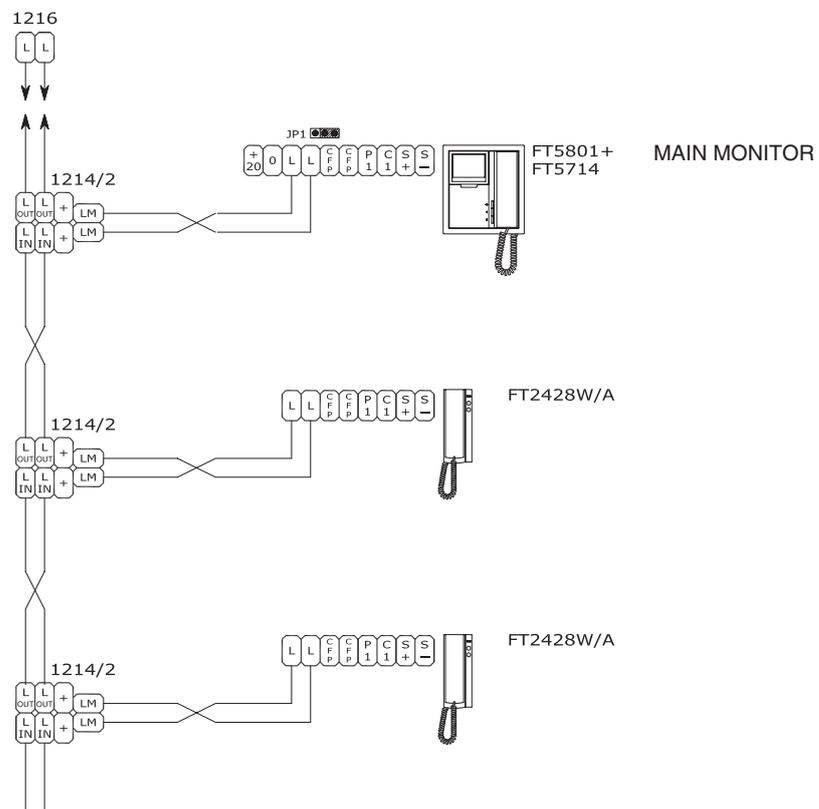


Diagram 25

Installation of FT1256 in mixed Audio/Video systems.

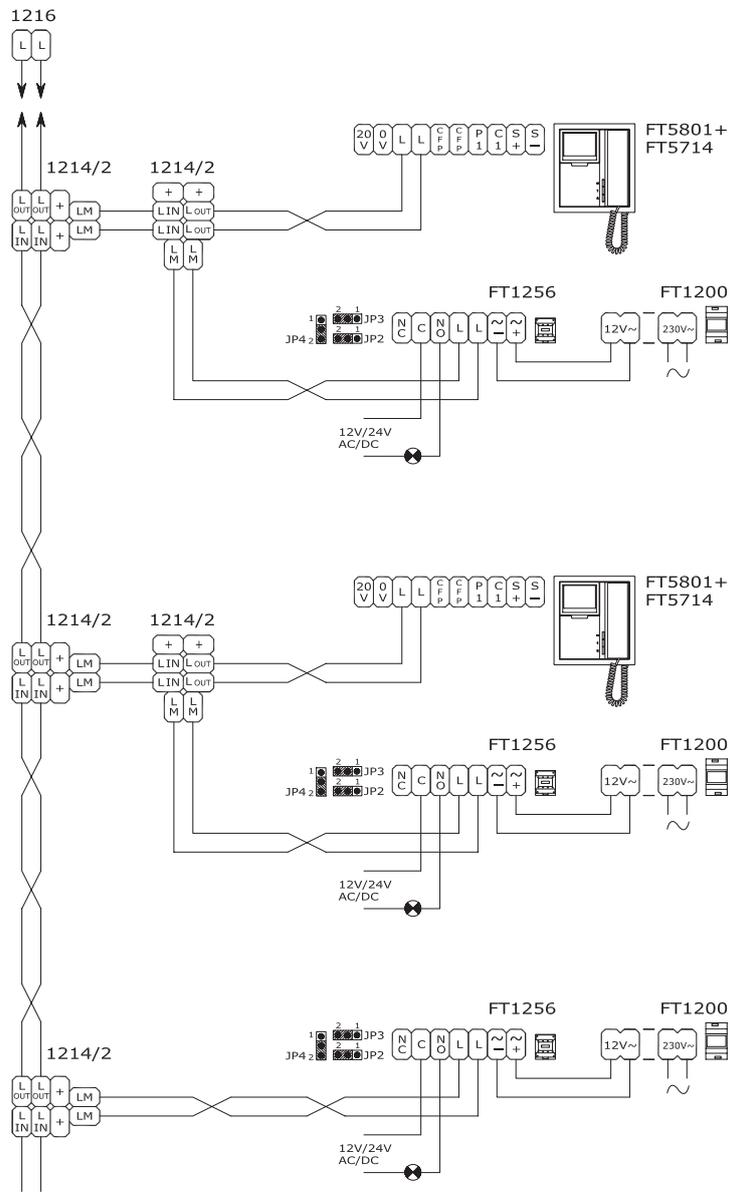


Diagram 26

VARIANT D: door bell function.

In case of more telephones or brackets with the same user code, connect the CFP button only on one; all devices will ring together.

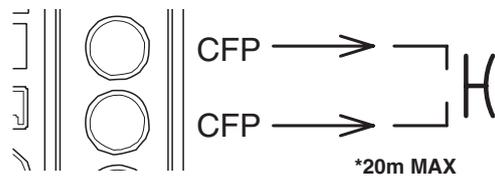
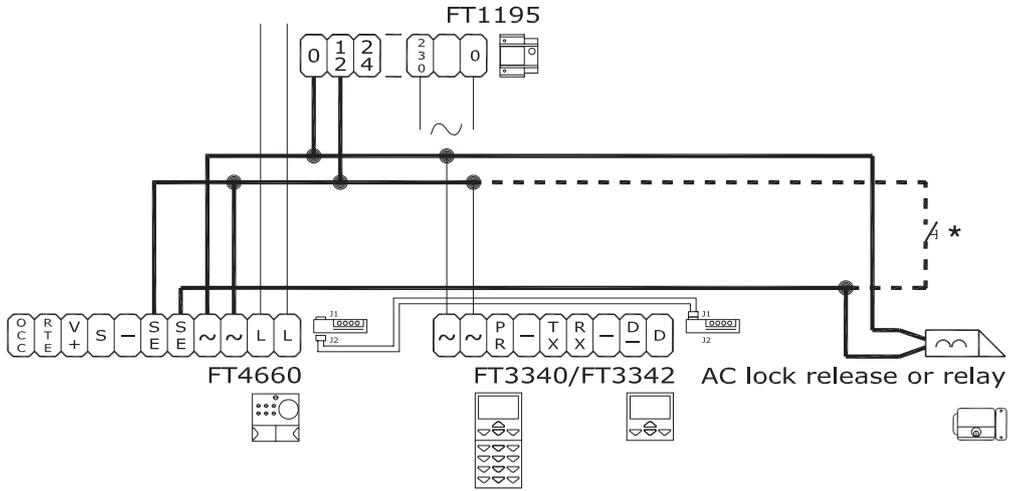


Diagram 27

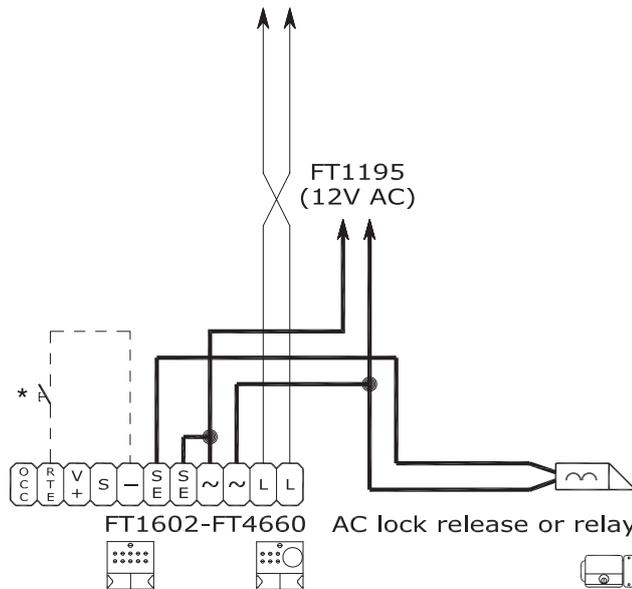
Variant with video door entry system with digital entrance FT3340/FT3342.



* Only required if using push to exit button

Diagram 28

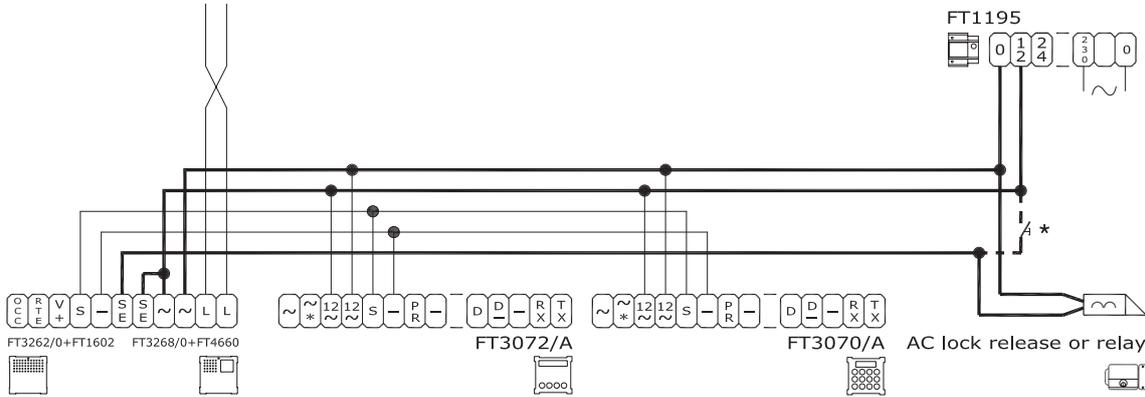
Variant to connect the timed local lock button (Request to exit).



* Only required if using push to exit button

Diagram 29

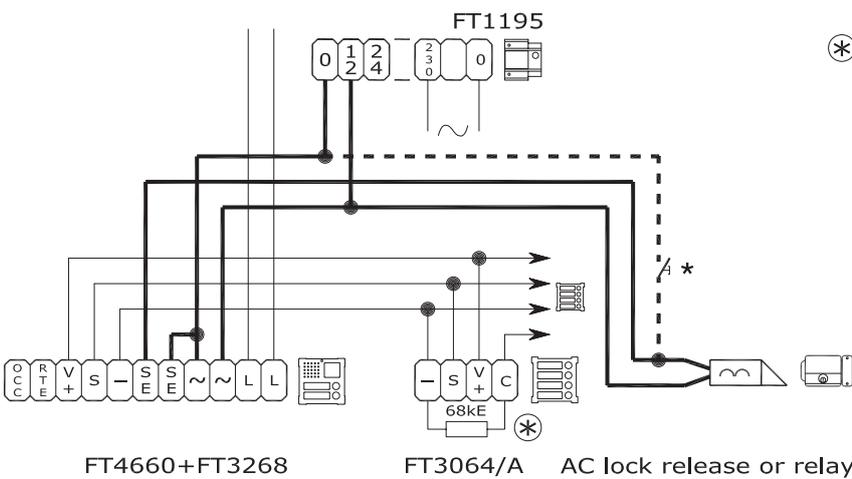
Connection with modules FT3262/0 (combined with module FT1602) or FT3268/0 (combined with module FT4660).



* Only required if using push to exit button

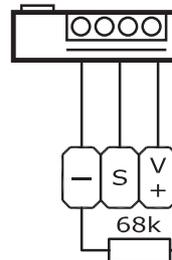
Diagram 30

Audio and video settings with external audio-video unit vandal resistant and FT3064/A.



* Use and programming of modules FT3063/A and FT3064/A.

FT1602 - FT4660

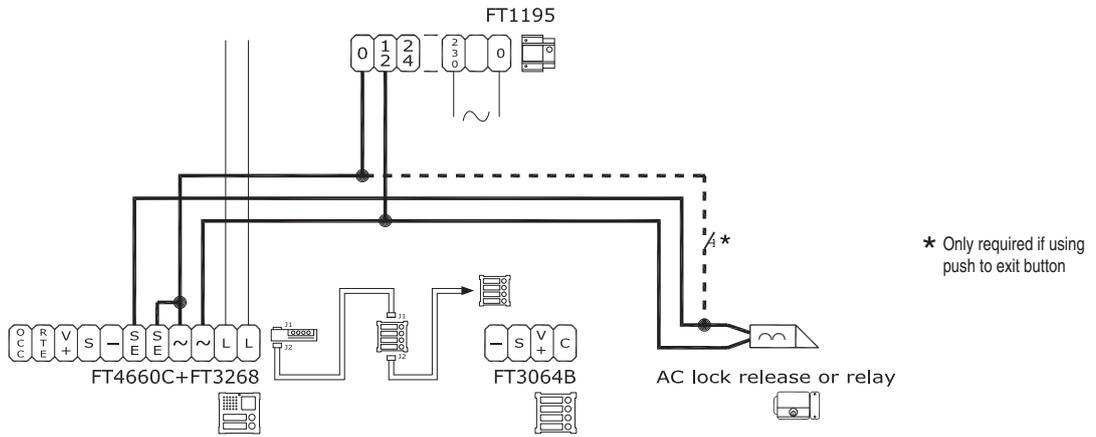


Connect all the conductors of the common terminal (C) of the various modules together. Connect the 68K Resistance, which is included in the pack **only** on the first module. During the pushbutton programming stage (page 41), short-circuit the Resistance (only on the first module).

* Only required if using push to exit button

Diagram 31

Audio and video settings with external audio-video unit vandal resistant and FT3064B.

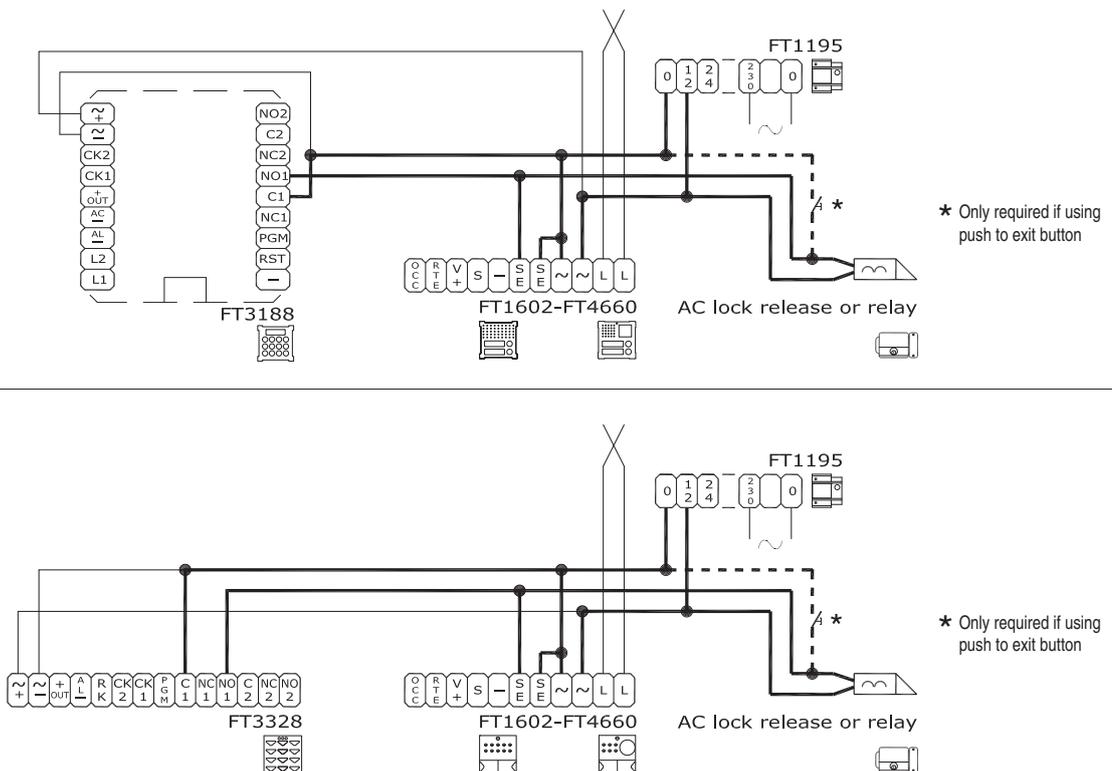


* Only required if using push to exit button

See programming stage at page 41.

Diagram 32

Vandal combined access and standard combined access electronic digital key in audio and video settings.

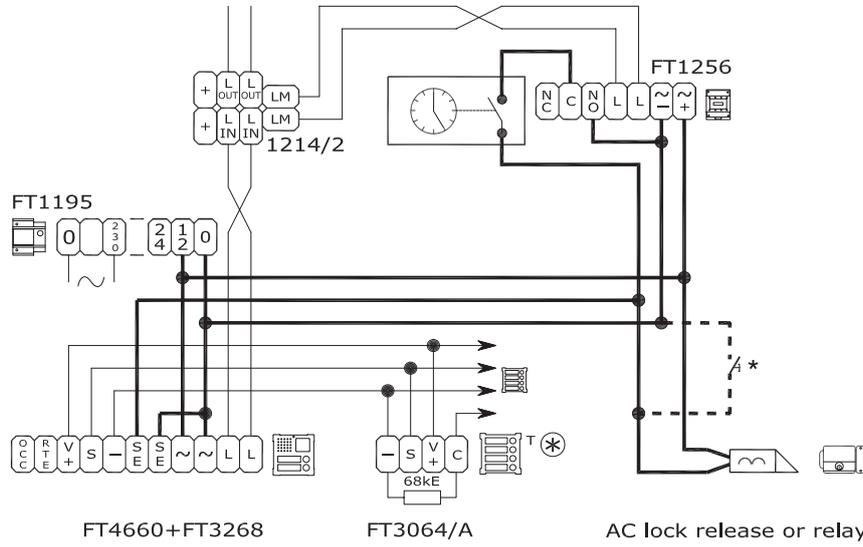


* Only required if using push to exit button

* Only required if using push to exit button

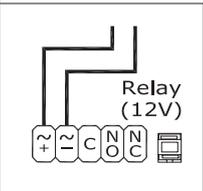
Diagram 35

Variant for trade facility. Serie vandal resistant video entrance.



★ Only required if using push to exit button

⊛ programmed with the same code setting on FT1256 dip switch.



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