

INTRODUCTION

This edition contains helpful information on the operation and installation of Farfisa video intercoms systems.

In order to make the systems work properly it is necessary to install only Farfisa equipment, keeping strictly to the items referred to in each diagram.

Read all the notes carefully, (even the small ones) in each installation scheme and the working instructions of the system given in the following pages.

For the sake of clarity, please notice that the sequence of the terminals of each article <u>has not been followed</u>. Only the terminal code (letter and/or number) is valid not the graphic sequence.

The items may have more terminals than the ones in the installation diagrams. The excess terminals must not be used.

Notice to the installer and user

Check the integrity of the product after removing it from the packing.

Packing materials (such as plastic bags, cardboard, polystyrene foam, etc.) must be kept out of the reach of children.

The manufacturer cannot be held responsible for possible damages caused by improper, erroneous and unreasonable use.

The cable runs of any intercom and video-intercom system must be kept separate from the mains or any other electrical installation as required by **International Safety Standards**.

WARNINGS

An all-pole mains switch with a contact separation of at least 3mm in each pole shall be incorporated in the electrical installation of the building.

Before connecting the unit, make sure its data correspond to those of the mains.

The apparatus shall not be exposed to dripping or splashing.

For correct operation make sure that ventilation or heat dissipation openings are not obstructed.

Do not open or tamper with power supply or video intercom apparatus when they are ON. There is high voltage inside.

Avoid bumping and hitting the video intercom apparatus, it could break of the CRT with consequent projections of fragmented glass.

For installation or maintenance refer only to qualified personnel.



European Mark of conformity to the EEC Directives.

CEMARK

The CE mark ensures that the product complies with the requirements of the European Community Directives in force; in particular, Electrical Safety LVD73/23, Electromagnetic Compatibility EMC89/336 and Telecommunication Terminals R&TTE99/5 Directives.

As set forth by the Directives, the technical documentation and Conformity Declarations are available in the Company's offices for verifications and controls by competent Authorities.



Mark of VDE a German Testing and Certification Institute.



Quality assured firm.



Italian Association of Electrotechnical and Electronic Industries

11 TECHNICAL MANUAL

2012 edition

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GENERAL CHARACTERISTICS

The Farfisa electronic call system with reduced wires technology allows for the realisation of intercom, video intercom and intercommunicating systems.

The modularity of Farfisa indoor and outdoor devices allows for system extension to satisfy the most diverse user's requirements, from individual houses to apartment buildings, from simple intercoms to complete videointercoms.

Selecting the system

The first choice to be made is the preferred type of system.

- · Analog system with reduced number of conductors (1+1 intercoms: 1 common wire +1 wire for each user; 4+1 videointercoms: 4 common wires +1 wire for each
- traditional analog system (4+1 intercoms: 4 common wires +1 wire for each user; 7+1 videointercoms: 7 common wires +1 wire for each user + coaxial cable).

The Farfisa electronic call system allows for the realisation of different types of installation.

- Intercom systems with 1 or more main entrances and with or without secondary entrances
- Videointercom systems with 1 or more main entrances and with or without secondarv entrances
- Intercommunicating systems
- Mixed systems (intercoms/videointercoms/intercommunicating systems)

•Intercom systems

It is the simplest of the installations. It provides bidirectional audio communication between intercoms and external door stations with dooropening function.

The following variants of the basic installation are possible:

- -intercommunicating service. It allows for communication between different intercoms of the same apartment or between different apartments with private conversation to other users and to external stations
- private conversation. By adding a board to each intercom you can restrict the communication between internal and external user to the called user. The other users do not hear the conversation in progress when they lift the handset.

Videointercom systems

Apart from audio communication and dooropening function, video intercom systems provide visual control of the entrance.

The typical characteristics of video intercom systems are:

- Timed operation. The video intercom of the called user is enabled for about 100 seconds. Picking-up the handset the enabling time will be doubled: handing up the handset the system switches back to the stand-by mode. Systems which are using the power supplytimer art.1181E and 1281E switch back to the stand-by mode only when the enabling time
- Private conversation. Video intercom systems allow for audio communication only for the called user. The other users do not hear the conversation in progress when they lift the handset.
- Intercommunicating service. This service allows for audio communication between different intercoms or video intercoms of the

same apartment or between different apartments with private conversation to other users or external stations.

- Control switching ON. The user can enable the system, switch ON his/her own video intercom and monitor the area framed by the camera. Additional wires and activation buttons are needed in case of multiple entrances.
- Mixed systems (intercoms/videointercoms/intercommunicating systems)

All intercom and video intercom systems can be combined according to the user's requirements.

Selecting the articles

When choosing the article and type of installation, you should consider:

- · user's requirements
- · number of users
- installation possibilities
- · possible location of articles

The following options are possible for external door stations and internal stations:

- External door stations:
- Agorà series
- Profilo series
- Matrix series (steel push-button panels)
- Mody series
- UP series
- Internal stations:
- Echos series
- Exhito series
- Compact series
- Studio series
- Project series

Table for the selection of house's devices and door stations according to the performances of the system (see paragraph "Selecting the system")

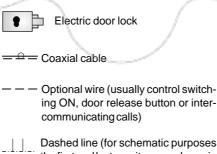
VIDEO-**INTERCOMS** INTERCOMS **Serie**s 7+1 4+1 4+1 Internal stations Echos * Exhito Compact Studio Proiect **External door stations** Agorà Profilo Matrix Mody UP **

- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- Series for up to 2 calls

Graphic symbols

llation diagrams:

The following symbols are used in the install								
片	Speaker							
	Microphone							
<u>_</u>	Button							
	Resistance							
\bigotimes	Lamp							
→	Diode							
SR41	Electronic buzzer							
₩AP	Additional speaker							



Dashed line (for schematic purposes the first and last monitors are shown in the multi-family systems. Required additional monitors can be inserted in such dashed line to complete the installation).

Call wires (second and last)





INTERCOMS AND VIDEOINTERCOMS SYSTEMS

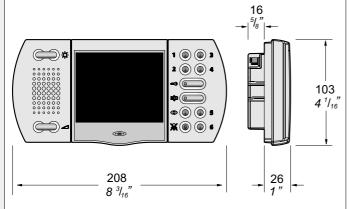
REDUCED WIRES TECHNOLOGY

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VIDEOINTERCOMS



EH9161CT. Hands Free Colour Videointercom with audio-video privacy, 3 types of calls, 5 differentiated programmable ring tones, audio, contrast, and brightness adjustment. Metallized grey colour. Complete with 10 keys for monitor control switching-on, door lock opening, intercom calls and supplementary services. It can be installed on the wall by using the back box art.9083 or wall adaptor WA9100T.

EH9161CW. Hands-free videointercom with same features as above, in white colour finish. It can be installed on the wall by using the back box art.9083 or wall adaptor WA9100W.

Technical characteristics

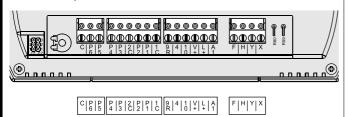
18÷24Vdc Power supply: Operating current: 0.4A 3.5" LCD Screen: Television standard: PAI Horizontal frequency: 15625Hz Vertical frequency: 50Hz Band width: >5MHz Video signal: balanced Starting up time: 1 second

Number of bell rings: 2 (programmable)

Operating temperature: 0°÷+50°C Maximum admissible humidity: 90%RH

Terminals

- X Balanced negative video signal input
- Y Balanced positive video signal input
- F Ground
- H Positive voltage input (18-24Vdc)
- 10 Call, audio reception/transmission, door releasing
- 4 Control switching ON (button (3))
- 9R Electronic call input from other intercommunicating devices
- A1 Electronic floor call input
- L+ LED for open-door signalling or other functions
- V+ Positive voltage input for intercommunicating devices (15÷18Vdc)
- 1C Common contact for buttons P1 and P2
- P1 P2 Service buttons (max 50mA)
- 2C Common contact for buttons P3, P4, P5 and P6
- P3 ÷ P6 Service buttons (max 50mA)
- Electronic call input for intercommunicating calls (common contact for buttons P1÷P6 determined by the position of the jumpers J11 and J12)



How to select the function for buttons from 1 to 6

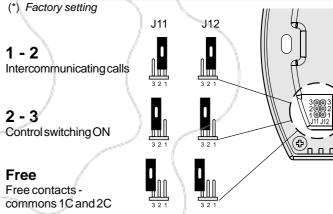
Buttons from 1 to 6 can be used for several functions, that is:

- intercommunicating calls;
- control switching ON of the video intercom when more than one external door station or extra surveillance cameras are present on the system;
- free voltage contacts for supplementary functions.

ATTENTION. The common contacts of the buttons are only two: one for the buttons 1 and 2, the other for the buttons 3,4,5 and 6, so at least only two of the three possible different operations described before can be achieved at the same time. When the buttons are used for intercommunicating calls or videointercom control switching ON the terminals 1C and 2C must remain unconnected.

Functions of buttons according to the position of jumpers J11 and J12

Push-buttons	Jumpers	Position	Function
1, 2	J12	1-2 2-3 (*) free	intercommunicating calls control switching ON free contacts (common 1C)
3, 4, 5, 6	J11	1-2 2-3 (*) free	intercommunicating calls control switching ON free contacts (common 2C)



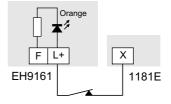
Supplementary functions

Floor call

For floor call feature make the connection as reported on page 87.

Door-open's warning and other functions

For door-open's warning or other similar functions connect a normally closed contact (NC) of a sensor or a relay between the terminal \mathbf{L} + of the videointercom and terminal \mathbf{X} of power supply $\mathbf{1181E}$.

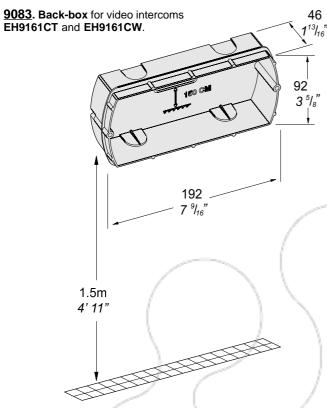


Closed contact the orange LED is ON. Open contact the orange LED is OFF.

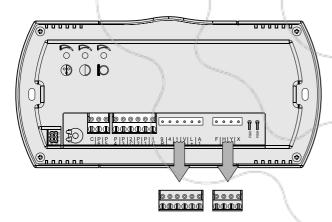




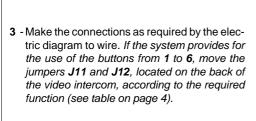
Flush mounted version



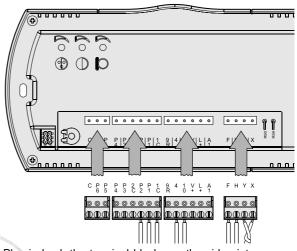
1 - Wall-up the back box art.9083 at an height of about 1.5 meters above the floor.



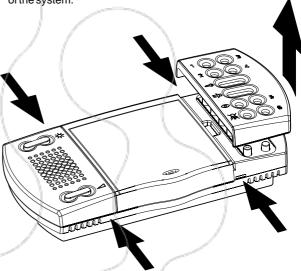
2 - Unplug the terminal block from the video intercom.



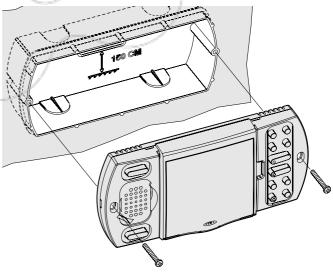




4 - Plug-in back the terminal blocks on the video intercom paying attention to their position and direction in order to avoid degradation of the system.



5 - Remove the two frontal plastic frames to approach the two fixing points of the video intercom.



6 - Fix the video intercom to the back box using the two screws supplied with the product.

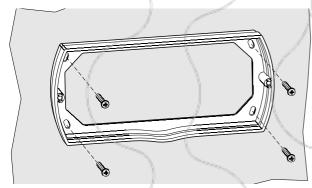




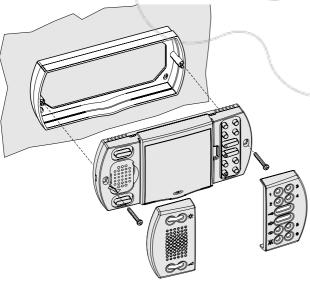
7 - Re-insert the two frontal plastic frames to the video intercom.

Surface mounted version

WA9100T. Wall adaptor for the EH9161CT videointercom. WA9100W. Wall adaptor for the EH9161CW videointercom.



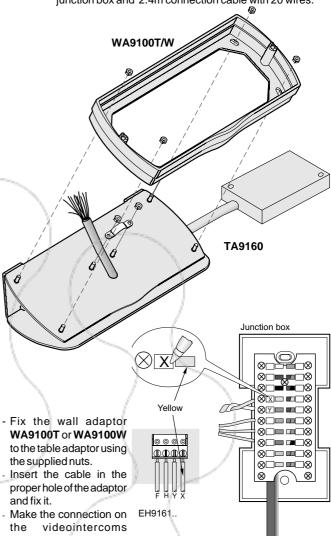
1 - Fix the adapter to the wall with 4 expansion plugs at approx. 1.5m from the floor.



2 - Fix the video intercom to the wall adaptor using the two screws supplied with the product.

Table version

 $\underline{\textbf{TA9160}}.$ Table adapter for Echos videointercoms. Complete with junction box and 2.4m connection cable with 20 wires.



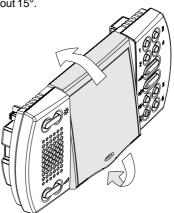
terminal boards and write

down the correspondence between terminals and wire's colour on the label on the junction box.

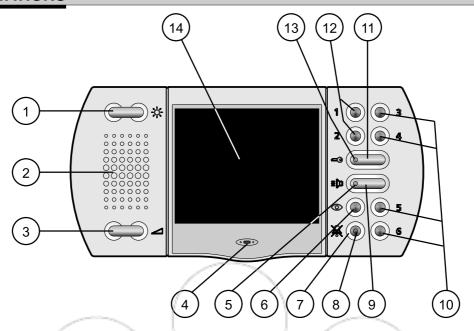
Fix the videointercom as shown in the figure 2 of this page.

Display adjustment

To optimize the angle of view of the display it can be adjusted up and down for about 15°.







Characteristics

- 1 Image brightness adjustment
- 2 Loudspeaker. It allows to hear the conversation and to receive the calls from the external door station, from other intercommunicating equipments or from local door station.
- (3) Call and communication **volume** adjustment ...
- 4 **Microphone**. It allows to talk with the door station or with other intercommunicating equipments
- 5 Green LED. The LED shows:
 - a communication in progress when it lights up continuously;
 - an intercommunicating call when it flashes.
- 6 Control switching ON button . It allows to power ON the video intercom and monitoring the entrance.
- 7 Mute button X. It allows to:
 - enable/disable the audio (microphone) to the door station during a conversation;
 - enable/disable the bell rings if pressed for less then 2 seconds after receiving a call or making a control switching ON function;
 - enter/exit the programming mode if pressed for more than 2 seconds.
- (8) Red LED. The LED shows:
 - temporary disabling of audio when it continuously lights-up. If audio is enabled again the LED recover the previous operating mode:
 - bell rings disabling. The LED flashes when a call is received and during the

conversation with an external door station or another intercommunicating equipment; - the videointercom is in programming operation mode when it is continuously lit-up.

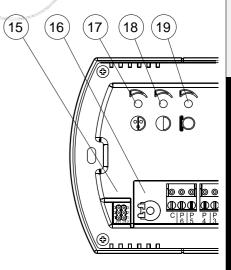
- (10) Buttons 3,4,5 and 6 are available for supplementary services. After positioning properly the jumper J11 they can be used for: -intercommunicating calls;

entrance systems;

- control switching ON function for multiple
- as free voltage contacts (max 50mA). These four buttons, having a shared common contact (terminal 2C), can be only used for one of the functions listed above at time.
- (1) Lock release button . It allows to operate the electric lock release either with the video intercom in ON or OFF state.
- (12) Buttons **1** and **2** are available for supplementary services. After positioning properly the **jumper J12** they can be used for:
 - -intercommunicating calls;
 - control switching ON function for multiple entrance systems;
 - as free voltage contacts (max 50mA). These four buttons, having a shared common contact (terminal 1C), can be only used for one of the functions listed above at time.
- (3) Orange LED. The LED lights-up when at the terminal L+ is connected a positive voltage (8÷12Vdc). To signal an open-door

state it is necessary to install to the door a proper sensor whose contacts must be a normally closed type (see page 4).

- (14) 3.5" Colour LCD Display.
- (15) **Jumpers** for **programming buttons** 1 to 6.
- (6) Microphone sensitivity adjustment MIC.SENS.
- (17) Colour adjustment (19).
- (18) Contrast adjustment (1).
- (9) Adjustment of the microphone amplifier .







ADJUSTMENTS

Brightness adjustment.

With the video intercom switched ON, press left and right the button to adjust the brightness of the image. To store the current setting press the button to this button switches OFF the video intercom.

Colour nad Contrast adjustment.

The trimmers are located on the back of the video intercom and can be operated by means of a small screwdriver. To adjust the trimmers is required:

- dismount the video intercom from the wall to accede to the adjustment points;
- -power ON the video intercom;
- -insert the screwdriver in the hole marked with the symbol of the adjustment required;
- -rotate the screwdriver clock or anti-clock wise to find the desired image quality;
- -fix again the video intercom to the wall.

Enabling, disabling and volume of the ringing sound.

To disable the ringing sound it is necessary, during a receiving call, to press momentarily the button **x**; the red LED flashes during the call and the conversation.

The status (enabled or disabled) and the level of the ringing sound are stored and they are used for next calls. If the ringing sound is disabled during a receiving call or during a communication the red LED will flash to indicate this status, but no LED indication will be present in stand-by mode. After connecting a positive 15÷18Vdc to the terminal V+ it will be possible to have the LED indication of the disabled ringing sound also with the video intercom in stand-by mode.

Setting of the audio volume

- With the video intercom switched ON, press the button to enable the communication. To set the receiving audio level (loudspeaker) press left and right the button . To store the selected level press the button . The pressure of this button switches OFF the video intercom.
- To set the amplifier's level of the microphone it is necessary to adjust the trimmer on the back of the videointercom.
- -In case of incorrect automatic switching of the video intercombetween talk and listening function decrease the level of the preferred function and increase the other one by acting on the button are or on the trimmer of the video intercom.

- -If required the communication the audio is intermittent or distorted it is advisable to adjust the microphone sensitivity by acting on the trimmer **MIC.SENS**. located on the back of the video intercom.
- -Attention. For a better setting of the audio levels on the video intercom adjust the microphone sensitivity of the door station to the minimum value and the loudspeakers volume to an intermediate value.
- -If there are intercommunicating devices adjust also their audio levels.

PROGRAMMING

In programming mode it is possible to select the duration and the ringer tone among 5 different possibilities.

To enter the programming mode it is required:

- -to switch ON the video intercompressing the button .
- -to keep pressed for more than 2 seconds the buttons **x**; a beep will confirm the correct operation and the red LED lights up.

Number of rings of the bell (external and intercommunicating calls)

After entering the programming mode it is necessary:

- to press the button to verify the number of the rings currently programmed;
- to press left and right the button
 d to respectively increase or decrease the number of rings. After each pressure of the button the selected number of rings will be heard;
- please keep the button pushed for more than 2 seconds or wait for the end of the programming time in order to make the changes confirmed and exit from the operation.

Ringer tone selection (call from door station) Once entering into programming mode, it is necessary:

- to push the * button in order to check the ringer tone now programmed;
- to push laterally (left or right side) the to button to select the previous or next ringer tone:
- after having selected the favorite ringer tone, keep the putton pushed for more than 2 seconds or wait for the end of the programming time to make the changes confirmed and exit from the operation.

OPERATIONS

Call from the door station

Making a call from the door station the video intercom will ring (according to the programming) or the red LED starts flashing if the bell rings has been disabled; on the display appears the image of the calling station. To start the communication press the button = 1 . If it is desired to disable the audio to the door station, but continuing hearing the audio from the door station press shortly the button 💥; in this status the red LED will light up continuously. To restore the audio to the door station press again the button X; the red LED will recover the previous status. To end the communication and switch OFF the video intercom press the button $\equiv \mathbf{b}$. The video intercom switches OFF automatically when the communication time expires or if from the door station a call to another user is made.

Control switching ON

The button and the buttons numbered from 1 to 6, if present and correctly programmed (see table on the page 4), allow to display the images (without audio) of the entrances presents in the system. Toget also the audio it is sufficient to press the button press it again to switch OFF the video intercom.

Control switching ON is allowed only when the system is in stand-by mode (no running communications); if, pressing the control switching ON buttons, the video intercom doesn't switch ON a communication between another user and the door station could be active.

Door lock release

To operate the electric door lock release press the button independently if the video intercom is switched ON or OFF.

If the system has more door stations the electric door lock release of the door station from which the last call has been made or to which a control switching ON has been directed will be activated.



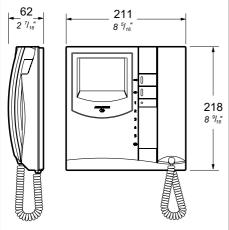


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VIDEOINTERCOMS



EX3160. White Flat videointercom with private audio-video function, electronic microphone, differentiated double electronic ringing sounds (modulated and continuous) and terminal board for the connection to the wall bracket. Equipped with led's and 2 buttons for camera control switch ON and door-open. Together with the videointercom there are 5 extra buttons which can be assembled in the proper slots (see page 10).

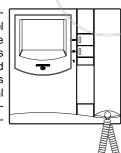
The videointercom can be fixed to the wall (flush-mounted) with the **WB3161** bracket.

Technical data

Power supply 12÷15Vdc Operating current 0.4A Monitor 4" FLAT CRT TV standard CCIR-625 lines Line frequency 15625Hz Frame frequency 50Hz >5MHz Bandwidth Video signal on 75Ω 0.8÷1.5Vpp Switching ON time 2 seconds Operating temperature 0°÷+50°C Maximum permissible humidity 90%RH

EX3160C. Version of **EX3160** videointercom with colour LCD.

EX3100C. It is different from the model EX3160C because of the lack of LED's and for the reduced number of buttons (only 3 for electrical lock release, monitoring and supplementary functions).



Technical data

Power supply 12÷15Vdc
Operating current
Screen
TV standard
Line frequency
Frame frequency
Bandwidth
Video signal on 75Ω

Bandwidth
Video signal on 75Ω
Switching ON time
Operating temperature
Maximum permissible humidity

0.4A 4" LCD PAL 15625Hz 50Hz >5MHz 0.8÷1.5Vpp 1 second 0°÷+50°C 90%RH WB3161. Wall bracket for EX3100C, EX3160 and EX3160C video intercoms with terminal boards for connection to the system and an electronic circuit to convert the video signal from coax cable to a balanced twisted pair.

Terminals

X Balanced negative video signal input

Y Balanced positive video signal input

F Ground

H Positive voltage input (+18-24Vdc)

10 Call, audio reception/transmission, door releasing

4 Control switching ON (button **(3)**)

A1 Electronic call input from other intercommunicating devices

1C Common contact for P1, P2, P3 (P2-P3 only for EX3160, EX3160C)

P1 Service button (max 0.3A)

P2 ÷ P5 (*) Service buttons (max 0.3A)

2C (*) Common contact for buttons P4 and P5

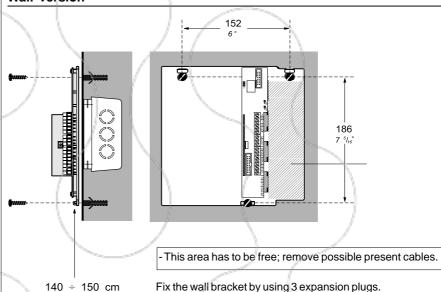
L1+ (*) Positive power supply input for red Led (+12Vdc)

L1- (*) Negative power supply input for red Led

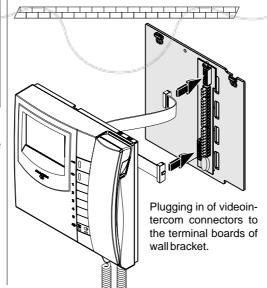
L+ Not connected

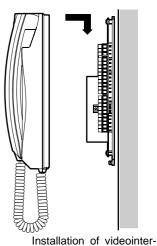
(*) Not connected in EX3100C videointercom.

Wall version



Don't shut the 3 screws of fixing if the wall is irregular. It is suggested to use a wall box to contain the extra wires.





com onto the wall bracket.

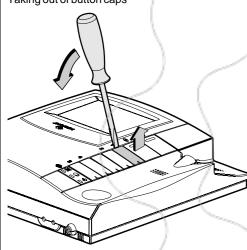




Installation of video-intercom onto the wall bracket.

Assembling of extra buttons to the videointercom EX3160 and EX3160C

Taking out of button caps



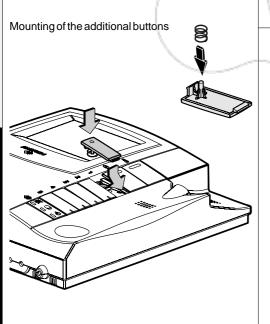
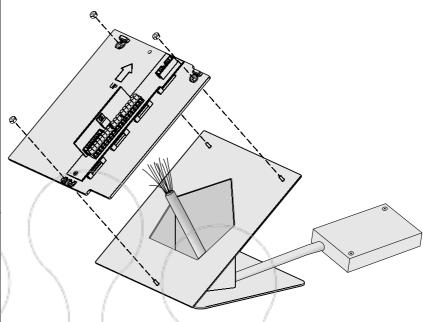
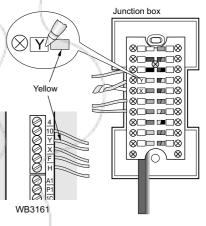


Table version

TA3160. Table adaptor with weighted base, junction box and 2.4m connection cable with 20 wires.



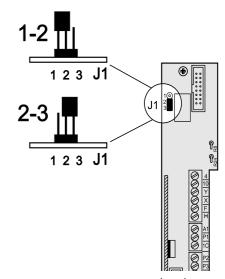
Remove the cover to the junction box and connect wires to the terminals matching the colour of wire with that of the label. Write in the proper space the code of the connection.



Choosing the private conversation or intercommunicating service

1-2 = Video intercom without audio privacy

2-3 = Video intercom with audio privacy



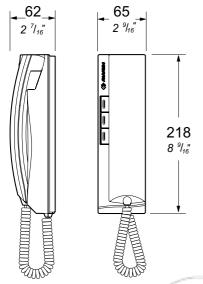


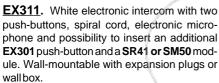


172.5

6 13/16

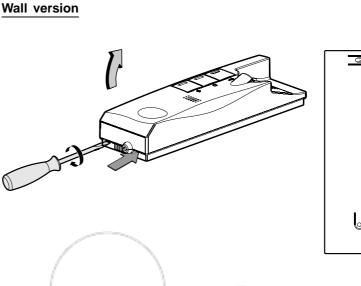
INTERCOMS

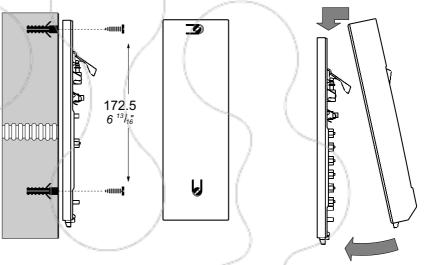




Terminals

- 1 audio line, bell and door release control
- 3 ground
- 6 output electronic bell *
- 7 ground. Connected to terminal 3 with jumper W1 *
- A1 floor call or intercommunicating call input
- P service push-button
- C common contact for P push-button
- * terminals to be used when installing the private conversation module **SM50** in the inter-





Accessories

EX301. Single button module for Exhito intercoms. Maximum contact current is 0.1A. For higher currents use a relay.

Note. For easier reference the 2 terminals of the module are defined as C and P, but they have no polarity and can be inverted.

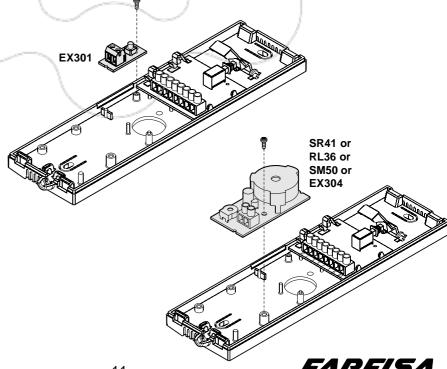
<u>EX304</u>. Additional loudspeaker module (*).

RL 36. Relay module (*).

SM50. Private conversation module (*).

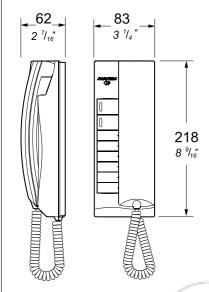
SR41. Electronic buzzer module (*).

(*) for the connections and the characteristics of the modules refer to page 13.





INTERCOMS



EX321. White colour intercom for 1+1 intercom systems and intercommunicating systems connected to 1 or more external door stations. Complete with spiral cord, electronic microphone and 2 buttons extendable to 8 by adding the **EX301** single button module.

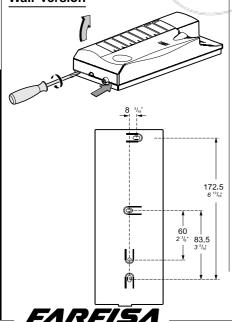
Possibility of inserting modules EX304, EX332, SR41, RL36 and SM50.

Wall-mountable with expansion plugs or wall box or on the desk using the table adaptor **TA320**.

Terminals

- 1 audio line, bell and door release control
- 3 ground
- 6 output electronic bell *
- 7 ground. Connected to terminal 3 with jumper W1 *
- A1 floor call or intercommunicating call input
- P service push-button
- C common contact for P push-button
- * terminals to be used when installing the private conversation module **SM50** in the intercom.

Wall version



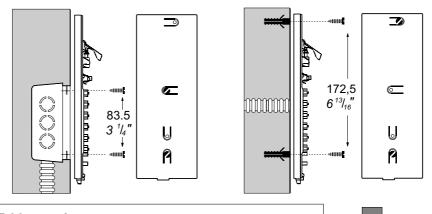
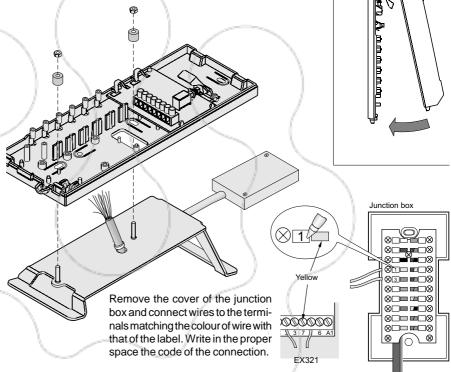
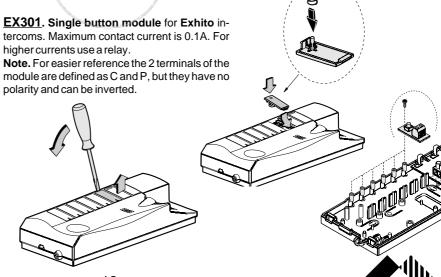


Table version

TA320. Table adaptor with weighted base, junction box and 2.4m connection cable with 20 wires.



Accessories

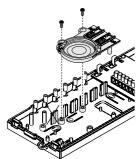


— 12 — (MT11 - Gb2012)

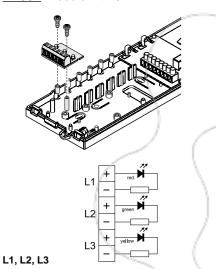
EX304. Additional loudspeaker. It allows to receive calls with off-hook handset, or in systems with 2 calls, with 1 single call and 1 call in common to other intercoms.

To install the module the last module holder on the intercombase must be removed (see draw-

ing). The article takes the space of 2 modules and therefore reduces the number of additional buttons to 4.

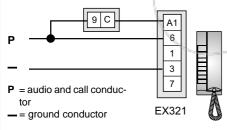


EX332. Module with 3 LED.



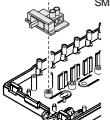
terminals input + / -: max 13Vac / 24Vdc

<u>ST703</u>. Ringing volume adjustment switch.



Note

Do not use this connection in intercoms where is already installed the module SM50.





3 levels to adjust ringing volume (off, medium and maximum) **RL36**. **Relay module.** When installed inside intercoms it allows to activate additional bells. Maximum switching current is 1A (24V).

Terminals

C common terminal of relay

NA normally open contact of relay

NC normally closed contact of relay

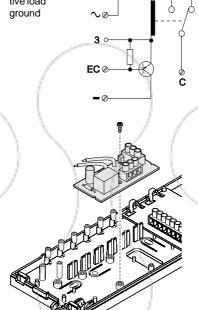
- ground

 \sim 13Vac/dc voltage input

EC relay activation input (ground command)

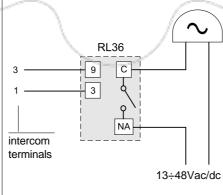
Wires

9 electronic call input without resistive load
3 ground

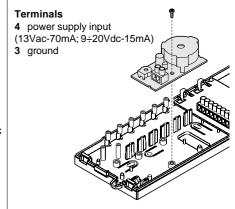


Additional bell connection

If the ringing volume is not sufficient or if you need to chime the call in a different place, you can add an additional bell enabled by a relay.



<u>SR41</u>. Electronic buzzer module. In the intercoms can be added for having a further call signal.



SM50. Private conversation module.

To have complete audio privacy between users it is necessary to add to each intercom the private conversation module.

The intercom can communicate with the outside (for an unlimited period) only after having received the call. The intercom becomes disactived when there is a call from another intercom or the door release push-button is pressed.

Terminals

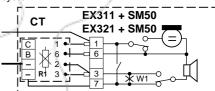
C audio line receiver

B audio line transmitter

- ground

Note

B and **C** terminals are unused in an 1+1 intercom system.

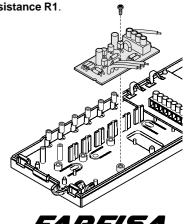


Votes

In each intercom **EX311** or **EX321** it is necessary:

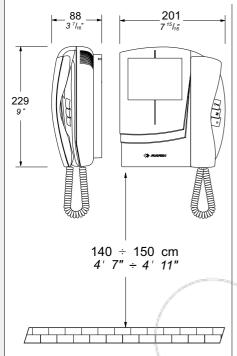
- to cut the jumper (W1) that links the terminals 3 and 7;
- to make the connection between terminal 7 of the intercom and the - (minus) of the private conversation module.

In all **SM50** private conversation modules **cut the resistance R1**.





VIDEOINTERCOMS



KM8111W. White flat video intercom with two buttons, one for control switch ON and one for door lock release, audio-video privacy, electronic microphone, electronic modulated call note, terminal board for the connection to the wall-bracket. It can be installed on the wall (with no built-in) by using the art.WB8111.

KM8111CW. Version with colour LCD.

WB8111. Wall-bracket for the KM8111W and KM8111CW video intercoms. It includes a terminal board for connection to the system.

Technical data

Power Supply 18÷24Vdc Operating current 0.5A Video tube (KM8111W) 4" FLAT CRT Screen (KM8111CW) 4" LCD Television standard (KM8111W) CCIR-625 lines Television standard (KM8111CW) PAL Horizontal frequency 15625Hz Vertical frequency 50Hz >5MHz Bandwidth Video signal balanced Starting up time (KM8111W) 2÷4 seconds Starting up time (KM8111CW) 1 second

Terminals

H Positive power supply input 18÷24Vdc-0.5A

0°-+50°C

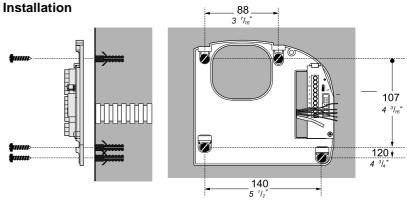
90%RH

- F Ground
- X and Y Video signal input

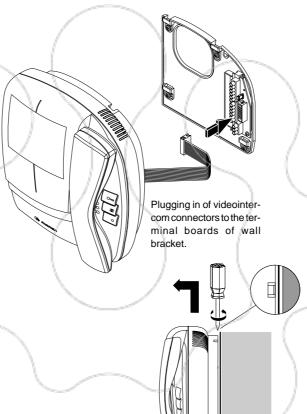
Operating temperature

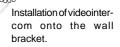
Max. permissible humidity

- 10 Call, audio reception/transmission, door releasing
- 4 Control switch ON button
- A1 Floor call input
- PC P Service push-buttons (max 0.3A)

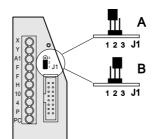


Fix the wall bracket by using 4 expansion plugs





Choosing the private conversation



Dismounting of videointer-

com from the wall bracket.

1-2 = Videointercom without audio privacy

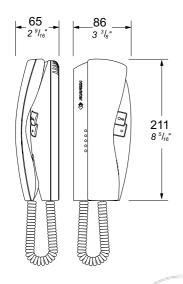
2-3 = Videointercom with audio privacy





M

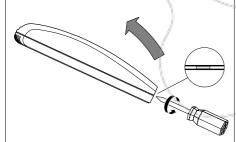
INTERCOMS

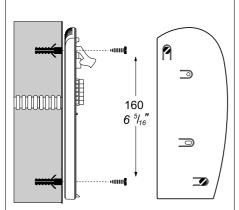


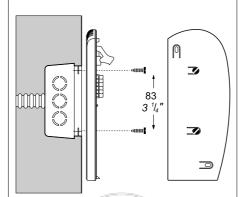
KM811W. White electronic intercom with 1 push-button, spiral cord, electronic microphone and possibility to insert an additional ST701 push-button and a SR41 or SM50 module (description and characteristics of the modules on page 13). Wall-mountable with expansion plugs or wall box.

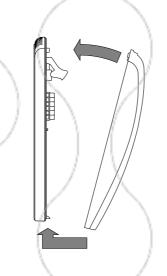
Terminals

- 1 audio line, bell and door release control
- 3 ground
- 6 output electronic bell *
- 7 ground. Connected to terminal 3 with jumper W1 *
- A1 floor call input
- * terminals to be used when installing the private conversation module **SM50** in the intercom.

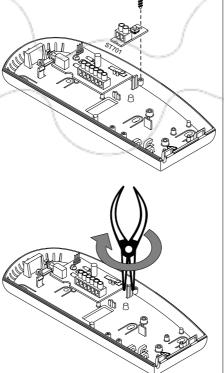




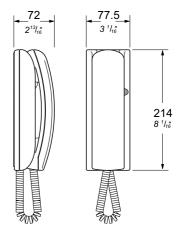




Mounting of the additional button ${\bf ST701}$.



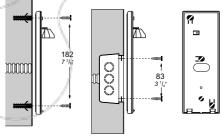


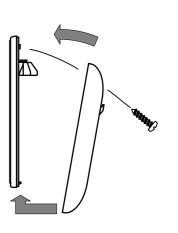


PT511EW. White electronic intercom with 1 push-button, spiral cord, electronic microphone and possibility to insert **SR41 or SM50** module (description and characteristics of the modules on page 13). Wall-mountable with expansion plugs or wall box.

Terminals

- 1 audio line, bell and door release control
- 3 ground
- 6 output electronic bell *
- 7 ground. Connected to terminal 3 with jumper W1 *
- A1 floor call input
- * terminals to be used when installing the private conversation module **SM50** in the intercom.

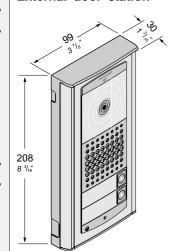




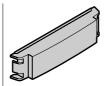




External door station

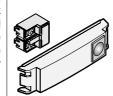


Surface mounting Door Stations with reduced width and thickness. Installation is easy and quick because no recessed box is required. Front plate is in extruded anodized aluminium. Name plates are backlighted with blue LED's for a better reading even in dark places. Reduced dimensions and surface mounting features make the product particularly suitable for the installations on the entry gate's post.



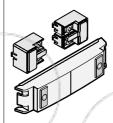
AG20. Blank module

AGL20. Light grey version.



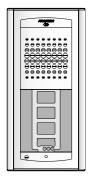
<u>AG21</u>. Single button module with name plate holder.

AGL21. Light grey version.



AG222. Double button unit with name plate holder.

AGL222. Light grey version.



AG100A. Audio Door Station composed of an ABS box for surface mounting, front plate in aluminium and electronic board with diodes and LED's for lighting the nameplates. Suitable for the **AG30ED** door speaker and maximum 4 **AG21** single pushbuttons or 4 **AG222** double push-buttons.

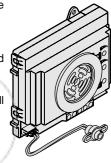
AGL100A. Light grey version.





Terminals

- A Alternated power supply input for audio and name-plate Led (13Vac-0.1A)
- Ground
- 1 Reception-transmission/door releasing/call
- S Electric lock





AG100V. Video Door Station composed of an ABS box for surface mounting, front plate in aluminium and electronic board with diodes and LED's for lighting the nameplates. Suitable for **AG40CED** colour camera with door speaker and maximum 2 **AG21** single push-button or 2 **AG222** double push-buttons.

AG100T. Push-buttons Door Station com-

posed of an ABS box for surface mounting, front

plate in aluminium and electronic board with diodes

and LED's for lighting the nameplates. Suitable for

8 AG21 single push-button or 8 AG222 double

AGL100V. Light grey version.



<u>AG40CED</u>. Colour camera with integrated door speaker to fit inside the Door Stations AG100V and AGL100V.

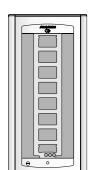
Technical data

18÷24VDC-0.21A Video power supply Audio power supply 13VAC-0,15A Video signal output balanced Video signal standard PAL Minimum lighting 2.5 Lux LED's 4 white Sensor CCD 1/3" Number of pixel 291,000 3.6mm Lens Focusing 0.6m ÷ ∞

Horizontal/vertical sweep ±10°

Operating temperature -10° ÷ +40°C

Maximum permitted humidity 80% RH



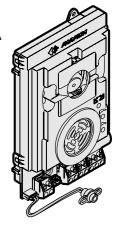
AGL100T. Light grey version.

<u>и и и и и и и и х</u> 2

Push-buttons.

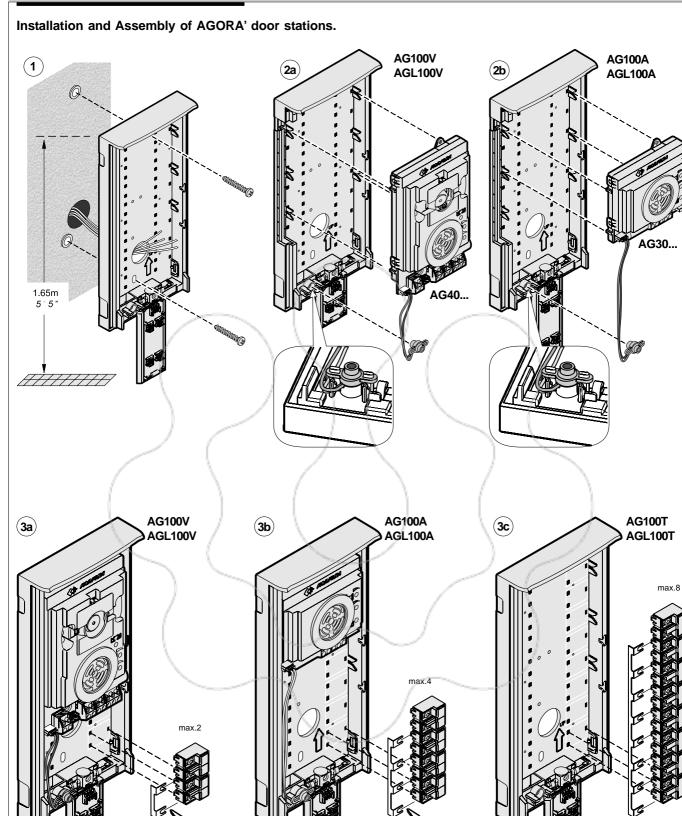


- H Positive voltage input for camera (18÷24Vdc)
- F Ground
- X Balanced negative video signal output
- Y Balanced positive video signal output
- A Alternated power supply input for audio and name-plate Led (13Vac)
- Ground
- 1 Reception-transmission/door releasing/call
- S Electric lock



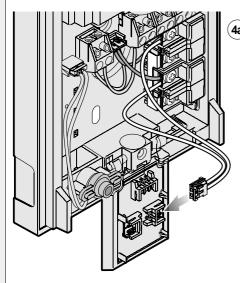




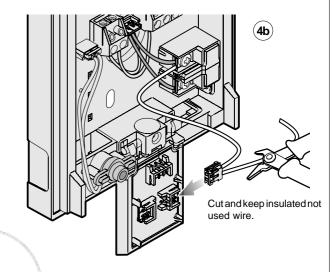


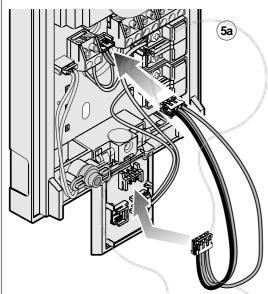


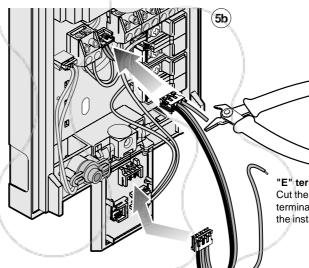




The wires of connection cable must be connected to the calling terminal (not to the common terminal).







"E" terminal.

Cut the red wire to get "E" terminal only if required by the installation diagram.

Adjustments AG30ED and AG40CED

Adjustments are carried out in the factory; should any be necessary they can be re-adjusted from the outside with a screwdriver with the trimmers identified by the symbols

Adjustment of volume

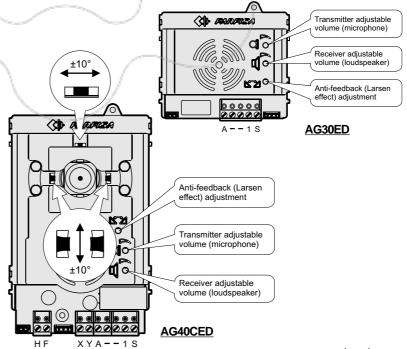
Rotate trimmer to change the volume of the receiving channel (loudspeaker).

Rotate trimmer to change the amplification of transmitting channel (microphone).

Anti-feedback adjustment

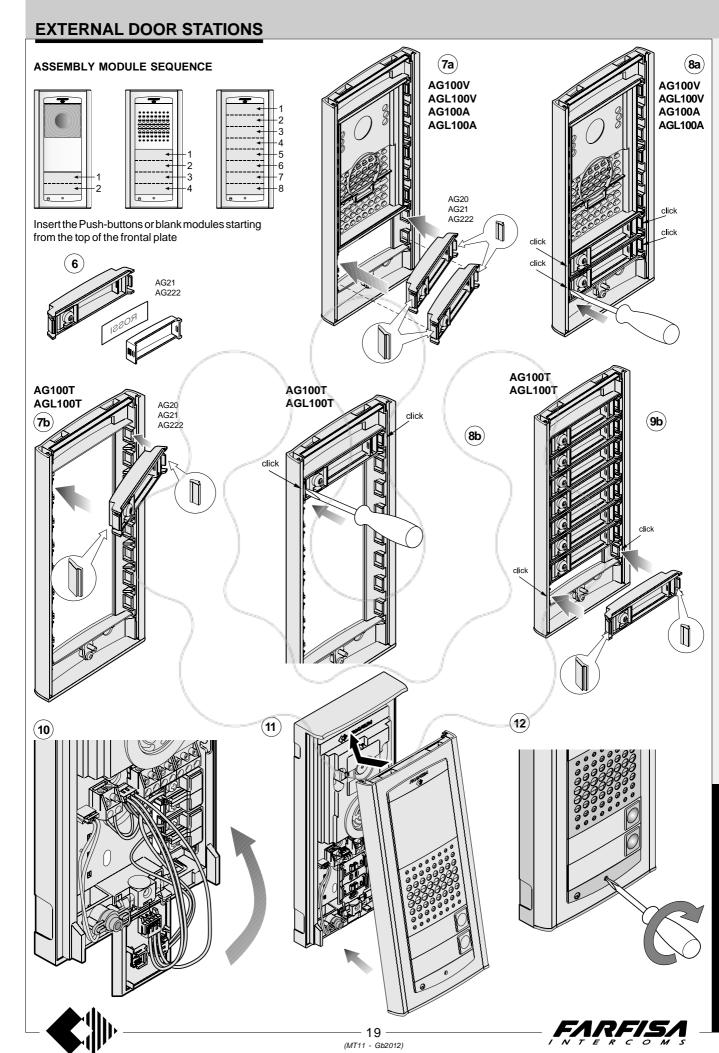
- Make a call from the door station and pick up the handset of one of the videointercoms.
- Remove the microphone from its housing inside the push-button panel, place it on the loudspeaker of the electric door answering system and adjust the trimmer until the feedback stops (Larsen effect).
- Replace the microphone in its housing.

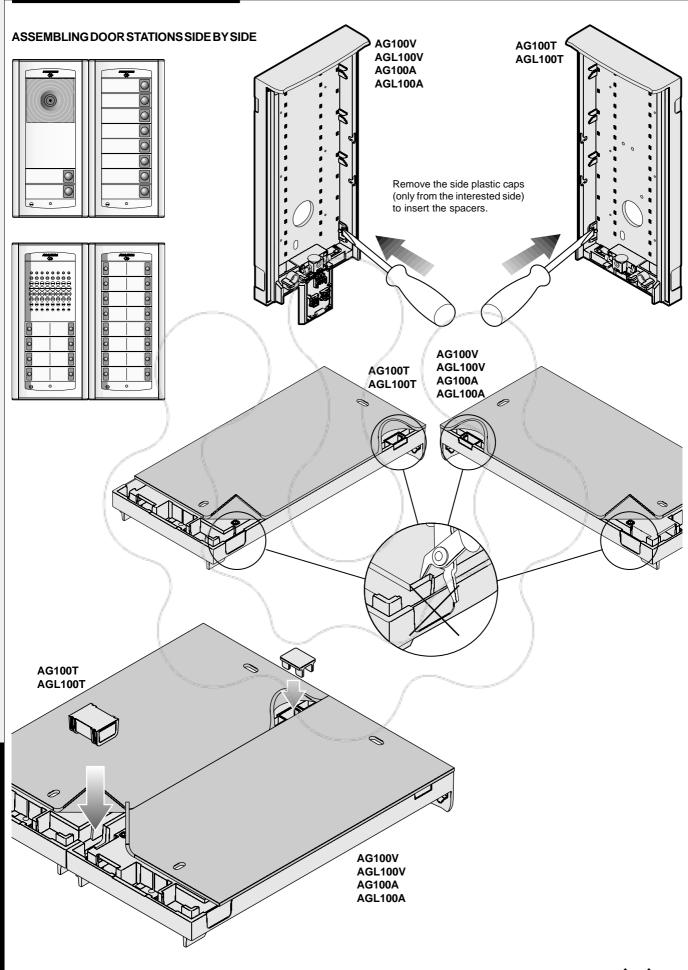
If necessary, you can manually change the camera framing by adjusting the horizontal and vertical levers in the desired direction (see figure).















Composition of door stations and requested quantities of modules

1 ROW VIDEOINTERCOM push-button panels

			•			
N. butt	ions	AG100V	AG40CED	AG100T	AG20	AG21
	1	1	1	-	1	1
	2	1	1	-	-	2
	3	1	1	1	7	3
	4	1	1	1	6	4
	5	1	1	1	5	5
	6	1	1	1	4	6
	7	1	1	1	3	7
	8	1	1	1	2	8
	9	1	1	1	1	9
	10	1	1	1	-	10
	11	1	1	2	7	11
	12	1	1	2	6	12
	13	1	1	2	5	13
	14	1	1	2	4	14
	15	1	1	2	3	15
	16	1	1	2	2	16
	17	1	1	2	1	17
	18	1	1	2	-	18
	19	1	1	3	7	19
	20	1	1	3	6	20
	21	1	100 T	3	5	21
	22	1 🥖	1	3	4	22
	23	1/	1	3	3	23
	24	1	1	3	2	24
	25	1	1	3	1	25
	26	1	1	3	- J	26
	27	1	1	4	7	27
	28	1	1	4	6	28
	29	1	1	4	5	29
	30	1 /	1	4	4	30
	31	1,50	1 /	4	3	31
	32	1	1 [4	2	32
1	33	1	1 \	4	1	33
	34	1	1 🚶	4	-	34

2 ROW VIDEOINTERCOM push-button panels

N. but	tons	AG100V	AG40CED	AG100T	AG20	AG222
	2	1	1	-	1	1
	4	1	1	-	-	2
	6	1	1	1	7	3
	8	1	1	1	6	4
	10	1	1	1	5	5
	12	1	1	1	4	6
	14	1	1	1	3	7
	16	1	1	1	2	8
	18	1	1	1	1	9
	20	1	1	1	-	10
	22	1	1	2	7	11
	24	1	1	2	6	12
	26	1	1	2	5	13
	28	1	1	2	4	14
	30	1	1	2	3	15
	32	1	1	2	2	16
The state of the s	34	1	1	2	1	17
The state of the s	36	1	1	2	-	18
1	38	1	1	3	7	19
1	40	1	1	3	6	20
	42	1000	1	3	5	21
	44	1	1	3	4	22
	46	1	1	3	3	23
	48	1	1	3	2	24
	50	1	1	3	1	25
	52	1	1	3	-	26
I/ \	54	1	_/1	4	7	27
	56	1	/1	4	6	28
	58	1	1	4	5	29
	60	1	1	4	4	30
	62	1	1,1	4	3	31
	64	1	100000	4	2	32
1	66	/ 1	1	4	1	33
1	68	/ 1	1	4	-	34

1 ROW INTERCOM push-button panels

N	l. buttons	AG1	00A AG3	0ED AG100T	AG20	AG21	
	1	1 1	1	1 -	3	1	
	7	2 1	1	/ -	2	2	
		3 1	. 1	\	1	3	
	_ _	1 1	1	Contract of the Contract of th	-	4	
		5 1	1	1	7	5	
	6	3 1	/ 1	1	6	6	
	7	7 1	/ 1	1	5	7	
	8	3 1	1	1	4	8	
	9) 1	1	1	3	9	
	10) 1	1	1	2	10	
	11	1	∖ 1	1	1	11	
	12	2 1	1	1	-	12	
	13	3 1	- 1	2	7	13	
	14	1	1	2	6	14	
	15	5 1	1	2	5	15	
	16	3 1	1	2	4	16	
	17	7 1	1	2	3	17	
	18	3 1	1	2	2	18	
	19) 1	1	2	1	19	
	20) 1	1	2	-	20	
	2	1	1	3	7	21	
	22	2 1	1	3	6	22	
	23	3 1	1	3	5	23	
	24	1	1	3	4	24	
	25	5 1	1	3	3	25	
	26	3 1	1	3	2	26	
	27	7 1	1	3	1	27	
	28		_	3	-	28	
	29) 1	1	4	7	29	
	30) 1	1	4	6	30	
	3′		1	4	5	31	
	32	2 1	1	4	4	32	
	33	3 1	1	4	3	33	
	34	1	1	4	2	34	
	35	5 1	1	4	1	35	
	20		1 4	1 4	1	26	

2 ROW INTERCOM push-button panels

N. but	tons	AG100A	AG30ED	AG100T	AG20	AG222
	2	1	1	-//	3	1
	4	1	1	Called Street of the last of t	2	2
	6	/ 1	Acres 1	-	1	3
	8	1	/ 1	-	-	4
, and the same of	10	1	1	1	7	5
	12	1	\ 1	1	6	6
	14	1	\1	1	5	7
	16	1	1	1	4	8
	18	1	1	1	3	9
	20	1	/1	1	2	10
	22	1	//1	1	1	11
	24	1	1	1	-	12
	26	1000	1	2	7	13
	28	1	1	2	6	14
	30	1	1	2	5	15
	32	1	1	2	4	16
	34	1	1	2	3	17
	36	1	1	2	2	18
	38	1	1	2	1	19
	40	1	1	2	-	20
	42	1	1	3	7	21
	44	1	1	3	6	22
	46	1	1	3	5	23
	48	1	1	3	4	24
	50	1	1	3	3	25
	52	1	1	3	2	26
	54	1	1	3	1	27
	56	1	1	3	-	28
	58	1	1	4	7	29
	60	1	1	4	6	30
	62	1	1	4	5	31
	64	1	1	4	4	32
	66	1	1	4	3	33
	68	1	1	4	2	34
	70	1	1	4	1	35
	72	1	1	4	-	36

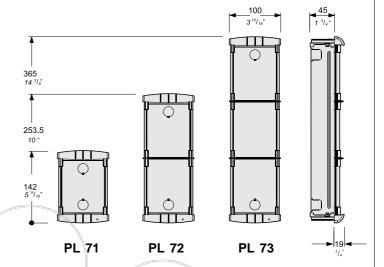




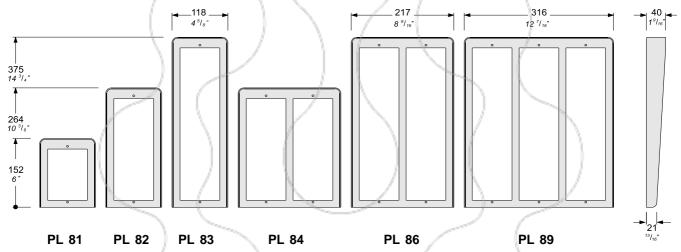
Push-button panels in extruded aluminium and steel push-buttons made up of modular elements. Suitable for the most diverse installation requirements. The careful selection of modules allows for multiple application opportunities; from one-way installations to blocks of flats; from intercom to video intercom installations.

The optimized size of modules allows for easy installation on the gage jamb.

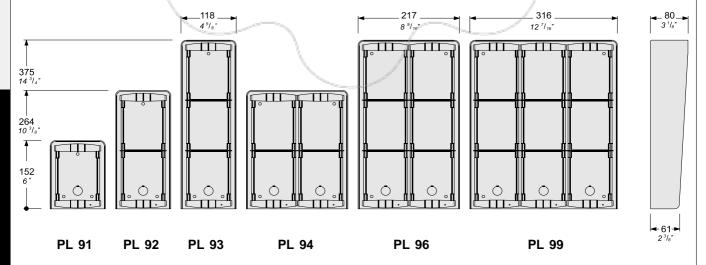
Module frames complete with back box



Hood covers



Rain shelters with module frames







EXTERNAL DOOR STATIONS

PROFILO push-button panel

Modules with integrated door speaker



PL10PED without call buttons



PL11PED with 1 call button



PL12PED with 2 call buttons



PL40PED without call buttons and with B\W camera



Video modules with integrated door speaker

PL41PED with 1 call button and B\W camera

PL41PCED

colour version



with 2 call buttons and B\W camera



PL42PCED colour version



PL 50 number module



PL 20 blank module

PL40PCED colour version

For specifications see page 24.

Push-button modules



PL 21 with 1 call button



PL 22 with 2 call buttons



PL 23 with 3 call buttons



PL 24 with 4 call buttons



PL226 with 6 call buttons (2 row)



PL228 with 8 call buttons (2 row)

Access control modules



FC 52PL Keypad module for access control (see characteristics on page 25).



FP 52PL
Proximity reader for access control (see characteristics on page 25).

Technical characteristics and terminal boards of the button modules

	N.			5		Si.	V.
PL21	PL22	PL23	PL24	PL226	PL228	PL50	
Ą	Ą	Ą	Α	√A	Ą	A	AC power supply input for nameplate
^L (25	5mA)		—— (50ı	mA)		(0.1A)	Led (13Vac)
-	-	and the same	-	-	-	-)	Ground
С	С	С	С	C/C2	C/C	2	Call push-buttons common
~ P1	P1	P1	P1	P1	P1		Call push-button
1	P2	P2	P2	P2 /	P2		Call push-button
	1	P3	P3	P3	Р3		Call push-button
	The same of	Salar Sa	P4	- and the	P4		Call push-button
				P5÷P7	7 P5÷	P7	Call push-buttons (C2 common)
					P8		Call push-button (C2 common)

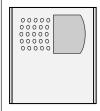
Technical characteristics and terminal boards of the audio-video modules

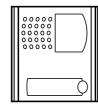
PL10PED	PL11PED	PL12PED	PL40PED	PL41PED	PL42PI	
			PL40PCED	PL41PCED	PL42P	CED
1	1	1	1	1	1	Reception-transmission; electric lock release; call
Е	E	E	Е	E	E	Reception-transmission; electric lock release
S	S	S	S	S	S	Electric lock
Α	Α	Α	Α	Α	Α	DC power supply input for door speaker and name-plate Led (13Vac-70mA)
-	-	-	-	-	-	Ground
-	С	С		С	С	Call push-buttons common
	P1	P1		P1	P1	Call push-button
		P2			P2	Call push-button
			Х	Х	Х	Negative video signal output
			Y	Υ	Υ	Positive video signal output
			Н	Н	Н	Positive voltage input for camera (18÷24Vdc)
			F	F	F	Video ground
L+	L+	L+	L+	L+	L+	DC power supply input for service Led (12Vdc)

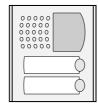




Video modules with integrated door speaker







PL40PED. Modules complete with:

- CCD color camera with autoiris and fixed 3.6mm lens.
- amplified speaker unit with volume adjustment of 2 channels (reception and transmission)
- aluminium front plate with transparent screen
- horizontal and vertical adjustments
- red operation LED

PL40PCED.

Colour version of the PL40PED model.

PL41PED.

Same as **PL40PED**, with 1 call button and name plate panel with transparent screen and green LED backlighting.

PL41PCED.

Colour version of the PL41PED model.

PL42PED.

Same as **PL40PED**, with 2 call buttons and name plate panel with transparent screen and green LED backlighting.

PL42PCED.

Technical data

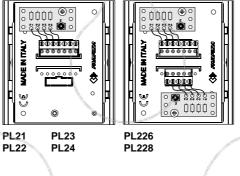
Colour version of the **PL42PED** model.

241DMA. Module with diodes for 4 users.

It allows for the use of the button modules PL21, PL22, PL23, PL24, PL226 and PL228 in the 1+1 intercom systems and 4+1 video intercom systems. It is fixed on the back of the button modules using the 2 supplied screws. Connect the conductors of the diode module to the corresponding terminal on button module; if modules with a reduced number of Push-buttons are used (PL21, PL22, PL23, PL226) do not connect and insulate the excess of wires.



Cut a portion of the metal terminals to connect the conductors to the terminal board of push buttons modules.



Testing and adjustments

Adjustments are carried out in the factory; should any be necessary they can be readjusted from the outside with a screwdriver with the trimmers identified by the symbols " — " and 🖾..."

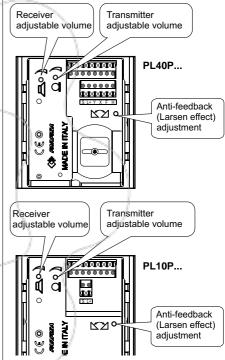
Volumes adjustment

To adjust the volume of microphone and loudspeaker, turn the trimmers and [.].

Antilocale adjustment

In case of "feedback" (Larsen effect) in the external unit it is necessary to operate as follow:

- make the call from the door station and lift the handset of an intercom or videointercom (press ≣ to for Echos series);

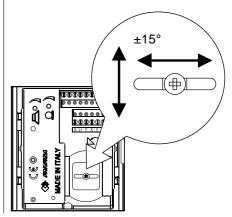


PL40PED-PL41PED-PL42PED PL42PED PL42PED

Camera power supply 18÷24Vdc-0.3A 18÷24Vdc-0.4A Audio power supply 13Vac-0.07A 13Vac-0.07A Video signal output balanced balanced Video signal standard **CCIR** PAL Minimum illumination 2.5 Lux 2Lux White balanced auto Led's 6 infrared 6 white CCD 1/4" B/W CCD 1/3" colour Sensor Number of pixels 291.000 291.000 Horizontal frequency 15,625Hz 15,625Hz Vertical frequency 50Hz 50Hz Lens 3.6mm 3.6mm Focus 0.1m ÷ ∞ 0.6m ÷ ∞ **Autoiris** electronic electronic ± 15° Horizontal adjustment ± 15° Vertical adjustment ± 15° ± 15° Operating temperature -10°÷+40°C -10°÷+40°C Maximum permissible humidity 80%RH 80%RH

Adjustments

You can manually change the camera framing by unloosening and adjusting the horizontal and vertical screws in the desired direction.







PROXIMITY READER FOR ACCESS | ACCESS CONTROL KEYPAD CONTROL



FP52PL

This article allows for the activation of 2 relays by means of keytags or electronic ISO cards based on transponder technology.

Programmable activation time from 1 to 63 seconds for every relay. 4 user cards and 1 master card supplied with the product. Acoustic and visual control signals and 3-digit display to view numbers and codes during set-up and operation.

Technical data

Power supply 12Vac/dc ±10% Stand-by current 0.1A Maximum current consumption 0.25A Contact ratings 24Vac - 2A Max. number of cards 490 Max. number of Master cards 10 Number of relays Relay time 1 to 63 sec. Minimum recognition distance 3 cm Maximum recognition time 1 sec.

Terminals

+/A positive or alternate current input -/A ground or alternate current input PB door open button

Operating temperature

Maximum permitted humidity

NC2 normally closed contact of relay 2 NA2 normally open contact of relay 2

C2 common terminal of relay 2

NC1 normally closed contact of relay 1

NA1 normally open contact of relay 1

C1 common terminal of relay 1



- Card recognition LED. It turns ON during card recognition.
- Relay activation LED. It indicates relay deactivation (red) or activation (green).
- Program LED. It turns ON during system programming.
- Card cancellation and system setup LED. It turns ON during Master or user card cancellation and system setup.



FC 52PL.

Access control keypad with 12 digits and 2 relays for lock release. 4 programmable access codes for each relay. Programmable door opening time from 1 up 99 sec. for each relay (or bistable operation of relay 1). Acoustic and visual confirmation for entered keys, accepted programming and for wrong codes.

Technical data

Power supply: 12Vac/dc ±10% Stand-by current: 0.06A Maximum current consumption: 0.15A Contact ratings: 12Vac-2A Numbers of codes for relays 1: 12 or direct activation Numbers of codes for relays 2:

12 or direct activation

Activation time for each relay: from 1 to 99 sec. (or bistable relay 1)

Operating temperature: 0° ÷ +40°C Maximum permissible humidity: 85% RH

Terminals

0° ÷ +40°C

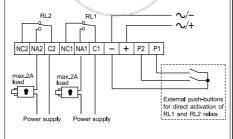
85% RH

NC2 normally closed contact of relay 2 NA2 normally open contact of relay 2 C2 common contact of relay 2 normally closed contact of relay 1 NC₁ NA₁ normally open contact of relay 1

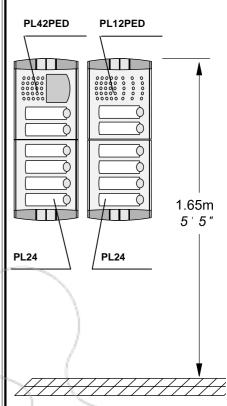
C1 common contact of relay 1 ground or alternate voltage input positive or alternate voltage input

P2 activation of the relay 2; if momentarily connected to ground it allows the activation for the programmed time

P1 activation of the relay 1; if momentarily connected to ground it allows the activation for the programmed time



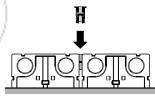
INSTALLATION

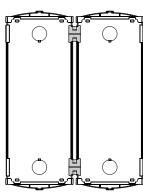


Place the push-button panel back box at a height of about 1.65m (5' 5") from the floor keeping the front edges flush-mounted and vertical to the finished plaster.

Position the camera in such a way that sunlight or other direct or reflected light sources with high intensity do not hit the camera lens.

Assembling modules side by side

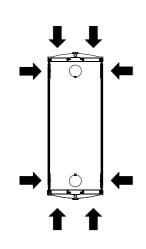




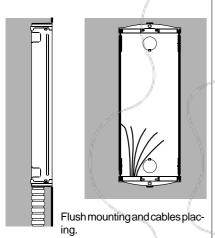
Insertion of spacers between back boxes. Spacers and cable bushing (not supplied with the products) must be inserted before brick



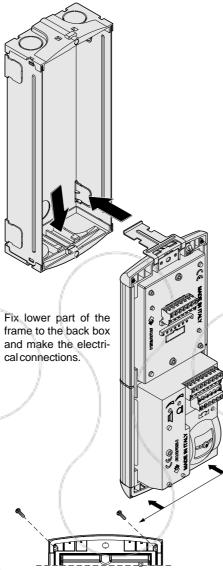




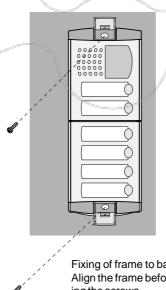
Openings for cables.



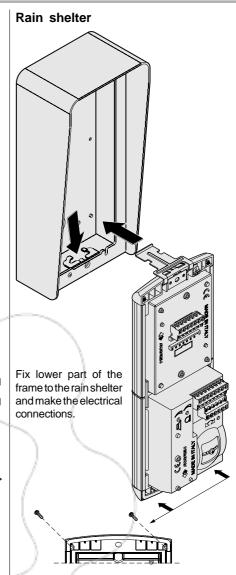
Mounting of module.



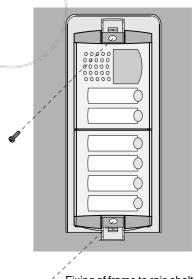
Fixing of module frames to the upper side by the 2 small screws included in the back boxes.



Fixing of frame to back box. Align the frame before tightening the screws.



Fixing of module frames to the upper side by the 2 small screws included in the rain shelter.



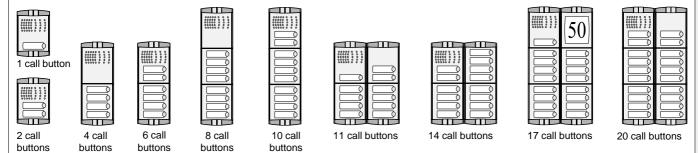
Fixing of frame to rain shelter. Align the frame before tightening the screws.

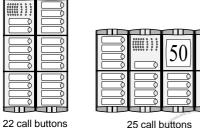




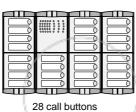
1 ROW PUSH BUTTON PANELS

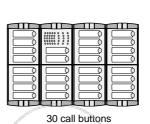
Examples of compositions in intercom systems

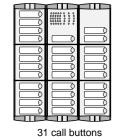


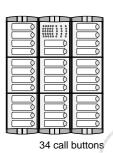


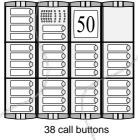


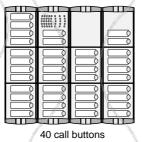


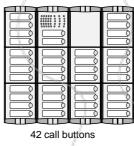


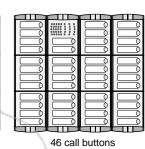












Composition board of Profilo push-button panels.

N° calls	Dimensions	Door speaker module (ampl.)	10.	nk or informa- nodules	4 diode module	Back box and module frame	Rain shelters
	"The same of the s	1	tionn	Charles and the same of the sa	module		
1	100x142x19 (3 15/ ₁₆ " x 5 9/ ₁₆ " x 3/ ₄ ")	1 PL11PED	-	-	- Committee Control of the Control o	1 PL71 (**)	1 PL91
2	(5 / ₁₆ × 5 / ₁₆ × / ₄)	1 PL12PED	-	-	-	1 PL71 (**)	1 PL91
4	100x253,5x19	1 PL10PED	1 PL24	- /	1 241DMA	1 PL72 (**)	1 PL92
6	$(3^{15}/_{16}" \times 10" \times ^{3}/_{4}")$	1 PL12PED	1 PL24	- /	1 241DMA	1 PL72 (**)	1 PL92
8	100x365x19	1 PL10PED	2 PL24	The same of the sa	2 241DMA	1 PL73 (**)	1 PL93
10	$(3^{15}/_{16}" \times 14^3/_8" \times 3^4/_4")$	1 PL12PED	2 PL24	-	2 241DMA	1 PL73 (**)	1 PL93
11	200x253,5x19	1 PL11PED	2 PL24	1 PL22	3 241DMA	2 PL72 (**)	1 PL94
14	$(7^{7/8}" \times 10" \times ^{3/4}")$	1 PL12PED	3 PL24	- /	3 241DMA	2 PL72 (**)	1 PL94
17		1 PL11PED	4 PL24	1 PL20 (*)	4 241DMA	2 PL73 (**)	1 PL96
20	200x365x19 (7 ⁷ / ₈ " x 14 ³ / ₈ " x ³ / ₄ ")	1 PL12PED	4 PL24	1 PL22	5 241DMA	2 PL73 (**)	1 PL96
22	. 0 0 4.	1 PL12PED	5 PL24	-	5 241DMA	2 PL73 (**)	1 PL96
25		1 PL11PED	6 PL24	1 PL20 (*)	6 241DMA	4 PL72	-
28	400x253,5x19 (15 ³/₄" x 10" x ³/₄")	1 PL10PED	7 PL24	-	7 241DMA	4 PL72	-
30		1 PL12PED	7 PL24	-	7 241DMA	4 PL72	-
31	300x365x19	1 PL11PED	7 PL24	1 PL22	8 241DMA	3 PL73 (**)	1 PL99
34	$(11^{13}/_{16}" \times 14^{3}/_{8}" \times 3^{3}/_{4}")$	1 PL12PED	8 PL24	-	8 241DMA	3 PL73 (**)	1 PL99
38		1 PL12PED	9 PL24	2 PL20 (*)	9 241DMA	4 PL73	-
40	400x365x19	1 PL10PED	10 PL24	1 PL20 (*)	10 241DMA	4 PL73	-
42	$(15^{3}/_{4}" \times 14^{3}/_{8}" \times {}^{3}/_{4}")$	1 PL12PED	10 PL24	1 PL20 (*)	10 241DMA	4 PL73	-
46		1 PL12PED	11 PL24	-	11 241DMA	4 PL73	-

^(**) If requested the hood covers can be added (see on page 22)

(*) or PL50

It replaces PL71, PL72 or PL73

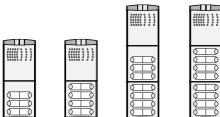


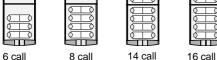


buttons

2 ROW PUSH BUTTON PANELS

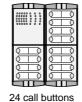
Examples of compositions in intercom systems

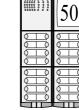


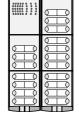


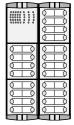
buttons







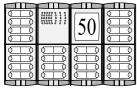




32 call buttons

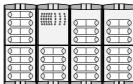
36 call buttons

40 call buttons



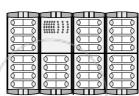
buttons

48 call buttons

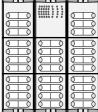


buttons

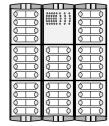
52 call buttons



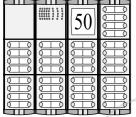
56 call buttons



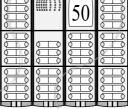
60 call buttons



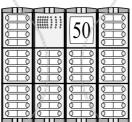
64 call buttons



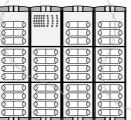
72 call buttons



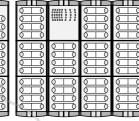
78 call buttons



80 call buttons



82 call buttons



88 call buttons

Composition board of Profilo push-button panels.

N° calls	Dimensions	Door speaker module (ampl.)	Button, blank or information modules	4 diode module	Back box and module frame	Rain shelters
6	100x253,5x19	1 PL10PED	1 PL226 -	2 241DMA	1 PL72 (**)	1 PL92
8	$(3^{15}/_{16}" \times 10" \times ^{3}/_{4}")$	1 PL10PED	1 PL228 -	2 241DMA	1 PL72 (**)	1 PL92
14	100x365x19	1 PL10PED	1 PL228 1 PL226	4 241DMA	1 PL73 (**)	1 PL93
16	$(3^{15}/_{16}" \times 14^{3}/_{8}" \times {}^{3}/_{4}")$	1 PL10PED	2 PL228 -	4 241DMA	1 PL73 (**)	1 PL93
20	200x253,5x19	1 PL10PED	1 PL228 2 PL226	6 241DMA	2 PL72 (**)	1 PL94
24	$(7^{7}/_{8}" \times 10" \times {}^{3}/_{4}")$	1 PL10PED	3 PL228 -	6 241DMA	2 PL72 (**)	1 PL94
32	No. of the last of	1 PL10PED	4 PL228 1 PL20 (*)	8 241DMA	2 PL73 (**)	1 PL96
36	200x365x19 (7 ⁻⁷ / ₈ " x 14 ³ / ₈ " x ³ / ₄ ")	1 PL10PED	3 PL228 2 PL226	10 241DMA	2 PL73 (**)	1 PL96
40		1 PL10PED	5 PL228 -	10 241DMA	2 PL73 (**)	1 PL96
48	400x253,5x19	1 PL10PED	6 PL228 1 PL20 (*)	12 241DMA	4 PL72	-
52	$(15^{3}/_{4}" \times 10" \times ^{3}/_{4}")$	1 PL10PED	5 PL228 2 PL226	14 241DMA	4 PL72	-
56		1 PL10PED	7 PL228 -	14 241DMA	4 PL72	-
60		1 PL10PED	6 PL228 2 PL226	16 241DMA	3 PL73 (**)	1 PL99
62	300x365x19 (11 ¹³ / ₁₆ " x 14 ³ / ₈ " x ³ / ₄ ")	1 PL10PED	7 PL228 1 PL226	16 241DMA	3 PL73 (**)	1 PL99
64	. 10 0 47	1 PL10PED	8 PL228 -	16 241DMA	3 PL73 (**)	1 PL99
72		1 PL10PED	9 PL228 2 PL20 (*)	18 241DMA	4 PL73	-
78		1 PL10PED	9 PL228 1 PL226 1 PL20 (*)	20 241DMA	4 PL73	-
80	400x365x19 (15 ³/₄" x 14³/₅" x ³/₄")	1 PL10PED	10 PL228 1 PL20 (*)	20 241DMA	4 PL73	-
82	(137 ₄ × 147 ₈ × 7 ₄)	1 PL10PED	8 PL228 3 PL226	22 241DMA	4 PL73	-
88		1 PL10PED	11 PL228 -	22 241DMA	4 PL73	-

^(**) If requested the hood covers can be added (see on page 22)

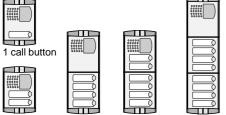
(*) or PL50

It replaces PL72 or PL73



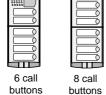


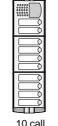
1 ROW PUSH BUTTON PANELS Examples of compositions in videointercom systems 00000



4 call

buttons

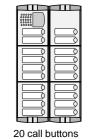








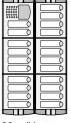




10 call 11 call buttons buttons

14 call buttons

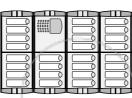
17 call buttons

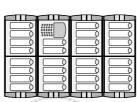


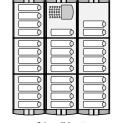
2 call

buttons









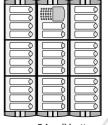
22 call buttons

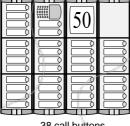
25 call buttons

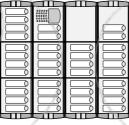
28 call buttons

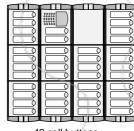
30 call buttons

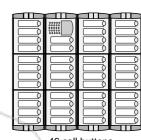
31 call buttons











34 call buttons

38 call buttons

PL41PCED.

PL42PCED

40 call buttons

42 call buttons

46 call buttons

Composition board of Profilo push-button panels.

	1	. /	6		1		
N° calls	Dimensions	Camera and door speaker module	104	nk or informa- nodules	4 diode module	Back box and module frame	Rain shelters
1	100x142x19	1 PL41PED	-	-		1 PL71 (**)	1 PL91
2	$(3^{15}/_{16}" \times 5^{9}/_{16}" \times 3^{3}/_{4}")$	1 PL42PED	-	-	and the second	1 PL71 (**)	1 PL91
4	100x253,5x19	1 PL40PED	1 PL24	- /	1 241DMA	1 PL72 (**)	1 PL92
6	$(3^{15}/_{16}" \times 10" \times ^{3}/_{4}")$	1 PL42PED	1 PL24	- /	1 241DMA	1 PL72 (**)	1 PL92
8	100x365x19	1 PL40PED	2 PL24	The state of the s	2 241DMA	1 PL73 (**)	1 PL93
10	$(3^{15}/_{16}" \times 14^{3}/_{8}" \times 3^{3}/_{4}")$	1 PL42PED	2 PL24	-	2 241DMA	1 PL73 (**)	1 PL93
11	200x253.5x19	1 PL41PED	2 PL24	1 PL22	3 241DMA	2 PL72 (**)	1 PL94
14	$(7^{7}/_{8}" \times 10" \times ^{3}/_{4}")$	1 PL42PED	3 PL24	- /	3 241DMA	2 PL72 (**)	1 PL94
17		1 PL41PED	4 PL24	1 PL20 (*)	4 241DMA	2 PL73 (**)	1 PL96
20	200x365x19 (7 ⁷ / ₈ " x 14 ³ / ₈ " x ³ / ₄ ")	1 PL42PED	4 PL24	1 PL22	5 241DMA	2 PL73 (**)	1 PL96
22	(/ / ₈ X 14 / ₈ X / ₄ /	1 PL42PED	5 PL24	-	5 241DMA	2 PL73 (**)	1 PL96
25		1 PL41PED	6 PL24	1 PL20 (*)	6 241DMA	4 PL72	-
28	400x253,5x19 (15³/," x 10" x³/,")	1 PL40PED	7 PL24	-	7 241DMA	4 PL72	-
30		1 PL42PED	7 PL24	-	7 241DMA	4 PL72	-
31	300x365x19	1 PL41PED	7 PL24	1 PL22	8 241DMA	3 PL73 (**)	1 PL99
34	$(11^{13}/_{16}" \times 14^{3}/_{8}" \times {}^{3}/_{4}")$	1 PL42PED	8 PL24	-	8 241DMA	3 PL73 (**)	1 PL99
38		1 PL42PED	9 PL24	2 PL20 (*)	9 241DMA	4 PL73	_
40	400x365x19	1 PL40PED	10 PL24	1 PL20 (*)	10 241DMA	4 PL73	-
42	$(15^{3}/_{4}" \times 14^{3}/_{8}" \times {}^{3}/_{4}")$	1 PL42PED	10 PL24	1 PL20 (*)	10 241DMA	4 PL73	-
46		1 PL42PED	11 PL24	-	11 241DMA	4 PL73	-
(**) If requested the hood covers can		or PL40PCED,		(*) or PL50			It replaces



be added (see on page 22)



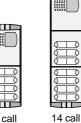
PL71, PL72 or PL73

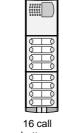
2 ROW PUSH BUTTON PANELS

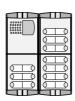
Examples of compositions in videointercom systems



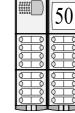


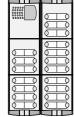


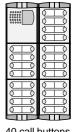












6 call buttons

8 call buttons



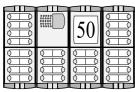
buttons

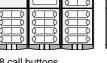
buttons

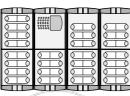
20 call buttons 24 call buttons

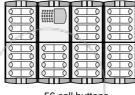
32 call buttons 36 call buttons

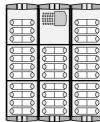
40 call buttons

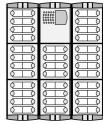












48 call buttons

52 call buttons

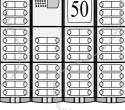
56 call buttons

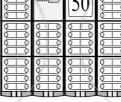
60 call buttons

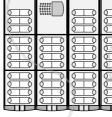
64 call buttons

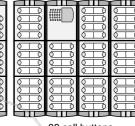
Ø (C	0 0	J
999		
PPPP		











78 call buttons

80 call buttons

82 call buttons

88 call buttons

Composition board of Profilo push-button panels.

N° calls	Dimensions	Camera and door speaker module	Button, blank or information modules	4 diode module	Back box and module frame	Rain shelters
6	100x253,5x19	1 PL40PED	1 PL226 -	2 241DMA	1 PL72 (**)	1 PL92
8	$(3^{15}/_{16}" \times 10" \times 3/_{4}")$	1 PL40PED	1 PL228 -	2 241DMA	1 PL72 (**)	1 PL92
14	100x365x19	1 PL40PED	1 PL228 1 PL226	4 241DMA	1 PL73 (**)	1 PL93
16	$(3^{15}/_{16}" \times 14^{3}/_{8}" \times {}^{3}/_{4}")$	1 PL40PED	2 PL228 -	4 241DMA	1 PL73 (**)	1 PL93
20	200x253,5x19	1 PL40PED	1 PL228 2 PL226	6 241DMA	2 PL72 (**)	1 PL94
24	$(7^{7/8}" \times 10" \times 3/4")$	1 PL40PED	3 PL228 -	6 241DMA	2 PL72 (**)	1 PL94
32	The state of the s	1 PL40PED	4 PL228 1 PL20 (*)	8 241DMA	2 PL73 (**)	1 PL96
36	200x365x19 (7 ⁷ / ₈ " x 14 ³ / ₈ " x ³ / ₄ ")	1 PL40PED	3 PL228 2 PL226	10 241DMA	2 PL73 (**)	1 PL96
40		1 PL40PED	5 PL228 -	10 241DMA	2 PL73 (**)	1 PL96
48	400.050.5.40	1 PL40PED	6 PL228 1 PL20 (*)	12 241DMA	4 PL72	-
52	400x253,5x19 (15 ³/₄" x 10" x ³/₄")	1 PL40PED	5 PL228 2 PL226	14 241DMA	4 PL72	-
56		1 PL40PED	7 PL228 -	14 241DMA	4 PL72	-
60	300x365x19	1 PL40PED	6 PL228 2 PL226	16 241DMA	3 PL73 (**)	1 PL99
62	$(11^{13}/_{16}" \times 14^{3}/_{8}" \times 3^{3}/_{4}")$	1 PL40PED	7 PL228 1 PL226	16 241DMA	3 PL73 (**)	1 PL99
64		1 PL40PED	8 PL228 -	16 241DMA	3 PL73 (**)	1 PL99
72		1 PL40PED	9 PL228 2 PL20 (*)	18 241DMA	4 PL73	-
78		1 PL40PED	9 PL228 1 PL226 1 PL20(*)	20 241DMA	4 PL73	-
80	400x365x19 (15 ³ / ₄ " x 14 ³ / ₆ " x ³ / ₄ ")	1 PL40PED	10 PL228 1 PL20 (*)	20 241DMA	4 PL73	-
82		1 PL40PED	8 PL228 3 PL226	22 241DMA	4 PL73	-
88		1 PL40PED	11 PL228 -	22 241DMA	4 PL73	-
			(*) or PL50			It replaces

(**) If requested the hood covers can be added (see on page 22)



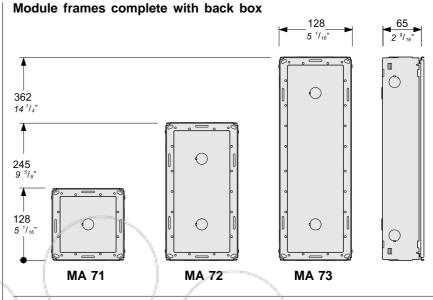


PL72 or PL73

Stainless steel (AISI 316L) anti-vandalism pushbutton panels especially studied to withstand burglary, penetration of solids and water jets (IP 45 protection degree against the penetration of external solids and water; IK09 against shocks). The Matrix push-button panels include back boxes, module frames, die-cast aluminium decorative frames, button modules, and modules with built-in speaker unit (with or without camera).

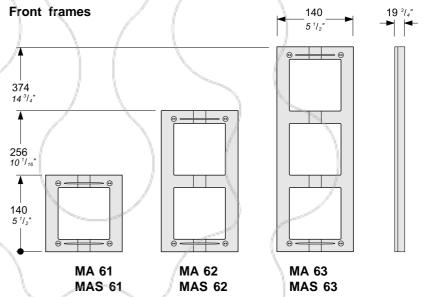
The careful selection of modules allows for multiple application opportunities; from one-way installations to blocks of flats; from intercom to video intercom installations.

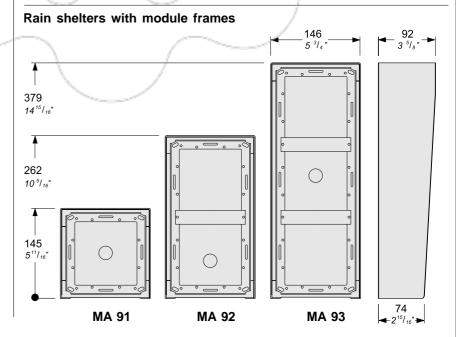
The push-button elements have been developed to allow both for horizontal and vertical configuration.





Notice! To maintain the brilliance of door station plates, periodic cleaning with specific products for stainless steel is required.

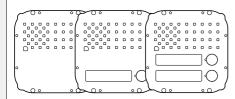








AMPLIFIED DOOR STATIONS



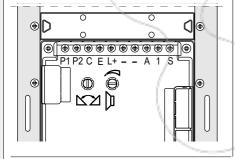
MAS10PED. Audio module without push-buttons. Complete with amplified door speaker in two channels and control of volume of "receiver", stainless steel front plate and red operation LED.

MAS11PED. They are different from the previous model for the presence of **a calling push-button** and nameplate, realized with vandal proof polycarbonate and backlighted with green LED's.

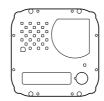
MAS12PED. Module with 2 call buttons.

Terminal

- A Supply 13VAC-70mA
- Ground
- 1 Reception-transmission; electric lock release; call
- S Flectric lock
- E Reception-transmission; electric lock release P1-P2 Call push-buttons
- C Call push-buttons common
- L+ DC power supply input for service Led



CAMERAS



MAS43ED.

B/W camera module for 4+1 video systems without coaxial cable, including:

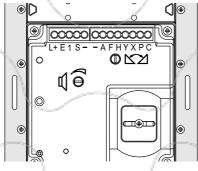
- solid-state CCD camera, with auto iris, 3.6mm fixed optics and 6 infrared LED's;
- stainless steel front plate complete with transparent anti-temper screen, steel call button with corresponding name plate holder;
- horizontal/vertical adjustment;
- red operation LED;
- amplified door speaker.

MAS43CED.

Colour version of the MAS43ED model.

Terminals

- Supply 13VAC-70mA
- Ground
- Reception-transmission; electric lock release; call
- S Electric lock
- Reception-transmission; electric lock release
- P Call push-button
- C Call push-button common
- L+ DC power supply input for service Led
- Y Positive video signal output
- F Ground
- X Negative video signal output
- H Positive power supply input 21Vdc



chnical data MAS43ED

Technical data	MAS43E		
Power supply	18÷24Vd		
Operating current	0.3A		
Video signal output	balanced		
Video signal standard	CCIR		
Minimum illumination	2 Lux		
White balanced	-		
Sensor	CCD 1/4"		
Number of pixels	291,000		
Horizontal frequency	15,625Hz		
Vertical frequency	50Hz		
Lens	3.6mm		
Focus	0,1m ÷ ∞		
Autoiris	electronic		
Horizontal adjustment	± 15°		
Vertical adjustment	± 15°		
Operating temperature	-10°÷+40		
Maximum permissible humidity	80%RH		

MAS43CED

.022	
4Vdc	18÷24Vdc
	0.4A
iced	balanced
	PAL
	2.5 Lux
	auto
1/4" B/W	CCD 1/3" coloui
000	291,000
25Hz	15,625Hz
	50Hz
m	3.6mm
÷ ∞	0,6m ÷ ∞
onic	electronic
	± 15°
	± 15°
+40°C	-10°÷+40°C
RH	80%RH

Testing and adjustments

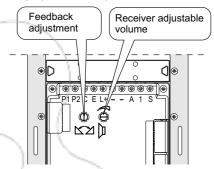
Volume adjustment

To increase the volume from the amplifier in the transmission mode, turn the trimmer "¬" in a clockwise direction.

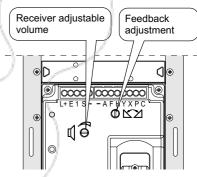
Antilocale adjustment

In case of "feedback" (Larsen effect) in the external unit it is necessary to operate as follow:

- make the call from the door station and lift the handset of an intercom or videointercom (press **□** for Echos series);



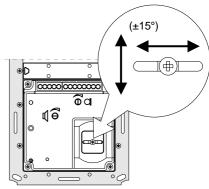
MAS10PED MAS11PED MAS12PED



MAS43ED MAS43CED

Adjustments

You can manually change the camera framing by unloosening and adjusting the horizontal and vertical screws in the desired direction.



MAS43ED MAS43CED





EXTERNAL DOOR STATIONS

Push-button modules



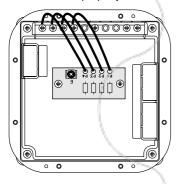
MAS20. Blank module in stainless steel.

<u>MAS22.</u> Module with 2 call buttons and name plate panel with breakproof transparent screen and green LED backlight.

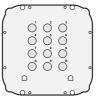
MAS24. With 4 call buttons.

241DMA. Module with diodes for 4 users.

It allows for the use of the button modules MAS22 and MAS24 in the 1+1 intercom systems and 4+1 video intercom systems. It is fixed on the back of the button modules using the 2 supplied screws. Connect the conductors of the diode module to the corresponding terminal on MAS24 module; if MAS22 module is used do not connect P3 and P4 conductors and properly insulate them.



ACCESS CONTROL KEYPAD



FC52MAS. Electronic keypad with 12 keys and 2 relays for lock release and access control of door stations. 12 programmable access codes for each relay. Programmable door opening time from 1 up 99 sec. for each relay (or bistable operation of relay). Acoustic and visual confirmation for entered keys, accepted programming and for wrong codes.

Technical data

Power supply: 12Vac/dc ±10%

Stand-by current: 0.02A

Max. current consumption: 0.1A

Contact ratings: 12Vac - 2A

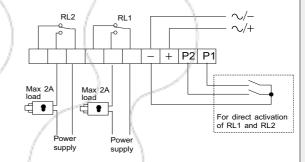
Numbers of codes for relay 1: 12 + direct activation Numbers of codes for relay 2: 12 + direct activation

Activation time for each relay: from 1 to 99 seconds (or bistable)

Operating temperature: $0^{\circ} \div +40^{\circ}$ C Maximum permissible humidity: 85% RH Degree of protection IP 45

Terminals

- normally closed contact of relay 2
- normally open contact of relay 2 common contact of relay 2
- normally closed contact of relay 1
- normally open contact of relay 1
- Common contact of relay 1
- ground or alternating voltage input
- + positive or alternating voltage input
- P2 activation of the relay 2; if momentarily connected to ground it allows the activation for the programmed time
- P1 activation of the relay 1; if momentarily connected to ground it allows the activation for the programmed time



Technical characteristics of MATRIX modules terminal boards

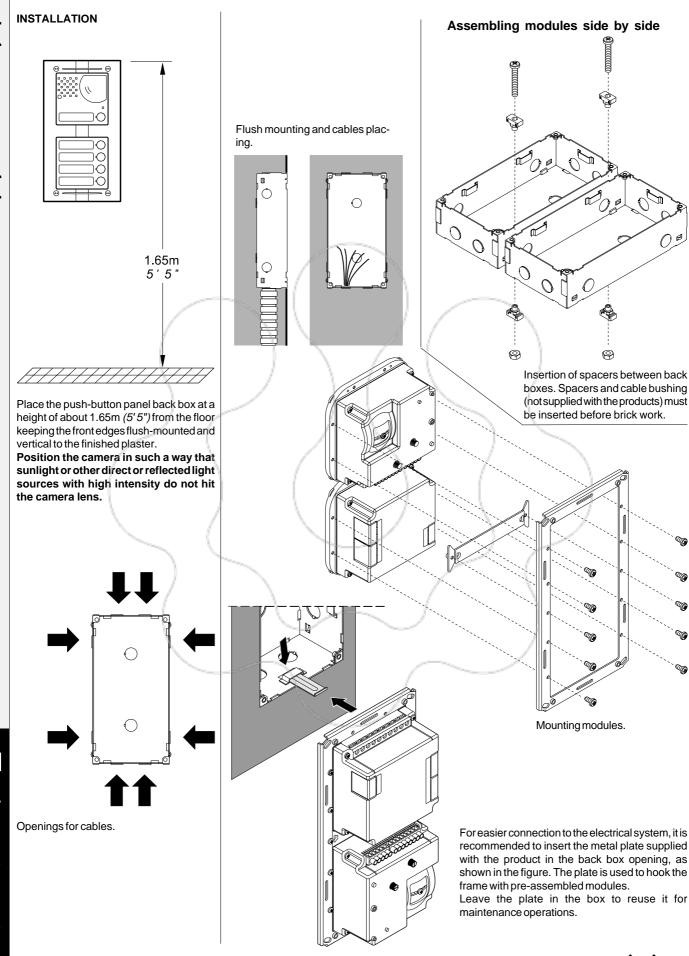
MAS10PED MAS11PED MAS12PED MAS22 MAS24 MAS43ED

MAS43CED

					1	
1	1	1			1	Reception-transmission; electric lock release; call
E	Е	Е			E	Reception-transmission; electric lock release
S	S	S			S	Electric lock
A	Α	Α	Α	Α	Α	Alternated power supply input for door speaker and name-plate Led (13Vac-70mA)
-	-	-	-	-	-	Ground
	С	С	С	С	С	Call push-buttons common
	P1	P1	P1	P1	Р	Call push-button
		P2	P2	P2		Call push-button
				Р3		Call push-button
				P4		Call push-button
					Х	Negative video signal output
					Υ	Positive video signal output
					Н	Positive voltage input for camera (18÷24Vdc)
					F	Video ground
L+	L+	L+			L+	DC power supply input for service Led (12Vdc)

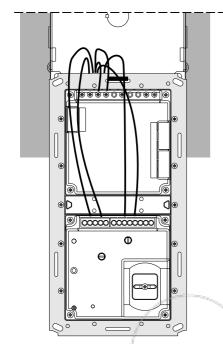




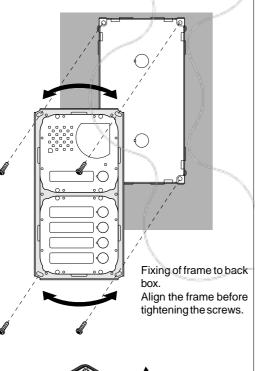


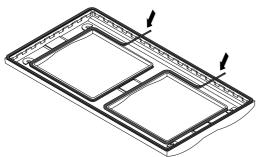




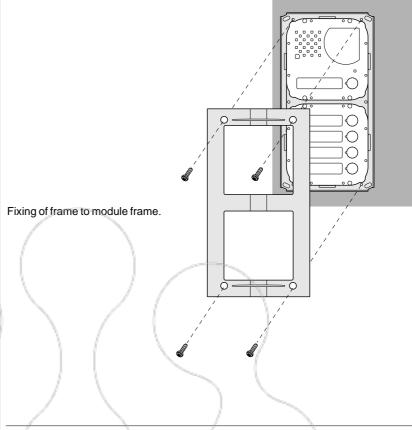


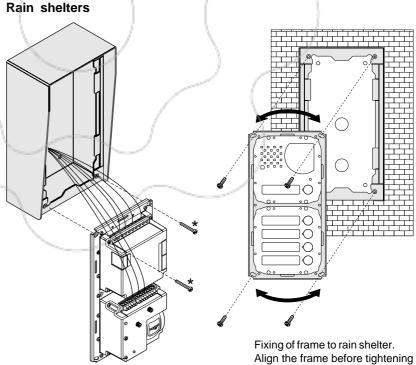
Connection of wires to module terminal boxes.





Apply the protection gaskets supplied with the product on the internal part of the frame openings.





* Long screws can be used to anchor the frame during wire connection tp modules.



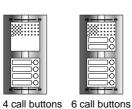
the screws.



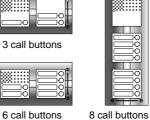
Examples of compositions in intercom systems



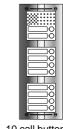
2 call buttons

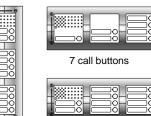


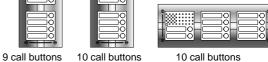


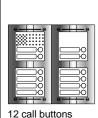


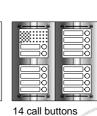


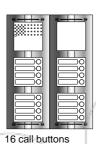


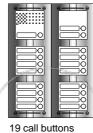


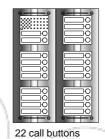


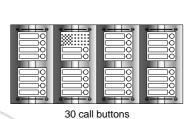


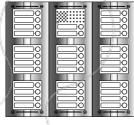


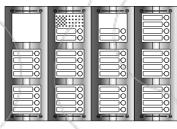


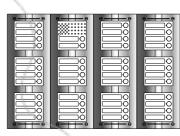












34 call buttons 40 call buttons 31 call buttons

46 call buttons

Composition board of Matrix push-button panels.

N° calls	Dimensions	Module with door speaker	4 diode module	Button and blank modules		Front frames	Back box and module frame	Rain shelters (*)
1	140x140x19	1 MAS11PED	-	-	-	1 MAS61	1 MA71	1 MA91
2	$(5\frac{1}{2}"x5\frac{1}{2}"x\frac{3}{4}")$	1 MAS12PED	Carried Parks	-	-	1 MAS61	1 MA71	1 MA91
3		1 MAS11PED	1 241DMA	1 MAS22	-	1 MAS62	1 MA72	1 MA92
4	140x256x19 (5 ¹ / ₂ " x 10 ¹ / ₁₆ " x ³ / ₄ ")	1 MAS10PED	1 241DMA	1 MAS24	J.	1 MAS62	1 MA72	1 MA92
6		1 MAS12PED	1 241DMA	1 MAS24	-	1 MAS62	1 MA72	1 MA92
8	140x374x19	1 MAS10PED	2 241DMA	2 MAS24	-	1 MAS63	1 MA73	1 MA93
9	$(5\frac{1}{2}"x 14\frac{3}{4}"x\frac{3}{4}")$	1 MAS11PED	2 241DMA	2 MAS24		1 MAS63	1 MA73	1 MA93
10		1 MAS12PED	2 241DMA	2 MAS24	/ -	1 MAS63	1 MA73	1 MA93
12	280x256x19	1 MAS12PED	3 241DMA	2 MAS24	1 MAS22	2 MAS62	2 MA72	-
14	$(11" \times 10^{1}/_{16}" \times {}^{3}/_{4}")$	1 MAS12PED	3 241DMA	3 MAS24	-	2 MAS62	2 MA72	-
16		1 MAS10PED	4 241DMA	4 MAS24	-	2 MAS63	2 MA73	-
19	280x374x19 (11" x 14³/₄" x ³/₄")	1 MAS11PED	5 241DMA	4 MAS24	1 MAS22	2 MAS63	2 MA73	-
22		1 MAS12PED	5 241DMA	5 MAS24	-	2 MAS63	2 MA73	-
27	560x256x19	1 MAS11PED	7 241DMA	6 MAS24	1 MAS22	4 MAS62	4 MA72	-
30	$(22^{1}/_{16}" \times 10^{1}/_{16}" \times 3^{3}/_{4}")$	1 MAS12PED	7 241DMA	7 MAS24	-	4 MAS62	4 MA72	-
31	420x374x19	1 MAS11PED	8 241DMA	7 MAS24	1 MAS22	3 MAS63	3 MA73	-
34	$(16^{9}/_{16}" \times 14^{3}/_{4}" \times {}^{3}/_{4}")$	1 MAS12PED	8 241DMA	8 MAS24	-	3 MAS63	3 MA73	-
38		1 MAS12PED	9 241DMA	9 MAS24	2 MAS20	4 MAS63	4 MA73	-
40	560x374x19	1 MAS10PED	10 241DMA	10 MAS24	1 MAS20	4 MAS63	4 MA73	-
43	$(22^{1}/_{16}" \times 14^{3}/_{4}" \times 3^{3}/_{4}")$	1 MAS11PED	11 241DMA	10 MAS24	1 MAS22	4 MAS63	4 MA73	-
46		1 MAS12PED	11 241DMA	11 MAS24	-	4 MAS63	4 MA73	-

(*) Rain shelters are used in replacement of back boxes





Examples of compositions in video intercom systems



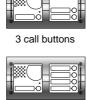
1 call button



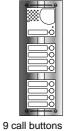
3 call buttons

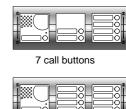
13 call buttons





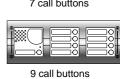






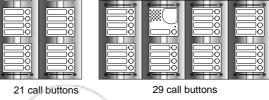


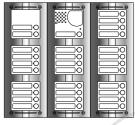


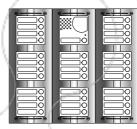




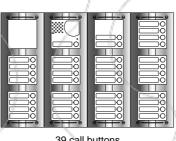
19 call buttons

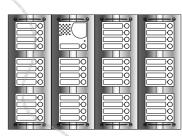






17 call buttons





31 call buttons

33 call buttons

39 call buttons

45 call buttons

Composition board of Matrix push-button panels.

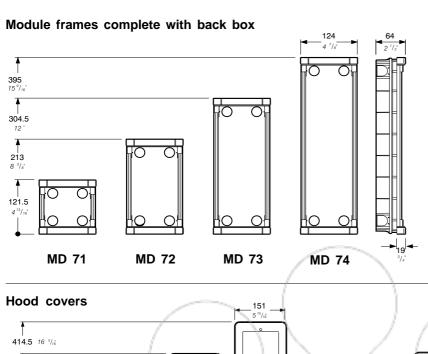
	\	/	\		Zompjoonion is	Jan St main	x puon built	on panolo
N° calls	Dimensions	Camera module	4 diode module	Button and b	olank modules	Front frames	Back box and module frame	Rain shelters (*)
1	140x140x19 (5 ½," x 5½," x ¾,")	1 MAS43ED	-	-		1 MAS61	1 MA71	1 MA91
3	140x256x19	1 MAS43ED	1 241DMA	1 MAS22	- /	1 MAS62	1 MA72	1 MA92
5	$(5\frac{1}{2}" \times 10\frac{1}{16}" \times 3\frac{1}{4}")$	1 MAS43ED	1 241DMA	1 MAS24	- / -	1 MAS62	1 MA72	1 MA92
7	140x374x19	1 MAS43ED	2 241DMA	1 MAS24	1 MAS22 -	1 MAS63	1 MA73	1 MA93
9	$(5^{1}/_{2}" \times 14^{3}/_{4}" \times 3^{3}/_{4}")$	1 MAS43ED	2 241DMA	2 MAS24		1 MAS63	1 MA73	1 MA93
11	280x256x19	1 MAS43ED	3 241DMA	2 MAS24	1 MAS22 -	2 MAS62	2 MA72	-
13	$(11" \times 10^{1}/_{16}" \times 3^{1}/_{4}")$	1 MAS43ED	3 241DMA	3 MAS24		2 MAS62	2 MA72	-
15		1 MAS43ED	4 241DMA	3 MAS24	1 MAS22 1 MAS20	2 MAS63	2 MA73	-
17	280x374x19	1 MAS43ED	4 241DMA	4 MAS24	- 1 MAS20	2 MAS63	2 MA73	-
19	(11" x 14 ³ / ₄ " x ³ / ₄ ")	1 MAS43ED	5 241DMA	4 MAS24	1 MAS22 -	2 MAS63	2 MA73	-
21		1 MAS43ED	5 241DMA	5 MAS24		2 MAS63	2 MA73	-
23		1 MAS43ED	6 241DMA	5 MAS24	1 MAS22 1 MAS20	4 MAS62	4 MA72	-
27	560x256x19 (22 ½ x 10½ x 3½)	1 MAS43ED	7 241DMA	6 MAS24	1 MAS22 -	4 MAS62	4 MA72	-
29	10 10 47	1 MAS43ED	7 241DMA	7 MAS24		4 MAS62	4 MA72	-
31	420x374x19	1 MAS43ED	8 241DMA	7 MAS24	1 MAS22 -	3 MAS63	3 MA73	-
33	$(16^{9}/_{16}" \times 14^{3}/_{4}" \times {}^{3}/_{4}")$	1 MAS43ED	8 241DMA	8 MAS24		3 MAS63	3 MA73	-
37		1 MAS43ED	9 241DMA	9 MAS24	- 2 MAS20	4 MAS63	4 MA73	-
39		1 MAS43ED	10 241DMA	9 MAS24	1 MAS22 1 MAS20	4 MAS63	4 MA73	-
41	560x374x19 (22 ¹ / ₁₆ " x 14 ³ / ₄ " x ³ / ₄ ")	1 MAS43ED	10 241DMA	10 MAS24	- 1 MAS20	4 MAS63	4 MA73	-
43	, 10 4 4/	1 MAS43ED	11 241DMA	10 MAS24	1 MAS22 -	4 MAS63	4 MA73	
45		1 MAS43ED	11 241DMA	11 MAS24		4 MAS63	4 MA73	







^(*) Rain shelters are used in replacement of back boxes

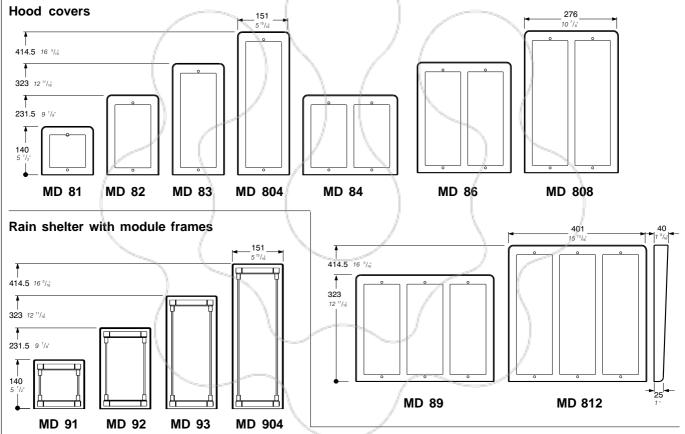


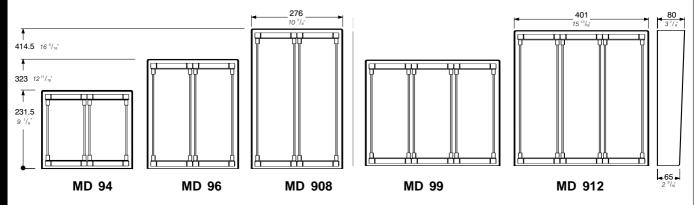
Push-button panels in extruded aluminium made up of modular elements. Suitable for the most diverse installation requirements.

MD71.72.73.74. Plastic back boxes complete with module frames.

MD81.82.83.804.84.86.808.89.812. Aluminium hood covers. To be added to MD71.72.73.74 back boxes.

MD91.92.93.904.94.96.908.99.912. Anodized aluminium rain shelters with module frames. Used for wall mounting.









1 row push-button modules

Modules for electric door speaker (amplifier)







MD10ED without call buttons

MD11ED 1 call button

MD12ED 2 call buttons

Button modules









MD 21 1 call button

MD 22 2 call buttons

MD 23 3 call buttons

MD 24 4 call buttons

2 row push-button modules









MD 222 2 call buttons

MD 224 4 call buttons

MD 226 6 call buttons

MD 228 8 call buttons

Modules: blank, number, access control and cameras





MD20 blank module

MD50 number module





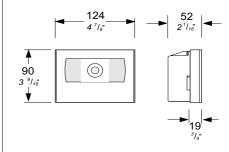


FC52P. Keypad module for access control (same features of the model FC52PL - see page 25).

FP52. Proximity reader for access control (same features of the model FP52PL see page 25).

MD41D. Black and white camera.

CAMERA



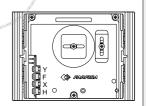
MD 41D.

B/W camera module for 4+1 video systems without coaxial cable, including:

- solid-state CCD camera, with auto iris, 3.6mm fixed optics and 6 infrared LED's;
- -front plate in anodized aluminium with breakproof transparent screen;
- horizontal/vertical sweep.

Technical data Power supply

Operating current 0.3A Output of balanced video signal Minimum illumination 2 lux CCD 1/4 B/W Sensor 291000 Pixel number Horizontal frequency 15625Hz Vertical frequency 50Hz 3.6mm; F5 Lens Adjustable focus 0,1m ÷ ∞ Auto-iris electronic Horizontal adjustment 15° Vertical adjustment 15° Operating temperature -10°÷+40°C Maximum permissible humidity 80%RH



21±3Vdc

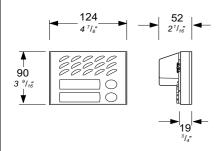
Terminals

- positive video signal output
- ground F
- X negative video signal output
- positive power supply input 21Vdc





AMPLIFIED DOOR STATIONS



MD10ED. Module without call buttons, with front plate in anodized aluminium, amplified door speaker in two channels and control of volume of "receiver".

MD11ED. Module with 1 call button.
MD12ED. Module with 2 call buttons...

Testing and adjustments

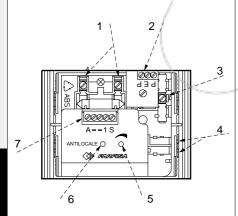
Volume adjustment

To increase the volume from the amplifier in the transmission mode, turn the trimmer "\textit{"}" in a clockwise direction.

Antilocale adjustment

In case of "feedback" (Larsen effect) in the external unit it is necessary to operate as follow:

- make the call from the door station and lift the handset of an intercom;
- adjust the trimmer "antilocale" until the whistling stops (Larsen effect).



- 1 Lamp terminals
- 2 Button terminal board
- 3 Call buttons common (terminal C)
- 4 Stair light button terminals
- 5 External volume adjustment
- 6 Feedback adjustment
- ${\bf 7} \ \ {\bf Terminal\, board\, for\, audio/powering/electric\, lock}$

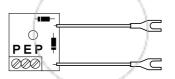
Terminals

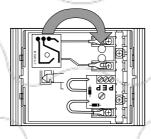
- A Supply 13VAC-70mA
- Ground
- Reception-transmission; electric lock release; call
- S Electric lock
- E Reception-transmission; electric lock release
- P Call button

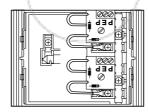
241D. Module with diodes for 2 users.

It allows for the use of the button modules MD21, MD22, MD23, MD24, MD222, MD224, MD226, MD228 in the 1+1 intercom systems and 4+1 video intercom systems.

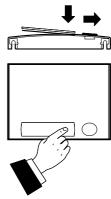
It is applied inside the button modules.



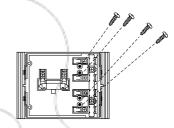




Dismounting and protection of name labels



Dismounting of name holder to insert name label.



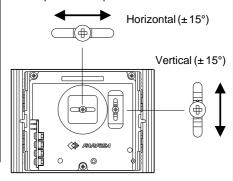
In any button module, in order to avoid the dismounting of name holder, insert a 3MAx12 screw in the holes shown in the picture for each name plate to be blocked. Screws are not supplied by the manufacturer.

Adjustments

If necessary, you can manually modify the camera position by means of the horizontal and vertical adjustments located on the back of the camera.

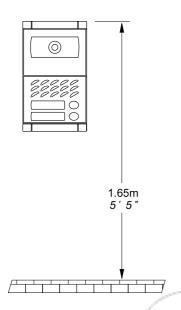
To do this, you must:

- remove the upper screw of the push-button panel to access the back of the camera;
- loosen the screw of the horizontal or vertical adjustment (or both screws, if you want to adjust the image in all the directions);
- move the camera in the desired direction;
- tighten the screw to block the camera in the desired position;
- fix the push-button panel.



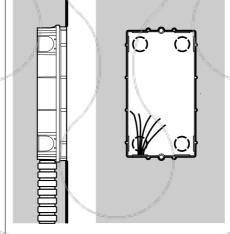






Place the push-button panel back box at a height of about 1.65m from the floor keeping the front edges flush-mounted and vertical to the finished plaster.

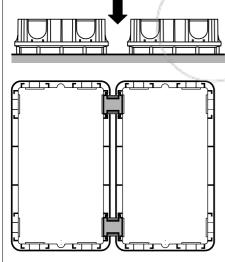
Position the camera in such a way that sunlight or other direct or reflected light sources with high intensity do not hit the camera lens.



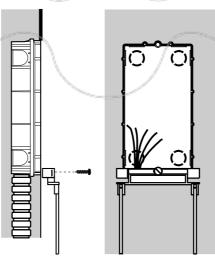
Openings for cables.

Flush mounting and cables placing.

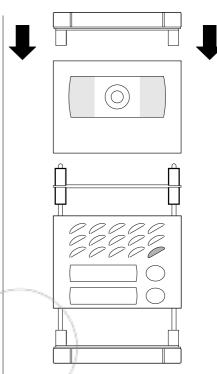
Assembling modules side by side



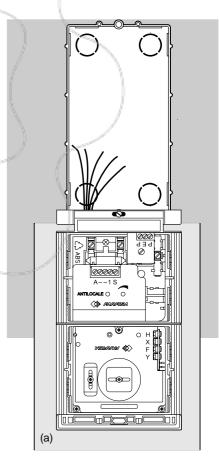
Insertion of cable bush between back boxes. The cable bushes must be inserted before brickwork.



Lower fixing of the module frame.



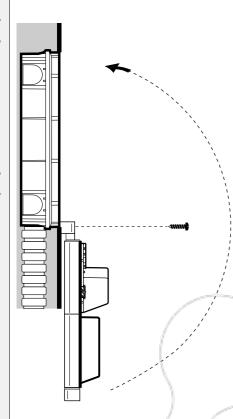
Mounting of button module.



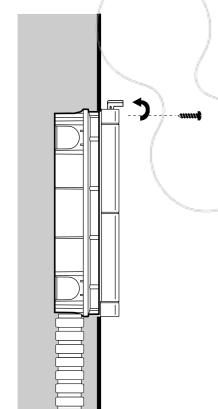
Lower fixing of the module frame on back box. It is advised to insert a protection (a) between panel and wall while fixing.



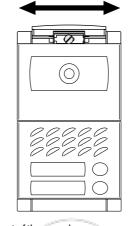




Mounting of frame bottom and door speaker (amplifier).



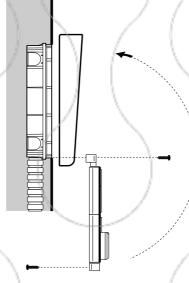
Top fixing of the panel.



Alignment of the panel.



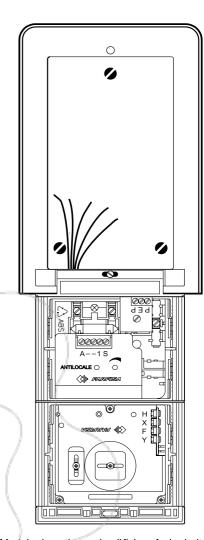
Hood covers



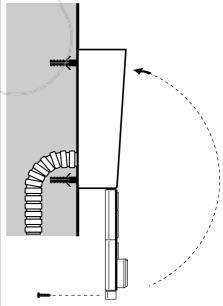
Fixing of the hood cover between the back box and the module frame.



Dismounting of the frame top side from the rain shelter.



 $Modules\,insertion\,and\,wall\,fixing\,of\,rain\,shelter.$



Mounting of the frame top to the rain shelter.





Composition board of INTERCOM push-button panels.

							· · · - · · · · · · · · · ·		рашено.
N° calls	Dimensions (mm/inches)	Module with door speaker	2 diode module		tton and info lank modules	-	Back box and module frame	Hood covers	Rain shelters
1	124x121.5x19	1 MD11ED	-	-	-	-	1 MD71	1 MD81	1 MD91
2	$(4^{7}/_{8}"x 4^{13}/_{16}"x {3/_{4}}")$	1 MD12ED	-	-	-	-	1 MD71	1 MD81	1 MD91
4	124x213x19	1 MD10ED	2 241D	1 MD24	-	-	1 MD72	1 MD82	1 MD92
6	$(4^{7}/_{8}"x8^{3}/_{8}"x^{3}/_{4}")$	1 MD12ED	2 241D	1 MD24	-	-	1 MD72	1 MD82	1 MD92
7	124x304.5x19	1 MD10ED	4 241D	1 MD24	1 MD23	-	1 MD73	1 MD83	1 MD93
10	$(4^{7}/_{8}" \times 12" \times {}^{3}/_{4}")$	1 MD12ED	4 241D	2 MD24	-	-	1 MD73	1 MD83	1 MD93
12	248x213x19	1 MD10ED	6 241D	3 MD24	-	-	2 MD72 ■	1 MD84 ■	1 MD94 ■
14	$(9^{3}/_{4}^{"} \times 8^{3}/_{8}^{"} \times {}^{3}/_{4}^{"})$	1 MD12ED	6 241D	3 MD24	-	-	2 MD72 ■	1 MD84 ■	1 MD94 ■
16		1 MD10ED	8 241D	4 MD24	-	1 *	2 MD73	1 MD86	1 MD96
19	248x304.5x19 (9 ³/ ₄ " x 12" x ³/ ₄ ")	1 MD11ED	9 241D	4 MD24	1 MD22	-	2 MD73	1 MD86	1 MD96
22	(, , , , , , , , , , , , , , , , , , ,	1 MD12ED	10 241D	5 MD24	-	-	2 MD73	1 MD86	1 MD96
24		1 MD10ED	12 241D	6 MD24		1 *	2 MD74	1 MD808	1 MD908
27	248x395x19 (9 ³ / ₄ " x 15 ⁹ / ₁₆ " x ³ / ₄ ")	1 MD11ED	13 241D	6 MD24	1 MD22	-	2 MD74	1 MD808	1 MD908
30		1 MD12ED	14 241D	7 MD24	À	-	2 MD74	1 MD808	1 MD908
32	372x304.5x19	1 MD12ED	15 241D	7 MD24	1 MD22	ALCO AND ADDRESS OF THE PARTY O	3 MD73	1 MD89	1 MD99
34	(14 ⁵ / ₈ " x 12" x ³ / ₄ ")	1 MD12ED	16 241D	8 MD24	1	-	3 MD73	1 MD89	1 MD99
37		1 MD11ED	18 241D	9 MD24	/-	2 *	3 MD74	1 MD812	1 MD912
40	372x395x19	1 MD12ED	19 241D	9 MD24	1 MD22	1 *	3 MD74	1 MD812	1 MD912
42	$(14.5^{1}/_{8}$ " x 15.9 $^{1}/_{16}$ " x 3 $^{1}/_{4}$ ")	1 MD12ED	20 241D	10 MD24	-	1 *	3 MD74	1 MD812	1 MD912
46		1 MD12ED	22 241D	11 MD24	-		3 MD74	1 MD812	1 MD912
48		1 MD10ED	24 241D	12 MD24	-	3 *	4 MD74	-	-
52	496x395x19	1 MD10ED	26 241D	13 MD24	-	2 *	4 MD74	-	-
57	$(19^{1}/_{2}" \times 15^{9}/_{16}" \times {}^{3}/_{4}")$	1 MD11ED	28 241D	14 MD24	-	1 *	4 MD74	· -	-
62		1 MD12ED	30 241D	15 MD24	The same of the sa	- 1	4 MD74	-	-
		V.	9		6.	N.		0 11 11	

■ or MD74 or MD804 or MD904

* MD20 or MD50 or FC52P

Optional It replaces MD71, 72, 73, 74

Example of Intercom push-button panel installations.



2 call

buttons





buttons



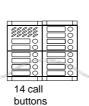
6 call buttons



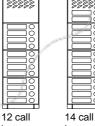
buttons



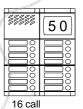
buttons



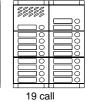
buttons



buttons



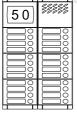
buttons



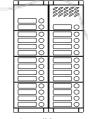
buttons



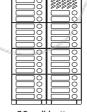
22 call buttons



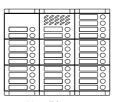
24 call buttons



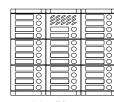
27 call buttons



30 call buttons



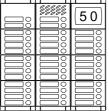
32 call buttons



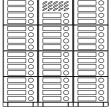
34 call buttons

	50

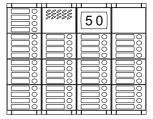
37 call buttons



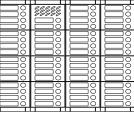
40 call buttons



46 call buttons



52 call buttons



62 call buttons





+

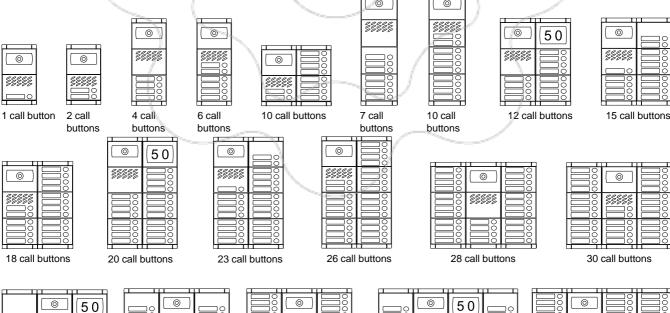
88888

33 call buttons

Composition board of VIDEOINTERCOM push-button panels. N° Dimensions Camera Module with Button and info or Back box and Hood Rain calls shelters (mm/inches) module door speaker module blank modules module frame covers 1 1 MD41D 1 MD11ED 1 MD72 1 MD82 1 MD92 -124x213x19 $(4^{7}/_{8}"x 8^{3}/_{8}"x {}^{3}/_{4}")$ 2 1 MD41D 1 MD12ED 1 MD72 1 MD82 1 MD92 4 1 MD41D MD10ED 2 241D 1 MD24 1 MD73 1 MD83 1 MD93 124x304.5x19 (4 7/8" x 12" x 3/4") 6 1 MD41D 1 MD12ED 2 2410 1 MD24 1 MD73 1 MD83 1 MD93 7 1 MD41D 1 MD10ED 1 MD23 1 MD84 ■ 1 MD94 ■ 4 241D 1 MD24 2 MD72 ■ 248x213x19 $(9^{3}/_{4}$ " x $8^{3}/_{8}$ " x $^{3}/_{4}$ ") 1 MD94 ■ 10 1 MD41D 1 MD12ED 4 241D 2 MD24 2 MD72 ■ 1 MD84 ■ 12 MD41D MD10ED 241D 3 MD24 1 * 2 MD73 1 MD86 1 MD96 6 248x304.5x19 15 1 MD41D 1 MD22 1 MD86 1 MD96 1 MD11ED 7 241D 3 MD24 _ 2 MD73 (9 3/4" x 12" x 3/4") 18 1 MD41D 1 MD12ED 241D 4 MD24 2 MD73 1 MD86 1 MD96 20 1 MD41D 1 MD10ED 10 241D 5 MD24 1 2 MD74 1 MD808 1 MD908 23 1 MD41D 11 241D 5 MD24 1 MD22 2 MD74 1 MD808 1 MD908 1 MD11ED 248x395x19 (9 ³/₄" x 15 ⁹/₁₆" x ³/₄") 25 1 MD41D 1 MD11ED 12 241D 6 MD24 _ 2 MD74 1 MD808 1 MD908 26 2 MD74 1 MD41D 1 MD12ED 12 241D 6 MD24 1 MD808 1 MD908 28 372x304.5x19 1 MD41D MD10ED 14 241D 7 MD24 3 MD73 1 MD89 1 MD99 (14 ⁵/₈" x 12" x ³/₄") 30 1 MD41D 1 MD12ED 14 241D 7 MD24 3 MD73 1 MD89 1 MD99 33 1 MD41D 1 MD11ED 16 241D 2 * 3 MD74 1 MD812 1 MD912 8 MD24 -36 * 1 MD12ED 17 241D 1 MD22 1 1 MD41D 8 MD24 3 MD74 1 MD812 1 MD912 372x395x19 38 1 MD41D 1 MD12ED 18 241D 8 MD24 2 MD22 3 MD74 1 MD812 1 MD912 (14 ⁵/₈" x 15 ⁹/₁₆" x ³/₄") 40 1 MD41D 1 MD12ED 19 241D 9 MD24 1 MD22 3 MD74 1 MD812 1 MD912 42 1 MD41D 1 MD12ED 20 241D 10 MD24 3 MD74 1 MD812 1 MD912 * 45 1 MD41D 1 MD11ED 22 241D 10 MD24 2 MD22 2 4 MD74 50 4 MD74 1 MD41D 1 MD12FD 24 241D 11 MD24 2 MD22 1 496x395x19 (19 ¹/₂" x 15 ⁹/₁₆" x ³/₄") 54 1 MD41D 1 MD12ED 26 241D 13 MD24 1 * 4 MD74 58 1 MD41D 4 MD74 1 MD12ED 28 241D 14 MD24 Optional ■ or MD74 or MD804 or MD904 It replaces * MD20 or MD50 or FC52P MD72, 73, 74 Example of Videointercom push-button panel installations. 0 0

66666

38 call buttons



000	0	50	00 	



88888

50 call buttons

66666

42 call buttons

Composition board of INTERCOM push-button panels.

				•				•
N°	Dimensions	Module with	2 diode	Button and	l info or	Back box and	Hood	Rain
calls	(mm/inches)	door speaker	module	blank mo	dules	module frame	covers	shelters
8	124x213x19 (4 ⁷ / ₈ "x 8 ³ / ₈ "x ³ / ₄ ")	1 MD10ED	4 241D	1 MD228 -	-	1 MD72	1 MD82	1 MD92
10	(1,8,1,2,8,1,4,7	1 MD10ED	5 241D	1 MD228 1 MD	222 -	1 MD73	1 MD83	1 MD93
12	124x304.5x19	1 MD10ED	6 241D	1 MD228 1 MD	224 -	1 MD73	1 MD83	1 MD93
14	$(4^{7}/_{8}" \times 12" \times ^{3}/_{4}")$	1 MD10ED	7 241D	1 MD228 1 MD	226 -	1 MD73	1 MD83	1 MD93
16		1 MD10ED	8 241D	2 MD228 -	-	1 MD73	1 MD83	1 MD93
18	124x395x19 ■	1 MD10ED	9 241D	2 MD228 1 MD	222 -	2 MD72■	1 MD84 ■	1 MD94 ■
20	(4 ⁷ / ₈ " x 15 ⁹ / ₁₆ " x ³ / ₄ ") 248x213x19	1 MD10ED	10 241D	2 MD228 1 MD	224 -	2 MD72■	1 MD84 ■	1 MD94 ■
24	(9 ³ / ₄ "x8 ³ / ₈ "x ³ / ₄ ")	1 MD10ED	12 241D	3 MD228 -	-	2 MD72■	1 MD84 ■	1 MD94 ■
26		1 MD10ED	13 241D	3 MD228 1 MD	222 1 *	2 MD73	1 MD86	1 MD96
28		1 MD10ED	14 241D	3 MD228 1 MD	224 1 *	2 MD73	1 MD86	1 MD96
30		1 MD10ED	15 241D	3 MD228 1 MD	226 1 *	2 MD73	1 MD86	1 MD96
32	248x304.5x19 (9 ³/ ₄ " x 12" x³/ ₄ ")	1 MD10ED	16 241D	4 MD228 -	1 *	2 MD73	1 MD86	1 MD96
34	(9 1 ₄ × 12 × 1 ₄)	1 MD10ED	17 241D	4 MD228 1 MD	222 -	2 MD73	1 MD86	1 MD96
38		1 MD10ED	19 241D	4 MD228 1 MD	226 -	2 MD73	1 MD86	1 MD96
40		1 MD10ED	20 241D	5 MD228 -	A STATE OF THE STA	2 MD73	1 MD86	1 MD96
46	040.005.40	1 MD10ED	23 241D	5 MD228 1 MD	226 1 *	2 MD74	1 MD808	1 MD908
50	248x395x19 (9 ³ / ₄ " x 15 ⁹ / ₁₆ " x ³ / ₄ ")	1 MD10ED	25 241D	6 MD228 1 MD	222 -	2 MD74	1 MD808	1 MD908
56		1 MD10ED	28 241D	7 MD228 -	-	2 MD74	1 MD808	1 MD908
60	372x304.5x19	1 MD10ED	30 241D	7 MD228 1 MD	224 -	3 MD73	1 MD89	1 MD99
64	$(14 \frac{5}{8}" \times 12" \times \frac{3}{4}")$	1 MD10ED	32 241D	8 MD228 -	- No.	3 MD73	1 MD89	1 MD99
68		1 MD10ED	34 241D	8 MD228 1 MD	224 2 *	3 MD74	1 MD812	1 MD912
76	372x395x19	1 MD10ED	38 241D	9 MD228 1 MD	224 1 *	3 MD74	1 MD812	1 MD912
82	$(14^{5}/_{8}" \times 15^{9}/_{16}" \times ^{3}/_{4}")$	1 MD10ED	41 241D	10 MD228 1 MD	222 -	3 MD74	1 MD812	1 MD912
88		1 MD10ED	44 241D	11 MD228 -	-	3 MD74	1 MD812	1 MD912
		MD74 MD00		3		1	Ontional It r	onlogo

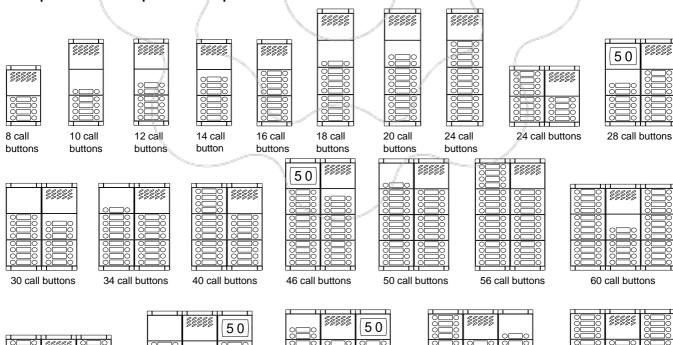
■ or MD74 or MD804 or MD904

68 call buttons

* MD20 or MD50 or FC52P

Optional It replaces MD71, 72, 73, 74

Example of Intercom push-button panel installations.





64 call buttons



88 call buttons

82 call buttons

76 call buttons

Composition board of VIDEOINTERCOM push-button panels.

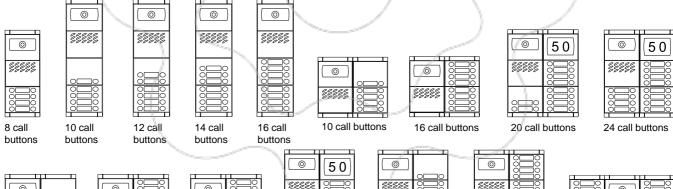
N°.	Dimensions	Camera	Module with	2 diode	Button and info or	Back box and	Hood	Rain
calls	(mm/inches)	module	door speaker	module	blank modules	module frame	covers	shelters
8	124x304.5x19 (4 ⁷ / ₈ " x 12" x ³ / ₄ ")	1 MD41D	1 MD10ED	4 241D	1 MD228	1 MD73	1 MD83	1 MD93
10	124x395x19 ■	1 MD41D	1 MD10ED	5 241D	1 MD228 1 MD222 -	2 MD72 ■	1 MD84 ■	1 MD94 ■
12	$(4^{7}/_{8}" \times 15^{9}/_{16}" \times ^{3}/_{4}")$	1 MD41D	1 MD10ED	6 241D	1 MD228 1 MD224 -	2 MD72 ■	1 MD84 ■	1 MD94 ■
14	248x213x19	1 MD41D	1 MD10ED	7 241D	1 MD228 1 MD226 -	2 MD72 ■	1 MD84 ■	1 MD94 ■
16	$(9^{3}/_{4}" \times 8^{3}/_{8}" \times {}^{3}/_{4}")$	1 MD41D	1 MD10ED	8 241D	2 MD228	2 MD72 ■	1 MD84 ■	1 MD94 ■
18		1 MD41D	1 MD10ED	9 241D	2 MD228 1 MD222 1 *	2 MD73	1 MD86	1 MD96
20		1 MD41D	1 MD10ED	10 241D	2 MD228 1 MD224 1 *	2 MD73	1 MD86	1 MD96
24	248x304.5x19	1 MD41D	1 MD10ED	12 241D	3 MD228 - 1 *	2 MD73	1 MD86	1 MD96
26	(9 ³ / ₄ " x 12" x ³ / ₄ ")	1 MD41D	1 MD10ED	13 241D	3 MD228 1 MD222 -	2 MD73	1 MD86	1 MD96
28		1 MD41D	1 MD10ED	14 241D	3 MD228 1 MD224 -	2 MD73	1 MD86	1 MD96
30		1 MD41D	1 MD10ED	15 241D	3 MD228 1 MD226 -	2 MD73	1 MD86	1 MD96
32		1 MD41D	1 MD10ED	16 241D	4 MD228	2 MD73	1 MD86	1 MD96
34		1 MD41D	1 MD10ED	17 241D	4 MD228 1 MD222 1 *	2 MD74	1 MD808	1 MD908
38	248x395x19	1 MD41D	1 MD10ED	19 241D	4 MD228 1 MD226 1 *	2 MD74	1 MD808	1 MD908
42	$(9^{3}/_{4}$ " x 15 $^{9}/_{16}$ " x $^{3}/_{4}$ ")	1 MD41D	1 MD10ED	21 241D	5 MD228 1 MD222 -	2 MD74	1 MD808	1 MD908
48		1 MD41D	1 MD10ED	22 241D	6 MD228	2 MD74	1 MD808	1 MD908
52	372x304.5x19	1 MD41D	1 MD10ED	26 241D	6 MD228 1 MD224 -	3 MD73	1 MD89	1 MD99
56	$(14^{5}/_{8}" \times 12" \times {}^{3}/_{4}")$	1 MD41D	1 MD10ED	28 241D	7 MD228	3 MD73	1 MD89	1 MD99
60		1 MD41D	1 MD10ED	30 241D	7 MD228 1 MD224 2 *	3 MD74	1 MD812	1 MD912
64	070 005 40	1 MD41D	1 MD10ED	32 241D	8 MD228 - 2 *	3 MD74	1 MD812	1 MD912
68	372x395x19 (14 ⁵ / ₈ " x 15 ⁹ / ₁₆ " x ³ / ₄ ")	1 MD41D	1 MD10ED	34 241D	8 MD228 1 MD224 1 *	3 MD74	1 MD812	1 MD912
72		1 MD41D	1 MD10ED	36 241D	9 MD228 - 1 *	3 MD74	1 MD812	1 MD912
74	-1000	1 MD41D	1 MD10ED	37 241D	9 MD228 1 MD222 -	3 MD74	1 MD812	1 MD912
80	A Property of the Contract of	1 MD41D	1 MD10ED	40 241D	10 MD228	3 MD74	1 MD812	1 MD912
	/	145-4	M	1			Ontional It	ronloggo

■ or MD74 or MD804 or MD904

* MD20 or MD50 or FC52P

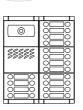
It replaces Optional MD72, 73, 74

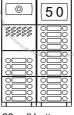
Example of Videointercom push-button panel installations.

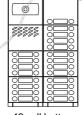


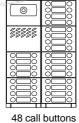


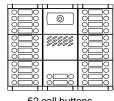












26 call buttons

30 call buttons

32 call buttons

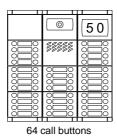
38 call buttons

42 call buttons

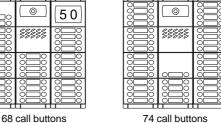
52 call buttons

(o	
00000	
66666	
0 00	

56 call buttons



© 50			
	1 2 = 2	0	50
			1 2 = 2



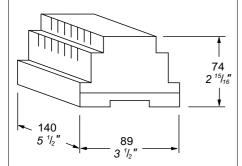


74 call buttons

80 call buttons



Timed power supply



1181E. Timed supply for videointercoms, CCD cameras, electric lock and name-plate lights, etc.

Technical data

Input voltage: 127 or 220-230Vac Frequency: 50/60Hz Power: 48VA Switch-ON time: 100 sec. 450Hz modulated Ringing frequency: Housing: DIN 8 modules A Weight: 0.95Kg. Approved by: VDE according to the safety

standard EN60065
Operating temperature: 0°÷40°C
Maximum permissible humidity: 90%RH

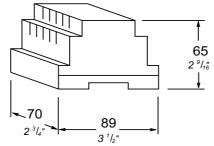
Output terminals

- A Output voltage 13Vac for:
 - -name plate light, exchangers and climatized camera (continuous service 0.6A)
 -electric door lock and bells (intermittent
- -electric door lock and bells (intermittent service 1A)
- Ground for AC power supply
- **F** Ground for DC power supply
- H Continuous output 21Vdc-1A (timed operation)
- $\hbox{\bf C-} \ \ {\sf Electronic belloutput for external calls} \ \ 0.25 A$
- 4 Control switch-ON input from monitors
- X Positive voltage output not stabilized 12Vdc-0.2A
- 3+ Stabilized positive voltage output 8Vdc-0.1A

Notes for power supplies and transformers

- The power supplies and the transformers are not provided with fuses, but all of its outputs are protected against overloading and short circuiting by temperature sensors. To reset the power supply, pow-er must be cut off for about one minute and can be restored after having eliminated the defect.
- The power supply must be installed in a dry place and can be fixed on DIN bar or on a wall by using the expansion plugs.

Transformers



PRS210ED.

Transformer with electronic bell used to power the 1+1 intercom system with electronic call.

Technical data

Input voltage 127 or 220-230Vac
Power: 15VA
Output voltage: 13Vac
Ringing frequency: 450Hz modulated

Maximum load: 0.6A
Maximum of intermittent load: 1A
Housing: DIN 4 m

 $\begin{array}{lll} \mbox{Housing:} & \mbox{DIN 4 modules A} \\ \mbox{Weight:} & \mbox{0.42Kg} \\ \mbox{Operating temperature:} & \mbox{0°\div40°C} \\ \mbox{Maximum permissible humidity:} & \mbox{90\%RH} \\ \end{array}$

Output terminals

- A Output voltage 13Vac for:
 - -name plate light, exchangers and climatized camera (continuous service 0.6A)
 - -electric door lock and bells (intermittent service 1A)
- Ground
- C- Negative electronic bell output 10Vpp-0.25A

PRS210.

It can replace **PRS210ED** in all the applications where the electronic call generation is not required. Used to power 13Vac devices; supplementary amplified door stations, name plate light, additional door locks, etc.

Technical data

Input voltage 127 or 220-230Vac Power: 15VA
Output voltage: 13Vac Maximum load: 0.7A
Maximum of intermittent load: 1A
Housing: DIN 3 modules A
Weight: 0.42Kg

Approved by: VDE according to the safety standard EN60065

Operating temperature: 0°÷40°C
Maximum permissible humidity: 90%RH

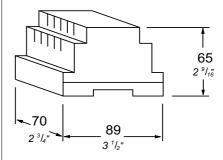
Output terminals

 \sim / \sim Output voltage 13Vac for:

-name plate light, exchangers and climatized camera (continuous service 0.6A)

-electric door lock and bells (intermittent service 1A)

Service module



RL37D.

When installed in 1+1 intercom and 4+1 video intercom systems with electronic call, it provides a supplementary input for external calls, enables supplementary video power supply and provide a second ringer for floor calls.

Technical data

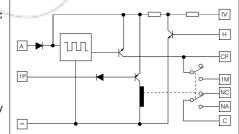
Power supply: 13Vac
Stand-by current: 40mA
Max. switching current: 1A (24V)
Housing: DIN 4 A modules
Operating temperature: 0° ÷ 50°C
Max. permissible humidity: 90% RH

Terminals

- A 13Vac alternate voltage input
- ground
- H timed positive continuous voltage input 21Vdc
- V supplementary power supply enabling
- C common contact of relay
- NA normally open contact of relay
- NC normally closed contact of relay
- 1P electronic call input
- 1M electronic call output enabled from terminal 1P
- CP electronic call output

Note: Remove the cover and move jumper **J2** to change the sounds of electronic ringer.

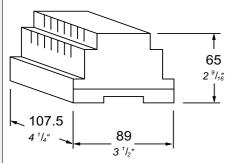
Position 1-2: modulated note Position 2-3: continuous note







Switcher module for intercommunicating systems



1443ED.

It can be mainly used in videointercom systems 4+1 or intercom systems 1+1 were the intercommunicating functions, within the same apartment or between different apartments, are required. Privacy is guaranteed while intercommunicating, no privacy during communication with door station.

Technical characteristics

Power supply: 13Vac
Stand-by current: 0.2A
Current with enabled bell: 0.4A
Housing: DIN 6 modules A
Operating temperature: 0° ÷ +50°C
Maximum permissible humidity: 90% RH

Terminals of connection

- **1P** Call, reception-transmission, electric lock release to external door stations
- 1M Call, reception-transmission, electric lock release to internal stations
- 4P Control switching ON to external door stations or power supply
- 4M Control switching ON to videointercoms
- HM Timed positive voltage output
- **HP** Timed positive voltage input
- A 13Vac power supply input
- Ground
- F Ground
- X 12Vdc-0,2A output power supply for auxiliary services
- C- Modulated electronic call output
- 7 Continuous electronic call output for intercommunication

Operating note

The switch between door station or intercommunicating devices is automatic after receiving a call (from door station or from another intercommunicating device) or by pressing the button "

" from video-intercoms.

By pressing the button "" from intercoms or videointercoms electric look release is operated and automatically the system switches to the door station side. During an intercommunicating conversation between two devices, it would be possible from the external door station to call other apartments.

During an intercommunicating conversation between two devices an incoming call from the door station to one of the two devices will automatically switch the communication to the door station.

All the devices with intercommunicating features, when they are in communication with the door station, do not have privacy between them. On the contrary, the privacy with other apartments is guaranteed.

Installing several art. 1443ED in a multi ways installations allows to have the intercommunicating service between apartments with privacy towards the door station.

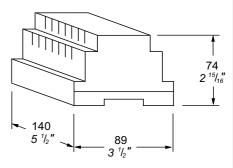
At the end of a communication art.1443ED remains switched to the side from which the last call has been originated.

Red LED shows that the switching module:
- is switched to the side of door station

- is switched to the side of door station when it lights-ON

- is switched to the intercommunicating side or there is no power when it lights-OFF.

4-contact analog exchanger



1473.

Used in systems with 2 or more door stations to automatically switch audio lines and door lock release on the calling station.

Both 3-4 terminals and 11 (side b) or 5-6 terminals and 12 (side a) can be used to activate switching. Can be fixed on DIN bar or screwed to the wall with 2 expansion plugs.

Technical data

Power supply: 13Vac; 15÷21Vdc

Current consumption: 0.1A

Number of exchanges: 4

Max. switching current: 5A (50V)

Housing: DIN 8 modules A

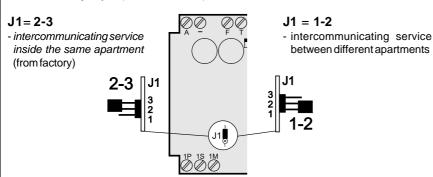
Operating temperature: 0° ÷ 50°C

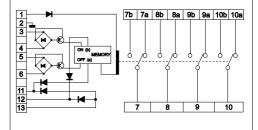
Maximum permissible humidity: 90% RH

Terminals

- 1 Power supply 13Vac-0.1A
- 2 Ground
- 3 and 4 Driver to switch the relay to "b" positionON position
- 5 and 6 Driver to switch the relay to "a" position OFF position
- 7, 8, 9 and 10 Common contact of relays
- 7a, 8a, 9a and 10a OFF position of the relay contacts
- **7b**, **8b**, **9b** and **10b** ON position of the relay contacts
- 11 Ground command to switch the relay to "a" position OFF position
- **12** Ground command to switch the relay to "b" position ON position
- 13 Electronic call input

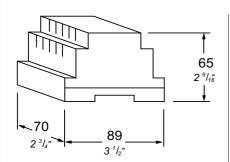
Position of J1 jumper (inside the article)











1471E. RELAY UNIT.

It is used when it is not possible to actuate commands directly. For example:

- stair light switching ON,
- activation of additional bells,
- additional door lock release, etc.

Can be fixed on DIN bar or screwed to the wall with 2 expansion plugs.

Technical data

Power supply: 13Vac; 12÷24Vdc

Current consumption: 0,05A Number of exchanges: 1

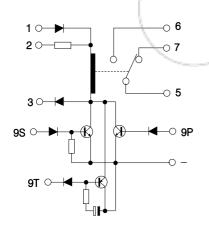
Switching current: 1A (24V)

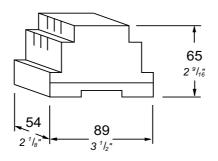
Housing: DIN 4 modules A

Operating temperature: 0° ÷ 50°C Maximum permissible humidity: 90% RH

Terminals

- 1 Alternate current input 13Vac-dc
- 2 Continuous current input 21 Vdc
- 3 Negative half-wave input or ground
- 5 Common contact of relay
- 6 Normally open contact of relay
- 7 Normally closed contact of relay
- 9P Electronic call input without resistive load
- 9S Electronic call input with resistive load
- 9T Electronic call input timed operation (1 sec.)
- Ground





1471. RELAY UNIT.

As **1471E**, with lower number of terminals and in a small housing.

Technical data

Powersupply: 13Vac; 12÷24Vdc

Current consumption: 0.05A Number of exchanges: 1

Number of exchanges: 1

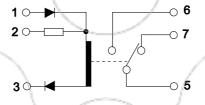
Switching current: 5A (50V)
Housing: DIN 3 modules A

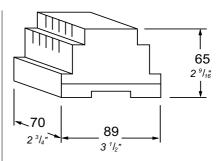
Operating temperature: 0° ÷ 50°C

Maximum permissible humidity: 90% RH

Terminals

- 1 Alternate current input 13Vac-dc
- 2 Continuous current input 21 Vdc
- 3 Negative half-wave input or ground
- 5 Common relay contact
- 6 Normally open contact of relay
- 7 Normally closed contact of relay





1472. 2- CONTACT RELAY UNIT.

As **1471E**, with higher number of exchanges and without terminals 9P and 9T.

Technical data

Power supply: 13Vac; 12÷24Vdc

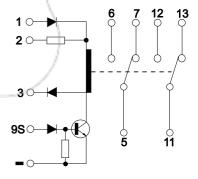
Current consumption: 0.05A Number of exchanges: 2

Switching current: 1A (24V)
Housing: DIN 4 modules A

Operating temperature: 0° ÷ 50°C Maximum permissible humidity: 90% RH

Terminals

- 1 Alternate current input 13Vac-dc
- 2 Continuous current input 21 Vdc
- 3 Negative half-wave input or ground
- 5 Common contact of exchange 1
- 6 Normally open contact of exchange 1
- 7 Normally closed contact of exchange 1
- 11 Common contact of exchange 2
- **12** Normally open contact of exchange 2
- 13 Normally closed contact of exchange 2
- 9S Electronic call input with resistive load
- Ground







INSTALLATION INSTRUCTIONS

- The cable runs of intercom and video intercom installations must be kept separate from the mains or any other electrical installation as required by the International Safety Standards and the entire installation must be realized in compliance with the safety rules in force in any specific Country.
- It is necessary to provide a disconnecting and safety switch before the power supply.
 Use a single general switch in case of several power supplies (also in multiple entrance).
- Before connecting the power supply make sure that its rating data corresponds to this of the mains.
- For electromagnetic reasons, all service modules must be installed near their power supply.

Wires

- 1) For the correct operation of the intercom and videointercom system you must choose the correct type of cable.
- Wires must be dimensioned according to the distance of the different devices and their current consumption.
- 3) Do not connect wires in parallel to reach the required cross-section (for example multipair telephone cables). Only use a single wire with suitable cross-section. When using multi-core cables you must select them with low parasite parameters (low capacitance per meter, low inductance over Ohm).
- If the installation includes additional power supplies you must place them near the device to be powered.

Background noise

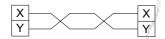
To avoid possible background noise over the speech line, it is advisable:

- not to lay intercom or telephone cables in the same runaway as the wires used to power alternate current loads;
- 6) to avoid using the same multi-core cable to transmit audio signals and alternate current power supplies (lamps, amplified external door stations, electrical door locks). Always use separate wires for alternate current power supplies;
- for name-plate lamps, to use an additional 12Vac transformer (PRS210 type) with suitable power (consumption is 75mA for each lamp) with 2 power supply wires separate from audio wires;
- 8) in case of long distances between the external door station and the last videointercom, to place the power supply near by the external door station.

WIRE CROSS SECTION

Dieteras		1.3.C7 E			A.S.	A . S. — (*)					Intercom installation terminals		
Distai	Distance 10 . 4 . 1 . C 7 . E . V+			F.H.A.S (*)			X.Y			Videointercom installation terminals			
 -	→				Name and Address of the Owner, where the Owner, which is the Ow					The Real Property and the Second			
m.	feet	mm² S	mm Ø	AWG	mm² S	mm Ø	AWG	mm² S	mm Ø	AWG			
50	165	0.5	0.8	20	0.75	1 /	18	0.35	0.6	22			
100 200	330 660	0.75 1	1 1.2	18 16	1 2	1.2 1.6	16 14	0.35 0.35	0.6 0.6	22 22			

Note. For distances longer than 100m (330ft) max 200m (660ft) use twisted pair wire for conductores **X** and **Y**.



For the video connection see page 51.





INSTALLATION INSTRUCTIONS

VIDEO SIGNAL DISTRIBUTION WITH TWISTED PAIR

If the distance between the camera and the last video intercom in the system is lower than 200m (660ft), the connection can be made with 2x0.35mm² wires (\emptyset =0.6mm; AWG22) instead of the coaxial cable. For distances from 100m (330ft) to 200m (660ft) a twisted pair must be used.



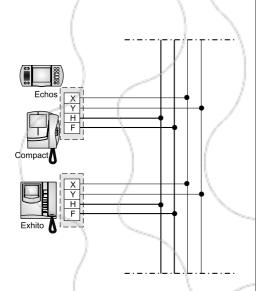
For the connection of the video signal you can choose from:

- connection with junction box
- serial connection (input and output)
- connection with floor distributors

CONNECTION WITH JUNCTION BOX

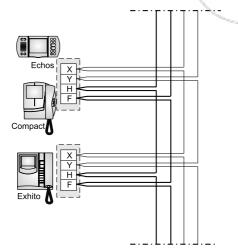
All wires are distributed in the floor junction box.

Due to the signal loss introduced by each connection, the maximum number of video intercoms that can be connected in serial mode is 20. Two 75Ω resistances must be inserted between X and F and between Y and F in the last video intercom. The maximum distance between the video intercoms and the connector block is 2.5 metres.



SERIAL CONNECTION

Connections are made on the video intercom brackets, and not in the junction box. Due to the signal loss introduced by each connection, the maximum number of video intercoms that can be connected in serial mode is 20. Two 75 Ω resistances must be inserted between X and F and between Y and F in the last video intercom.



CONNECTION WITH FLOOR DISTRIBUTORS

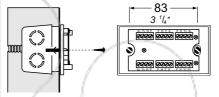
The video wires of each video intercom are insulated from the riser. Connections are made on the **DV2D** or **DV4D** floor video signal distributor box.

DV2D-DV4D. FLOOR VIDEO SIGNAL DISTRIBUTORS.

They allow for the distribution of the video signal taken from the riser on 2 or 4 outputs. They can be installed on the wall on a wall box, with expansion plugs or it can be placed in the junction box.

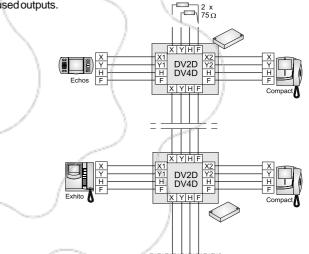
Technical data

Power supply 15÷21Vdc
Operating current 60mA
Max. input video signal 2Vpp
Insertion loss 0.8dB
Bandwidth >5MHz



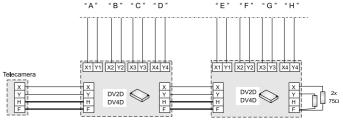
Connection of the video signal on a single riser

Terminals X and Y of the last distributor must be terminated with the 75Ω resistances supplied with the article. It is not necessary to terminate the unused outputs.



Connection of the video signal with distribution on several risers In video systems with different risers you must use 1 or more video distributors art. DV2D or DV4D.

Terminals X and Y of the last distributor must be terminated with the 75Ω resistances supplied with the article. It is not necessary to terminate the unused outputs.



Example of connection on 8 risers





Videointercom systems

Check that the connections of the system are carried out correctly.

Put the system in use by connecting the power supply to the mains.

By pushing a call button from the external pushbutton panel, it activates the bell of the corresponding video intercom and it activates the system for a time of about 100 seconds. The images appear on the video intercom a few seconds after the call.

If in the meantime another call occurs, the video intercom shuts itself OFF and connects the last call. The system switches OFF automatically after 100 seconds.

In case more calls occur simultaneously, a protection circuit against overloading and short circuiting is provided to disable the timer and therefore to shut OFF the system.

In the absence of calls from the door station, from any video intercom (if provided in the system) it is possible to control the entrance by pressing the ① button (control switch ON).

To work the electric door lock release press the button from video intercoms.

In the two or more entrance systems all the audio and video communications and door lock release, from one entrance to the other, are automatically switched with the call or the control switch ON.

In these systems the control switch ON from the video intercoms can interrupt a running communication, for this reason it is advisable to interrupt, by means of a relay. This function when the video system is active, giving the priority of the communication to the door stations for some examples from page 68 onwards.

Intercommunicating systems

The switch between door station or intercommunicating devices is automatic after receiving a call (from door station or from another intercommunicating device) or by pressing the button "" from video-intercoms. By pressing the button "" from intercoms or videointercoms electric look release is operated and automatically the system switches to the door station side. During an intercommunicating conversation between two devices, it would be possible from the external door station to call other apartments.

During an intercommunicating conversation between two devices an incoming call from the door station to one of the two devices will automatically switch the communication to the door station.

All the devices with intercommunicating features, when they are in communication with the door station, do not have privacy between them. On the contrary, the privacy with other apartments is guaranteed.

Installing several art. 1443ED in a multi ways installations allows to have the intercommunicating service between apartments with privacy towards the door station.

At the end of a communication art.1443ED remains switched to the side from which the last call has been originated.

Red LED shows that the switching module:

- is switched to the side of door station when it lights-ON
- is switched to the intercommunicating side or there is no power when it lights-OFF.

Intercom systems

For all the intercom systems, simply lift the handset to speak to the door station.

The call is indicated by a sound signal on the loudspeaker of the handset. If the handset of the intercom is not properly hung-up the sound is not reproduced.

To activate the door release, press the pushbutton with the key symbol.

In systems with two or more entrances the communication and door release are switched automatically on the entrance from which the call is made while the other entrances are isolated.

Adjustments

All the regulations are carried out in the factory. For possible corrections the intervention of a specialized technician is advisable.

The Contrast, Colour and Brightness adjustments, being subject to the environmental lighting conditions, are accessible from the underneath by means of a screw driver.





INTERCOMS AND VIDEOINTERCOMS

REDUCED WIRES TECHNOLOGY

INSTALLATION DIAGRAMS

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Notes.

For a clearer understanding of the diagrams, **the sequence of terminals in each individual article has not been followed.** Only the terminal code (letter and/or number) is valid, not the graphic sequence.

Terminals with the same letter or number have the same functions.

The items may have more terminals than the ones shown in the installation diagrams. The excess terminals must not be connected.





INTERCOMS WITH OR WITHOUT PRIVATE CONVERSATION CONNECTED TO 1 EXTERNAL DOOR STATION

• EXTERNAL DOOR STATIONS

AGORA' series		PROFILO series			RIX series	MODY series		
1	AG100A		PL71÷PL73		MA71÷MA73		MD71÷MD74	
	AG100T	1	PL81÷PL89	1	MAS61÷MAS63 (1)	1	MD84÷MD812	
	AG20	1	PL91÷PL99 *	1	MA91÷MA93 *	1	MD94÷MD912 *	
	AG21	1	PL10PED÷PL12PED	1	MAS10PED÷MAS12PED	1	MD10ED÷MD12ED	
	AG222		PL21÷PL228		MAS22, MAS24		MD21÷MD228	
1	AG30ED		PL20, PL50		MAS20		MD20, MD50	
			241DMA		241DMA		241D	

• INTERNAL STATIONS

 EX311	Exhito series with 2 call buttons
 EX321	Exhito series modular intercom
 KM811W	Compact series intercom with 1 call button
 PT511EW	Project series intercom with 1 call button
 SM50 ***	Private conversation module

• VARIOUS ARTICLES

1	PRS210ED	Transformer with electronic ringing generator
1	PA **	Door release push-button (optional)
1	SE **	Flectric door lock (12VAC-1A)

- ... Refers to number of users.
- (1) Or MA61÷MA63.
- Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.
- *** Only for diagram "b"; system with private conversation.

Working instructions. See page 52.

Notes

- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 50.
- For wires dimensioning refer to the installation recommendations and table on page 50.

Agorà door station

Note. Door station **AG100A** do not have the terminal **"E"** because the requested connection is automatically done inserting the pre-assembled cable which comes with the product (see drawing 5a on page 18). On the contrary, do not forget to make the connection between the terminal **"1"** of art. **AG100A** and terminal **"E"** of the additional door stations **AG100T**'s (if any).





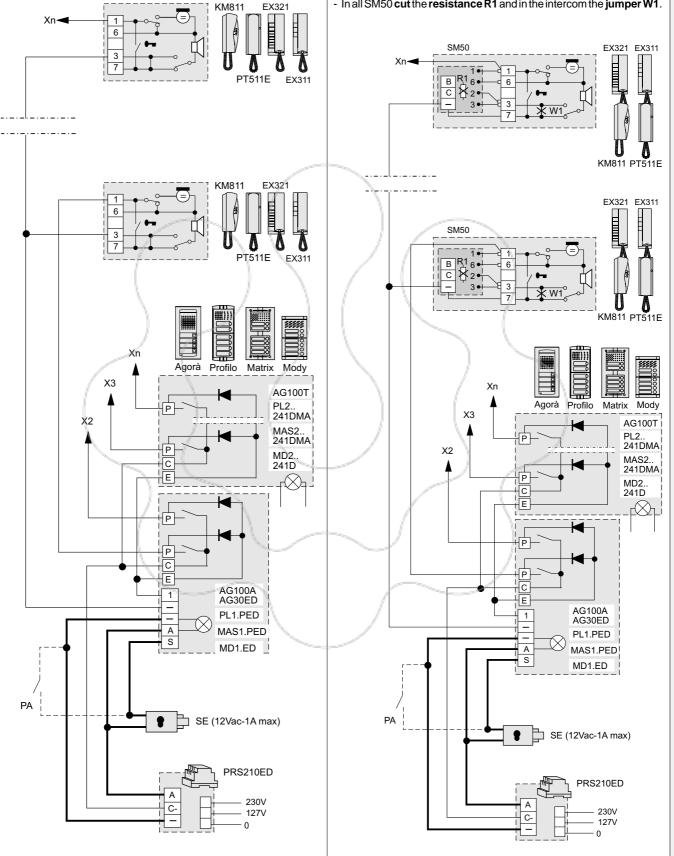
a) INTERCOMS CONNECTED TO 1 EXTERNAL DOOR **STATION**



b) INTERCOMS WITH PRIVATE CONVERSATION CON-**NECTED TO 1 EXTERNAL DOOR STATION**

Note

- In all SM50 cut the resistance R1 and in the intercom the jumper W1.







INTERCOMS CONNECTED TO 2 AUTOMATICALLY SWITCHED EXTERNAL DOOR STATIONS

• EXTERNAL DOOR STATIONS

AGC	<u>)RA'</u> series	PRC	<u>)FILO</u> series	MA	TRIX series	MOE	<u>DY</u> series
2	AG100A		PL71÷PL73		MA71÷MA73		MD71÷MD74
	AG100T	2	PL81÷PL89	2	MAS61÷MAS63 (1)	2	MD84÷MD812
	AG20	2	PL91÷PL99 *	2	MA91÷MA93 *	2	MD94÷MD912 *
	AG21	2	PL10PED÷PL12PED	2	MAS10PED÷MAS12PED	2	MD10ED÷MD12ED
	AG222		PL21÷PL228		MAS22, MAS24		MD21÷MD228
2	AG30ED		PL20, PL50		MAS20		MD20, MD50
			241DMA		241DMA		241D

• INTERNAL STATIONS

 EX311	Exhito series with 2 call buttons
 EX321	Exhito series modular intercom

KM811W Compact series intercom with 1 call button **PT511EW** Project series intercom with 1 call button

VARIOUS ARTICLES

1473	Exchanger
17/3	LAGRANGE

PRS210ED Transformer with electronic ringing generator

PRS210 1

PA ** Door release push-button (optional) 2 2 **SE** ** Electric door lock (12VAC-1A)

- ... Refers to number of users.
- (1) Or MA61÷MA63.
- Rain shelters are used instead of back boxes and hood covers.
- Articles not supplied by ACI Farfisa.

Working instructions. See page 52.

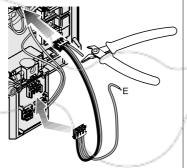
Notes

- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 50.
- For wires dimensioning refer to the installation recommendations and table on page 50.

Agorà door stations

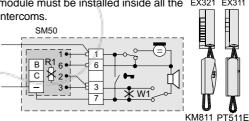
Attention. To create the terminal "E" in the door stations AG100A it is necessary to cut the red wire which connects the door speaker amplifier AG30ED to the backlighting board with diodes and LED's (see figure).

The terminal "E" of the entrance "a" must remain disconnected and insulated, on the contrary that of entrance "b" must be connected to the terminals "E" of additional AG100T's (if any).



Install the privacy module.

If privacy feature is requested, SM50 module must be installed inside all the EX321 EX311 intercoms.



In all SM50 cut the resistance R1 and in the intercom the jumper W1.





INTERCOMS CONNECTED TO 2 AUTOMATICALLY SWITCHED EXTERNAL DOOR STATIONS EX321 EX311 Xn-6 3 KM811 PT511E EX321 EX311 1 6 3 KM811 PT511E X2 Х3 Xn Agorà Matrix Agorà Matrix Mody Profilo Profilo AG100T AG100T PL2.. 241DMA PL2.. MAS2.... MAS2.. MD2.. 241DMA MD2.. P 241D С \otimes E P Р С 3 7 6 E E AG100A AG30ED AG100A AG30ED 1 7a 7b 1 PL1.PED PL1.PED 2 1 MAS1.PED Α Α MAS1.PED S S 4 MD1.ED __ MD1.ED _ 1473 5 entrance "a" entrance "b" PΑ PA SE PRS210ED PRS210 230V - 230V 127V 127V 0

— 57 (MT11 - Gb2012) AGODA' sorios

INTERCOM SYSTEM WITH SECONDARY DOOR STATIONS AND 1 MAIN COMMON STATION (multiple entrance)

MATRIX sorios

• EXTERNAL DOOR STATIONS

<u> </u>	INA SCITES	INO	I ILO Series		IXIX Selles	IVIOD	1 301103
1+X	AG100A		PL71÷PL73		MA71÷MA73		MD71÷MD74
	AG100T	1+X	PL81÷PL89	1+X	MAS61÷MAS63 (1)	1+X	MD81÷MD812
	AG20	1+X	PL91÷PL99 *	1+X	MA91÷MA93 *	1+X	MD91÷MD912 *
	AG21	1+X	PL10PED÷PL12PED	1+X	MAS10PED÷MAS12PED	1+X	MD10ED÷MD12ED
	AG222		PL21÷PL228		MAS22, MAS24		MD21÷MD228
1+X	AG30ED		PL20, PL50		MAS20		MD20, MD50
			241DMA		241DMA		241D

• INTERNAL STATIONS

 EX311	Exhito series with 2 call buttons
 EX321	Exhito series modular intercom

Compact series intercom with 1 call button **KM811W PT511EW** Project series intercom with 1 call button

DDOELL O sorios

• VARIOUS ARTICLES

X	1473	Exchanger
---	------	-----------

Χ PRS210ED Transformer with electronic ringing generator

PRS210 Transformer

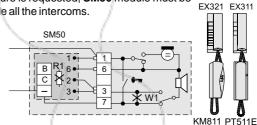
1+X PA ** Door release push-button (optional) SE ** Electric door lock (12VAC-1A) 1+X

- Refers to number of users.
- Refers to the number of stairways.
- (1) Or MA61÷MA63.
- Rain shelters are used instead of back boxes and hood covers.
- Articles not supplied by ACI Farfisa.

- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 50.
- For wires dimensioning refer to the installation recommendations and table on page 50.

Install the privacy module.

If privacy feature is requested, SM50 module must be installed inside all the intercoms.



MODV corios

In all SM50 cut the resistance R1 and in the intercom the jumper W1.

Working instructions.

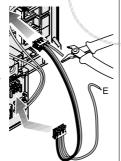
As the basic system described on page 52, with the following variations:

- The audio functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

Agorà door stations

Attention. In the door station AG100A of the secondary entrances create the terminal "E" cutting the red wire which connects the door speaker AG30ED to the backlighting board (see figure), than connect it to the terminals "E" of additional AG100T's (if any).

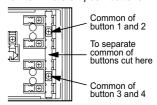
In the door station AG100A of the main entrance only cut and insulate the conductor "E" (red wire).

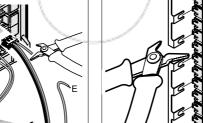


The main entrance push-button panel must have separate common terminals. One common terminal for each secondary door station. The common terminals of push-buttons Profilo and Matrix series can be separated only module by module.

The common terminals of push-button Agorà series can be separated according to the requirements, by cutting opportunely the common rail or just do not using it.

In Mody series the common terminals of push-buttons can be separated module by module or every 2 pushbuttons by cutting opportunely the common rail which connects the common terminals of push-buttons.







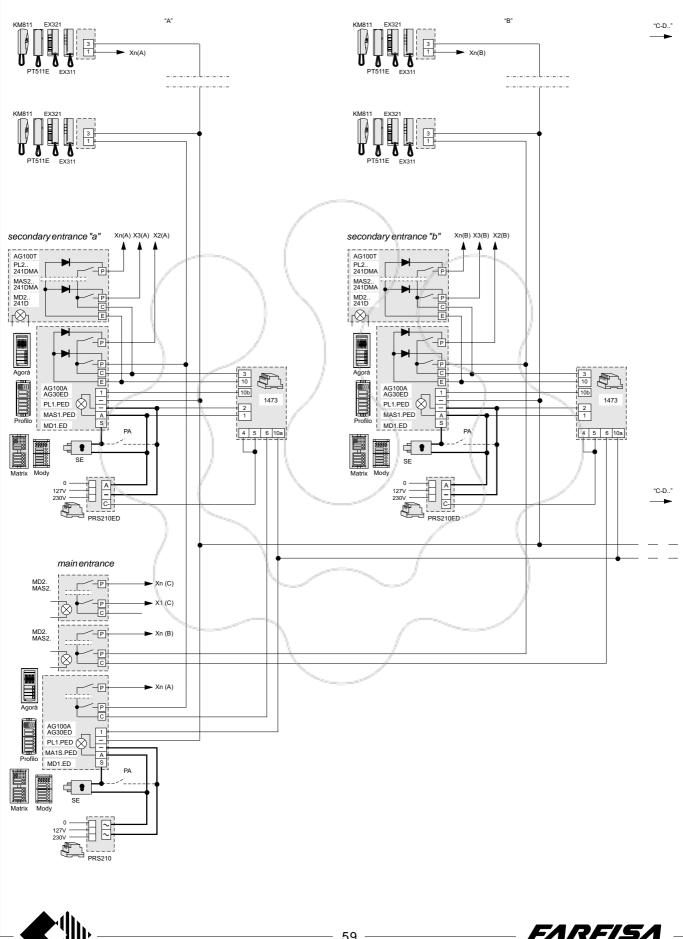
Common buttons

building "a"





INTERCOM SYSTEM WITH SECONDARY DOOR STATIONS AND 1 MAIN COMMON STATION (multiple entrance)



ONE-WAY INTERCOM SYSTEM WITH SECONDARY DOOR STATIONS AND 1 MAIN COMMON DOOR STATION

• Main DOOR STATION

AGO	RA' series	PRO	FILO series	MAT	RIX series	MOD	<u>Y</u> series
1	AG100A		PL71÷PL73		MA71÷MA73		MD71÷MD74
	AG100T	1	PL81÷PL89	1	MAS61÷MAS63 (1)	1	MD81÷MD812
	AG20	1	PL91÷PL99 *	1	MA91÷MA93*	1	MD91÷MD912 *
	AG21	1	PL10PED÷PL12PED	1	MAS10PED÷MAS12PED	1	MD10ED÷MD12ED
	AG222		PL21÷PL228		MAS22, MAS24		MD21÷MD228
1	AG30ED		PL20, PL50		MAS20		MD20, MD50

• Secondary DOOR STATIONS

AGO	RA' series	PRO	OFILO series	MAT	'RIX series	MOI	DY series	
X X 3xX X	AG100A AG21 AG20 AG30ED	X X X	PL71 PL81 PL91 * PL11PED	X X X	MA71 MAS61 (1) MA91.* MAS11PED	X X X	MD71 MD81 MD91 * MD11ED	
		X	241DMA	X	241DMA	X	241D	

• INTERNAL STATIONS

 EX311	Exhito series with 2 call buttons
 EX321	Exhito series modular intercom
 KM811W	Compact series intercom with 1 call button
 PT511EW	Project series intercom with 1 call button

VARIOUS ARTICLES

Χ	1473	Exchanger
Χ	PRS210ED	Transformer with electronic ringing generator
1	PRS210	Transformer
1+X	PA **	Door release push-button (optional)
1+X	SE **	Electric door lock (12VAC-1A)
Χ	D **	100V-1A diode (type 1N4007)

- ... Refers to number of users.
- X Refers to the number of stairways.
- (1) Or MA61÷MA63.
- * Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

Notes

- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 50.
- For wires dimensioning refer to the installation recommendations and table on page 50.

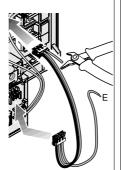
Working instructions.

As the basic system described on page 52, with the following variations:

- The audio functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

Agorà door stations

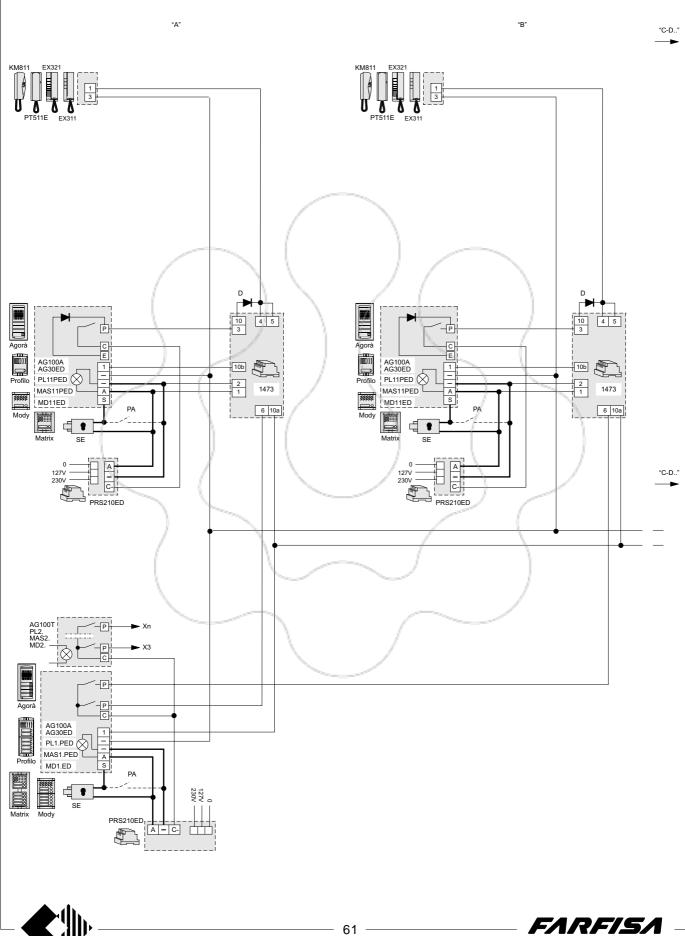
Attention. In the door stations AG100A it is necessary to cut and insulate the red wire which connects the door speaker amplifier AG30ED to the backlighting board with diodes and LED's (see figure).







ONE-WAY INTERCOM SYSTEM WITH SECONDARY DOOR STATIONS AND 1 MAIN COMMON DOOR STATION (multiple entrance)



INTERCOM SYSTEM WITH SECONDARY DOOR STATIONS AND 2 MAIN COMMON STATIONS (multiple entrance)

• EXTERNAL DOOR STATIONS

AGO	RA' series	PROI	FILO series	MAT	RIX series	MOD	<u>Y</u> series
2+X	AG100A		PL71÷PL73		MA71÷MA73		MD71÷MD74
	AG100T	2+X	PL81÷PL89	2+X	MAS61÷MAS63 (1)	2+X	MD81÷MD812
	AG20	2+X	PL91÷PL99 *	2+X	MA91÷MA93*	2+X	MD91÷MD912 *
	AG21	2+X	PL10PED÷PL12PED	2+X	MAS10PED÷MAS12PED	2+X	MD10ED÷MD12ED
	AG222		PL21÷PL228		MAS22, MAS24		MD21÷MD228
2+X	AG30ED		PL20, PL50		MAS20		MD20, MD50
			241DMA		241DMA		241D

• INTERNAL STATIONS

 EX311	Exhito series with 2 call buttons
 EX321	Exhito series modular intercom

.. KM811W Compact series intercom with 1 call button
PT511EW Project series intercom with 1 call button

VARIOUS ARTICLES

2xX	1473	Exchanger
Χ	PRS210ED	Transformer with electronic ringing generator
2	PRS210	Transformer
2+X	PA **	Door release push-button (optional)
2+X	SE **	Electric door lock (12VAC-1A)

- ... Refers to number of users.
- X Refers to the number of stairways.
- (1) Or MA61÷MA63.
- Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

Notes

- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 50.
- For wires dimensioning refer to the installation recommendations and table on page 50.

Working instructions.

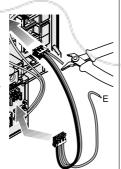
As the basic system described on page 52, with the following variations:

- The audio functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

Agorà door stations

Attention. In the door station AG100A of the secondary entrances create the terminal "E" cutting the red wire which connects the door speaker AG30ED to the backlighting board (see figure), than connect it to the terminals "E" of additional AG100T's (if any).

In the door station **AG100A** of the **main** entrances only cut and insulate the conductor "E" (red wire).



Install the privacy module.

If privacy feature is requested, **SM50** module must be installed inside all the intercoms.

SM50

BR16 6 6 7 7 W10

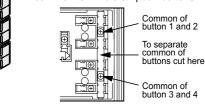
EX321 EX311

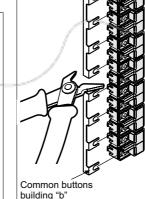
In all SM50 ${\it cut}$ the ${\it resistance}\,R1$ and in the intercom the ${\it jumper}\,W1$.

The main entrance push-button panel must have separate common terminals. One common terminal for each secondary door station. The common terminals of push-buttons **Profilo** and **Matrix** series **can be**

separated only module by module.
The common terminals of push-button
Agorà series can be separated according
to the requirements, by cutting
opportunely the common rail or just do
not using it.

In **Mody** series the common terminals of push-buttons can be separated module by module or every 2 push-buttons by cutting opportunely the common rail which connects the common terminals of push-buttons.





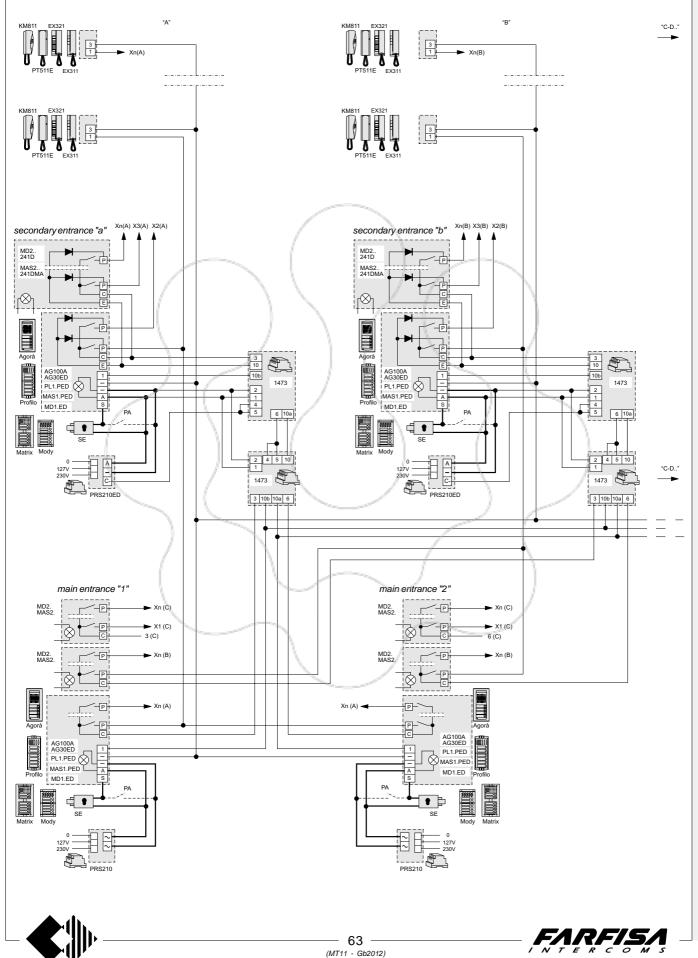
Common buttons

building "a"



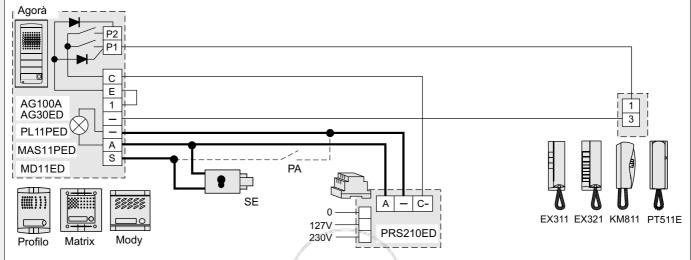


INTERCOM SYSTEM WITH SECONDARY DOOR STATIONS AND 2 MAIN COMMON STATIONS (multiple entrance)



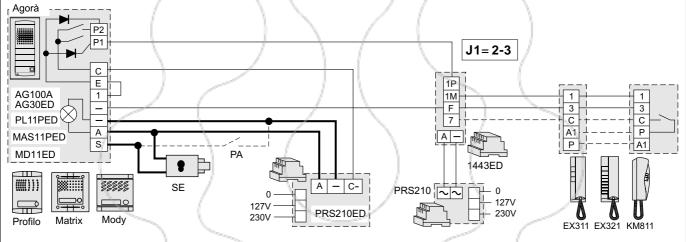
4+1 VIDEOINTERCOMS

ONE-WAY INTERCOM SYSTEM



Si 211R/5

ONE-WAY INTERCOM SYSTEM WITH INTERCOMMUNICATING SERVICE BETWEEN 2 INTERCOMS



• EXTERNAL DOOR STATIONS for Si 211R/1 and Si 211R/5

AGO	RA' series	PROFILO series	MAT	RIX series	MOD	<u>Y</u> series
1	AG100A	1 PL71	1	MA71	1	MD71
1	AG21	1 PL81	1	MAS61 (1)	1	MD81
3	AG20	1 PL91 *	1	MA91 *	1	MD91 *
1	AG30ED	1 PL11PED	1	MAS11PED	1	MD11ED

• INTERNAL STATIONS for Si 211R/1				 INTERNAL STATIONS for Si 211R/5 			
1	EX311	Exhito series with 2 call buttons	2	EX311	Exhito series with 2 call buttons		
1	EX321	Exhito series modular intercom	2	EX321	Exhito series modular intercom		
1	KM811W	Compact series intercom with 1 call butto	n 2	KM811W	Compact series intercom with 1 ca		

• VARIOUS ARTICLES for Si 211R/1

1	PRS210ED PA ** SE **	Transformer with electronic ringing generator Door release push-button (optional) Electric door lock (12VAC-1A)
---	----------------------------	---

Project series intercom with 1 call button

• VARIOUS ARTICLES for Si 211R/5

1	PRS210ED	Transformer with electronic ringing generator
1	PRS210	Transformer
1	1443ED	Switcher module for intercommunicating system
1	PA **	Door release push-button (optional)
1	SE **	Electric door lock (12VAC-1A)

(1) Or MA61.

1 PT511EW

- Rain shelters are used instead of back boxes and hood
- ** Articles not supplied by ACI Farfisa.

Working instructions. See page 52.

Notes

ST701

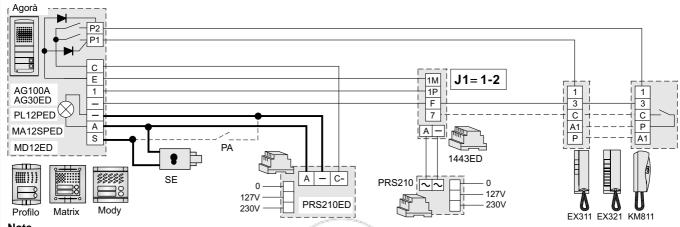
- In art. 1443ED it is necessary to move the jumper J1 in the position indicated in the installation diagram (see also on page 48).

Additional push-button for intercom KM811W

- Do not forget to connect the terminal E with the terminal 1 of the door stations Profilo, Matrix and Mody (no connection it is required in the Agorà series).
- For wires dimensioning refer to the installation recommendations and table on page 50.



TWO-WAY INTERCOM SYSTEM WITH INTERCOMMUNICATING SERVICE BETWEEN 2 APARTMENTS

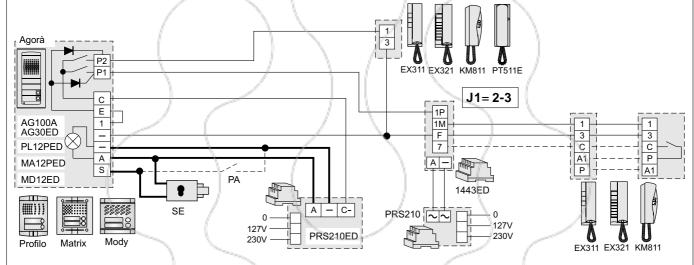


Note.

In the door station AG100A cut the red wire to create the terminal "E" (see drawing 5b on page 18).

Si 212R/3

TWO-WAY INTERCOM SYSTEM WITH INTERCOMMUNICATING SERVICE BETWEEN IN AN APARTMENT



• EXTERNAL DOOR STATIONS for Si 212R/1 and Si 212R/3

AGC	<u>)RA'</u> series	PROFILO series	MATRIX series	MODY series
1	AG100A	PL71	1 MA71	1 MD71
2	AG21	1 PL81	1 MAS61 (1)	1 MD81
2	AG20	1 PL91 *	1 MA91 *	1 MD91 *
1	AG30ED	1 PL12PED	1 MAS12PED	1 MD12ED

• INTERNAL STATIONS for Si 212R/1

2	EX311 EX321 KM811W ST701	Exhito series with 2 call buttons Exhito series modular intercom Compact series intercom with 1 call button Additional push-button for intercom KM811W	3 3 3 1 2	EX311 EX321 KM811W ST701	Exhito series with 2 call buttons Exhito series modular intercom Compact series intercom with 1 call button Additional push-button for intercom KM811W
_		, addition of page 1	1	PT511EW	Project series intercom with 1 call button

• INTERNAL STATIONS for Si 212R/3

• VARIOUS ARTICLES for Si 212R/1 and Si 212R/3

PRS210ED Transformer with electronic ringing generator

PRS210 1 Transformer

1443ED Switcher module for intercommunicating system

PA ** 1 Door release push-button (optional) SE ** 1 Electric door lock (12VAC-1A)

(1) Or MA61.

- Rain shelters are used instead of back boxes and hood
- Articles not supplied by ACI Farfisa.

Working instructions. See page 52.

Notes

- In art. 1443ED it is necessary to move the jumper J1 in the position indicated in the installation diagram (see also on page 48).
- Do not forget to connect the terminal E with the terminal 1 of the door stations Profilo, Matrix and Mody (no connection it is required in the Agorà series).
- For wires dimensioning refer to the installation recommendations and table on page 50.



MULTI-WAY INTERCOM SYSTEM WITH A DOOR STATION AND SOME APARTMENTS WITH INTERCOMMUNI-CATING SERVICE

• EXTERNAL DOOR STATIONS

AGORA' series		PROFILO series		MATRIX series			MODY series	
1	AG100A		PL71÷PL73		MA71÷MA73		MD71÷MD74	
	AG100T	1	PL81÷PL89	1	MAS61÷MAS63 (1)	1	MD81÷MD812	
	AG20	1	PL91÷PL99 *	1	MA91÷MA93*	1	MD91÷MD912 *	
	AG21	1	PL10PED÷PL12PED	1	MAS10PED÷MAS12PED	1	MD10ED÷MD12ED	
	AG222		PL21÷PL228		MAS22, MAS24		MD21÷MD228	
1	AG30ED		PL20, PL50		MAS20		MD20, MD50	
			241DMA		241DMA		241D	

• INTERNAL STATIONS WITHOUT INTERCOMMUNICATING SERVICE (for the details of the internal intercommunicating devices which can be installed see the list on the bottom of this page)

... EX311 Exhito series with 2 call buttons
... EX321 Exhito series modular intercom
... KM811W Compact series intercom with 1 call button
... PT511EW Project series intercom with 1 call button

• VARIOUS ARTICLES (for all the specific devices to be installed in the intercommunicating apartments see the detailed list on the bottom of this page)

1 PRS210ED Transformer with electronic ringing generator
1 PA ** Door release push-button (optional)
1 SE ** Electric door lock (12VAC-1A)

... Refers to number of users.

- (1) Or MA61÷MA63.
- Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

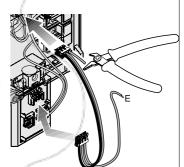
Working instructions. See page 52.

Notes

- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 50.
- For wires dimensioning refer to the installation recommendations and table on page 50.

Agorà door station

Attention. In the door station AG100A of the secondary entrances create the terminal "E" cutting the red wire which connects the door speaker AG30ED to the backlighting board (see figure).



In the multi-apartment diagram are shown 3 different examples of connection for the intercommunicating service.

(A) Intercommunicating service between 2 apartments each of them with 2 parallel intercoms (Exhito and/or Compact series)

Ex	<u>hito</u>	Co	<u>Compact</u>		
4	EX311	4	KM811W		
	EX321	1	1443ED		
1	1443ED	1	PRS210		
1	PRS210	4	ST701		

Notes:

- In the art. **1443ED** move the jumper **J1** from the position 2-3 to the position **1-2**.
- In each of the 2 apartments it is be possible to connect at maximum 3 intercoms in parallel, but the intercommunicating calls are between apartments (and not among the intercoms in the same apartment).

(B) Intercommunicating service in the same apartment between 2 intercoms (Exhito and/or Compact series)

<u>Ex</u> l	nito -	Co	Compact		
2	EX311	2	KM811W		
	EX321	2	ST701		
1	1443ED	1	1443ED		
1	PRS210	1	PRS210		

Notes:

- Verify that in the art. 1443ED the jumper J1 has been set in the position 2-3.
- To make an intercommunicating call, pick up the handset, be sure that there are not any other communication in progress, and press the push-button 1. The called intercom, to receive the ringing tone, must have the handset correctly hooked in its place (not unhooked).

(C) Intercommunicating service in the same apartment with 3 intercoms Exhito series

Exhito

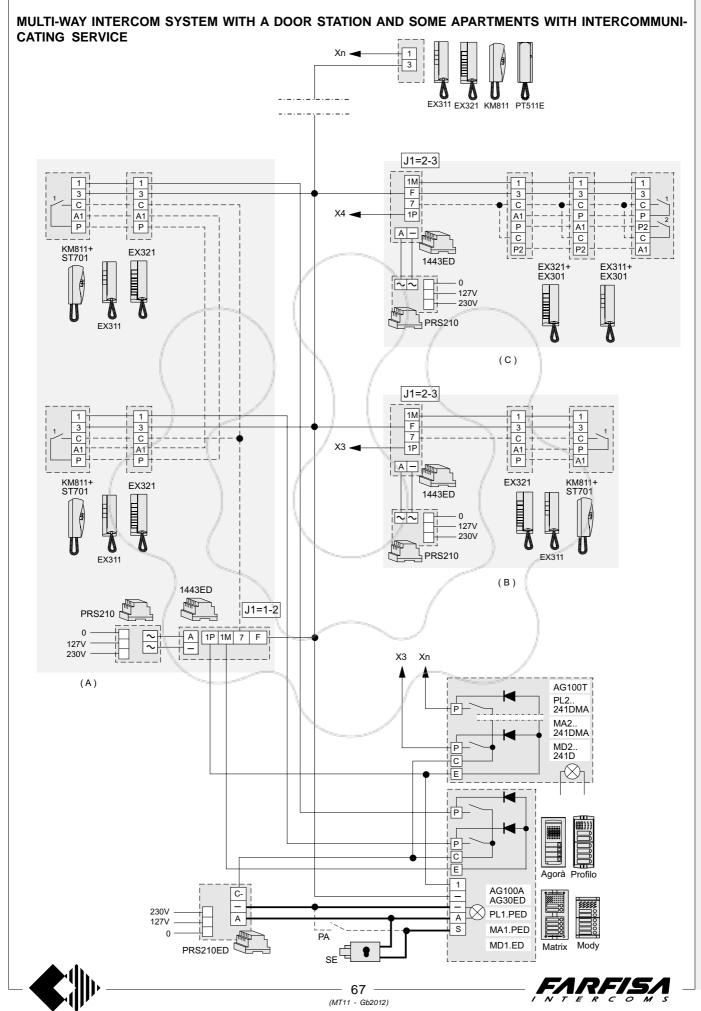
3	EX311	3	EX321
3	EX301	3	EX301
1	1443ED	1	1443ED
1	PRS210	1	PRS210

Notes:

- Verify that in the art. **1443ED** the jumper **J1** has been set in the position **2-3**.
- To make an intercommunicating call, pick up the handset, be sure that there are not any other communication in progress, and press the push-button 1 or 2. The called intercom, to receive the ringing tone, must have the handset correctly hooked in its place (not unhooked).







MULTI-WAY MIXED INTERCOM AND VIDEOINTERCOM SYSTEM CONNECTED TO ONE EXTERNAL DOOR STATION

• EXTERNAL DOOR STATIONS

AGC	RA' series	PRO	FILO series	MAT	RIX series	MOE	<u>DY</u> series
1	AG100V		PL71÷PL73		MA71÷MA73		MD72÷MD74
	AG100T	1	PL81÷PL89		MAS61÷MAS63 (1)	1	MD82÷MD812
	AG20	1	PL91÷PL99 *	1	MA91÷MA93 *	1	MD92÷MD912 *
	AG21	1	PL40PCED÷PL42PCED	1	MAS43CED	1	MD10ED÷MD12ED
	AG222		PL40PED÷PL42PED		MAS43ED	1	MD41D
1	AG40CED		PL21÷PL228		MAS22, MAS24		MD21÷MD228
			PL20, PL50		MAS20		MD20, MD50
			241DMA		241DMA		241D

• VIDEOINTERCOMS

EC	HOS series	EXHITO series	COMPACT series
	EH9161CT	EX3100C	KM8111CW
	EH9161CW	EX3160C	KM8111W
	9083	EX3160	WB8111
	WA9100T-W	WB3161	
	TA9160	TA3160	\ /

INTERCOMS

EXHITO series	COMPACT series	PROJECT series
EX311	KM811W SM50 ***	PT511EW SM50 ***
SM50 ***	OIVIOU	SIVIOU

• VARIOUS ARTICLES

1	1181E	Timed power-supply
	DV2D-DV4D	Video distributors
1	PA **	Door release push-button (optional)
1	SE **	Electric door lock (12VAC-1A)

- ... Refers to number of users.
- (1) Or MA61÷MA63.

 * Rain shelters are
- * Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.
- *** Use only for privacy feature.

Working instructions. See page 52.

Notes

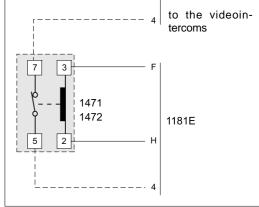
- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 50.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 50 and 51.

Agorà door stations

Note. Door station **AG100V** do not have the terminal "E" because the requested connection is automatically done inserting the pre-assembled cable which comes with the product (see drawing 5a on page 18). On the contrary, do not forget to make the connection between the terminal "1" of art. **AG100V** and terminal "E" of the additional door stations **AG100T**'s (if any).

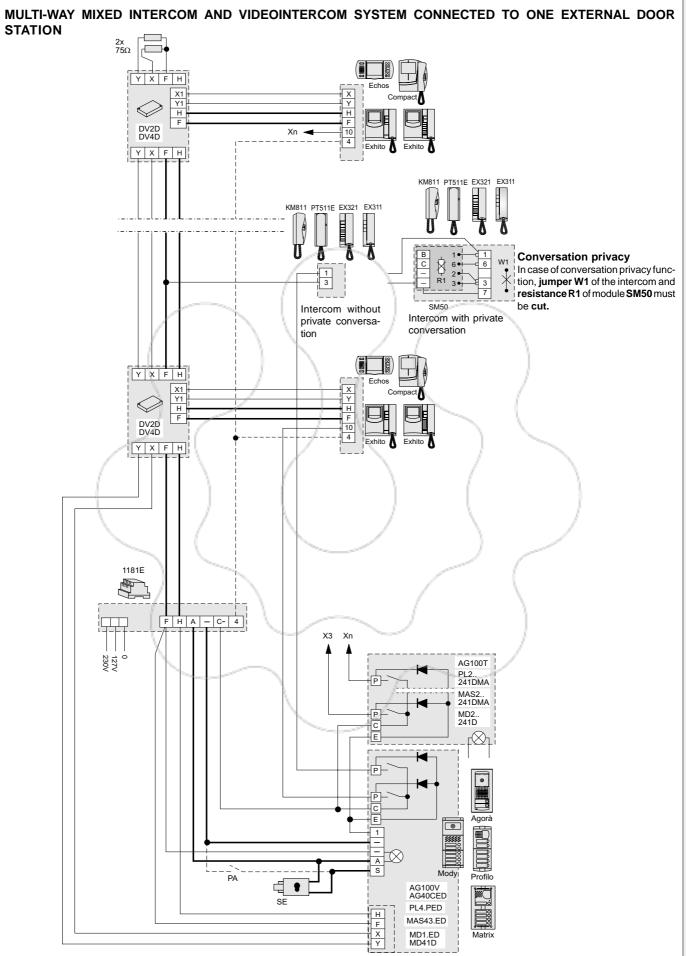
Control switching ON deactivation

To activate the control switching ON from the videointercoms only when the system is in stand-by, it is necessary to install a relay (type 1471 or 1472) and connect it as shown on the diagram.











MULTI-WAY VIDEOINTERCOM SYSTEM CONNECTED TO ONE EXTERNAL DOOR STATION WITH SURVEIL-LANCE CAMERA

• EXTERNAL DOOR STATIONS

AGC	<u> DRA'</u> series	PRC	OFILO series	MA	TRIX series	MOI	<u>DY</u> series
1	AG100A		PL71÷PL73		MA71÷MA73		MD71÷MD74
	AG100T	1	PL81÷PL89		MAS61÷MAS63 (1)	1	MD81÷MD812
	AG20	1	PL91÷PL99 *	1	MA91÷MA93 *	1	MD91÷MD912 *
	AG21	1	PL10PED÷PL12PED	1	MAS10PED÷MAS12PED	1	MD10ED÷MD12ED
	AG222		PL21÷PL228		MAS22, MAS24		MD21÷MD228
1	AG30ED		PL20, PL50		MAS20		MD20, MD50
			241DMA		241DMA		241D

• INTERNAL STATIONS

ECHOS series		EXI	HITO series	CO	COMPACT series		
	EH9161CT		EX3100C	All Printers	KM8111CW		
	EH9161CW		EX3160C	/	KM8111W		
	9083		EX3160	/	WB8111		
	WA9100T-W		WB3161	/)		
	TA9160		TA3160				

VARIOUS ARTICLES

1	1181E	Timed power-supply
	DV2D-DV4D	Video distributors
1	CV01	Video signal converter
1	TVT	CCTV camera
1	Н	Lens with or without autoiris
1	CU	Outdoor heated housing
1	AST	Bracket for camera or housing
1	APS	Power supply for camera
1	PA **	Door release push-button (optional)
1	SE **	Electric door lock (12VAC-1A)

- ... Refers to number of users.
- (1) Or MA61÷MA63.
- * Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

Working instructions. See page 52.

Notes

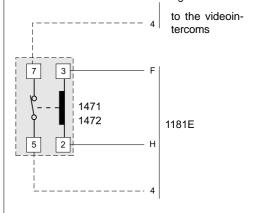
- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 50.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 50 and 51.

Agorà door station

Note. Door station **AG100A** do not have the terminal **"E"** because the requested connection is automatically done inserting the pre-assembled cable which comes with the product (see drawing 5a on page 18). On the contrary, do not forget to make the connection between the terminal **"1"** of art. **AG100A** and terminal **"E"** of the additional door stations **AG100T**'s (if any).

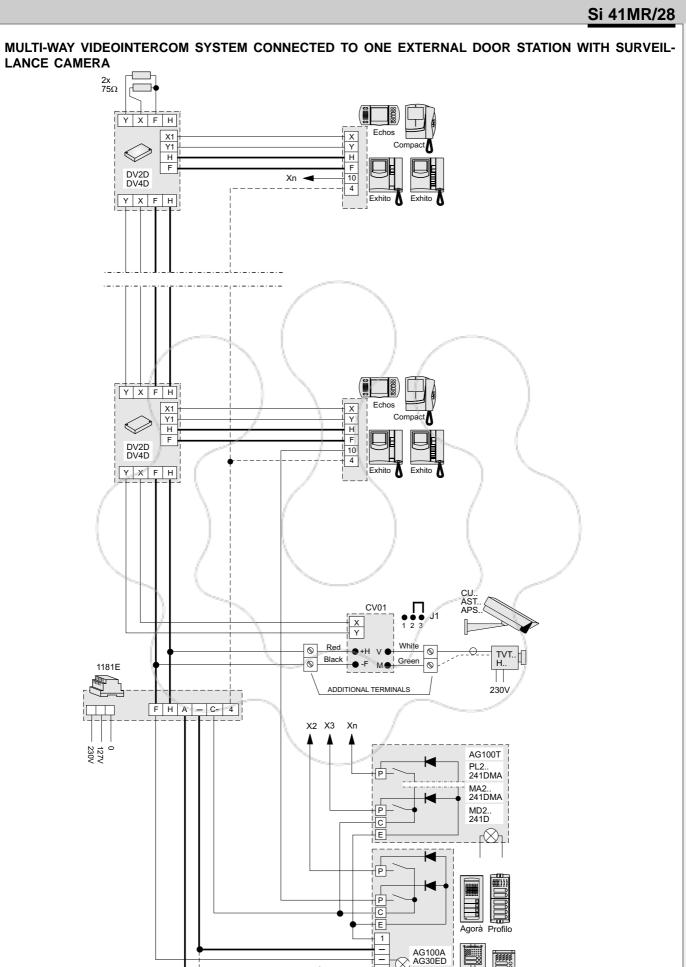
Control switching ON deactivation

To activate the control switching ON from the videointercoms only when the system is in standby, it is necessary to install a relay (type **1471** or **1472**) and connect it as shown on the diagram.











PA



PL1.PED

MA1.PED

MD1.ED

____ 71 _____ (MT11 - Gb2012) Mody

Matrix

MULTI-WAY VIDEOINTERCOM SYSTEM CONNECTED TO TWO EXTERNAL DOOR STATIONS, ONE OF WHICH ONLY AUDIO

• EXTERNAL DOOR STATIONS

AGORA' series P		PRO	PROFILO series		MATRIX series		MODY series	
1	AG100V		PL71÷PL73		MA71÷MA73		MD72÷MD74	
1	AG100A	2	PL81÷PL89		MAS61÷MAS63 (1)	2	MD82÷MD812	
	AG100T	2	PL91÷PL99 *	2	MA91÷MA93 *	2	MD92÷MD912 *	
	AG20	1	PL40PCED÷PL42PCED	1	MAS43CED	2	MD10ED÷MD12ED	
	AG21		PL40PED÷PL42PED		MAS43ED	1	MD41D	
	AG222	1	PL10PED÷PL12PED	1	MAS10PED÷MAS12PED		MD21÷MD228	
1	AG30ED		PL21÷PL228		MAS22, MAS24	•	MD20, MD50	
1	AG40CED		PL20, PL50		MAS20		241D	
			241DMA		241DMA			

• INTERNAL STATIONS

ECI	HOS series	EXH	IITO series	1	CON	MPACT series
	EH9161CT		EX3100C			KM8111CW
	EH9161CW		EX3160C	/		KM8111W
	9083		EX3160			WB8111
	WA9100T-W	/	WB3161	\		/
	TA9160	./	TA3160	1		

• VARIOUS ARTICLES

1	1473	Exchanger
1	1181E	Timed power-supply
1	PRS210	Transformer
	DV2D-DV4D	Video distributors
2	PA **	Door release push-button (optional)
2	SE **	Electric door lock (12VAC-1A)

- ... Refers to number of users.
- (1) Or MA61÷MA63.
- * Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

Working instructions.

As the basic system described on page 52, with the following variations:

- The audio-video functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.

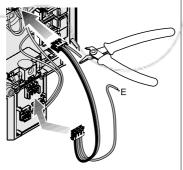
Notes

- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 50.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 50 and 51.

Agorà door stations

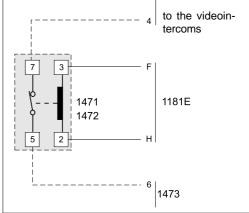
Attention. To create the terminal "E" in the door station AG100A and AG100V it is necessary to cut the red wire which connects the door speaker amplifier AG30ED or AG40CED to the backlighting board with diodes and LED's (see figure).

The terminal "E" of the entrance "b" must remain disconnected and insulated, on the contrary that of entrance "a" must be connected to the terminals "E" of additional AG100T's (if present).



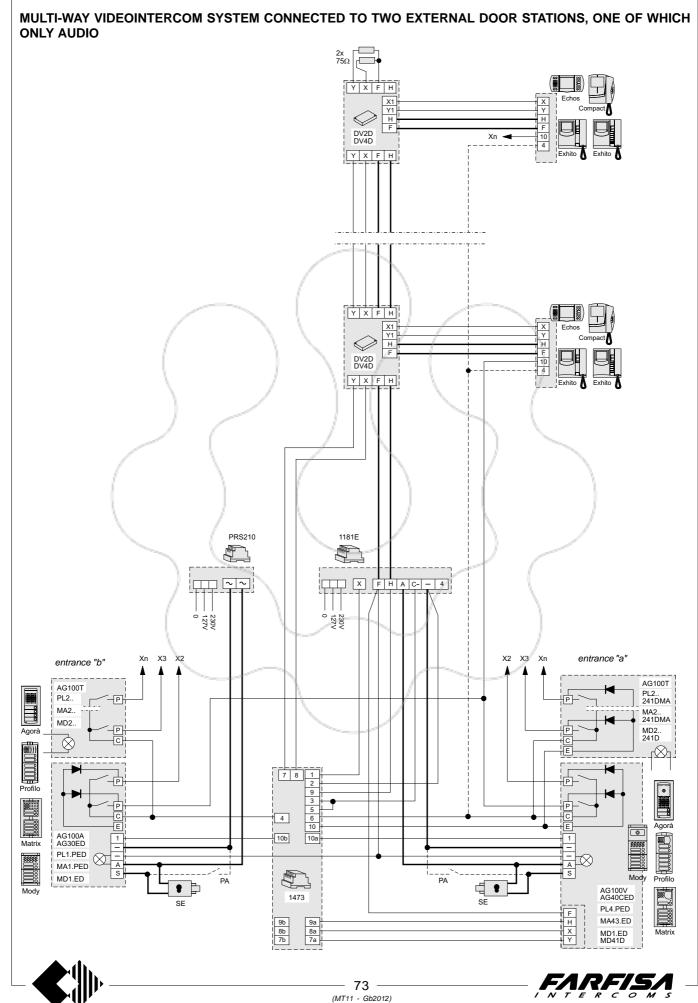
Control switching ON deactivation

To activate the control switching ON from the videointercoms only when the system is in standby, it is necessary to install a relay (type 1471 or 1472) and connect it as shown on the diagram.









MULTI-WAY VIDEOINTERCOM SYSTEM CONNECTED TO TWO EXTERNAL DOOR STATIONS

• EXTERNAL DOOR STATIONS

AGORA' series		PROFILO series		MATRIX series		MODY series	
2	AG100V		PL71÷PL73		MA71÷MA73		MD72÷MD74
	AG100T	2	PL81÷PL89		MAS61÷MAS63 (1)	2	MD82÷MD812
	AG20	2	PL91÷PL99 *	2	MA91÷MA93 *	2	MD92÷MD912 *
	AG21	2	PL40PCED÷PL42PCED	2	MAS43CED	2	MD10ED÷MD12ED
	AG222		PL40PED÷PL42PED		MAS43ED	2	MD41D
2	AG40CED		PL21÷PL228		MAS22, MAS24		MD21÷MD228
			PL20, PL50		MAS20		MD20, MD50
			241DMA		241DMA		241D

• INTERNAL STATIONS

ECI	HOS series	EXH	HITO series	COI	MPACT series
	EH9161CT		EX3100C	April 1 miles	KM8111CW
	EH9161CW		EX3160C	/	KM8111W
	9083		EX3160	/	WB8111
	WA9100T-W		WB3161	/	\
	TA9160		TA3160		

VARIOUS ARTICLES

1	1473	Exchanger
1	1181E	Timed power-supply
1	PRS210	Transformer
	DV2D-DV4D	Video distributors
2	PA **	Door release push-button (optional)
2	SE **	Electric door lock (12VAC-1A)

- ... Refers to number of users.
- (1) Or MA61÷MA63.
- * Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

Working instructions.

As the basic system described on page 52, with the following variations:

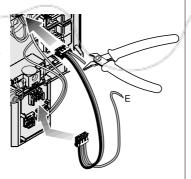
- The audio-video functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.

Notes

- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 50.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 50 and 51.
- With Echos videointercoms series it is possible to monitor also the "b" entrance by connecting the terminal P1 of the Echos videointercoms to the terminal "4" of the exchanger art. 1473 and by moving the jumper J2 on the back of the videointercom to the position 2-3 (see page 4).

Agorà door stations

Attention. To create the terminal "E" in the door station AG100V it is necessary to cut the red wire which connects the door speaker amplifier AG40CED to the backlighting board with diodes and LED's (see figure). The terminal "E" of the entrance "b" must remain disconnected and insulated, on the contrary that of entrance "a" must be connected to the terminals "E" of additional AG100T's (if present).



videointercoms only when the system is in stand-by, it is necessary to install a relay (type **1471** or **1472**) and connect it as shown on the diagram. to the videointercoms 1471 1471 1472 H

To activate the control switching ON from the

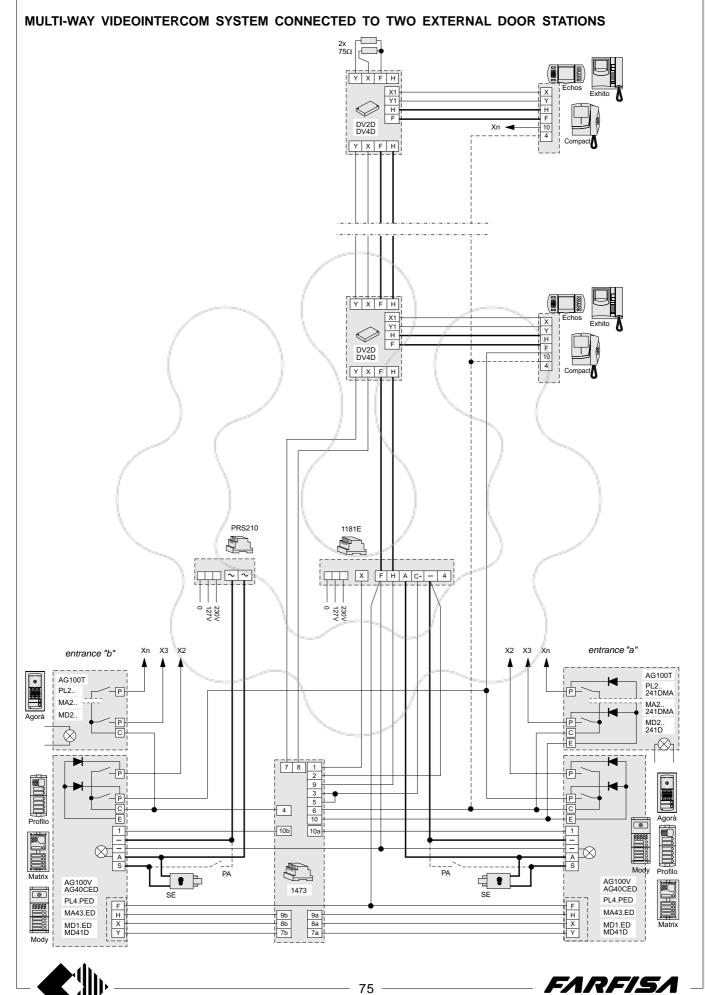
Control switching ON deactivation





1473

+1 INTERCOMS



(MT11 - Gb2012)

MULTI-WAY VIDEOINTERCOM SYSTEM WITH SECONDARY VIDEO STATIONS AND 1 MAIN COMMON VIDEO STATION (multiple entrance)

• EXTERNAL DOOR STATIONS

AGORA' series PRO		OFILO series		MATRIX series		MODY series	
1+X	AG100V		PL71÷PL73		MA71÷MA73		MD72÷MD74
	AG100T	1+X	PL81÷PL89		MAS61÷MAS63 (1)	1+X	MD82÷MD812
	AG20	1+X	PL91÷PL99 *	1+X	MA91÷MA93 *	1+X	MD92÷MD912 *
	AG21	1+X	PL40PCED÷PL42PCED	1+X	MAS43CED	1+X	MD10ED÷MD12ED
	AG222		PL40PED÷PL42PED		MAS43ED	1+X	MD41D
1+X	AG40CED		PL21÷PL228		MAS22, MAS24		MD21÷MD228
			PL20, PL50		MAS20		MD20, MD50
			241DMA		241DMA		241D

• INTERNAL STATIONS

ECHOS series		EXHITO S	series	CON	COMPACT series	
	EH9161CT	EX	3100C		KM8111CW	
	EH9161CW	EX	3160C	/	KM8111W	
	9083	EX	3160	/	WB8111	
	WA9100T-W	WE	33161			
	TA9160	/ TA:	3160	\	/	

VARIOUS ARTICLES

	1473 1181E DV2D-DV4D	Exchanger Timed power-supply Video distributors
1+X	PA ** SE **	Door release push-button (optional) Electric door lock (12VAC-1A)

- ... Refers to number of users.
- X Refers to number of stairways.
- (1) Or MA61÷MA63.
- * Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

Notes

- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 50.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 50 and 51.
- With **Echos videointercoms** series it is possible to monitor also the main entrance by connecting the terminal **P1** of the Echos videointercoms to the terminal **"5"** of the exchanger art.1473 connected to its own riser and by moving the jumper **J2** on the back of the videointercoms to the position **2-3** (see on page 4).

Working instructions.

As the basic system described on page 52, with the following variations:

- The audio-video functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

Agorà door stations

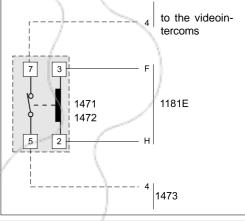
Attention. In the door station AG100V of the secondary entrances create the terminal "E" cutting the red wire which connects the door speaker AG40CED to the backlighting board (see figure), than connect it to the terminals "E" of additional AG100T's (if any).

In the door station **AG100V** of the **main** entrance only cut and insulate the conductor "E" (red wire).

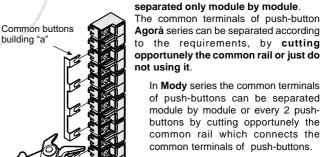


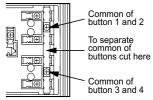
Control switching ON deactivation

To activate the control switching ON from the videointercoms only when the system is in stand-by, it is necessary to install a relay (type 1471 or 1472) and connect it as shown on the diagram.



The main entrance push-button panel must have separate common terminals. One common terminal for each secondary door station. The common terminals of push-buttons Profilo and Matrix series can be







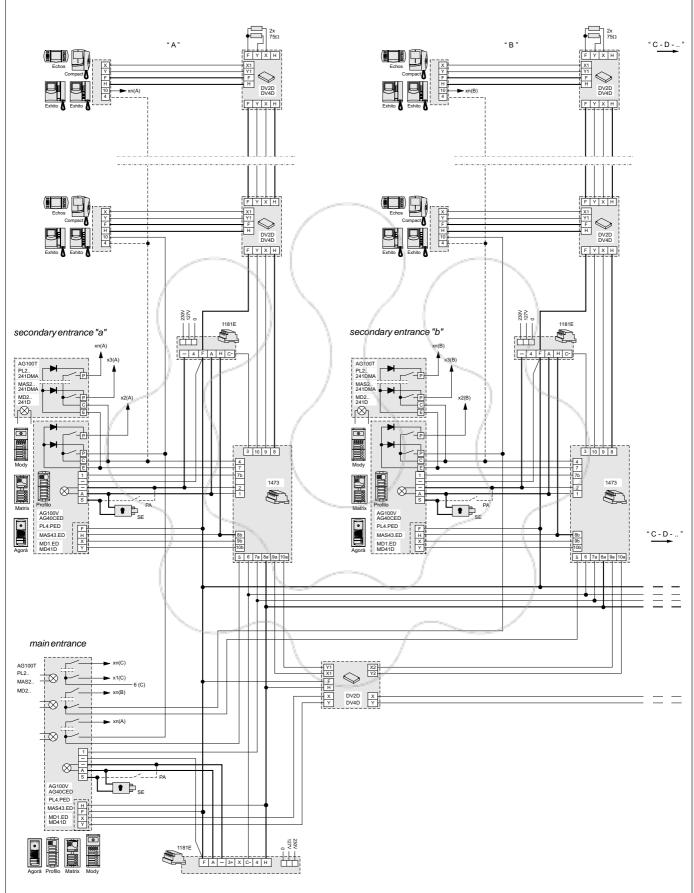


Common buttons building "b"

+

INTERCOMS

MULTI-WAY VIDEOINTERCOM SYSTEM WITH SECONDARY VIDEO STATIONS AND 1 MAIN COMMON VIDEO STATION (multiple entrance)







MULTI-WAY VIDEOINTERCOM SYSTEM WITH SECONDARY DOOR STATIONS ONLY AUDIO AND 1 MAIN COMMON VIDEO STATION (multiple entrance)

• EXTERNAL DOOR STATIONS

AGORA' series		PROFILO series		MATRIX series		MODY series	
1	AG100V		PL71÷PL73		MA71÷MA73		MD72÷MD74
X	AG100A	1+X	PL81÷PL89		MAS61÷MAS63 (1)	1+X	MD82÷MD812
	AG100T	1+X	PL91÷PL99 *	1+X	MA91÷MA93 *	1+X	MD92÷MD912 *
	AG20	1	PL40PCED÷PL42PCED	1	MAS43CED	1+X	MD10ED÷MD12ED
	AG21		PL40PED÷PL42PED		MAS43ED	1	MD41D
	AG222	Χ	PL10PED÷PL12PED	Χ	MAS10PED÷MAS12PED		MD21÷MD228
X	AG30ED		PL21÷PL228		MAS22, MAS24		MD20, MD50
1	AG40CED		PL20, PL50		MAS20		241D
			241DMA		241DMA		

• INTERNAL STATIONS

ECHOS series		EXH	EXHITO series		COMPACT series		
	EH9161CT		EX3100C			KM8111CW	
	EH9161CW		EX3160C	/		KM8111W	
	9083		EX3160			WB8111	
	WA9100T-W	/	WB3161	\		/	
	TA9160	//	TA3160	1		/	

• VARIOUS ARTICLES

Χ	1473	Exchanger
1+X	1181E	Timed power-supply
1+	DV2D-DV4D	Video distributors
4 . V	D A **	Desarraleses avels butter

1+X PA ** Door release push-button (optional)
1+X SE ** Electric door lock (12VAC-1A)

- ... Refers to number of users.
- (1) Or MA61÷MA63.
- * Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

Notes

- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 50.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 50 and 51.
- If it is requested to monitor the main entrance it is necessary to connect the terminal "4" of the videointercoms to the terminal "5" of the exchanger art. 1473 connected to its own riser.

Working instructions.

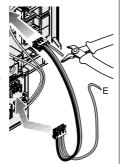
As the basic system described on page 52, with the following variations:

- The audio-video functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

Agorà door stations

Attention. In the door station AG100A of the secondary entrances create the terminal "E" cutting the red wire which connects the door speaker AG30ED to the backlighting board (see figure), than connect it to the terminals "E" of additional AG100T's (if any).

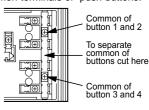
In the door station **AG100V** of the **main** entrance only cut and insulate the conductor "E" (red wire).



The main entrance push-button panel must have separate common terminals. One common terminal for each secondary door station. The common terminals of push-buttons Profilo and Matrix series can be separated only module by module.

The common terminals of push-button Agorà series can be separated according to the requirements, by cutting opportunely the common rail or just do not using it.

In **Mody** series the common terminals of push-buttons can be separated module by module or every 2 push-buttons by cutting opportunely the common rail which connects the common terminals of push-buttons.





Common buttons

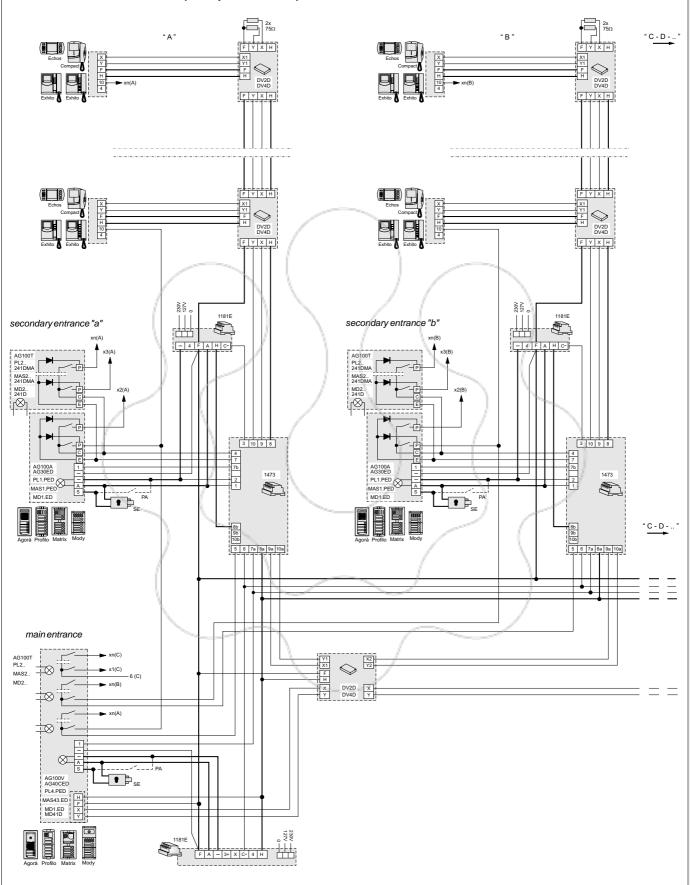
building "a

building "b'





MULTI-WAY VIDEOINTERCOM SYSTEM WITH SECONDARY DOOR STATIONS ONLY AUDIO AND 1 MAIN COMMON VIDEO STATION (multiple entrance)







ONE-WAY VIDEOINTERCOM SYSTEM WITH SECONDARY VIDEO STATIONS AND 1 MAIN COMMON VIDEO STATION

• MAIN DOOR STATION

AGORA' series		PROFILO series		MATRIX series		MOI	MODY series		
1 	AG100V AG100T AG20 AG21	 1 1	PL71÷PL73 PL81÷PL89 PL91÷PL99 * PL40PCED÷PL42PCED	 1. 1	MA71÷MA73 MAS61÷MAS63 (1) MA91÷MA93* MAS43CED	 1 1	MD72÷MD74 MD82÷MD812 MD92÷MD912 * MD10ED÷MD12ED		
 1	AG222 AG40CED		PL40PED÷PL42PED PL21÷PL228 PL20, PL50 241DMA		MAS43ED MAS22, MAS24 MAS20 241DMA	1 	MD41D MD21÷MD228 MD20, MD50 241D		

• SECONDARY DOOR STATIONS

AGORA' series		PROFILO series	MATRIX series	MODY series	
Х	AG100V	X PL71	X MA71	X MD72	
Χ	AG21	X PL81	X MAS61 (1)	X MD81	
Χ	AG20	X PL91 *	X MA91*	X MD91 *	
Χ	AG40ED	X PL41PCED	X MAS43CED	X MD41D	
		PL41PED	MAS43ED	X MD11ED	

• INTERNAL STATIONS

ECHOS series		EXH	IITO series	CON	COMPACT series	
	EH9161CT	\	EX3100C	.l.	KM8111CW	
	EH9161CW	/	EX3160C	4.	KM8111W	
	9083	/	EX3160	/	WB8111	
	WA9100T-W		WB3161	/	1	
	TA9160		TA3160	and the same of th	The state of the s	

• VARIOUS ARTICLES

Х	14/3	Exchanger
1+x	1181E	Timed power-supply
1+	DV2D-DV4D	Video distributors
1+X	PA **	Door release push-button (optional)
1+X	SE **	Electric door lock (12VAC-1A)
Χ	D **	100V-1A diode (type 1N4007)

- ... Refers to number of users.
- X Refers to number of stairways.
- (1) Or MA61÷MA63.
- * Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

Notes

- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 50.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 50 and 51.

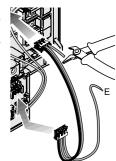
Working instructions.

As the basic system described on page 52, with the following variations:

- The audio-video functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

Agorà door stations

Attention. In the door station **AG100V** it is necessary to cut and insulate the red wire which connects the door speaker amplifier **AG40CED** to the backlighting board with diodes and LED's (see figure).



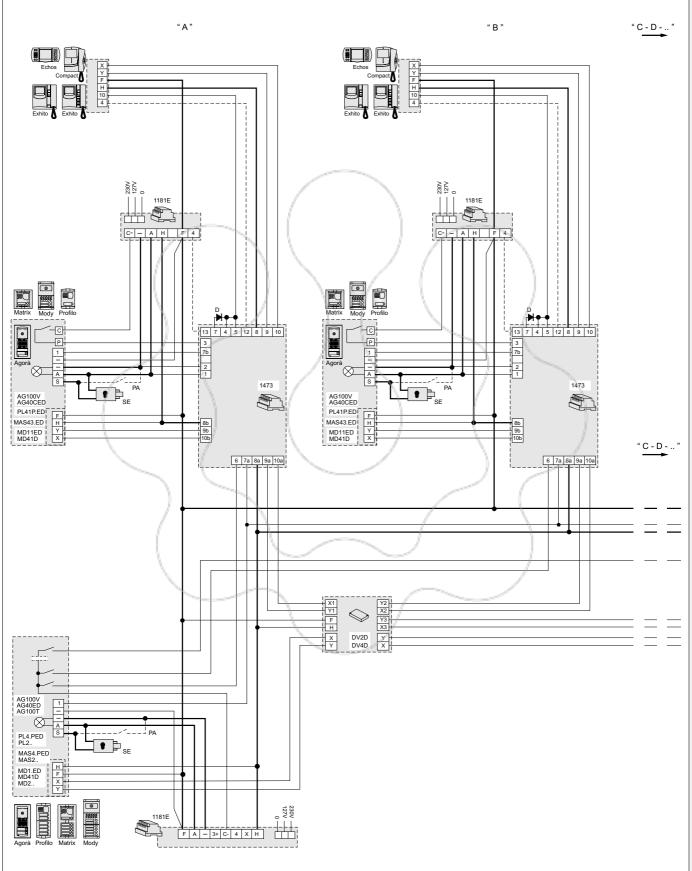






1+1 INTERCOMS

ONE-WAY VIDEOINTERCOM SYSTEM WITH SECONDARY VIDEO STATIONS AND 1 MAIN COMMON VIDEO STATION





ONE-WAY VIDEOINTERCOM SYSTEM WITH SECONDARY DOOR STATIONS ONLY AUDIO AND 1 MAIN COM-MON VIDEO STATION

• MAIN DOOR STATION

AGORA' series		PRC	PROFILO series		MATRIX series		MODY series	
1	AG100V		PL71÷PL73		MA71÷MA73		MD71÷MD74	
	AG100T	1	PL81÷PL89		MAS61÷MAS63 (1)	1	MD81÷MD812	
	AG20	1	PL91÷PL99 *	1	MA91÷MA93 *	1	MD91÷MD912 *	
	AG21	1	PL40PCED÷PL42PCED	1	MAS43CED	1	MD10ED÷MD12ED	
	AG222		PL40PED÷PL42PED		MAS43ED	1	MD41D	
1	AG40CED		PL21÷PL228		MAS22, MAS24		MD21÷MD228	
			PL20, PL50		MAS20		MD20, MD50	
			241DMA		241DMA		241D	

• SECONDARY DOOR STATIONS

AGORA' series	PROFILO series	MATRIX series	MODY series
X AG100A	X PL71	X MA71	X MD71
X AG21	X PL81	X MAS61 (1)	X MD81
3xX AG20	X PL91 *	X MA91 * \	X MD91 *
X AG30ED	X PL11PED	X MAS11PED	X MD11ED

• INTERNAL STATIONS

ECI	HOS series	EXH	IITO series	COM	IPACT series
	EH9161CT	7	EX3100C	λ.	KM8111CW
	EH9161CW	/	EX3160C	.].	KM8111W
	9083)	EX3160		WB8111
	WA9100T-W	/	WB3161	/	\
	TA9160		TA3160	/	1

VARIOUS ARTICLES

Χ	1473	Exchanger		
1+x	1181E	Timed power-supply		
1+	DV2D-DV4D	Video distributors		
1+X	PA **	Door release push-button (optional)		
1+X	SE **	Electric door lock (12VAC-1A)		
Χ	D **	100V-1A diode (type 1N4007)		

- ... Refers to number of users.
- X Refers to number of stairways.
- (1) Or MA61÷MA63.
- Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

Notes

- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 50.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 50 and 51.

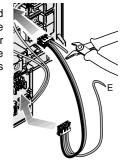
Working instructions.

As the basic system described on page 52, with the following variations:

- The audio-video functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

Agorà door stations

Attention. In the door stations AG100A and AG100V it is necessary to cut and insulate the red wire which connects the door speaker amplifier AG30ED or AG40CED to the backlighting board with diodes and LED's (see figure).



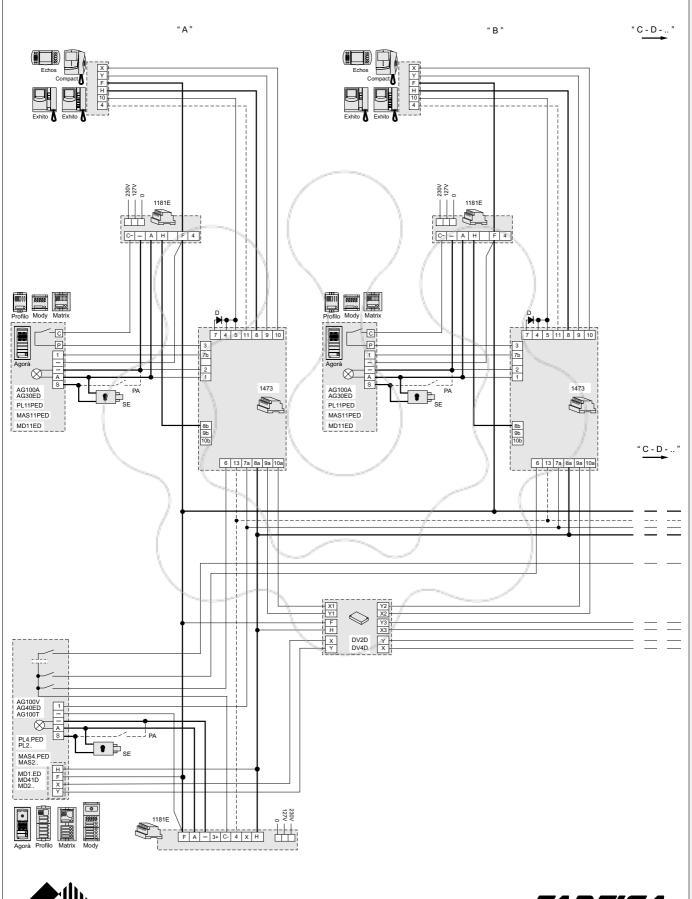






1+1 INTERCOMS

ONE-WAY VIDEOINTERCOM SYSTEM WITH SECONDARY DOOR STATIONS ONLY AUDIO AND 1 MAIN COMMON VIDEO STATION





MULTI-WAY VIDEOINTERCOM SYSTEM WITH SECONDARY VIDEO STATIONS AND 2 MAIN COMMON VIDEO STATIONS (multiple entrance)

• EXTERNAL DOOR STATIONS

AGORA' series		PROFILO series		MATRIX series		MODY series	
2+X	AG100V		PL71÷PL73		MA71÷MA73		MD72÷MD74
	AG100T		PL81÷PL89		MAS61÷MAS63 (1)	2+X	MD82÷MD812
	AG20	2+X	PL91÷PL99 *	2+X	MA91÷MA93*	2+X	MD92÷MD912 *
	AG21	2+X	PL40PCED÷PL42PCED	2+X	MAS43CED	2+X	MD10ED÷MD12ED
	AG222		PL40PED÷PL42PED		MAS43ED	2+X	MD41D
2+X	AG40CED		PL21÷PL228		MAS22, MAS24		MD21÷MD228
			PL20, PL50		MAS20		MD20, MD50
			241DMA		241DMA		241D

• INTERNAL STATIONS

ECHOS series		<u>EXH</u>	ITO series	CC	COMPACT series	
	EH9161CT		EX3100C		KM8111CW	
	EH9161CW		EX3160C	/	KM8111W	
	9083		EX3160	/	WB8111	
	WA9100T-W		WB3161			
	TA9160		TA3160	\ .	/	

• VARIOUS ARTICLES

	1473 1181E	Exchanger Timed power-supply
	PRS210	Transformer
2+	DV2D-DV4D	Video distributors
2+X	PA **	Door release push-button (optional)
2+X	SE **	Electric door lock (12VAC-1A)

- . Refers to number of users.
- X Refers to number of stairways.
- (1) Or MA61÷MA63.
- * Rain shelters are used instead of back boxes and hood covers.
- * Articles not supplied by ACI Farfisa.

Notes

- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 50.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 50 and 51.
- With Echos videointercoms series it is possible to monitor also the main entrances by connecting the terminals P1 and P2 of the Echos videointercoms respectively to the terminals "6" and "3" of the exchanger art. 1473 (DS2) connected to its own riser and by moving the jumper J2 on the back of the videointercoms to the position 2-3 (see on page 4).

Working instructions.

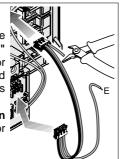
As the basic system described on page 52, with the following variations:

- The audio-video functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

Agorà door stations

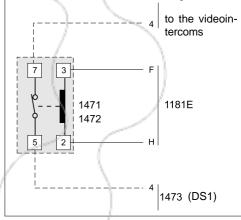
Attention. In the door station AG100V of the secondary entrances create the terminal "E" cutting the red wire which connects the door speaker AG40CED to the backlighting board (see figure), than connect it to the terminals "E" of additional AG100T's (if any).

In the door station **AG100V** of the **main** entrances only cut and insulate the conductor **"E"** (red wire).



Control switching ON deactivation

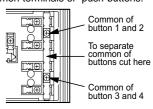
To activate the control switching ON from the videointercoms only when the system is in stand-by, it is necessary to install a relay (type 1471 or 1472) and connect it as shown on the diagram.



The main entrance push-button panel must have separate common terminals. One common terminal for each secondary door station. The common terminals of push-buttons **Profilo** and **Matrix** series **can be**

separated only module by module.
The common terminals of push-button
Agorà series can be separated according
to the requirements, by cutting
opportunely the common rail or just do
not using it.

In **Mody** series the common terminals of push-buttons can be separated module by module or every 2 push-buttons by cutting opportunely the common rail which connects the common terminals of push-buttons.







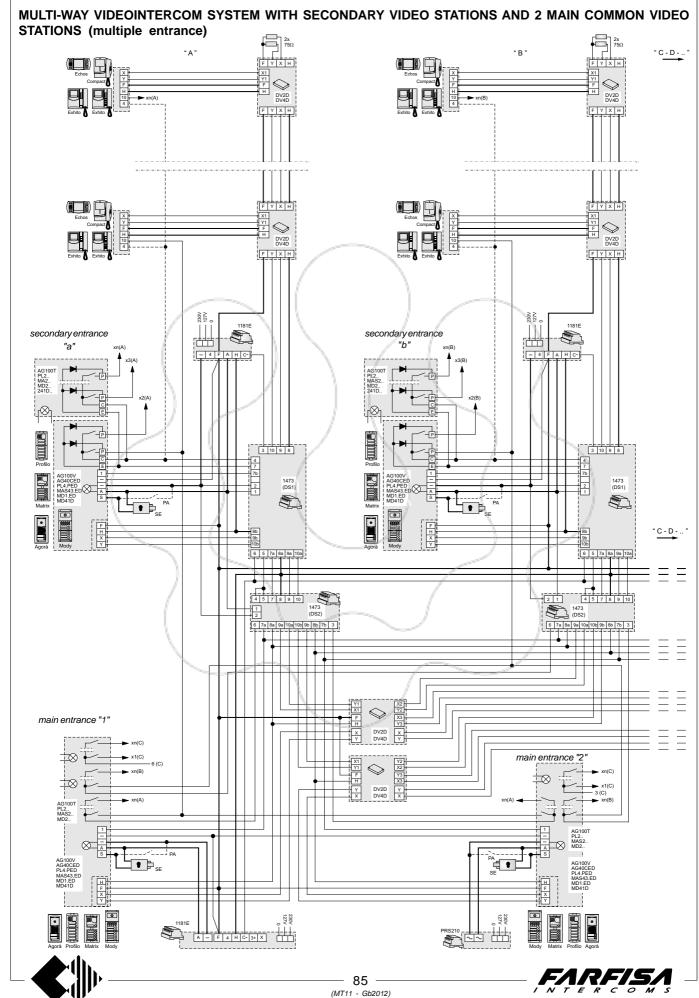
Common buttons

Common buttons

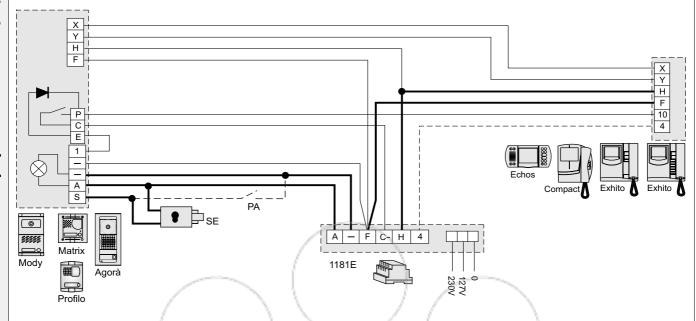
building "b"

building "a

1+1 INTERCOMS



ONE-WAY VIDEOINTERCOM SYSTEM



• EXTERNAL DOOR STATIONS

AG	ORA' series	PRO	OFILO series	MA	TRIX series	\ <u>!</u>	MODY series
1	AG100V	1	PL71	1	MA71	The Parket State of the State o	1 MD72
1	AG21	1/	PL81	,A	MAS61 (1)	and the state of t	1 MD82
1	AG20		PL91 *	/1	MA91 *) 1	1 MD92 *
1	AG40CED	1	PL41PCED	1	MAS43CED	/ 1	1 MD11ED
			PL41PED	1	MAS43ED	/ 1	1 MD41D

• INTERNAL STATIONS

ECHOS series		EXHITO series		\	<u>COMPACT</u> series		
1	EH9161CT	1	EX3100C	100	1	KM8111CW	
	EH9161CW	"The state of the	EX3160C	10000		KM8111W	
1	9083	and the same of th	EX3160		1	WB8111	
1	WA9100T-W	1 \	WB3161				
1	TA9160	1	TA3160				

VARIOUS ARTICLES

1	1181F	Timed power-supply

1 PA ** Door release push-button (optional)
1 SE ** Electric door lock (12VAC-1A)

(1) Or MA61.

- * Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

Working instructions. See page 52.

Notes

- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For wires dimensioning refer to the installation instructions and table on pages 50.

Agorà door station

Note. Door station **AG100V** do not have the terminal "E" because the requested connection is automatically done inserting the pre-assembled cable which comes with the product (see *drawing 5a on page 18*).

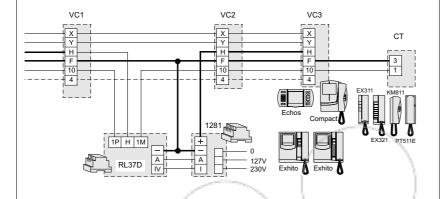




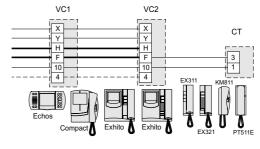
Additional diagrams for systems NOT intercommunicating

All **videointercom** installation diagrams in this technical manual are drawn with only one video intercom for each user. It is possible to "personalise" the installation by properly matching the applications on the following pages to the basic diagrams. To obtain the requested wiring diagram it is necessary overlay the desired application diagram on the "basic" diagram in order to cover the existing videointercom (VC1 will replace the videointercom of the basic diagram). More than one application diagram can be overlaid on a multi-ways diagram.

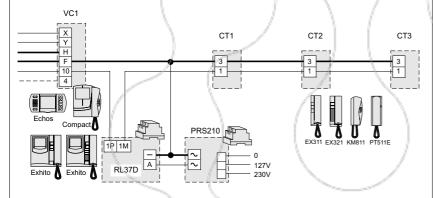
a) Application of 3 videointercoms and 1 intercom in parallel



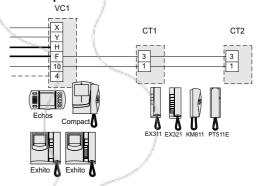
b) Application of 2 videointercoms and 1 intercom in parallel



c) Application of 1 videointercom and 3 intercoms in parallel



d) Application of 1 videointercom and 2 intercoms in parallel



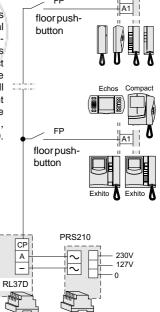
List of the additional devices needed to carry out the installation diagrams reported in this page

	· •			8
Diagram	Videointercoms + accessories	Intercoms	Power supplies	Supplementary call module
"a"	2 EH9161 + 2 9083 2 EX3100 + 2 WB3161 2 EX3160 + 2 WB3161 2 KM8111 + 2 WB8111	1 EX311 1 EX321 1 KM811 1 PT511E	1 1281	1 RL37D
"b"	1 EH9161 + 1 9083 1 EX3100 + 1 WB3161 1 EX3160 + 1 WB3161 1 KM8111 + 1 WB8111	1 EX311 1 EX321 1 KM811 1 PT511E		
"c"		3 EX311 3 EX321 3 KM811 3 PT511E	1 PRS210	1 RL37D
"d"		2 EX311 2 EX321 2 KM811 2 PT511E		
"e"			1 PRS210	1 RL37D

Select the desired model among those listed

e) Floor call (for intercom and videointercom systems)

In all the diagrams shown in this manual (except intercommunicating devices Exhito and Compact series) it is possible to have a floor call feature with different ringing tone from the door station call, using the art. RL37D.



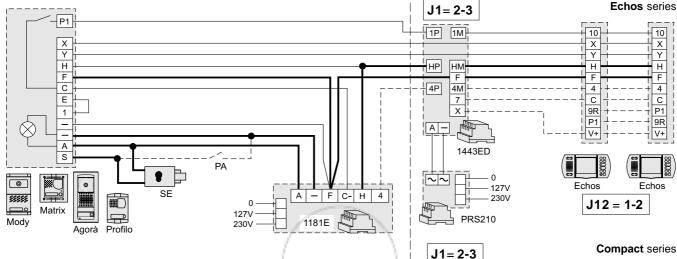
Note.

To get a different ringing tone, **move the jumper J2**, located inside the art. **RL37D**, from position **1-2** to position **2-3**.





ONE-WAY VIDEOINTERCOM SYSTEM WITH INTERCOMMUNICATING SERVICE BETWEEN 2 VIDEOINTERCOMS



• EXTERNAL DOOR STATIONS

se	eries <u>AGORA'</u>	<u>PROFILO</u>	MATRIX	MODY
1	AG100V	1 PL71	1 MA71	1 MD72
1	AG21	1 PL81	1 MAS61 (1)	1 MD82
1	AG20	1 PL91 *	1 MA91 *	1 MD92 *
1	AG40CED	1 PL41PCED	1 MAS43CED	1 MD11ED
		PL41PED	MAS43ED	1 MD41D

• INTERNAL STATIONS

eries <u>ECHOS</u>	EXHIIO	COMPACI	
EH9161CT	2 EX3100C	2 KM8111CW	
EH9161CW	EX3160C	KM8111W	
9083	EX3160	2 WB8111	
WA9100T-W	2 WB3161	/	1
TA9160	2 TA3160		
	EH9161CT EH9161CW 9083 WA9100T-W TA9160	EH9161CT 2 EX3100C EH9161CW EX3160C 9083 EX3160 WA9100T-W 2 WB3161	EH9161CT 2 EX3100C 2 KM8111CW EH9161CW EX3160C KM8111W 9083 EX3160 2 WB8111 WA9100T-W 2 WB3161

VARIOUS ARTICLES

- 1 1181E Timed power-supply
- 1 1443ED Switcher module for intercommunicating system
- 1 PRS210 Transformer
- 1 PA ** Door release push-button (optional)
 1 SE ** Electric door lock (12VAC-1A)

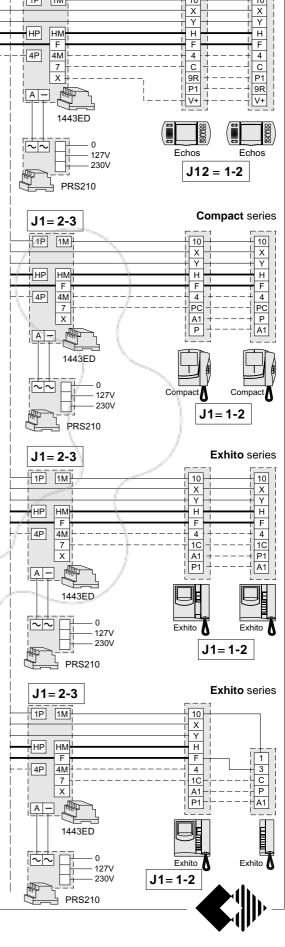
(1) Or MA61.

- * Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

Working instructions. See page 52.

Notes

- Move jumper J1, on the wall brackets WB3161 and WB8111 from position 2-3 to position 1-2
- Move jumper **J12**, on the back of **Echos** videointercoms to short circuits pin **1-2**.
- Set jumper J1, inside art.1443ED to position 2-3.
- Instead a videointercom it is possible to install an intercom EX311, EX321 or KM811 wired as reported in the last example of this page.
- Door station **AG100V** do not have the terminal **"E"** because the requested connection is automatically done inserting the pre-assembled cable which comes with the product (see drawing 5a on page 18)
- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For wires dimensioning refer to the installation instructions and table on page 50.

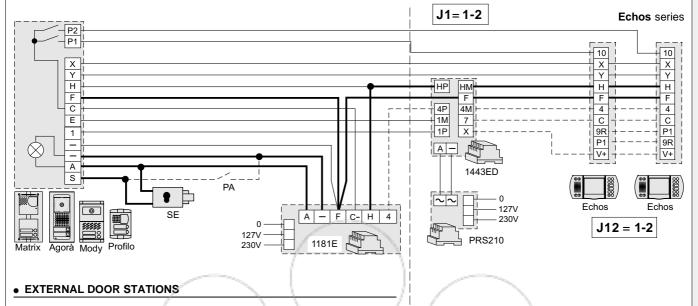




Compact series

<u>+</u>

TWO-WAY VIDEOINTERCOM SYSTEM WITH INTERCOMMUNICATING SERVICE BETWEEN 2 APARTMENTS



series AGORA'	<u>PROFILO</u>	MATRIX	MODY
1 AG100V	1 PL71	1 MA72	1 MD72
2 AG21	1 PL81	1 MAS62 (1)	1 MD82
1 AG40CED	1 PL91 *	1 MA92 *	1 MD92 *
	1 PL42PCED	1 MAS43CED	1 MD12ED
	PL42PED	MAS43ED	1 MD41D
		1 MAS22	/ \
	A STATE OF THE PARTY OF THE PAR	1 241DMA	/ \

• INTERNAL STATIONS

series <u>ECHOS</u>	EXHIIO	COMPACI
2 EH9161CT EH9161CW	2 EX3100C EX3160C	2 KM8111CW KM8111W
2 9083	EX3160	2 WB8111
2 WA9100T-W	2 WB3161	
2 TA9160	2 TA3160	No.

VARIOUS ARTICLES

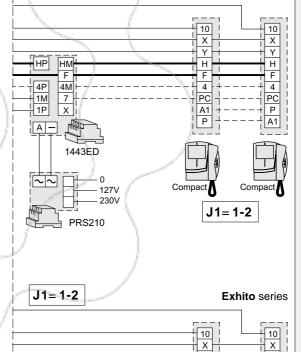
- 1181E Timed power-supply
- **1443ED** Switcher module for intercommunicating system
- PRS210 Transformer 1
- PA ** Door release push-button (optional) 1 SE ** 1 Electric door lock (12VAC-1A)

(1) Or MA62.

- Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

Working instructions. See page 52.

- Move jumper J1, on the wall brackets WB3161 and WB8111 from position 2-3 to
- Move jumper J12, on the back of Echos videointercoms to short circuits pin 1-2.
- Set jumper J1, inside art.1443ED to position 1-2.
- In the door station AG100V cut the red wire to create the terminal "E" (see drawing 5b on page 18).
- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For wires dimensioning refer to the installation instructions and table on page 50.



J1 = 1-2

HP НМ

4P 4M

1M 7

1P Χ

 \sim

1443ED

☐ PRS210

0

- 127V

- 230V



Υ

Н F

4

1C

P1

A1





Υ

Н

4

1C

A1 P1

J1=1-2

MULTI-WAY VIDEOINTERCOM SYSTEM WITH A DOOR STATION AND SOME APARTMENTS WITH INTERCOM-MUNICATING SERVICE

EXTERNAL DOOR STATIONS

AGORA' series		PRC	PROFILO series		MATRIX series		MODY series	
1	AG100V		PL71÷PL73		MA71÷MA73		MD71÷MD74	
	AG100T	1	PL81÷PL89	1	MAS61÷MAS63 (1)	1	MD81÷MD812	
	AG20	1	PL91÷PL99 *	1	MA91÷MA93 *	1	MD91÷MD912 *	
	AG21	1	PL40PCED÷PL42PCED	1	MAS43ED÷MAS43CED	1	MD10ED÷MD12ED	
	AG222		PL40PED÷PL42PED		MAS22, MAS24	1	MD41D	
1	AG40CED		PL21÷PL228		MAS20		MD21÷MD228	
			PL20, PL50		241DMA		MD20, MD50	
			241DMA				241D	

- INTERNAL STATIONS (see the list on the bottom of this page)
- COMMON VARIOUS ARTICLES (for all the specific devices to be installed in the intercommunicating apartments see the detailed list on the bottom of this page)

1	1181E	Timed power-supply
	DV2D-DV4D	Video distributors
1	PA **	Door release push-button (optional)
1	SE **	Electric door lock (12VAC-1A)

- ... Refers to number of users.
- (1) Or MA61÷MA63.
- * Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

Working instructions. See page 52.

Notes

- For audio compatibility we do not suggest to connect door stations
 MODY series with internal devices ECHOS series.
- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 50.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 50 and 51.

In the multi-apartment diagram are shown 3 different examples of connection for the intercommunicating service.

(A) Intercommunicating service between 2 apartments with videointercoms Echos, Exhito and/or Compact series

<u>Echos</u>		Exhito		Co	Compact		
2	EH9161	2	EX3100	2	KM8111W		
2	9083		EX3160	2	WB8111		
2	WA9100	2	WB3161	1	1443ED		
2	TA9160	2	TA3160	1	PRS210		
1	1443ED	1	1443ED				
1	PRS210	1	PRS210				

(B) Intercommunicating service in the same apartment among 2 videointercoms and 1 intercom Exhito series

<u>E</u> :	<u>xhito</u>	THE PERSON NAMED IN	gradu.	<u>E</u>	<u>chos</u>
	EX3160 WB3161		-	 l	EH9161 9083
2 1	TA3160 1443ED PRS210			1	1443ED PRS210
'	11(3210	100			

 Set jumper J1, inside art.1443ED to position 2-3.

(C) Intercommunicating service in the

tercoms Echos

Notes:

same apartment between 2 videoin-

 Move jumper J12, on the back of ECHOS videointercoms to short circuits pin 1-2.

Notes:

- In the art. **1443ED** move the jumper **J1** from the position 2-3 to the position **1-2**.
- Move jumper J1, on the wall brackets WB3161 and WB8111 from position 2-3 to position 1-
- Move jumper J12, on the back of ECHOS videointercoms to short circuits pin 1-2.
- Set jumper J1, inside art.1443ED to position 2-3.

Notes:

 Move jumper J1, on the wall brackets WB3161 from position 2-3 to position 1-2

Notes for intercommunicating functions

To make an intercommunicating call it is necessary:

- with the videointercom switched OFF, pick up the handset (or press the ≡ to button for Echos series) and be sure that there are not any other communications in progress;
- press the push-button related to the videointercom or intercom to be called.

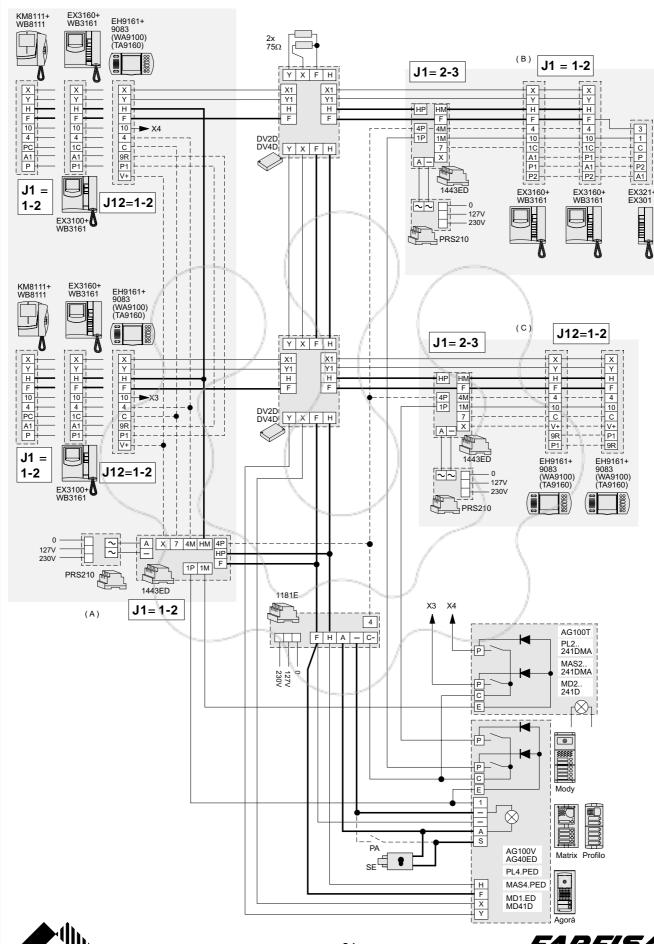
To hear the ringing tone, the called videointercom or intercom must have the handset correctly hooked in its place (no unhooked). Read also the operating notes on page 52.

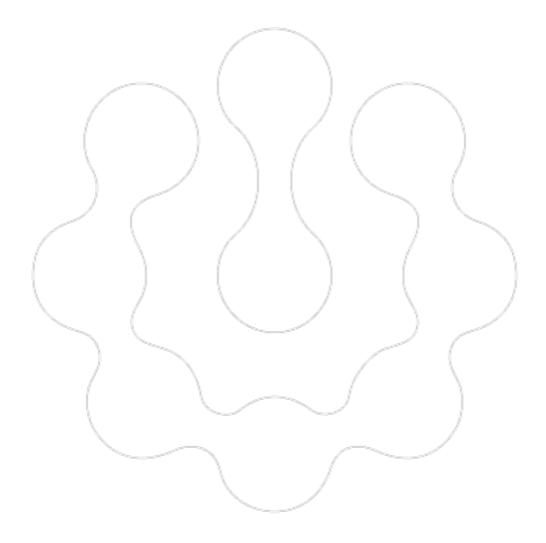




+1 INTERCOMS

MULTI-WAY VIDEOINTERCOM SYSTEM WITH A DOOR STATION AND SOME APARTMENTS WITH INTERCOM-MUNICATING SERVICE









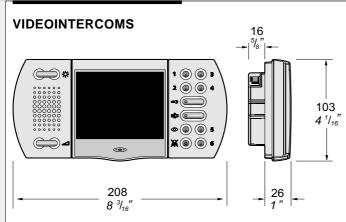
INTERCOMS AND VIDEOINTERCOMS

TRADITIONAL

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EH9100CW. Hands Free Colour Video Intercom with audiovideo privacy, 4 types of calls, 14 differentiated programmable ring tones, audio, contrast, and brightness adjustment. White colour. Complete with 6 keys for monitor control switching-on, door lock opening, intercom calls and supplementary services. It can be installed on the wall by using the back box art. 9083 or wall adaptor WA9100W.

EH9160CW. It differs from the model **EH9100CW** for the presence of additional 4 buttons and the possibility to realize systems with intercommunicating service.

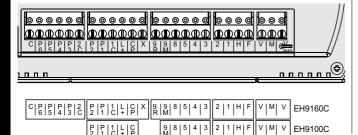
EH9160CT. Hands-free videointercom with same features of the model EH9160CW but in metallized grey colour finish. It can be installed on the wall by using the back box art.9083 or wall adaptor WA9100T.

Technical characteristics

18÷24Vdc Power supply: Operating current: 0.3A3.5" LCD Screen: PAL Television standard: Horizontal frequency: 15625Hz Vertical frequency: 50Hz Band width: >5MHz Video signal on 75Ω : 0.8÷1.5Vpp Starting up time: 1 second Number of bell rings: 2 (programmable) Operating temperature: 0°÷+50°C Maximum admissible humidity: 90%RH

Terminals

- Video signal input-output
- M Video ground (shielded coaxial)
- F General ground
- Н Positive voltage input (18÷24Vdc)
- 1 Microphone output
- Speaker and automatic switching OFF input
- 2 Audio ground
- Control switching ON button @
- Door lock release button @
- Positive power supply output for video distributors 12Vdc
- Call input from external door station
- Electronic call input from other intercommunicating devices
- Positive voltage input for intercommunicating devices (15÷18Vdc)
- Electronic floor-call input
- LED for open-door signalling or other functions
- Common contact for buttons P1 and P2
- P1 P2 Service buttons (max 50mA)
- 2C* Common contact for buttons P3, P4, P5 and P6
- P3 ÷ P6* Service buttons (max 50mA)
- Common contact for P1÷P6; only for intercommunicating service)
- * Terminals only on the models EH9160CT and EH9160CW



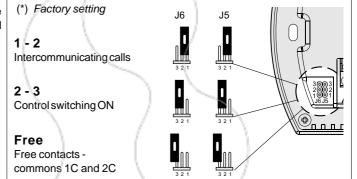
How to select the function for buttons from 1 to 6

Buttons from 1 to 6 can be used for several functions, that is:

- intercommunicating calls;
- control switching ON of the video intercom when more than one external door station or extra surveillance cameras are present on the system;
- free voltage contacts for supplementary functions.

ATTENTION. The common contacts of the buttons are only two: one for the buttons 1 and 2, the other for the buttons 3,4,5 and 6, so at least only two of the three possible different operations described before can be achieved at the same time. When the buttons are used for intercommunicating calls or videointercom control switching ON the terminals 1C and 2C must remain unconnected.

1	Model	Buttons	Jumpers	Position	Function
E	EH9100C	1, 2	J5	1-2 2-3 (*) free	not used control switching ON free contacts (common 1C)
	EH9160C	1, 2	J5	1-2 (*) 2-3	intercommunicating calls control switching ON
ľ		3, 4, 5, 6	J6	free	free contacts (common 2C)



Installation and settings

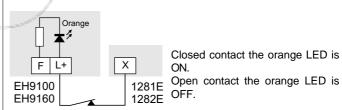
For installation and display adjustment see the pages 5 and 6.

Supplementary functions

For floor call feature make the connection as reported on page 221.

Door-open's warning and other functions

For door-open's warning or other similar functions connect a normally closed contact (NC) of a sensor or a relay between the terminal L+ of the videointercom and terminal X of power supply 1282E or 1281E.



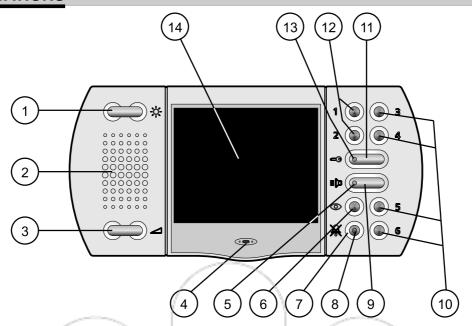
9083. Back-box for video intercoms EH9160CT and EH9160CW.

WA9100T. Wall adaptor for the EH9160CT videointercom. WA9100W. Wall adaptor for the EH9160CW videointercom.

TA9160. Table adapter for Echos videointercoms. Complete with junction box and 2.4m connection cable with 20 wires.





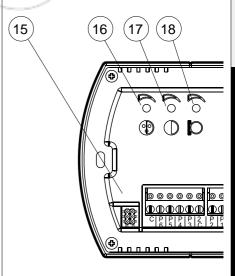


Characteristics

- 1 Image brightness adjustment
- 2 Loudspeaker. It allows to hear the conversation and to receive the calls from the external door station, from other intercommunicating equipments or from local door station.
- 3 Call and communication volume adjustment <a>a.
- (4) **Microphone**. It allows to talk with the door station or with other intercommunicating equipments
- (5) Green LED. The LED shows:
 - a communication in progress when it lights up continuously;
 - an intercommunicating call when it flashes.
- 6 Control switching ON button . It allows to power ON the video intercom and monitoring the entrance.
- 7 Mute button X. It allows to:
 - enable/disable the audio (microphone) to the door station during a conversation;
 - enable/disable the bell rings if pressed for less then 2 seconds after receiving a call or making a control switching ON function;
 - enter/exit the programming mode if pressed for more than 2 seconds.
- (8) Red LED. The LED shows:
 - temporary disabling of audio when it continuously lights-up. If audio is enabled again the LED recover the previous operating mode;
 - bell rings disabling. The LED flashes when a call is received and during the

- conversation with an external door station or another intercommunicating equipment; - the videointercom is in programming operation mode when it is continuously lit-up.
- (10) Buttons 3,4,5 and 6 are available for supplementary services. These buttons are present only on the model EH9160C. After positioning properly the jumper J6 they can be used for:
 - -intercommunicating calls;
 - control switching ON function for multiple entrance systems;
 - as free voltage contacts (max 50mA). These four buttons, having a shared common contact (terminal 2C), can be only used for one of the functions listed above at time.
- (1) Lock release button . It allows to operate the electric lock release either with the video intercom in ON or OFF state.
- Buttons 1 and 2 are available for supplementary services. After positioning properly the jumper J5 they can be used for:
 - intercommunicating calls (only for EH9160C);
 - control switching ON function for multiple entrance systems;
 - as free voltage contacts (max 50mA). These four buttons, having a shared common contact (terminal 1C), can be only used for one of the functions listed above at time.

- (3) Orange LED. The LED lights-up when at the terminal L+ is connected a positive voltage (8÷12Vdc). To signal an open-door state it is necessary to install to the door a proper sensor whose contacts must be a normally closed type (see page 94).
- (14) 3.5" Colour LCD Display.
- (15) **Jumpers** for **programming buttons** 1 to 6.
- (6) Microphone sensitivity adjustment MIC.SENS.
- (17) Colour adjustment (19).
- (18) Contrast adjustment (1).
- (9) Adjustment of the microphone amplifier .







ADJUSTMENTS

Brightness adjustment.

With the video intercom switched ON, press left and right the button to adjust the brightness of the image. To store the current setting press the button to this button switches OFF the video intercom.

Colour @ and Contrast () adjustment.

The trimmers are located on the back of the video intercom and can be operated by means of a small screwdriver. To adjust the trimmers is required:

- dismount the video intercom from the wall to accede to the adjustment points;
- -power ON the video intercom;
- -insert the screwdriver in the hole marked with the symbol of the adjustment required;
- rotate the screwdriver clock or anti-clock wise to find the desired image quality;
- -fix again the video intercom to the wall.

Enabling, disabling and volume of the ringing sound.

To disable the ringing sound it is necessary, during a receiving call, to press momentarily the button **x**; the red LED flashes during the call and the conversation.

The status (enabled or disabled) and the level of the ringing sound are stored and they are used for next calls. If the ringing sound is disabled during a receiving call or during a communication the red LED will flash to indicate this status, but no LED indication will be present in stand-by mode. With the model EH9160, after connecting a positive 15-18Vdc to the terminal X it will be possible to have the LED indication of the disabled ringing sound also with the video intercom in stand-by mode.

Setting of the audio volume

- With the video intercom switched ON, press the button to enable the communication. To set the receiving audio level (loudspeaker) press left and right the button . To store the selected level press the button . The pressure of this button switches OFF the video intercom.
- If required the communication the audio is intermittent or distorted it is advisable to adjust the microphone sensitivity by acting on the trimmer located on the back of the video intercom.
- In case of incorrect automatic switching of the video intercombetween talk and listening function decrease the level of the preferred

function and increase the other one by acting on the button 2 or on the trimmer 1 of the videointercom.

- -Attention. For a better setting of the audio levels on the video intercom adjust the microphone sensitivity of the door station to the minimum value and the loudspeakers volume to an intermediate value.
- -If there are intercommunicating devices adjust also their audio levels.

PROGRAMMING

To enter the programming mode it is required:

- -to switch ON the video intercom pressing the button \odot .
- -to keep pressed for more than 2 seconds the buttons **x**; a beep will confirm the correct operation and the red LED lights up.

Number of rings of the bell (external and intercommunicating calls)

After entering the programming mode it is necessary:

- to press the button to verify the number of the rings currently programmed;
- to press left and right the button to respectively increase or decrease the number of rings. After each pressure of the button the selected number of rings will be heard:
- please keep the public button pushed for more than 2 seconds or wait for the end of the programming time in order to make the changes confirmed and exit from the operation.

Ringertone selection (call from door station) Once entering into programming mode, it is necessary:

- to push the to button in order to check the ringer tone now programmed;
- to push laterally (left or right side) the button to select the previous or next ringer tone:
- after having selected the favourite ringer tone, keep the button pushed for more than 2 seconds or wait for the end of the programming time to make the changes confirmed and exit from the operation.

OPERATIONS

Call from the door station

Making a call from the door station the video intercom will ring (according to the programming) or the red LED starts flashing if the bell rings has been disabled; on the display appears the image of the calling station. To start the communication press the button \blacksquare If it is desired to disable the audio

to the door station, but continuing hearing the audio from the door station press shortly the button χ ; in this status the red LED will light up continuously. To restore the audio to the door station press again the button χ ; the red LED will recover the previous status. To end the communication and switch OFF the video intercom press the button Ξ . The video intercom switches OFF automatically when the communication time expires or if from the door station a call to another user is made.

Control switching ON

The button ② and the buttons numbered from 1 to 6, if present and correctly programmed (see table on the previous pages), allow to display the images (without audio) of the entrances presents in the system. To get also the audio it is sufficient to press the button ■ Press it again to switch OFF the video intercom.

Control switching ON is allowed only when the system is in stand-by mode (no running communications); if, pressing the control switching ON buttons, the video intercom doesn't switch ON a communication between another user and the door station could be active.

Door lock release

To operate the electric door lock release press the button of independently if the video intercom is switched ON or OFF. If the system has more door stations the electric door lock release of the door station from which the last call has been made or to which a control switching ON has been directed will be activated.

Intercommunicating Call (only EH9160C)

Pressing one of the buttons set to make intercommunicating calls the audio of the calling video intercom will be enabled and the green LED lights UP, the called video intercom rings with a different sound with respect to the call received from the external door station: the green LED flashes for all the call time and lights up continuously when the communication is enabled. If the ringing sound has been disabled also the red LED will flash. Press the button to enable the communication with the calling equipment. To end the communication press the button = 1 ... The communication will also end when the communication time expires or if there is a call from the external door station.



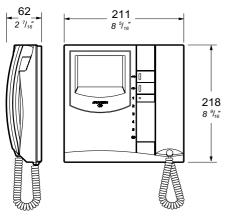


L2-L3-

L3-

4+1 INTERCOMS

VIDEOINTERCOMS



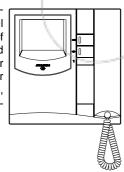
EX3160. White Flat video intercom with private audio-video function, electronic microphone, differentiated double electronic ringing sounds (modulated and continuous) and terminal board for the connection to the wall bracket. Equipped with led's and 2 buttons for camera control switch ON and door-open. Together with the videointercom there are 5 extra buttons which can be assembled in the proper slots (see page 10). The video intercom can be fixed to the wall (flushmounted) with the WB3160 bracket.

Technical data

Power supply 12÷15Vdc Operating current 0.4A Monitor 4" FLAT CRT TV standard CCIR-625 lines Line frequency 15625Hz Frame frequency 50Hz >5MHz Bandwidth Video signal on 75Ω 0.8÷1.5Vpp Switching ON time 2 seconds Operating temperature 0°÷+50°C Maximum permissible humidity 90%RH

EX3160C. Version of EX3160 video intercom with colour LCD.

EX3100C. It is different from the model EX3160C because of the lack of LED's and for the reduced number of buttons (only 3 for electrical lock release. monitoring and supplementary functions).



Technical data

Power supply 12÷15Vdc Operating current 0.4A 4" LCD Screen TV standard PAL Line frequency 15625Hz Frame frequency 50Hz Bandwidth >5MHz Video signal on 75Ω 0.8÷1.5Vpp Switching ON time 1 second Operating temperature 0°÷+50°C Maximum permissible humidity 90%RH

WB3160. Wall bracket for EX3100C, EX3160 and EX3160C video intercoms with terminal boards for connection to the system.

Terminals

Video signal input-output

Video ground (shielded coaxial) М

F General ground

Н Positive voltage input (18÷24Vdc)

1 Microphone output

Speaker and automatic switching OFF input 2

3 Audio ground

4 Control switching ON (button)

5 Door lock release - button @

Positive power supply output for video distributors 12Vdc 8

9М Call input from external door station

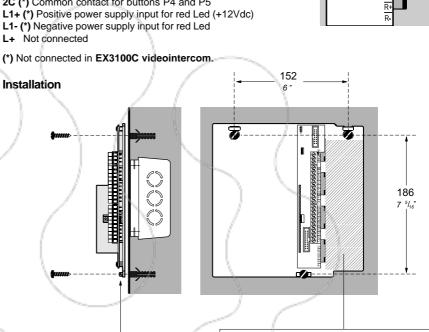
9R Electronic call input from other intercommunicating devices

Common contact for P1, P2, P3 (P2-P3 only for EX3160, EX3160C)

Service button (max 0.3A)

P2 ÷ P5 (*) Service buttons (max 0.3A)

2C (*) Common contact for buttons P4 and P5



140 ÷ 150 cm 4' 7" ÷ 4' 11" ÷ 4'

This area has to be free; remove possible present cables.

Fix the wall bracket by using 3 expansion plugs. Don't shut the 3 screws of fixing if the wall is irregular.

It is suggested to use a wall box to contain the extra wires.

TA3160. Table adaptor for Exhito videointercoms with weighted base, junction box and 2.4m connection cable with 20 wires.

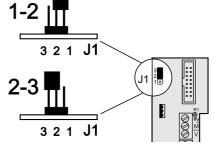
Note.

For the installation of the videointercom and mounting of additional buttons, see pages 9

Choosing the private conversation or intercommunicating service

1-2 = Video intercom without audio privacv

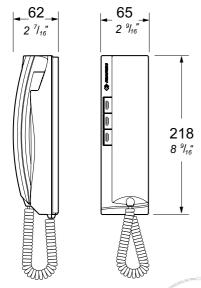
2-3 = Video intercom with audio privacy







INTERCOMS

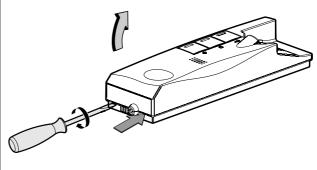


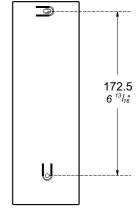
EX310. White electronic intercom with two push-buttons, spiral cord, electronic microphone and possibility to insert an additional EX301 push-button and a SR41, RL36 or EX304 module (description and characteristics of the modules on page 13). Wall-mountable with expansion plugs or wall box.

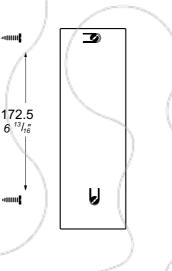
Terminals

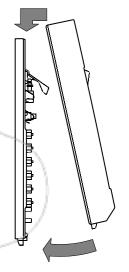
- Microphone
- Loudspeaker 2
- 3 Ground
- 5 Door release button (max 1A)
- Common button (connected to terminal 0 3 with jumper W1)
- С Common contact for 1 push-button
- Electronic call input
- Service push-button (max 1A)

Wall version









Accessories

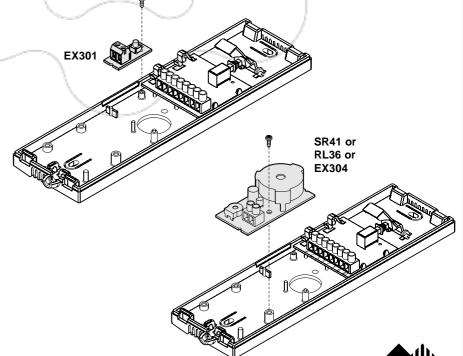
EX301. Single button module for Exhito intercoms. Maximum contact current is 0.1A. For higher currents use a relay.

Note. For easier reference the 2 terminals of the module are defined as C and P, but they have no polarity and can be inverted.

EX304. Additional loudspeaker module. See page 13.

RL 36. Relay module. See page 99.

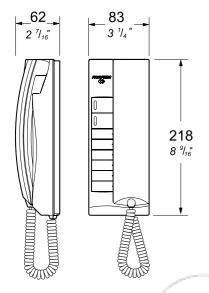
SR41. Electronic buzzer module. See page 13.





4+1 INTERCOMS

INTERCOMS



EX320. White colour intercom for 4+1 intercom systems and intercommunicating systems connected to 1 or more external door stations. Complete with spiral cord, electronic microphone and 2 buttons extendable to 8 by adding the **EX301** single button module.

Possibility of inserting modules EX304, EX332, ST703, SR41, RL36 and SM50E.

Wall-mountable with expansion plugs or wall box or on the desk using the table adaptor **TA320**.

Terminals

- 1 Microphone
- 2 Loudspeaker
- 3 Ground
- 5 Door release button (max 1A)
- Common button ← (connected to terminal 3 with jumper W1)
- C Common contact for 1 push-button
- 9 Electronic call input
- P Service push-button (max 1A)

Installation

For wall installation of the intercom see to page 12

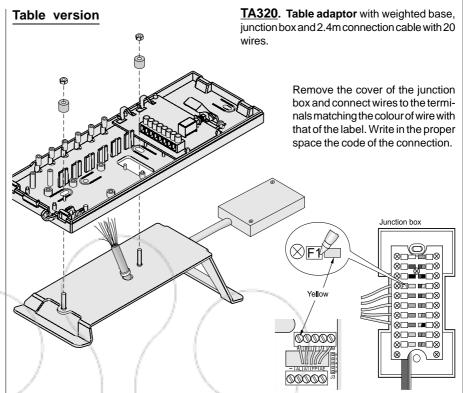
Accessories

EX301. Single button module. See page 12.

EX304. Additional loudspeaker module. See page 13.

EX332. Module with 3 LED. See page 13.

<u>SR41</u>. Electronic buzzer module. See page 13.



RL36. Relay module. When installed inside intercoms it allows to activate additional bells. Maximum switching current is 1A (24V).

Terminals

C common terminal of relay

NA normally open contact of relay

NC normally closed contact of relay

ground

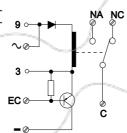
13Vac/dc voltage input

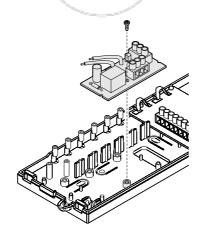
EC relay activation input (ground command)

Wiros

9 electronic call input without resistive load

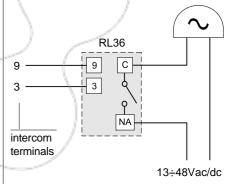
3 ground



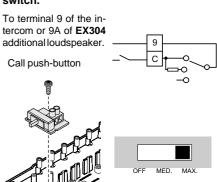


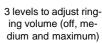
Additional bell connection

If the ringing volume is not sufficient or if you need to chime the call in a different place, you can add an additional bell enabled by a relay.



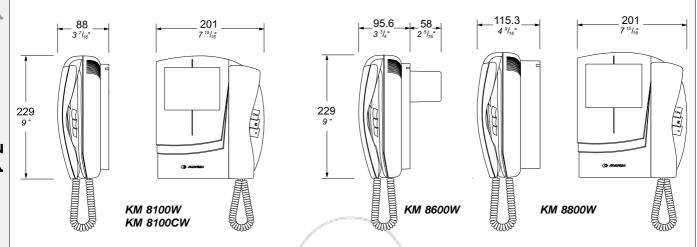
ST703. Ringing volume adjustment switch.







VIDEOINTERCOMS



KM 8100W. White colour videointercom with flat CRT, audio-video privacy, electronic microphone and terminal board for the connection to the wall-bracket. With three buttons for door lock release, control switch ON and auxiliary service. The maximum acceptable current to the button terminals is 0.3A. For higher currents use relay unit art.1471 or 1472. It can be installed on the wall (with no built-in) by using the wall-bracket WB8600.

KM8100CW. Version of KM8100W videointercom with colour LCD.

Technical data

18÷24Vdc Power supply Operating current 0.5A Video tube (KM8100W) 4" FLAT CRT Screen (KM8100CW) 4" LCD TV standard (KM8100W) CCIR-625 lines TV standard (KM8100CW) PAL 15625Hz Horizontal frequency Vertical frequency 50Hz Bandwidth >5MHz Video signal on 75Ω 0.8÷1.5Vpp Starting up time (KM8100W) Starting up time (KM8100CW) 2-4 seconds 1 second Operating temperature 0°-+50°C Max. permissible humidity 90%RH

KM 8600W. White colour videointercom with traditional cathode tube, audio-video privacy, electronic microphone and terminal board for the connection to the wall-bracket. With three buttons for door lock release, control switch ON and auxiliary service. The maximum acceptable current to the button terminals is 0.3A. For higher currents use relay unit art.1471 or 1472. It can be installed on the wall (with no built-in) by using the wall-bracket WB8600 and the back-box art.8083.

Technical data

18÷24Vdc Power supply Operating current 0.7A Video tube 4.5-90 CCIR-625 lines TV standard Horizontal frequency 15625Hz Vertical frequency 50-60Hz Bandwidth >5MHz Video signal on 75Ω 0.8÷1.5Vpp Starting up time 5÷7 sec. Operating temperature 0°÷+50°C Max. permissible humidity 90%RH

KM 8800W. White colour reflex videointercom, with audio-video privacy, electronic microphone and terminal board for the connection to the wall-bracket. With three buttons for door lock release, control switch ON and auxiliary service. The maximum acceptable current to the button terminals is 0.3A. For higher currents use relay unit art.1471 or 1472. It can be installed on the wall (with no built-in) by using the wall-bracket WB8600.

Technical data

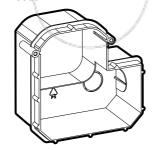
18÷24Vdc Power supply Operating current 0.7A Video tube 4.5-90° CCIR-625 lines TV standard Horizontal frequency 15625Hz Vertical frequency 50-60Hz Bandwidth >5MHz Video signal on 75Ω 0.8÷1.5Vpp 5÷7 sec. Starting up time 0°÷+50°C Operating temperature Max. permissible humidity 90%RH

WB 8600. Plastic bracket to fix the video intercoms KM8100W, KM8600W and KM8800W to the wall. Complete with terminal board for connection to the system and connectors for connection to the video intercom.

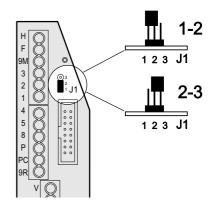
Terminals

- Video signal input 0.8÷1.5Vpp
- Video ground General ground
- Positive power supply input 18÷24Vdc
- Microphone output
- Speaker and automatic switching OFF input
- Audio around
- Control switching ON button •
- Door lock release button on intercom
- Positive power supply output for video distributors 12Vdc
- Call input from external door station (250mA)
- 9R Intercommunicating or floor-call input
- Service button (symbol ●)
- PC Common of service button

8083. Back-box for video intercom art.KM8600W



Choosing the private conversation or intercommunicating service



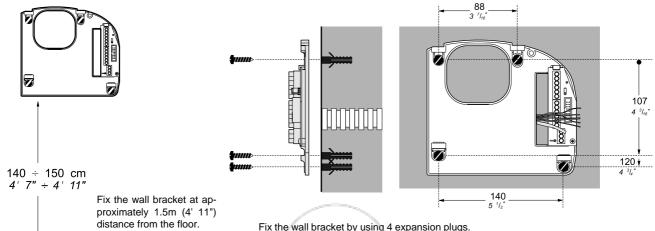
- 1-2 = Video intercom without audio privacy
- 2-3 = Video intercom with audio privacy





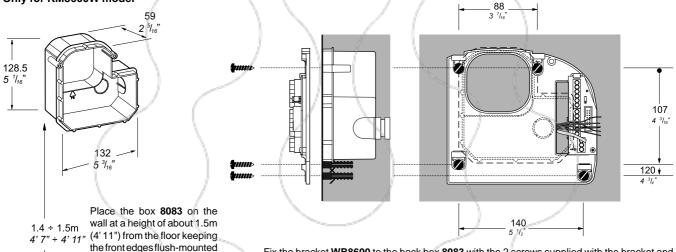
Installation

Only for KM8100W and KM8800W models



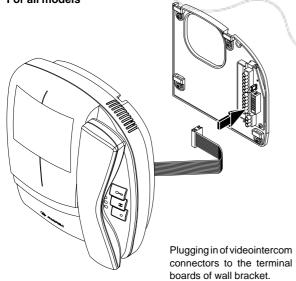
Fix the wall bracket by using 4 expansion plugs.

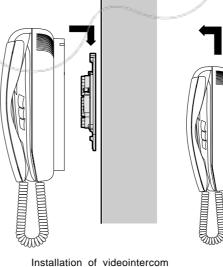
Only for KM8600W model

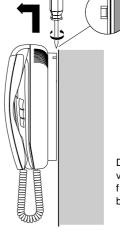


the front edges flush-mounted Fix the bracket WB8600 to the back box 8083 with the 2 screws supplied with the bracket and and vertical to the finished adding 2 screws and expansion plugs for the lower fixing. plaster.

For all models







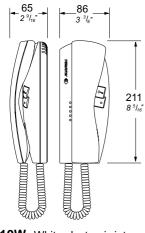
Dismounting of videointercom from the wall bracket.





onto the wall bracket.

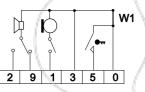
INTERCOM

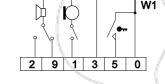


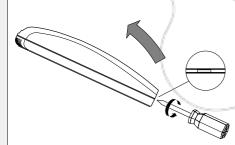
KM810W. White electronic intercom with 1 button, spiral cord, electronic microphone, and possibility of installation of SR41, SM50E modules and a ST701 additional push-button. Wall-mountable with expansion plugs or wall box.

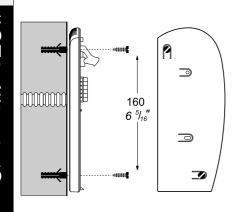
Terminals

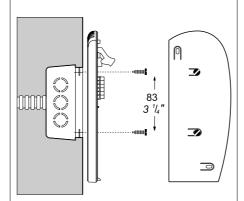
- microphone
- 2 speaker
- ground
- 5 door release button (max 1A)
- common door release button (connected to terminal 3 with jumper W1)
- 9 electronic call input

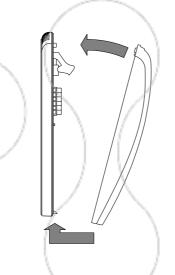




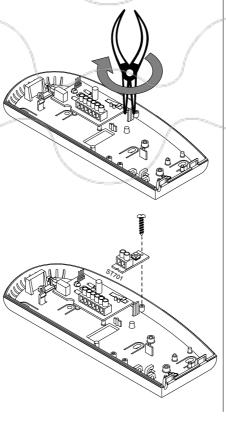




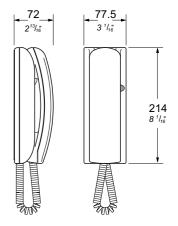




Mounting of the additional button ST701.



INTERCOM



PT510EW. White electronic intercom with 1 button, spiral cord, electronic microphone, and possibility of installation of SR41 and SM50E modules. Wall-mountable with expansion plugs or wall box.

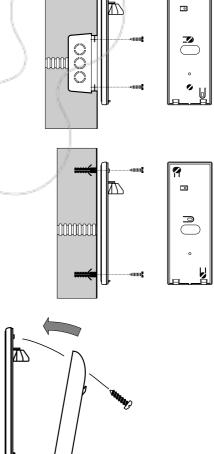
W1

Terminals

- 1 microphone
- 2 speaker
- ground
- door release button (max 1A)
- common door release button (connected to terminal 3 with jumper W1)

2 9 1

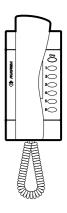
9 electronic call input

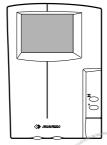


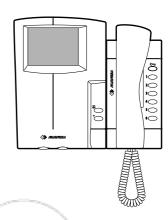


COMPOSITION BOARD OF STUDIO SERIES INTERNAL STATIONS

Wall version







Intercom

ST720W intercom

Monitor

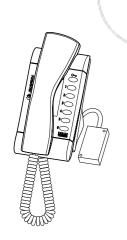
ST7100W B/W monitor ST7100CW colour monitor WB7100 wall bracket for monitor

Videointercom

ST7100W B/W monitor
ST7100CW colour monitor
WB7100 wall bracket for monitor
ST720W intercom

WB700 wall bracket for intercom

Table version







Intercom

ST720W intercom **WB700** wall brac

WB700 wall bracket for intercom table adaptor for intercom

Monitor

ST7100W B/W monitor
ST7100CW colour monitor
WB7100 wall bracket for monitor
TA7100 table adaptor for monitor

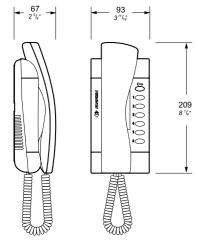
Videointercom

ST7100W B/W monitor
ST7100CW colour monitor
WB7100 wall bracket for monitor
TA7100 table adaptor for monitor
ST720W intercom
WB700 wall bracket for intercom
TA700 table adaptor for intercom





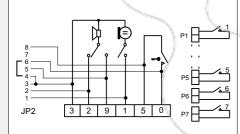
INTERCOM Studio series

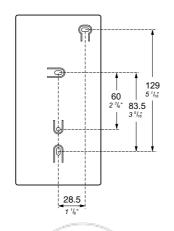


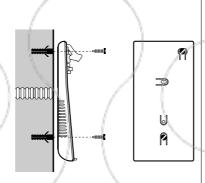
ST 720W. White colour intercom for 4+1 intercom systems and intercommunicating systems connected to 1 or more external door stations. Complete with spiral cord, electronic microphone and 1 button extendable to 7 by adding the **ST 701** single button module. Wall-mountable with expansion plugs or wall box or with **WB700** bracket if combined with **ST 7100** monitor or other modules.

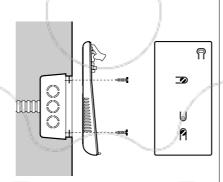
Terminals

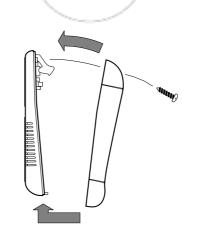
- 1 microphone
- 2 speaker
- **3** ground
- 5 door release button **→** (max 1A)
- 0 common button ⊕ → grounded with the jumper present in the JP2 connector
- 9 electronic call input







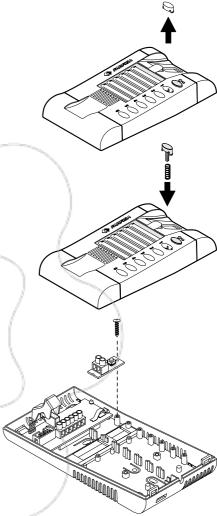


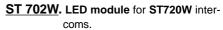


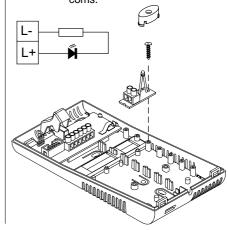
Accessories

<u>ST 701</u>. Single button module for ST720 intercoms. Maximum contact current is 0.1A. For higher currents use a relay.

Note. For easier reference the 2 terminals of the module are defined as C and P, but they have no polarity and can be inverted.



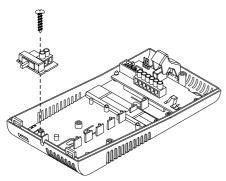




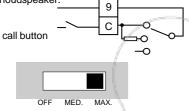




switch.



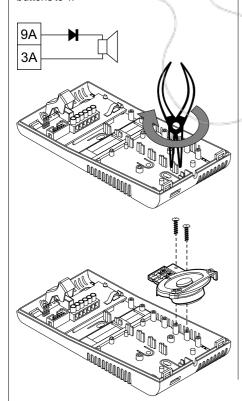
to terminal 9 of the intercom or 9A of ST 704 additional loudspeaker.



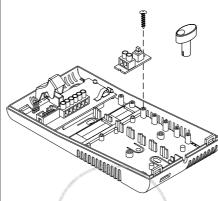
3 levels to adjust ringing volume (off, medium and maximum)

ST 704. Additional loudspeaker. It allows to receive calls with off-hook handset, or in systems with 2 calls, with 1 single call and 1 call in common to other intercoms.

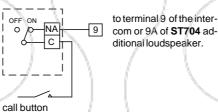
To install the module the last module holder on the intercombase must be removed (see drawing). The article takes the space of 2 modules, and therefore reduces the number of additional buttons to 4.



ST 703. Ringing volume adjustment ST 715. Switch module. It allows to activate or deactivate one of the intercomfunctions (for example call, door lock release, etc.). Maximum contact current is 0.1A.



Example of switch module application to deactivate the intercom call



RL 36. Relay module. When installed inside intercoms it allows to activate additional bells (see page 183). Maximum switching current is 1A (24V).

Terminals

common terminal of relay

normally open contact of relay

NC normally closed contact of relay

ground

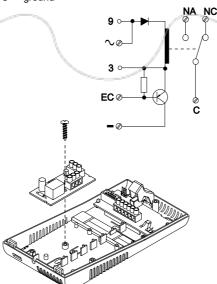
13Vac/dc voltage input

EC relay activation input (ground command)

Wires

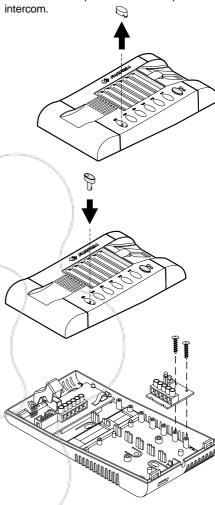
electronic call input without resistive load

ground

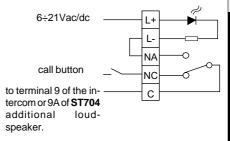


ST 716. Switch module with LED. It allows to activate/deactivate/divert one of the intercom functions (for example call, door lock release, etc.) with visual indication of the function. Maximum contact current of switch module is 0.1A.

The article takes the space of 2 modules. It is recommended to install it in the last position in order to use the space in the bottom part of the



Example of switch module with LED application to deactivate the intercom call with visual indication







SM 50E. Private conversation module.

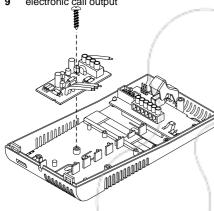
When installed inside all the intercoms of the multi-way intercom system it allows only the called user to be put in communication with the external door station. The module cannot be used in intercommunicating systems and if the intercom is combined with a monitor (in this case the service is provided by the monitor itself).

Terminals

- audio line transmitter
- audio line receiver C
- electronic call input
- ground

Wires

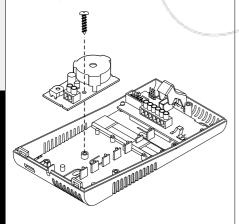
- microphone
- speaker
- ground
- electronic call output



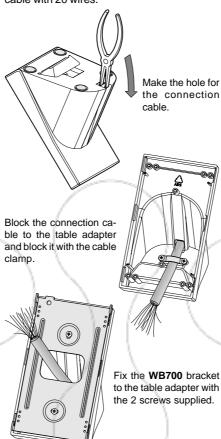
SR 41. Electronic buzzer module. Thanks to low current consumption, it can be used for parallel call to several intercoms. Provided with volume adjustment.

Terminals

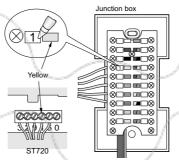
- ground
- power supply input (13Vac-70mA; 9÷20Vdc-

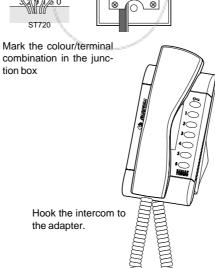


TA720W. Table adapter, white colour. Complete with junction box and 2.4m connection cable with 20 wires.



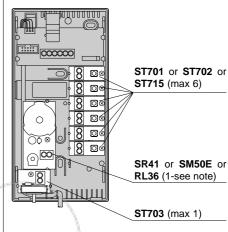
Open the intercom and make the connections as shown in the installation diagram.

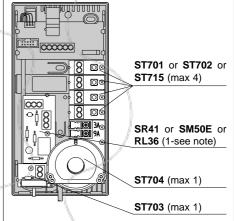


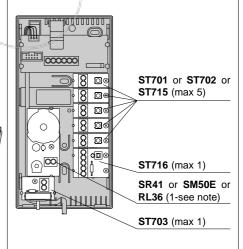


Combination of additional modules

All modules described above can be installed inside the ST 720 intercoms. It must be kept in mind that they cannot be installed all at the same time. Below are some examples of possible combinations.





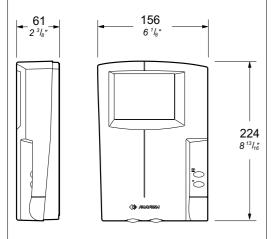


An additional SR41 or SM50E or RL36 module can be installed taking the place of the last 4 positions of the push-button modules after removing the plastic holders.





MONITORS



ST 7100W. White monitor with flat CRT and 2 buttons. One button for control switch ON and one button for supplementary services. Maximum acceptable current of buttons is 0.3A. For higher currents use relay art. **1471** or **1472**.

The monitor can be surface mounted on the wall with bracket art. **WB7100**.

Technical data

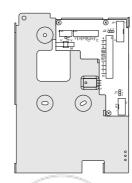
18÷24Vdc Power supply Operating current 0.35A Monitor 4" FLAT CRT TV standard CCIR-625 lines Horizontal frequency 15625Hz Vertical frequency 50Hz Bandwidth >5MHz Video signal on 75Ω 0.8÷1.5Vpp Starting up time 2÷4 sec. 0°÷+50°C Operating temperature Max. permissible humidity 90%RH

ST 7100CW. Version with colour LCD of monitor **ST7100W**.

Technical data

18-24Vdc Power supply Operating current 0.4A Monitor 4" LCD TV standard PAL 15625Hz Horizontal frequency Vertical frequency 50Hz Bandwidth >5MHz Video signal on 75Ω 0.8÷1.5Vpp Starting up time 1 sec. 0°÷+50°C Operating temperature Max. permissible humidity 90%RH

FIXING ELEMENTS



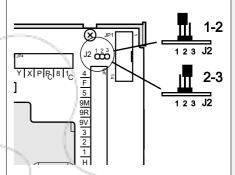
WB 7100. Bracket to fix the monitor ST7100 to the wall or to the table adapter (art.TA7100). Complete with terminal board for connection to the system and connectors for connection to the monitor. One or more brackets WB 700 can be combined with WB 7100 to expand the system. The bracket is arranged to be electrically connected to the intercom ST720 (the connection cable is supplied with bracket WB 700).

Terminals

- V Video signal input 0.8÷1.5Vpp
- M Video ground
- F General ground
- H Positive power supply input 18÷24Vdc
- X Negative balanced video signal input
- Y Positive balanced video signal input
- 1 Microphone output
- 2 Speaker and automatic switching OFF input
- 3 Audio ground
- 4 Control switching ON button 3
- 5 Door lock release button ← on inter-
- 8 Positive power supply output for video distributors 12Vdc
- **9M** Call input from external door station (250mA)
- 9R Intercommunicating or floor-call input
- **9V** Input for direct activation from FN4000 digital system (ground command)
- C Common of buttons for control switching ON
- P Service button (symbol ●)
- PC Common of service button

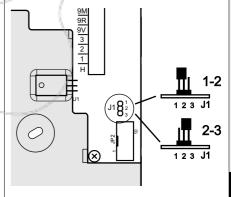
With monitor **ST7100** the video connection can be made with 75 Ohm coaxial cable or twisted pair. The choice between the two systems depends on the correct selection of video distributor and camera. The number of wires and possible installations does not change. **Do not forget to position jumper J2 correctly and use the proper input terminals on bracket WB7100**.

Choosing the video connection with coaxial cable or twisted pair



- 1-2 = Video connection with coaxial cable at terminals V and M
- 2-3 = Video connection with twisted pair at terminals **X** and **Y**

Choosing the private conversation or intercommunicating service



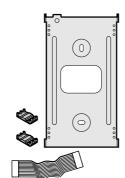
- **1-2** = Monitor without audio privacy
- 2-3 = Monitor with audio privacy



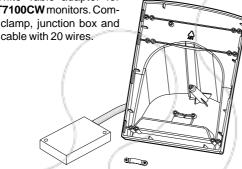


WB 700. Bracket for fixing mechanically intercom ST 720 and/or accessories of Studio line to monitor ST7100 or among them. Complete with:

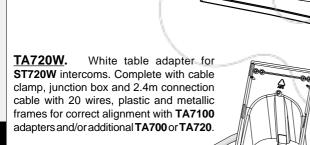
- flat cable for electrical connection of one intercom ST 720 to monitor ST 7100
- templates for correct alignment with bracket WB7100 and/or brackets WB700.



TA7100W. White Table adapter for **ST7100W** and **ST7100CW** monitors. Complete with cable clamp, junction box and 2.4m connection cable with 20 wires.



TA700W. White table adapter for accessories, intercoms and telephones of Studio series. Complete with cable clamp, plastic and metallic frames for correct alignment with **TA7100** adapters and/or additional **TA700** or **TA720**.



Note. Choose model **TA720** when the 20 wires of the **TA7100** connection cable are not sufficient to cover the system requirements.

INSTALLATION

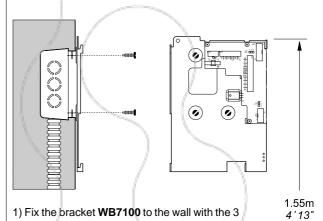
The modularity of the Studio articles permits the realisation of different types of system. Some of the possible compositions are illustrated below.

- monitor only
- video intercom (see page 110)
- digital video intercom (see manual 10 2010 edition)

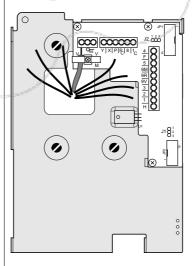
MONITOR ONLY

Installation steps for monitor **ST7100** or **ST 7100C** in wall or table version

Wall version



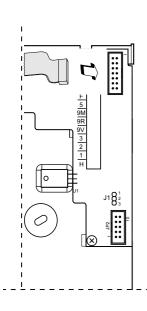
 Fix the bracket WB7100 to the wall with the 3 fixing points at approximately 1.55 m distance from the floor to the upper part of the bracket.



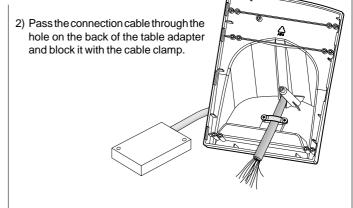
2) Make the connections on the bracket terminal board.



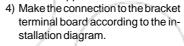


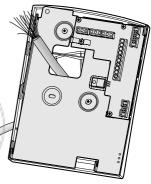


3) Connect the monitor cable to the bracket.



3) Fix the bracket **WB7100** with the 2 screws supplied.





5) Mark the colour/terminal combination on the junction box.

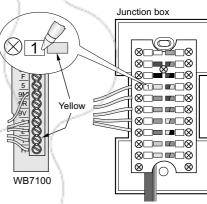
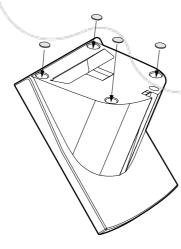


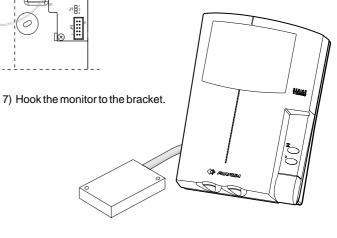
Table version



4) Hook the monitor to the bracket.

1) Apply the 4 anti-slip rubber pads in their housing under the table adapter base.







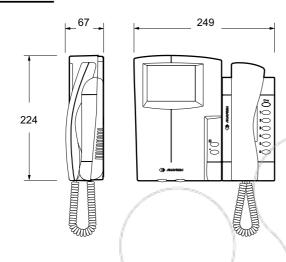


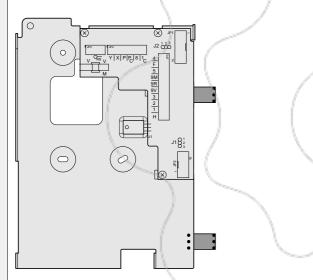
INTERNAL STATIONS

VIDEO INTERCOM

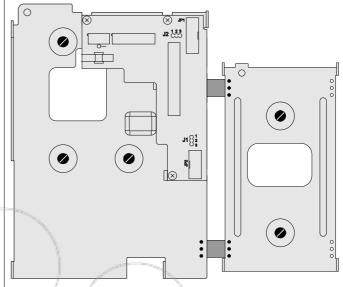
Installation steps for monitor **ST7100** (or **ST7100C**), intercom **ST720**, brackets **WB7100** and **WB700** and table adapters (if required) for the realisation of an internal station with video intercom functions.

Wall version

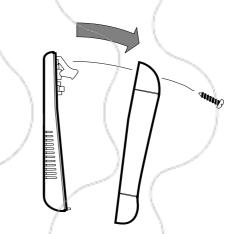




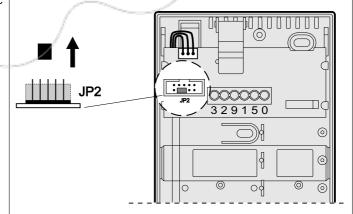
1) Splice the bracket **WB700** with the **WB7100** inserting the 2 plastic templates in the proper holes.



2) Fix the 2 brackets to the wall following the indications of drawing 1 on page 108.



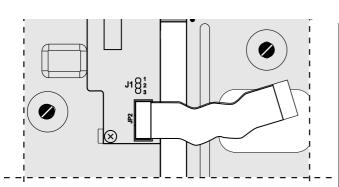
3) Remove the intercom cover.



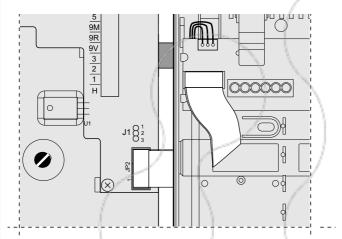
4) Remove the $\boldsymbol{mobile\ jumper\ of\ connector\ JP2}$ of the intercom.



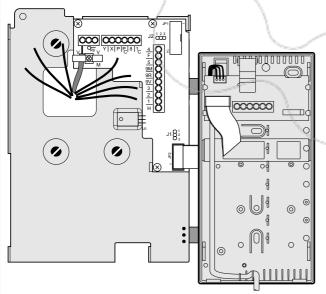




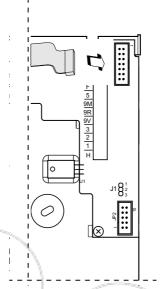
 Connect the flat cable supplied with bracket WB700 to connector JP2 of bracket WB7100.



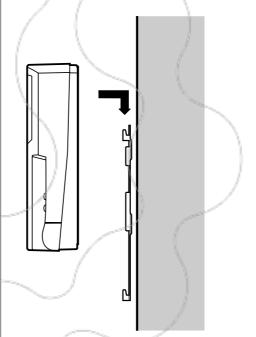
6) Hook the intercom base to bracket **WB700** and connect the other end of the flat cable to connector JP2 of the intercom by passing the cable between the intercom base and the bracket. Pull the cable in such a way that the extra part of the cable remains inside the intercom.



7) Make the connection on the terminal board of bracket WB7100 according to the installation diagram. In case of additional buttons or modules, additional connections must be made inside the intercom.



8) Connect the monitor cable to the bracket.



9) Hook the monitor to the bracket.

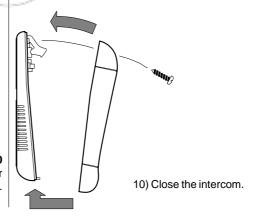
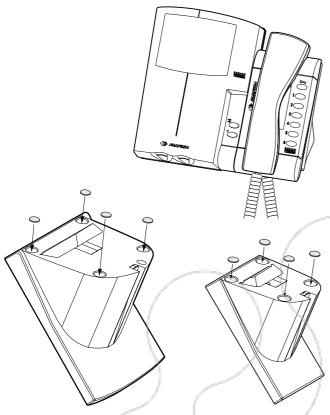


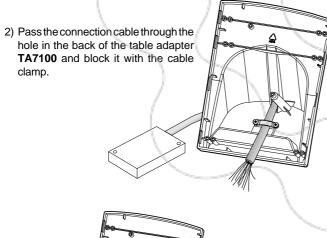


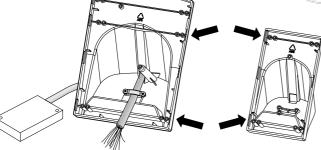


Table version

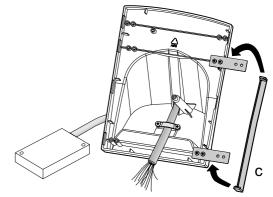


 Apply the 8 anti-slip rubber pads in their housings under the base of table adapters TA7100 and TA700.

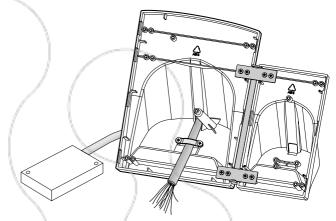




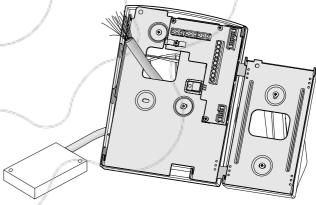
3) The arrows indicate the breaking points for the application of the metallic frames.



4) Screw the 2 metallic frames to the desk adapter **TA7100** and hook the plastic frame to them.

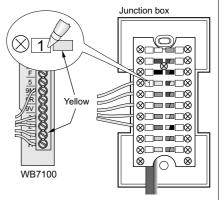


5) Fix the table adapter TA700 to the 2 metallic frames.



6) Screw the brackets WB7100 and WB700 to the table adapters.

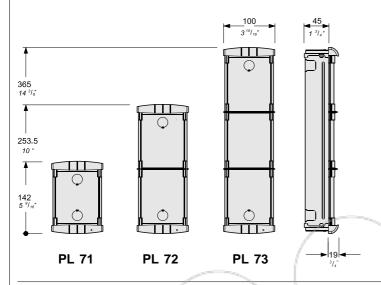
7) Hook the monitor and intercom according to the instructions on pages 110 and 111 (from point 3 to 10). When connecting the wires to the terminal boards of bracket WB7100 (point 7) you must mark the colour/terminal combination on the junction box.







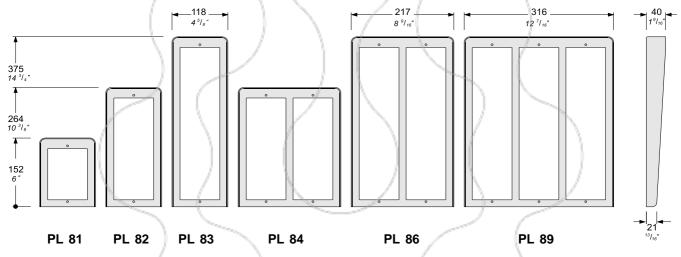
Module frames complete with back box



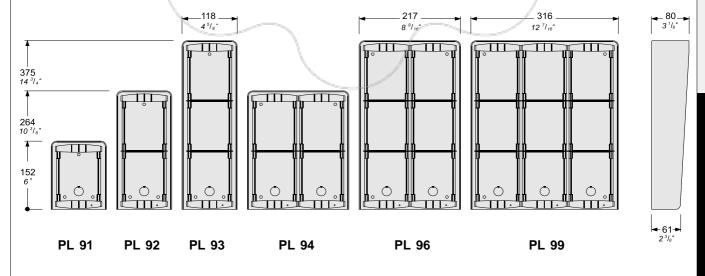
Push-button panels in extruded aluminium and steel push-buttons made up of modular elements. Suitable for the most diverse installation requirements. The careful selection of modules allows for multiple application opportunities; from one-way installations to blocks of flats; from intercom to video intercom installations.

The optimized size of modules allows for easy installation on the gage jamb.

Hood covers



Rain shelter with module frames







EXTERNAL DOOR STATIONS

Push-button panel

Modules with integrated door speaker



PL10P without call buttons



PL11P with 1 call button



<u>PL12P</u> with 2 call buttons



PL40P

without call buttons and with B\W camera





Video modules with integrated door speaker

PL41P

with 1 call button and B\W camera

PL41PC colour version



PL42P

with 2 call buttons and B\W camera

PL42PC colour version



PL122P with 2 call buttons - 2 row



PL124P with 4 call buttons - 2 row



PL422P

with 2 call buttons and B\W camera - 2 row

PL422PC





PL424P

with 4 call buttons and B\W camera - 2 row

PL424PC colour version

Modules: blank, buttons and number



PL 20 blank module



PL 21 with 1 call button



PL 22 with 2 call buttons



PL 23 with 3 call buttons



PL 24 with 4 call buttons



with 6 call buttons - 2 row



with 8 call buttons - 2 row



PL 50 number module

Access control modules



FC 52PL Keypad module for access control (see characteristics on page 116).



FP 52PL Proximity reader for access control (see characteristics on page 116).

Technical characteristics and terminal boards of the button modules

PL21	PL.22	PL23	PL24	PL226	PL228	PL50	1
Ą	A	Ą	Α	A	Ą	Α	AC power supply input for nameplate
└(25mA) [│]			—— (50n	nA)	((0.1A)	Led (13Vac)
-	-	· -	-	-	-	-)	Ground
С	С	С	С	C/C2	C/C2	2	Call push-buttons common
~_P1	P1	P1	P1	P1	P1		Call push-button
1	P2	P2	P2	P2	/ P2		Call push-button
		P3	P3	P3 /	P3		Call push-button
	1	No. of Concession, Name of Street, or other Persons, Name of Street, Name of S	P4		P4		Call push-button
	-		-	P5÷P	7 P5÷I	P8	Call push-buttons (C2 common)

Technical characteristics and terminal boards of the Profilo modules

PL10P PL11P PL12P PL122P PL124P PL40PC PL41PC PL42PC PL422PC PL424PC

							70.		11	
1	1	1	1	1	1	1	1			Reception audio line
2	2	2	2	2	2	2	2	2	2	Transmission audio line
3	3	3	3	3	3	3	3	3	3	Power supply input for electric door speaker (6÷12Vdc)
4	4	4	4	4	4	4	4	4	4	Audio ground
-	-	-	-	-	-	-	-	-	-	Ground for name-plate Led and service Led (13Vac)
A	Α	Α	Α	Α	Α	Α	Α	Α	Α	AC or DC power supply input for name-plate Led (13Vac-dc)
	С	С	C(C2)	C(C2)		С	С	C(C2)	C(C2)	Call push-buttons common
	P1	P1	P1	P1		P1	P1	P1	P1	Call push-button
		P2		P2			P2		P2	Call push-button
			P3	P3-P4				P3	P3-P4	Call push-buttons (call push-buttons common C2)
				٧	٧	٧	٧	V	٧	Video signal output (coaxial cable)
					М	М	М	М	М	Video ground (coaxial shield)
					Н	Н	Н	Н	Н	Positive voltage input for camera (18÷24Vdc)
L+	L+	L+	L+				L+	L+	L+	Power supply input for service Led (13Vac-dc)





EXTERNAL DOOR STATIONS

Push-button panel

Video modules with integrated door speaker







PL40P.

Modules complete with:

- CCD color camera with autoiris and fixed 3.6mm lens.
- amplified speaker unit with volume adjustment of 2 channels (reception and transmission)
- aluminium front plate with transparent screen
- horizontal and vertical adjustments
- red operation LED

PL40PC. Colour version of the PL40P model.

PL41P.

Same as PL40P, with 1 call button and name plate panel with transparent screen and green LED backlighting.

PL41PC. Colour version of the PL41P model.

PL42P. Same as PL40PED, with 2 call buttons and name plate panel with transparent screen and green LED backlighting.

PL42PC. Colour version of the PL42P model.

PL422P. Same as PL40PED, with 2 call buttons on 2 rows and name plate panel with transparent screen and green LED backlight-

PL422PC. Colour version of the PL422P model.

PL424P. Same as PL40PED, with 4 call buttons on 2 rows and name plate panel with transparent screen and green LED backlight-

PL424PC. Colour version of the PL424P model.

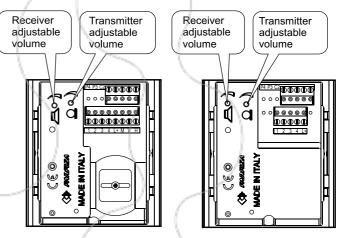
	1	١.
Technical data	PL40P÷	PL40PC÷
	PL424P	PL424PC
Camera power supply	21±3Vdc	21±3Vdc
Operating current	0.2A	0.4A
Audio power supply	6÷12Vdc-0.06A	6÷12Vdc-0.06A
Video signal output sur 75Ω	1Vpp	1Vpp
Video signal standard	CCIR	PAL
Minimum illumination	2 Lux	2,5Lux
Led's	6 infrared	6 white
White balanced	-	auto
Sensor	CCD 1/4" B/W	CCD 1/3" colour
Number of pixels	291.000	291,000
Horizontalfrequency	15.625Hz	15,625Hz
Vertical frequency	50Hz	50Hz
Lens	3.6mm; F5	4mm; F4
Focus	0.1m ÷ ∞	0.6m ÷ ∞
Autoiris	electronic	electronic
Horizontal adjustment	± 15°	± 15°
Vertical adjustment	± 15°	± 15°
Operating temperature	-10°÷+40°C	-10°÷+40°C
Maximum permissible humidit	y 80%RH	80%RH

Adjustments

You can manually change the camera framing by unloosening and adjusting the horizontal and vertical screws in the de-± 15° sired direction. (D)(D) å 000000

Audio adjustments

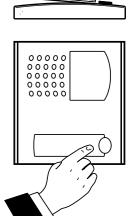
If necessary, it is possible to adjust the volume of the 2 audio channels opportunely varying the accessible trimmers.



Terminals

- Reception audio line
- Transmission audio line
- Power supply input for electric door speaker (6÷12Vdc)
- 4 Audio ground
- Alternated power supply input or ground for name-plate Led
- AC or DC power supply input for nameplate Led (12Vac-dc)
- Call push-buttons common
- P1 Call push-button
- Video signal output (coaxial cable)
- Video ground (coaxial shield)
- Positive voltage input for camera (18÷24Vdc)
- L- Negative power supply input for service Led
- L+ Positive power supply input for service Led

Dismounting of name holder to insert name label.







PROXIMITY READER FOR ACCESS | ACCESS CONTROL KEYPAD **CONTROL**



FP52PL

This article allows for the activation of 2 relays by means of keytags or electronic ISO cards based on transponder technology.

Programmable activation time from 1 to 63 seconds for every relay. 4 user cards and 1 master card supplied with the product. Acoustic and visual control signals and 3-digit display to view numbers and codes during set-up and operation.

Technical data

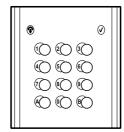
Power supply 12Vac/dc ±10% Stand-by current 0.1A Maximum current consumption 0.25A Contact ratings 24Vac - 2A Max. number of cards 490 Max. number of Master cards 10 Number of relays **Relay time** 1 to 63 sec. Minimum recognition distance 3 cm Maximum recognition time 1 sec 0° ÷ +40°C Operating temperature Maximum permitted humidity 85% RH

Terminals

+/A positive or alternate current input ground or alternate current input -/A door open button NC2 normally closed contact of relay 2 NA2 normally open contact of relay 2 C2 common terminal of relay 2 NC1 normally closed contact of relay 1 NA1 normally open contact of relay 1 C1 common terminal of relay 1



- Card recognition LED. It turns ON during card recognition.
- Relay activation LED. It indicates relay deactivation (red) or activation (green).
- Program LED. It turns ON during system programming.
- Card cancellation and system setup LED. It turns ON during Master or user card cancellation and system setup.



FC 52PL.

Access control keypad with 12 digits and 2 relays for lock release. 4 programmable access codes for each relay. Programmable door opening time from 1 up 99 sec. for each relay (or bistable operation of relay 1). Acoustic and visual confirmation for entered keys, accepted programming and for wrong codes.

Technical data

Power supply: 12Vac/dc ±10% Stand-by current: 0.06A Maximum current consumption: 0.15A Contact ratings: 12Vac-2A Numbers of codes for relays 1: 12 or direct activation Numbers of codes for relays 2: 12 or direct

activation

Activation time for each relay: from 1 to 99 sec. (or bistable relay 1)

Operating temperature: 0° ÷ +40°C Maximum permissible humidity: 85% RH

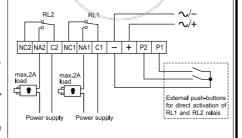
Terminals

NA2 normally open contact of relay 2 common contact of relay 2 C2 NC1 normally closed contact of relay 1 normally open contact of relay 1 NA1 common contact of relay 1 ground or alternate voltage input positive or alternate voltage input

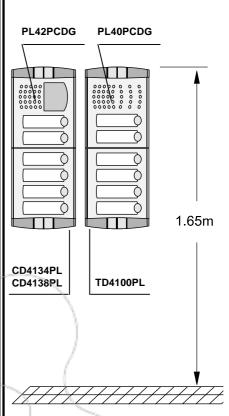
NC2 normally closed contact of relay 2

P2 activation of the relay 2; if momentarily connected to ground it allows the activation for the programmed time

P1 activation of the relay 1; if momentarily connected to ground it allows the activation for the programmed time



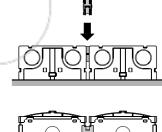
INSTALLATION

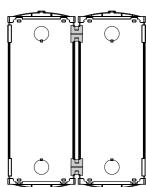


Place the push-button panel back box at a height of about 1.65m (5' 5") from the floor keeping the front edges flush-mounted and vertical to the finished plaster.

Position the camera in such a way that sunlight or other direct or reflected light sources with high intensity do not hit the camera lens.

Assembling modules side by side

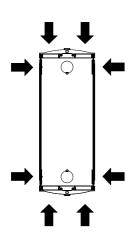




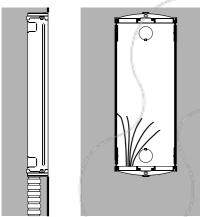
Insertion of spacers between back boxes. Spacers and cable bushing (not supplied with the products) must be inserted before brick work.

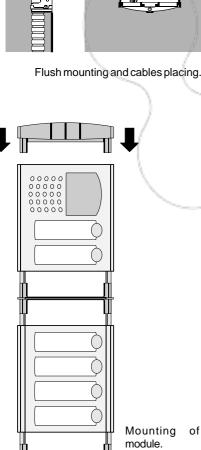


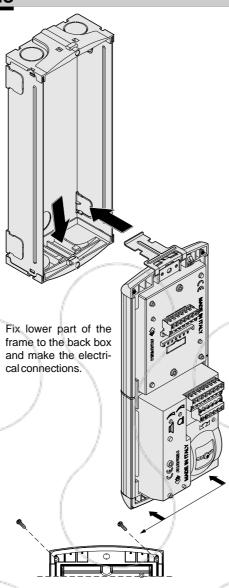
EXTERNAL DOOR STATIONS



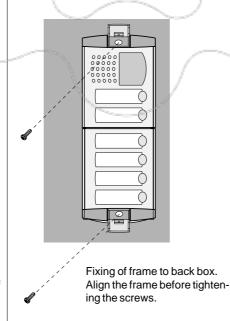
Openings for cables.

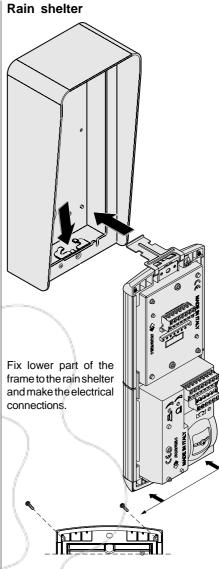




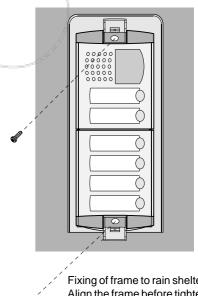


Fixing of module frames to the upper side by the 2 small screws included in the back boxes.





Fixing of module frames to the upper side by the 2 small screws included in the rain shelter.



Fixing of frame to rain shelter. Align the frame before tightening the screws.





46 call buttons

34 call buttons

1 ROW PUSH BUTTON PANELS Examples of compositions in intercom systems 000000 0 0 0 50 00000 0 0 0 00000 0 0 0 00000 0 0 0 1 call button 00000 0 0 0 2 call 4 call 6 call 8 call 10 call 11 call buttons 14 call buttons 17 call buttons 20 call buttons buttons buttons buttons buttons buttons 00000 0 0 0 00000 0 0 0 00000 0 0 0 000000 0 0 22 call buttons 25 call buttons 28 call buttons 30 call buttons 31 call buttons 00000 0 0 00000 0 0 00000 0 0 50

40 call buttons

Composition board of Profilo push-button panels.

42 call buttons

	\\	/\		1	\		
N° calls	Dimensions	Door speaker module (amplifier)	Buttor	, blank or info modules (*)	7.	Back box and module frame (**)	Rain shelters
1	100x142x19	1 PL11P		-	- The state of the	1 PL71	1 PL91
2	$(3^{15}/_{16}" \times 5^{9}/_{16}" \times 3^{3}/_{4}")$	1 PL12P	-	- /	-	1 PL71	1 PL91
4	100x253,5x19	1 PL10P	1 PL24	-/	-	1 PL72	1 PL92
6	$(3^{15}/_{16}" \times 10" \times ^{3}/_{4}")$	1 PL12P	1 PL24	-/	-	1 PL72	1 PL92
8	100x365x19	1 PL10P	2 PL24	- and of	-	1 PL73	1 PL93
10	$(3^{15}/_{16}" \times 14^{3}/_{8}" \times {}^{3}/_{4}")$	1 PL12P	2 PL24	-	-	1 PL73	1 PL93
11	200x253,5x19	1 PL11P	2 PL24	1 PL22		2 PL72	1 PL94
14	$(7^{7}/_{8}" \times 10" \times {}^{3}/_{4}")$	1 PL12P	3 PL24	/-	-	2 PL72	1 PL94
17		1 PL11P	4 PL24	/ -	1 PL20	2 PL73	1 PL96
20	200x365x19 (7 ⁻⁷ / ₈ " x 14 ³ / ₈ " x ³ / ₄ ")	1 PL12P	4 PL24	1 PL22	-	2 PL73	1 PL96
22		1 PL12P	5 PL24	-	-	2 PL73	1 PL96
25	400 050 5 40	1 PL11P	6 PL24		1 PL20	4 PL72	-
28	400x253,5x19 (15 ³/ ₄ " x 10" x ³/ ₄ ")	1 PL10P	7 PL24	-	-	4 PL72	-
30		1 PL12P	7 PL24	-	-	4 PL72	-
31	300x365x19	1 PL11P	7 PL24	1 PL22		3 PL73	1 PL99
34	$(11^{13}/_{16}" \times 14^{3}/_{8}" \times {}^{3}/_{4}")$	1 PL12P	8 PL24	-	-	3 PL73	1 PL99
38		1 PL12P	8 PL24	2 PL22	1 PL20	4 PL73	-
40	400x365x19	1 PL12P	9 PL24	1 PL22	1 PL20	4 PL73	-
42	$(15^{3}/_{4}" \times 14^{3}/_{8}" \times 3^{3}/_{4}")$	1 PL12P	10 PL24	-	1 PL20	4 PL73	-
46		1 PL12P	11 PL24	-	-	4 PL73	-

^(**) If requested the hood covers can be added (see on page 113)

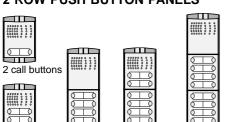
38 call buttons

(*) or PL50





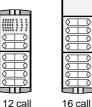
2 ROW PUSH BUTTON PANELS



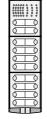




buttons



buttons



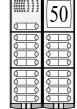
20 call buttons



22 call buttons

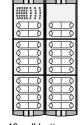


28 call buttons

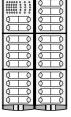


Examples of compositions in intercom systems

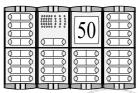
34 call buttons



40 call buttons



44 call buttons



buttons

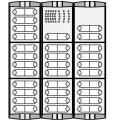
50 call buttons



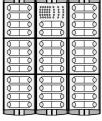
56 call buttons



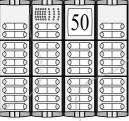
60 call buttons



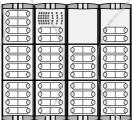
62 call buttons



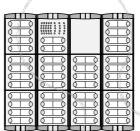
68 call buttons



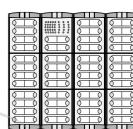
76 call buttons



80 call buttons



84 call buttons



92 call buttons

Composition board of Profilo push-button panels.

	\				\		
N° calls	Dimensions	Door speaker module (amplifier)	Buttor	n, blank or info modules (*		Back box and module frame (**)	Rain shelters
2	100x142x19	1 PL122P	-	-	-	1 PL71	1 PL91
4	$(3^{15}/_{16}" \times 5^{9}/_{16}" \times 3^{3}/_{4}")$	1 PL124P	-	- ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	and a second	1 PL71	1 PL91
8	100x253,5x19	1 PL10P	1 PL228	-/	-	1 PL72	1 PL92
12	$(3^{15}/_{16}" \times 10" \times ^{3}/_{4}")$	1 PL124P	1 PL228	-/	-	1 PL72	1 PL92
16	100x365x19	1 PL10P	2 PL228		-	1 PL73	1 PL93
20	$(3^{15}/_{16}" \times 14^{3}/_{8}" \times 3^{3}/_{4}")$	1 PL124P	2 PL228	-	-	1 PL73	1 PL93
22	200x253,5x19	1 PL122P	2 PL228	1 PL224	San and	2 PL72	1 PL94
28	$(7^{7}/_{8}" \times 10" \times ^{3}/_{4}")$	1 PL124P	3 PL228	/-	-	2 PL72	1 PL94
34		1 PL122P	4 PL228	/ -	1 PL20	2 PL73	1 PL96
40	200x365x19 (7 ⁷ / ₈ " x 14 ³ / ₈ " x ³ / ₄ ")	1 PL124P	4 PL228	1 PL224	-	2 PL73	1 PL96
44		1 PL124P	5 PL228	-	-	2 PL73	1 PL96
50	400.050.5.40	1 PL122P	6 PL228		1 PL20	4 PL72	-
56	400x253,5x19 (15 ³/₄" x 10" x ³/₄")	1 PL10P	7 PL228	-	-	4 PL72	-
60		1 PL124P	7 PL228	-	-	4 PL72	-
62	300x365x19	1 PL122P	7 PL228	1 PL224		3 PL73	1 PL99
68	$(11^{13}/_{16}" \times 14^{3}/_{8}" \times 3^{4}/_{4}")$	1 PL124P	8 PL228	-	-	3 PL73	1 PL99
76		1 PL124P	8 PL228	2 PL224	1 PL20	4 PL73	-
80	400x365x19	1 PL124P	9 PL228	1 PL224	1 PL20	4 PL73	-
84	$(15^{3}/_{4}" \times 14^{3}/_{8}" \times {}^{3}/_{4}")$	1 PL124P	10 PL228	-	1 PL20	4 PL73	-
92		1 PL124P	11 PL228	-	-	4 PL73	-

^(**) If requested the hood covers can be added (see on page 113)

(*) or PL50





46 call buttons

34 call buttons

1 ROW PUSH BUTTON PANELS Examples of compositions in videointercom systems 00000 50 1 call button 00000 2 call 4 call 6 call 8 call 10 call 11 call buttons 14 call buttons 17 call buttons 20 call buttons buttons buttons buttons buttons buttons 00000 22 call buttons 25 call buttons 28 call buttons 30 call buttons 31 call buttons

40 call buttons

Composition board of Profilo push-button panels.

42 call buttons

	1	/ \		/	\ .	. / .	
N° calls	Dimensions	Modules camera with door speaker	Button	n, blank or info modules (*)	76.	Back box and module frame (**)	Rain shelters
1	100x142x19	1 PL41P	-	-	- Taranton Maria	1 PL71	1 PL91
2	$(3^{15}/_{16}" \times 5^{9}/_{16}" \times 3^{4}/_{4}")$	1 PL42P	-	-	_	1 PL71	1 PL91
4	100x253,5x19	1 PL40P	1 PL24	- /	-	1 PL72	1 PL92
6	$(3^{15}/_{16}" \times 10" \times 3/_{4}")$	1 PL42P	1 PL24	-/	-	1 PL72	1 PL92
8	100x365x19	1 PL40P	2 PL24		-	1 PL73	1 PL93
10	$(3^{15}/_{16}" \times 14^{3}/_{8}" \times {}^{3}/_{4}")$	1 PL42P	2 PL24	-	-	1 PL73	1 PL93
11	200x253,5x19	1 PL41P	2 PL24	1 PL22		2 PL72	1 PL94
14	$(7^{7}/_{8}" \times 10" \times {}^{3}/_{4}")$	1 PL42P	3 PL24	/-	-	2 PL72	1 PL94
17		1 PL41P	4 PL24	/ -	1 PL20	2 PL73	1 PL96
20	200x365x19 (7 ⁷ / ₈ " x 14 ³ / ₈ " x ³ / ₄ ")	1 PL42P	4 PL24	1 PL22	-	2 PL73	1 PL96
22	, , ,	1 PL42P	5 PL24	-	-	2 PL73	1 PL96
25		1 PL41P	6 PL24		1 PL20	4 PL72	-
28	400x253,5x19 (15 ³/₄" x 10" x ³/₄")	1 PL40P	7 PL24	-	-	4 PL72	-
30		1 PL42P	7 PL24	-	-	4 PL72	-
31	300x365x19	1 PL41P	7 PL24	1 PL22		3 PL73	1 PL99
34	$(11^{13}/_{16}" \times 14^{3}/_{8}" \times {}^{3}/_{4}")$	1 PL42P	8 PL24	-	-	3 PL73	1 PL99
38		1 PL42P	8 PL24	2 PL22	1 PL20	4 PL73	-
40	400x365x19	1 PL42P	9 PL24	1 PL22	1 PL20	4 PL73	-
42	$(15^{3}/_{4}" \times 14^{3}/_{8}" \times {}^{3}/_{4}")$	1 PL42P	10 PL24	-	1 PL20	4 PL73	-
46		1 PL42P	11 PL24	-	-	4 PL73	-

^(**) If requested the hood covers can be added (see on page 113)

38 call buttons

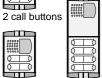
(*) or PL50





2 ROW PUSH BUTTON PANELS

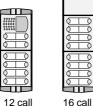




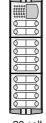




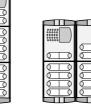
8 call buttons



buttons buttons



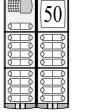
20 call buttons



22 call buttons

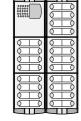


28 call buttons

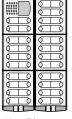


34 call buttons

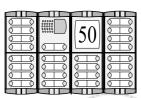
Examples of compositions in videointercom systems



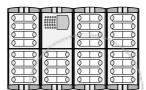
40 call buttons



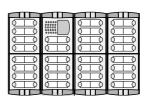




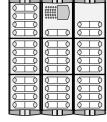
50 call buttons



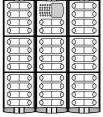
56 call buttons



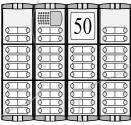
60 call buttons



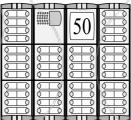
62 call buttons



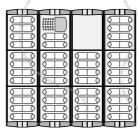
68 call buttons



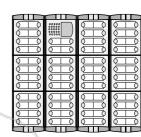
76 call buttons



80 call buttons



84 call buttons



92 call buttons

Composition board of Profilo push-button panels.

	\.	/		-/-	\\		
N° calls	Dimensions	Modules camera with door speaker	Buttor	n, blank or info modules (*	W	Back box and module frame (**)	Rain shelters
2	100x142x19	1 PL422P	-	-	-	1 PL71	1 PL91
4	$(3^{15}/_{16}" \times 5^{9}/_{16}" \times 3^{4}")$	1 PL424P	-	- ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	A STATE OF THE PARTY OF THE PAR	1 PL71	1 PL91
8	100x253,5x19	1 PL40P	1 PL228	-/	-	1 PL72	1 PL92
12	$(3^{15}/_{16}" \times 10" \times^{3}/_{4}")$	1 PL424P	1 PL228	-/	-	1 PL72	1 PL92
16	100x365x19	1 PL40P	2 PL228		-	1 PL73	1 PL93
20	$(3^{15}/_{16}" \times 14^{3}/_{8}" \times 3^{3}/_{4}")$	1 PL424P	2 PL228	-	-	1 PL73	1 PL93
22	200x253.5x19	1 PL422P	2 PL228	1 PL224		2 PL72	1 PL94
28	$(7^{7}/_{8}" \times 10" \times ^{3}/_{4}")$	1 PL424P	3 PL228	/ -	-	2 PL72	1 PL94
34		1 PL422P	4 PL228	/ -	1 PL20	2 PL73	1 PL96
40	200x365x19 (7 ⁷ / ₈ " x 14 ³ / ₈ " x ³ / ₄ ")	1 PL424P	5 PL228	-	-	2 PL73	1 PL96
44	(1 /8 X 1 1 /8 X /4 /	1 PL424P	5 PL228	-	-	2 PL73	1 PL96
50		1 PL422P	6 PL228		1 PL20	4 PL72	-
56	400x253,5x19 (15 ³/₄" x 10" x ³/₄")	1 PL40P	7 PL228	-	-	4 PL72	-
60		1 PL424P	7 PL228	-	-	4 PL72	-
62	300x365x19	1 PL422P	7 PL228	1 PL224		3 PL73	1 PL99
68	$(11^{13}/_{16}" \times 14^{3}/_{8}" \times {}^{3}/_{4}")$	1 PL424P	8 PL228	-	-	3 PL73	1 PL99
76		1 PL424P	8 PL228	2 PL224	1 PL20	4 PL73	-
80	400x365x19	1 PL40P	10 PL228	-	1 PL20	4 PL73	-
84	$(15\sqrt[3]{4}$ " x $14\sqrt[3]{8}$ " x $3\sqrt[4]{4}$ ")	1 PL424P	10 PL228	-	1 PL20	4 PL73	-
92		1 PL424P	11 PL228	-	-	4 PL73	-

^(**) If requested the hood covers can be added (see on page 113)

(*) or PL50





374 14 ³/₄"

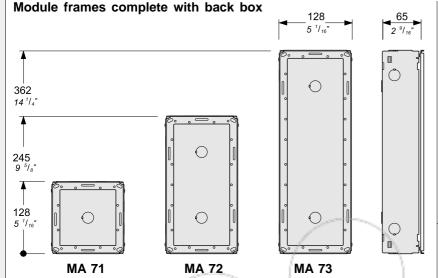
256 10 ¹/₁₆"

140 5 1/2

MA 61

MAS 61





Stainless steel anti-vandalism push-button panels especially studied to withstand burglary, penetration of solids and water jets (IP 45 protection degree against the penetration of external solids and water; IK09 against shocks).

The Matrix push-button panels include back boxes, module frames, die-cast aluminium decorative frames, button modules, and modules with built-in speaker unit (with or without camera).

The careful selection of modules allows for multiple application opportunities; from one-way installations to blocks of flats; from intercom to video intercom installations.

The push-button elements have been developed to allow both for horizontal and vertical configuration.

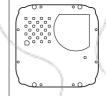


Notice! To maintain the brilliance of door station plates, periodic cleaning with specific products for stainless steel is required.



MA 63

MAS 63

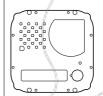


MAS42

without call buttons and with B/W camera

MAS42C

without call buttons and with colour camera



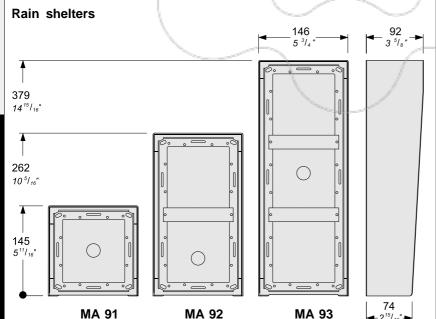
MAS43

with 1 call button and B/W camera

MAS43C

with 1 call button and colour camera

For specifications see page 123.



MA 62

MAS 62

Push-button modules



MAS20.

Blank module in stainless steel.

MAS22.

Module with 2 call buttons and name plate panel with breakproof transparent screen and green LED backlight.



]()]()

MAS24.

With 4 call buttons.

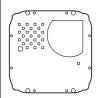


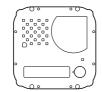


EXTERNAL DOOR STATIONS

PUSH-BUTTONS MATRIX series

Video modules with integrated door | Modules with integrated door speaker speaker





MAS42.

Modules complete with:

- CCD camera with autoiris, fixed 3.6mm lens and 6 infrared LED's.
- amplified speaker unit with volume adjustment of 2 channels (reception and transmission)
- steel front plate with breakproof transparent screen
- red operation LED
- horizontal and vertical adjustments

MAS42C.

Colour version of model MA S42.

Same as MA 42, with call button and name plate panel with breakproof transparent screen and green LED backlighting.

MAS43C.

Colour version of model MA S43.







MAS10P. Amplified speaker unit with volume adjustment of 2 channels (reception and transmission), steel front plate and red operation LED.

MAS11P. Same as MAS10P, with call button and name plate panel with breakproof transparent screen and green LED backlight.

MAS12P. With 2 call buttons.

Technical data	MA42-MA43	MA42C-MA43C
Powersupply	21±3Vdc	21±3Vdc
Operating current	0.3A	0.4A
Video signal output	1Vpp on 75 Ω	1Vpp on 75Ω
Video signal standard	CCIR	PAL
Minimum illumination	2 Lux	2.5 Lux
White balance	- The state of the	auto
Sensor	CCD 1/4" B/W	CCD 1/3" colour
Number of pixels	291,000	291,000
Horizontal frequency	15,625Hz	15,625Hz
Vertical frequency	50Hz	50Hz
Lens	3.6mm; F5	4mm; F4
Focus	0.1m ÷ ∞	0.6m ÷ ∞
Autoiris	electronic	electronic
Horizontal adjustment	± 15°	± 15°
Vertical adjustment	± 15°	± 15°
Operating temperature	-10°÷+40°C	-10°÷+40°C
Max. permissible humidity	80%RH	80%RH

Technical characteristics of MATRIX modules terminal boards

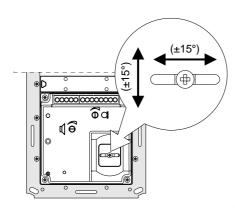
MAS10P	MAS11P	MAS12P	MAS20	MAS22	MAS24	MAS42	MAS4	3
						MAS42C	MAS4	3C
1	1	1	The state of the s		-	1	1	Reception audio line
2	2	2			1	2	2	Transmission audio line
3	3	3			-	3	3	Power supply input for electric door speaker (6÷12Vdc)
4	4	4				4	4	Audio ground
-	-	-	-	-	-	-	-	Alternated power supply input or ground for name-plate Led
A	Α	Α	Α	Α	Α	Α	Α	AC or DC power supply input for name-plate Led (12Vac-dc)
	С	С		С	С		С	Call push-buttons common
	P1	P1		P1	P1		P1	Call push-button
		P2		P2	P2			Call push-button
					P3			Call push-button
					P4			Call push-button
						٧	٧	Video signal output (coaxial cable)
						М	М	Video ground (coaxial shield)
						Н	Н	Positive voltage input for camera (18÷24Vdc)
L-	L-	L-				L-	L-	Alternated power supply input or ground for service Led
L+	L+	L+				L+	L+	AC or DC power supply input for service Led (12Vac-dc)





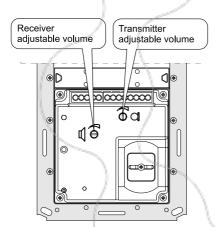
Adjustments

You can manually change the camera framing by unloosening and adjusting the horizontal and vertical screws in the desired direction.

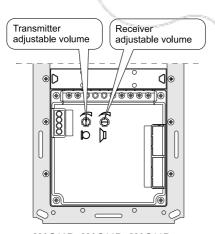


Audio adjustments

If necessary, it is possible to adjust the volume of the 2 audio channels opportunely varying the external knobs.

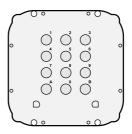


MAS42 MAS42C MAS43 MAS43C



MAS10P MAS11P MAS12P

ACCESS CONTROL KEYPAD



FC 52MAS. Electronic keypad with 12 keys and 2 relays for lock release and access control of door stations. 12 programmable access codes for each relay. Programmable door opening time from 1 up 99 sec. for each relay (or bistable operation of relay). Acoustic and visual confirmation for entered keys, accepted programming and for wrong codes.

Technical data

Power supply: 12Vac/dc ±10%

Stand-by current: 0.02A

Max. current consumption: 0.1A

Contact ratings: 12Vac - 2A

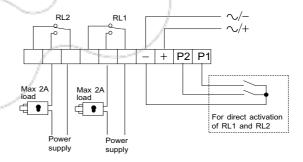
Numbers of codes for relay 1: 12 + direct activation

Numbers of codes for relay 2: 12 + direct activation
Activation time for each relay: from 1 to 99 seconds (or bistable)

Operating temperature: $0^{\circ} \div +40^{\circ}\text{C}$ Maximum permissible humidity: 85% RH Degree of protection IP 45

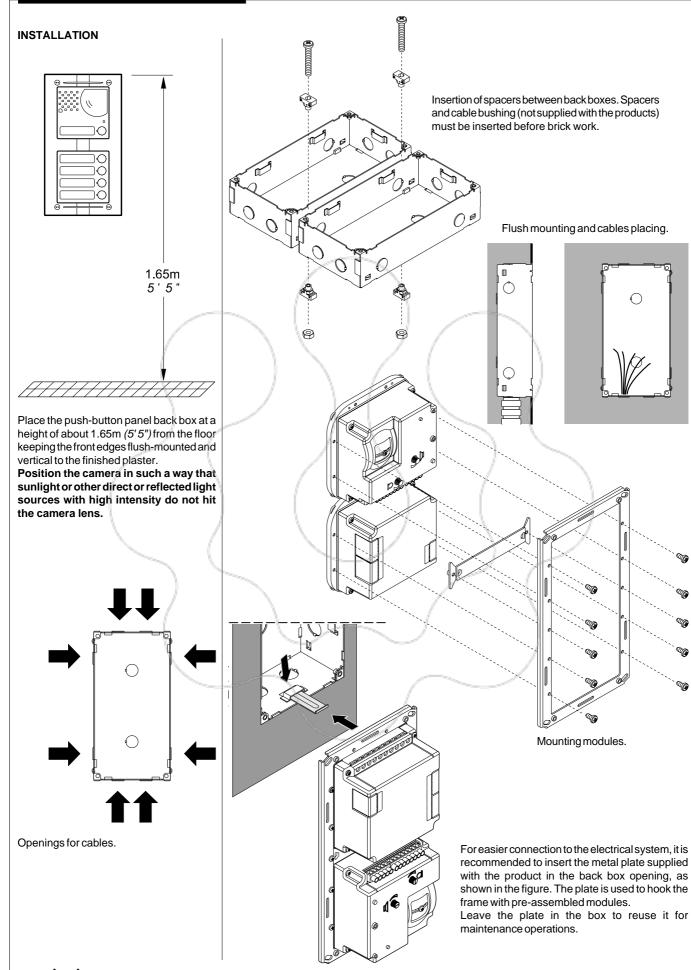
Terminals

- normally closed contact of relay 2
- 2 do normally open contact of relay 2
 - common contact of relay 2
 - normally closed contact of relay 1
- 1 ommon contact of relay 1 common contact of relay 1
- ground or alternating voltage input
- + positive or alternating voltage input
- P2 activation of the relay 2; if momentarily connected to ground it allows the activation for the programmed time
- P1 activation of the relay 1; if momentarily connected to ground it allows the activation for the programmed time



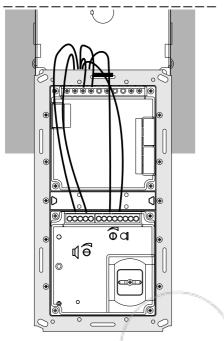




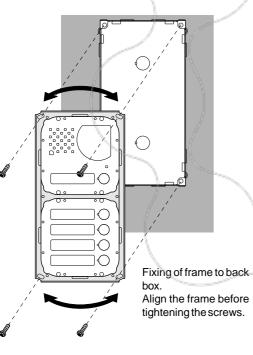


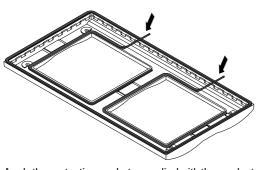




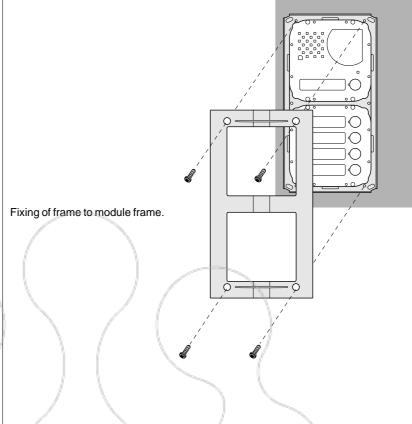


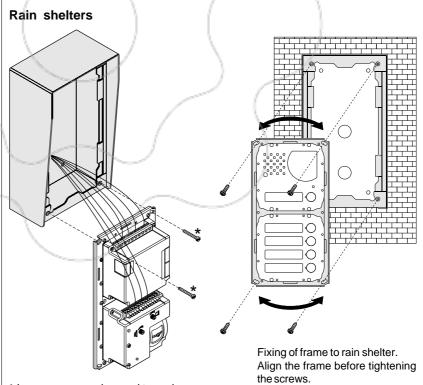
Connection of wires to module terminal boxes.





Apply the protection gaskets supplied with the product on the internal part of the frame openings.







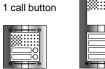


modules.

Long screws can be used to anchor the frame during wire connection tp

Examples of compositions in intercom systems





2 call 4 call buttons buttons



6 call

buttons





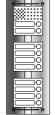
6 call buttons



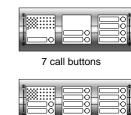
8 call buttons



9 call buttons



10 call buttons



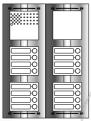
10 call buttons



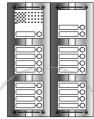
12 call buttons



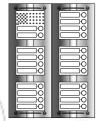
14 call buttons



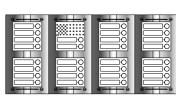
16 call buttons



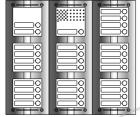
19 call buttons



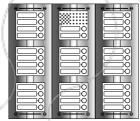
22 call buttons



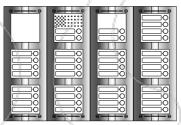
30 call buttons



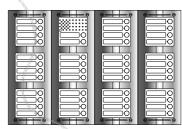
31 call buttons



34 call buttons



40 call buttons



46 call buttons

Composition board of Matrix push-button panels.

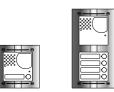
	\	/ \		•/			
N° calls	Dimensions	Module with door speaker		on and nodules	Front frame	Back box and module frame	Rain shelter (*)
1	140x140x19	1 MAS11P	-	-	1 MAS61	1 MA71	1 MA91
2	$(5^{1}/_{2}" \times 5^{1}/_{2}" \times {}^{3}/_{4}")$	1 MAS12P	-	-	1 MAS61	1 MA71	1 MA91
3	/	1 MAS11P	1 MAS22	- /	1 MAS62	1 MA72	1 MA92
4	140x256x19 (5 ½" x 10 ½" x 3½")	1 MAS10P	1 MAS24	-/	1 MAS62	1 MA72	1 MA92
6	, 2 10 47	1 MAS12P	1 MAS24	North Comment of the	1 MAS62	1 MA72	1 MA92
8		1 MAS10P	2 MAS24	-	1 MAS63	1 MA73	1 MA93
9	140x374x19 (5 ½" x 14³¼" x ³¼")	1 MAS11P	2 MAS24		1 MAS63	1 MA73	1 MA93
10		1 MAS12P	2 MAS24	/ -	1 MAS63	1 MA73	1 MA93
12	280x256x19	1 MAS12P	2 MAS24	1 MAS22	2 MAS62	2 MA72	-
14	$(11" \times 10^{1}/_{16}" \times {}^{3}/_{4}")$	1 MAS12P	3 MAS24		2 MAS62	2 MA72	-
16		1 MAS10P	4 MAS24	-	2 MAS63	2 MA73	-
19	280x374x19 (11" x 14³/," x ³/,")	1 MAS11P	4 MAS24	1 MAS22	2 MAS63	2 MA73	-
22	* **	1 MAS12P	5 MAS24	-	2 MAS63	2 MA73	-
27	560x256x19	1 MAS11P	6 MAS24	1 MAS22	4 MAS62	4 MA72	-
30	$(22^{1}/_{16}" \times 10^{1}/_{16}" \times {}^{3}/_{4}")$	1 MAS12P	7 MAS24	-	4 MAS62	4 MA72	-
31	420x374x19	1 MAS11P	7 MAS24	1 MAS22	3 MAS63	3 MA73	-
34	$(16^{9}/_{16}" \times 14^{3}/_{4}" \times 3^{4}/_{4}")$	1 MAS12P	8 MAS24	-	3 MAS63	3 MA73	-
38		1 MAS10P	8 MAS24	3 MAS22	4 MAS63	4 MA73	-
40	560x374x19	1 MAS10P	9 MAS24	2 MAS22	4 MAS63	4 MA73	-
43	$(22^{1}/_{16}" \times 14^{3}/_{4}" \times {}^{3}/_{4}")$	1 MAS11P	10 MAS24	1 MAS22	4 MAS63	4 MA73	-
46		1 MAS12P	11 MAS24	-	4 MAS63	4 MA73	-

(*) Rain shelters are used in replacement of back boxes



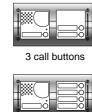


Examples of compositions in video intercom systems



1 call button





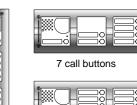
5 call buttons

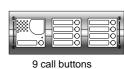






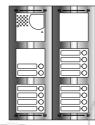
buttons

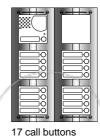


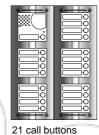


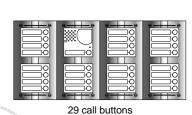


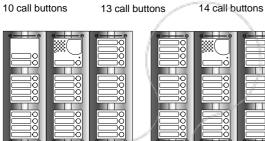
buttons

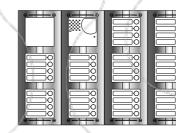


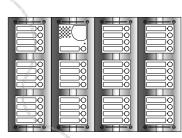












31 call buttons

33 call buttons

40 call buttons

45 call buttons

Composition board of Matrix push-button panels.

N° calls	Dimensions	Camera and door speaker module	Button and blank modules	Front frame	Back box and module frame	Rain shelter (*)
1	140x140x19	1 MAS43		1 MAS61	1 MA71	1 MA91
2	$(5^{1}/_{2}" \times 5^{1}/_{2}" \times 3^{3}/_{4}")$	1 MAS42	1 MAS22	1 MAS62	1 MA72	1 MA92
4	140x256x19 (5 ½" x 10 ½" x 3½")	1 MAS42	1 MAS24	1 MAS62	1 MA72	1 MA92
5	1 0 1	1 MAS43	1 MAS24	1 MAS62	1 MA72	1 MA92
6		1 MAS42	1 MAS24 1 MAS22 -	1 MAS63	1 MA73	1 MA93
7	140x374x19	1 MAS43	1 MAS24 1 MAS22 -	1 MAS63	1 MA73	1 MA93
8	$(5^{1}/_{2}" \times 14^{3}/_{4}" \times 3^{3}/_{4}")$	1 MAS42	2 MAS24 -	1 MAS63	1 MA73	1 MA93
9		1 MAS43	2 MAS24	1 MAS63	1 MA73	1 MA93
10	280x256x19	1 MAS42	2 MAS24 1 MAS22 -	2 MAS62	2 MA72	-
13	$(11" \times 10^{1}/_{16}" \times 3^{3}/_{4}")$	1 MAS43	3 MAS24	2 MAS62	2 MA72	-
14	000 074 40	1 MAS42	3 MAS24 1 MAS22 1 MAS20	2 MAS63	2 MA73	-
17	280x374x19 (11" x 14³/₄" x ³/₄")	1 MAS43	4 MAS24 - 1 MAS20	2 MAS63	2 MA73	-
21		1 MAS43	5 MAS24	2 MAS63	2 MA73	-
27	560x256x19	1 MAS43	6 MAS24 1 MAS22 -	4 MAS62	4 MA72	-
29	$(22^{1}/_{16}" \times 10^{1}/_{16}" \times 3^{3}/_{4}")$	1 MAS43	7 MAS24	4 MAS62	4 MA72	-
31	420x374x19	1 MAS43	7 MAS24 1 MAS22 -	3 MAS63	3 MA73	-
33	$(16.9^{\prime}/_{16}" \times 14.3^{\prime}/_{4}" \times 3^{\prime}/_{4}")$	1 MAS43	8 MAS24	3 MAS63	3 MA73	-
38		1 MAS42	9 MAS24 1 MAS22 1 MAS20	4 MAS63	4 MA73	-
40	560x374x19	1 MAS42	10 MAS24 - 1 MAS20	4 MAS63	4 MA73	-
43	$(22^{1/_{16}} \times 14^{3/_{4}} \times 3^{4/_{4}})$	1 MAS43	10 MAS24 1 MAS22 -	4 MAS63	4 MA73	-
45		1 MAS43	11 MAS24	4 MAS63	4 MA73	-

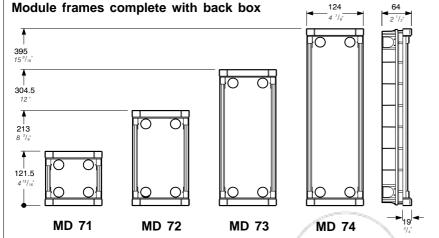
(*) Rain shelters are used in replacement of back boxes





4+1 INTERCOMS

PUSH-BUTTONS

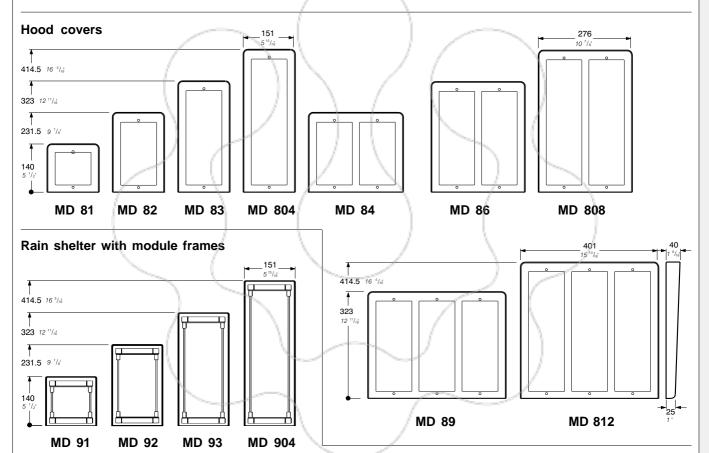


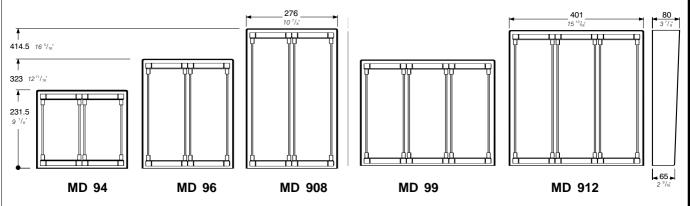
Push-button panels in extruded aluminium made up of modular elements. Suitable for the most diverse installation requirements.

MD71.72.73.74. Plastic back boxes complete with module frames.

MD81.82.83.804.84.86.808.89.812. Aluminium hood covers. To be added to MD71.72.73.74 back boxes.

MD91.92.93.904.94.96.908.99.912. Anodized aluminium rain shelters with module frames. Used for wall mounting.









EXTERNAL DOOR STATIONS

PUSH-BUTTONS MODY series

1 row push-button modules

Modules for electric door speaker (amplifier)





MD 10 without buttons

MD 11 1 call button

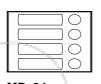
MD 12 2 call buttons

Button modules









MD 21 1 call button

MD 22 2 call buttons

MD 23 3 call buttons

MD 24 4 call buttons

2 row push-button modules

Modules for electric door speaker (amplifier)





MD 122 2 call buttons

MD 124 4 call buttons

Button modules











MD 222 2 call buttons

MD 224 4 call buttons

MD 226 6 call buttons

MD 228 8 call buttons

Modules: blank, number, amplified door stations, access control and cameras









MD20 blank module

MD50 number module

MD 100 Amplified door station with 1 call button (see page 132)

MD 200 Amplified door station with 2 call buttons (see page 132)





FC52P. Keypad

module for access

control (see char-

acteristics on page

132).

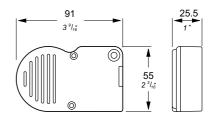


FP52. Proximity reader for access control (see characteristics on page



MD41. MD41D. Black and white cameras. MD41C. Colour cameras (see characteristics on page 131).

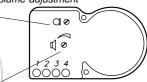
ELECTRIC DOOR SPEAKER



MD 30.

It consists of a double amplifier (receiver and transmitter) with adjustable volume of 2 channels. Also fittable to Prestige and ErreP/R series push-button panels (for ErreP/R door stations by means of 299/1 adapter).

Transmitting volume adjustment

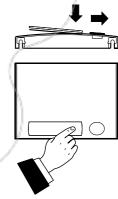


Receiving volume adjustment

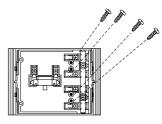
Terminals

- 1 audio receiver
- 2 audio transmitter
- 3 positive power supply 6 ÷ 8Vdc 60mA
- ground

Dismounting and protection of name labels



Dismounting of name holder to insert name



In any button module, in order to avoid the dismounting of name holder, insert a 3MAx12 screw in the holes shown in the picture for each name plate to be blocked. Screws are not supplied by the manufacturer.





CAMERAS

For the realisation of video intercom systems you must select the camera according to the type of installation:

- Video intercom system with coaxial cable
- Video intercom system with twisted pair

For system with coaxial cable MD41.

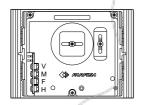
B/W adjustable camera complete with:

- -solid-state sensor (CCD), electronic autoiris, 3.6mm fixed optics and 6 infrared LEDs;
- front plate of anodized aluminium with breakproof transparent screen;
- horizontal and vertical adjustment.

MD41C Color.

Colour adjustable camera complete with:

- solid-state sensor (CCD), autoiris and 4mm fixed optics;
- -front plate of anodized aluminium with breakproof transparent screen;
- horizontal and vertical adjustment.



Terminals

- V Video signal output
- M Ground
- F Not connected

Tochnical data

H Power supply input

For system with twisted pair MD41D.

B/W adjustable camera complete with:

- solid-state sensor (CCD), electronic autoiris, 3.6mm fixed optics and 6 infrared LEDs;
- front plate of anodized aluminium with breakproof transparent screen;
- horizontal and vertical adjustment.



Terminals

- Y Positive video signal output
- Ground
- X Negative video signal output
- H Power supply input

Note

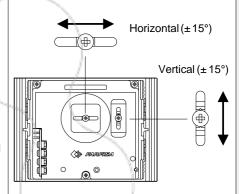
For colour installations use the video signal converter **CV01** (see page 150).

Adjustments

If necessary, you can manually modify the camera position by means of the horizontal and vertical adjustments located on the back of the camera.

To do this, you must:

- remove the upper screw of the push-button panel to access the back of the camera;
- loosen the screw of the horizontal or vertical adjustment (or both screws, if you want to adjust the image in all the directions);
- move the camera in the desired direction;
- tighten the screw to block the camera in the desired position;
- fix the push-button panel.



rechnical data	MID41	MD41C	MD41D
Powersupply	21±3Vdc	21±3Vdc	15÷21Vdc
Operating current	0.3A	0.4A	0.3A
Video signal output	1Vpp on 75Ω	1Vpp on 75Ω	1Vpp balanced
Video signal standard	CCIR	PAL	CCIR
Minimum illumination	2 Lux	2.5 Lux	2 Lux
White balance		auto	- /
Sensor	CCD 1/4" B/W	CCD 1/3" colour	CCD 1/4" B/W
Number of pixels	291000	291000	291000
Horizontalfrequency	15625Hz	15625Hz	15625Hz
Vertical frequency	50Hz	50Hz	50Hz
Lens	3.6mm; F5	4mm; F4	3.6mm; F5
Focus	0.1m ÷ ∞	0.6m ÷ ∞	0.1m ÷ ∞
Autoiris	electronic	electronic	electronic
Horizontal adjustment	± 15°	± 15°	± 15°
Vertical adjustment	± 15°	± 15°	± 15°
Operating temperature	-10°÷+40°C	-10°÷+40°C	-10°÷+40°C
Max. permissible humidity	80%RH	80%RH	80%RH

Note

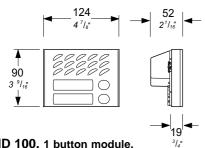
MD40, **MD40C** and **MD40D** cameras have the same specifications as models MD41, MD41C and MD41D, except that they have not horizontal and vertical adjustment.





PUSH-BUTTONS MODY series

AMPLIFIED DOOR STATIONS



MD 100. 1 button module.

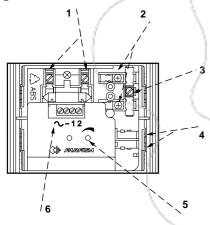
Be used in all intercom, telephone, intercommunicating and video intercom systems.

Complete with electric door speaker amplified in the two channels, receiving adjustable volume, call button and anodized aluminium front plate. It can replace the MD11 and MD30 module and use all the other accessories of the Mody series.

MD 200. 2 buttons module.

Terminals

- ground
- supply 13Vac/ 12-21Vdc-60mA
- audio receiver
- audio transmitter
- С call push-buttons common
- call push-buttons
- name-plate lamp (24V-70mA)

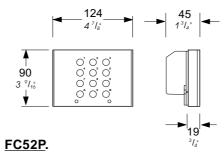


- 1 Lamp terminals
- 2 Push-button terminal board
- 3 Common contact of call push-buttons
- Terminals on stair light push-button
- External volume adjustment
- 6 Terminal board for connection to the system

Installation diagrams

For the installation of the MD100 and MD200 modules see the installation diagrams for systems with one entrance.

ACCESS CONTROL KEYPAD



Access control keypad with 12 digits and 2 relays for lock release. 4 programmable access codes for each relay. Programmable door opening time from 1 up 99 sec. for each relay (or bistable operation of relay 1). Acoustic and visual confirmation for entered keys, accepted programming and for wrong codes.

Technical data

12Vac/dc±10% Power supply: Stand-by current: 0.015A Maximum current consumption: 0.1A Contact ratings: 12Vac-5A.

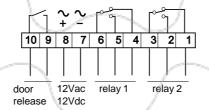
Numbers of codes for relays 1: Numbers of codes for relays 2: 4 or direct activation

Activation time for each relay: from 1 to 99sec. (or bistable relay 1)

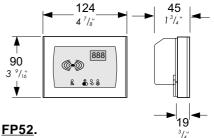
0° ÷ +40°C Operating temperature: Maximum permissible humidity: 85% RH

Terminals

- normally closed contact of relay 2
- normally open contact of relay 2
- common contact of relay 2
- normally closed contact of relay 1
- normally open contact of relay 1
- 6 common contact of relay 1
- ground or alternate voltage input
- positive or alternate voltage input
- 9-10 connection to optional door lock release



PROXIMITY READER FOR ACCESS CONTROL



This article allows for the activation of 2 relays by means of keytags or electronic ISO cards based on transponder technology.

Programmable activation time from 1 to 63 seconds for every relay. 4 user cards and 1 master card supplied with the product. Acoustic and visual control signals and 3-digit display to view numbers and codes during set-up and operation.

Technical data

Power supply	12Vac/dc ±10%
Stand-by current	0.1A
Maximum current consumption	0.25A
Contact ratings	24Vac - 2A
Max. number of cards	490
Max. number of Master cards	10
Number of relays	2
Relay time	1 to 63 sec.
Minimum recognition distance	3 cm
Maximum recognition time	1 sec.
Operating temperature	0° ÷ +40°C
Maximum permitted humidity	85% RH

Terminals

+/A positive or alternate current input ground or alternate current input

door open button

NC2 normally closed contact of relay 2 NA2 normally open contact of relay 2 common terminal of relay 2

NC1 normally closed contact of relay 1 NA1 normally open contact of relay 1

common terminal of relay 1

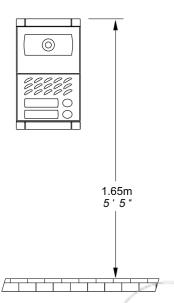


- Card recognition LED. It turns ON during card recognition.
- Relay activation LED. It indicates relay deactivation (red) or activation (green).
- Program LED. It turns ON during system programming.
- Card cancellation and system setup LED. It turns ON during Master or user card cancellation and system setup.



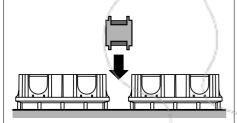


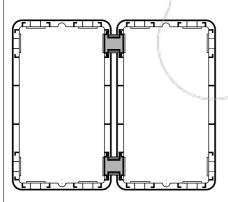
PUSH-BUTTONS MODY series



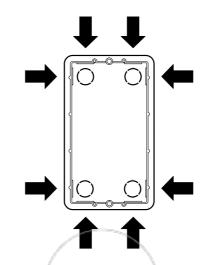
Place the push-button panel back box at a height of about 1.65m from the floor keeping the front edges flush-mounted and vertical to the finished plaster.

Position the camera in such a way that sunlight or other direct or reflected light sources with high intensity do not hit the camera lens.

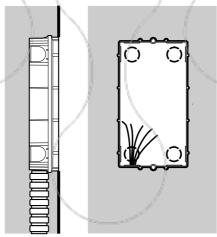




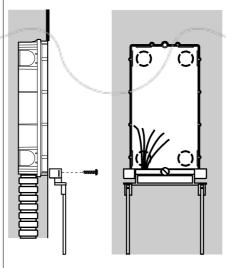
Insertion of cable bush between back boxes. The cable bushes must be inserted before brickwork.



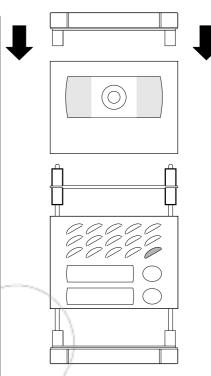
Openings for cables.



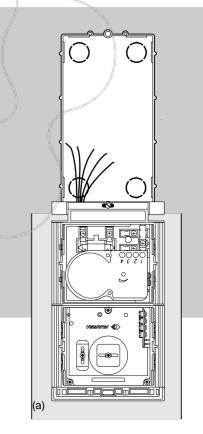
Flush mounting and cables placing.



Lower fixing of the module frame.



Mounting of button module.



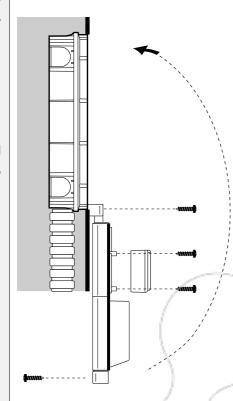
Lower fixing of the module frame on back box. It is advised to insert a protection (a) between panel and wall while fixing.



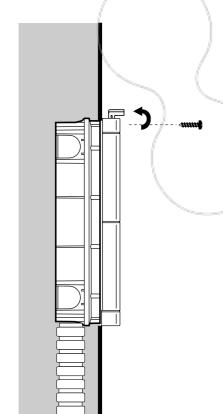


EXTERNAL DOOR STATIONS

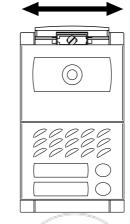
PUSH-BUTTONS MODY series



Mounting of frame bottom and door speaker (amplifier).

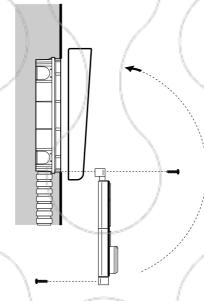


Top fixing of the panel.

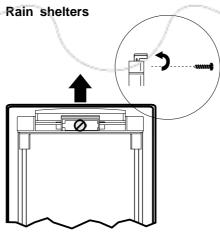


Alignment of the panel.

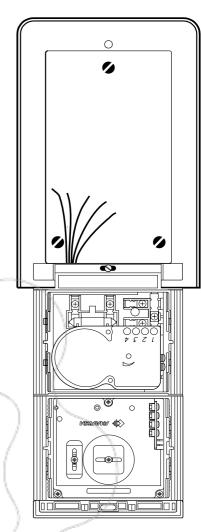




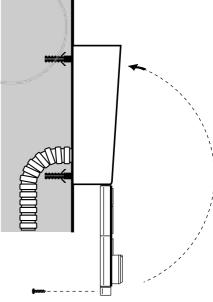
Fixing of the hood cover between the back box and the module frame.



Dismounting of the frame top side from the rain shelter.



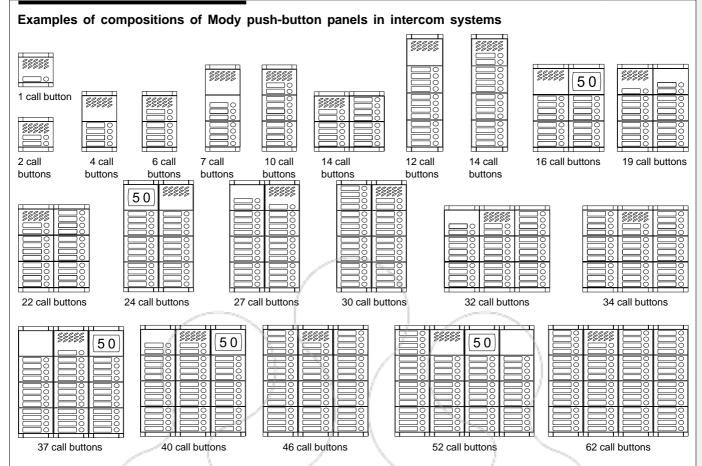
 $Modules\,insertion\,and\,wall\,fixing\,of\,rain\,shelter.$



Mounting of the frame top to the rain shelter.







Composition board of Mody push-button panels.

		- X	//		9.	N.		1	•
N° calls	Dimensions (mm/inches)	Module for speaker	Door speaker (amplifier)		on modules a er or blank mo		Back box and module frame	Hood covers	Rain shelters
1	124x121.5x19	1 MD11	1 MD30	-	7	- /	1 MD71	1 MD81	1 MD91
2	$(4^{7}/_{8}"x 4^{13}/_{16}"x^{3}/_{4}")$	1 MD12	1 MD30	· -	/ -	-	1 MD71	1 MD81	1 MD91
4	124x213x19	1 MD10	1 MD30	1 MD24	-	- ,	1 MD72	1 MD82	1 MD92
6	$(4^{7}/_{8}"x 8^{3}/_{8}"x^{3}/_{4}")$	1 MD12	1 MD30	1 MD24	-	Mark Control	1 MD72	1 MD82	1 MD92
7	124x304.5x19	1 MD10	1 MD30	1 MD24	1 MD23	/ -	1 MD73	1 MD83	1 MD93
10	$(4^{7}/_{8}" \times 12" \times ^{3}/_{4}")$	1 MD12	1 MD30	2 MD24	- /	-	1 MD73	1 MD83	1 MD93
12	248x213x19	1 MD10	1 MD30	3 MD24	~ · /	-	2 MD72	1 MD84 ■	1 MD94 ■
14	$(9^{3}/_{4}" \times 8^{3}/_{8}" \times {}^{3}/_{4}")$	1 MD12	1 MD30	3 MD24	_	-	2 MD72	1 MD84 ■	1 MD94 ■
16		1 MD10	1 MD30	4 MD24	-	1 *	2 MD73	1 MD86	1 MD96
19	248x304.5x19 (9 ³/,"x 12" x ³/,")	1 MD11	1 MD30	4 MD24	1 MD22		2 MD73	1 MD86	1 MD96
22	(0 / ₄ X 12 X / ₄)	1 MD12	1 MD30	5 MD24	-/	-	2 MD73	1 MD86	1 MD96
24		1 MD10	1 MD30	6 MD24	/-	1 *	2 MD74	1 MD808	1 MD908
27	248x395x19 (9 ³/₄" x 15 °/₁₅" x ³/₄")	1 MD11	1 MD30	6 MD24	1 MD22	-	2 MD74	1 MD808	1 MD908
30		1 MD12	1 MD30	7 MD24	-	-	2 MD74	1 MD808	1 MD908
32	372x304.5x19	1 MD12	1 MD30	7 MD24	1 MD22	-	3 MD73	1 MD89	1 MD99
34	(14 ⁵ / ₈ " x 12" x ³ / ₄ ")	1 MD12	1 MD30	8 MD24	-	-	3 MD73	1 MD89	1 MD99
37		1 MD11	1 MD30	9 MD24	-	2 *	3 MD74	1 MD812	1 MD912
40	372x395x19	1 MD12	1 MD30	9 MD24	1 MD22	1 *	3 MD74	1 MD812	1 MD912
42	$(14^{5}/_{8}" \times 15^{9}/_{16}" \times 3/_{4}")$	1 MD12	1 MD30	10 MD24	-	1 *	3 MD74	1 MD812	1 MD912
46		1 MD12	1 MD30	11 MD24	-	-	3 MD74	1 MD812	1 MD912
48		1 MD10	1 MD30	12 MD24	-	3 *	4 MD74	-	-
52	496x395x19	1 MD10	1 MD30	13 MD24	-	2 *	4 MD74	-	-
57	$(19^{1}/_{2}" \times 15^{9}/_{16}" \times 3^{3}/_{4}")$	1 MD11	1 MD30	14 MD24	-	1 *	4 MD74	-	-
62		1 MD12	1 MD30	15 MD24	-	-	4 MD74	-	-

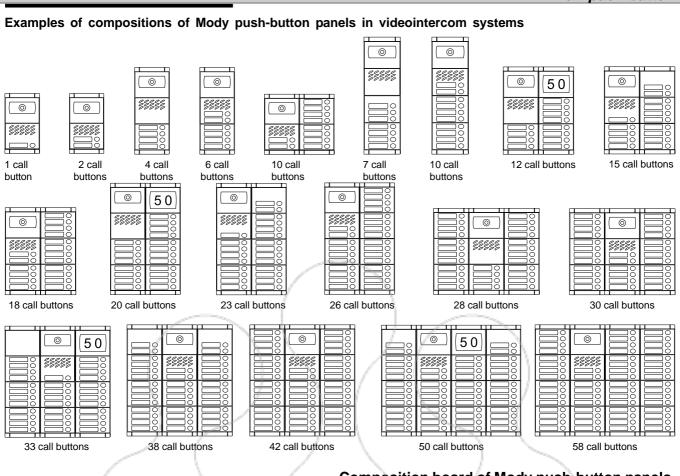
[■] or MD74 or MD804 or MD904

It replaces MD71,72,73,74





^{*} MD20 or MD50 or FC52P



Composition board of Mody push-button panels.

			5			15.				
N° calls	Dimensions (mm / inches)	Camera module	Module for speaker	Door speaker (amplifier)		n modules a or blank mo		Back box and module frame	Hood covers	Rain shelters
1	124x213x19	1 MD41	1 MD11	1 MD30		/ -	-/	1 MD72	1 MD82	1 MD92
2	$(4^{7}/_{8}"x 8^{3}/_{8}"x 3/_{4}")$	1 MD41	1 MD12	1 MD30	- /	-	- 1	1 MD72	1 MD82	1 MD92
4	124x304.5x19	1 MD41	1 MD10	1 MD30	1 MD24	-	- ,	1 MD73	1 MD83	1 MD93
6	$(4^{7}/_{8}" \times 12" \times {}^{3}/_{4}")$	1 MD41	1 MD12	1 MD30	1 MD24		Carle Salar Salar	1 MD73	1 MD83	1 MD93
7	248x213x19	1 MD41	1 MD10	1 MD30	1 MD24	1 MD23	-	2 MD72	1 MD84 ■	1 MD94 ■
10	$(9^{3}/_{4}^{"} \times 8^{3}/_{8}^{"} \times {}^{3}/_{4}^{"})$	1 MD41	1 MD12	1 MD30	2 MD24	1	-	2 MD72	1 MD84 ■	1 MD94 ■
12		1 MD41	1 MD10	1 MD30	3 MD24	J-	1 *	2 MD73	1 MD86	1 MD96
15	248x304.5x19 (9 ³/ ₄ " x 12" x ³/ ₄ ")	1 MD41	1 MD11	1 MD30	3 MD24	1 MD22	-	2 MD73	1 MD86	1 MD96
18	(- ,4=,4 /	1 MD41	1 MD12	1 MD30	4 MD24	-	-	2 MD73	1 MD86	1 MD96
20		1 MD41	1 MD10	1 MD30	5 MD24		1 *	2 MD74	1 MD808	1 MD908
23	248x395x19	1 MD41	1 MD11	1 MD30	5 MD24	1 MD22	-	2 MD74	1 MD808	1 MD908
25	$(9^{3}/_{4}" \times 15^{9}/_{16}" \times {}^{3}/_{4}")$	1 MD41	1 MD11	1 MD30	6 MD24	-	-	2 MD74	1 MD808	1 MD908
26		1 MD41	1 MD12	1 MD30	6 MD24	-	-	2 MD74	1 MD808	1 MD908
28	372x304.5x19	1 MD41	1 MD10	1 MD30	7 MD24	-	-	3 MD73	1 MD89	1 MD99
30	$(14 {}^{5}/_{8}" \times 12" \times {}^{3}/_{4}")$	1 MD41	1 MD12	1 MD30	7 MD24	-	-	3 MD73	1 MD89	1 MD99
33		1 MD41	1 MD11	1 MD30	8 MD24	-	2 *	3 MD74	1 MD812	1 MD912
36		1 MD41	1 MD12	1 MD30	8 MD24	1 MD22	1 *	3 MD74	1 MD812	1 MD912
38	372x395x19 (14 ⁵ / ₈ " x 15 ⁹ / ₁₆ " x ³ / ₄ ")	1 MD41	1 MD12	1 MD30	8 MD24	2 MD22	-	3 MD74	1 MD812	1 MD912
40		1 MD41	1 MD12	1 MD30	9 MD24	1 MD22	-	3 MD74	1 MD812	1 MD912
42		1 MD41	1 MD12	1 MD30	10 MD24	-	-	3 MD74	1 MD812	1 MD912
45		1 MD41	1 MD11	1 MD30	10 MD24	2 MD22	2 *	4 MD74	-	-
50	496x395x19	1 MD41	1 MD12	1 MD30	11 MD24	2 MD22	1 *	4 MD74	-	-
54	$(19^{1}/_{2}" \times 15^{9}/_{16}" \times 3^{3}/_{4}")$	1 MD41	1 MD12	1 MD30	13 MD24	-	1 *	4 MD74	-	-
58	1	1 MD41	1 MD12	1 MD30	14 MD24	-	-	4 MD74	-	-

[■] or MD74 or MD804 or MD904

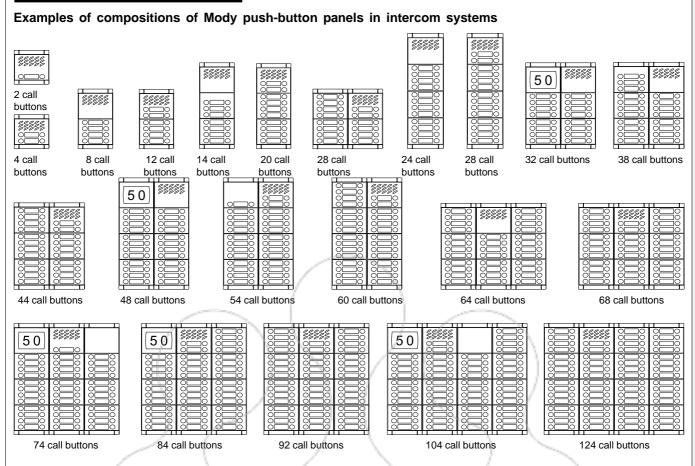
It replaces MD72, 73, 74





^{*} MD20 or MD50 or FC52P

4+1 INTERCOMS



Composition board of Mody push-button panels.

		7.	//		9.	N.		1	•
N° calls	Dimensions (mm / inches)	Module for speaker	Door speaker (amplifier)		on modules a er or blank mo		Back box and module frame	Hood covers	Rain shelters
2	124x121.5x19	1 MD122	1 MD30	-	1	- /	1 MD71	1 MD81	1 MD91
4	$(4^{7}/_{8}"x 4^{13}/_{16}"x {}^{3}/_{4}")$	1 MD124	1 MD30	-	/ -	-	1 MD71	1 MD81	1 MD91
8	124x213x19	1 MD10	1 MD30	1 MD228	-	- ,	1 MD72	1 MD82	1 MD92
12	$(4^{7}/_{8}"x 8^{3}/_{8}"x^{3}/_{4}")$	1 MD124	1 MD30	1 MD228	-	Marie and Control	1 MD72	1 MD82	1 MD92
14	124x304.5x19	1 MD10	1 MD30	1 MD228	1 MD226	-	1 MD73	1 MD83	1 MD93
20	$(4^{7}/_{8}" \times 12" \times {}^{3}/_{4}")$	1 MD124	1 MD30	2 MD228	- /	-	1 MD73	1 MD83	1 MD93
24	248x213x19	1 MD10	1 MD30	3 MD228	~ · /	-	2 MD72	1 MD84 ■	1 MD94 ■
28	$(9^{3}/_{4}" \times 8^{3}/_{8}" \times {}^{3}/_{4}")$	1 MD124	1 MD30	3 MD228	-	-	2 MD72	1 MD84 ■	1 MD94 ■
32		1 MD10	1 MD30	4 MD228	-	1 *	2 MD73	1 MD86	1 MD96
38	248x304.5x19 (9³/,"x 12" x³/,")	1 MD10	1 MD30	4 MD228	1 MD226		2 MD73	1 MD86	1 MD96
44	(0 / ₄ X 12 X / ₄)	1 MD124	1 MD30	5 MD228	-/	-	2 MD73	1 MD86	1 MD96
48		1 MD10	1 MD30	6 MD228	/-	1 *	2 MD74	1 MD808	1 MD908
54	248x395x19 (9 ³/₄" x 15 ⁹ /₁₅" x ³/₄")	1 MD122	1 MD30	6 MD228	1 MD224	-	2 MD74	1 MD808	1 MD908
60	1 10 1	1 MD124	1 MD30	7 MD228	-	-	2 MD74	1 MD808	1 MD908
64	372x304.5x19	1 MD10	1 MD30	8 MD228	-	-	3 MD73	1 MD89	1 MD99
68	$(14 \frac{5}{8} \times 12 \times 3 \frac{3}{4})$	1 MD124	1 MD30	8 MD228	-	-	3 MD73	1 MD89	1 MD99
74		1 MD122	1 MD30	9 MD228	-	2 *	3 MD74	1 MD812	1 MD912
80	372x395x19	1 MD124	1 MD30	9 MD228	1 MD224	1 *	3 MD74	1 MD812	1 MD912
84	$(14^{5}/_{8}" \times 15^{9}/_{16}" \times 3^{3}/_{4}")$	1 MD124	1 MD30	10 MD228	-	1 *	3 MD74	1 MD812	1 MD912
92		1 MD124	1 MD30	11 MD228	-	-	3 MD74	1 MD812	1 MD912
96		1 MD10	1 MD30	12 MD228	-	3 *	4 MD74	-	-
104	496x395x19	1 MD10	1 MD30	13 MD228	-	2 *	4 MD74	-	-
114	$(19^{1}/_{2}" \times 15^{9}/_{16}" \times 3^{3}/_{4}")$	1 MD122	1 MD30	14 MD228	-	1 *	4 MD74	-	-
124		1 MD124	1 MD30	15 MD228	-	-	4 MD74	-	-

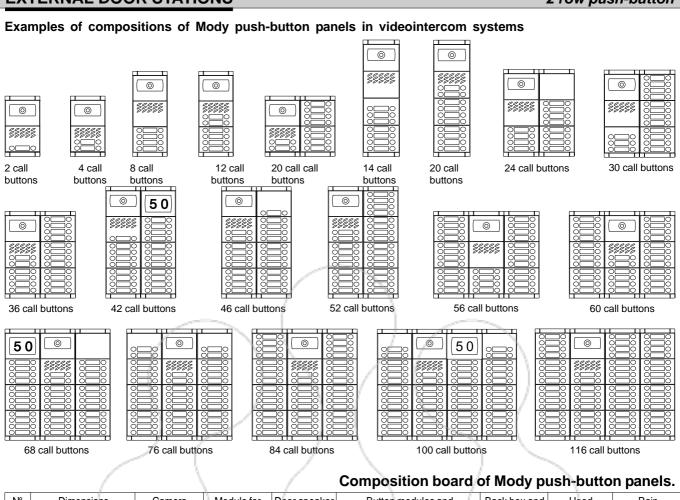
[■] or MD74 or MD804 or MD904

It replaces MD71,72,73,74





^{*} MD20 or MD50 or FC52P



N°	Dimensions	Camera module	Module for speaker	Door speaker (amplifier)	Button modules and number or blank module	Back box and module frame	Hood	Rain shelters
calls	(mm/inches)			· ' '	number of blank module		covers	
2	124x213x19 (4 ⁷ / ₈ "x 8 ³ / ₈ "x ³ / ₄ ")	1 MD41	1 MD122	1 MD30		1 MD72	1 MD82	1 MD92
4	(178 1078 1747	1 MD41	1 MD124	1 MD30		1 MD72	1 MD82	1 MD92
8	124x304.5x19	1 MD41	1 MD10	1 MD30	1 MD228	1 MD73	1 MD83	1 MD93
12	$(4^{7}/_{8}" \times 12" \times {}^{3}/_{4}")$	1 MD41	1 MD124	1 MD30	1 MD228 -	1 MD73	1 MD83	1 MD93
14	248x213x19	1 MD41	1 MD10	1 MD30	1 MD228 1 MD226 -	2 MD72	1 MD84 ■	1 MD94 ■
20	$(9^{3}/_{4}$ " x 8 $^{3}/_{8}$ " x $^{3}/_{4}$ ")	1 MD41	1 MD124	1 MD30	2 MD228	2 MD72	1 MD84 ■	1 MD94 ■
24		1 MD41	1 MD10	1 MD30	3 MD228 - 1 *	2 MD73	1 MD86	1 MD96
30	248x304.5x19 (9 ³/₄" x 12" x ³/₄")	1 MD41	1 MD10	1 MD30	3 MD228 1 MD226 -	2 MD73	1 MD86	1 MD96
36	. 4 4 /	1 MD41	1 MD124	1 MD30	4 MD228	2 MD73	1 MD86	1 MD96
42		1 MD41	1 MD122	1 MD30	5 MD228 - 1 *	2 MD74	1 MD808	1 MD908
46	248x395x19	1 MD41	1 MD122	1 MD30	5 MD228 1 MD224 -	2 MD74	1 MD808	1 MD908
50	(9 ³ / ₄ " x 15 ⁹ / ₁₆ " x ³ / ₄ ")	1 MD41	1 MD122	1 MD30	6 MD228	2 MD74	1 MD808	1 MD908
52		1 MD41	1 MD124	1 MD30	6 MD228	2 MD74	1 MD808	1 MD908
56	372x304.5x19	1 MD41	1 MD10	1 MD30	7 MD228	3 MD73	1 MD89	1 MD99
60	$(14^{5}/_{8}" \times 12" \times ^{3}/_{4}")$	1 MD41	1 MD124	1 MD30	7 MD228	3 MD73	1 MD89	1 MD99
68		1 MD41	1 MD124	1 MD30	8 MD228 - 2 *	3 MD74	1 MD812	1 MD912
72	/-	1 MD41	1 MD124	1 MD30	8 MD228 1 MD224 1 *	3 MD74	1 MD812	1 MD912
76	372x395x19 (14 ⁵ / ₈ " x 15 ⁹ / ₁₆ " x ³ / ₄ ")	1 MD41	1 MD124	1 MD30	8 MD228 2 MD224 -	3 MD74	1 MD812	1 MD912
80		1 MD41	1 MD124	1 MD30	9 MD228 1 MD224 -	3 MD74	1 MD812	1 MD912
84		1 MD41	1 MD124	1 MD30	10 MD228	3 MD74	1 MD812	1 MD912
90		1 MD41	1 MD122	1 MD30	10 MD228 2 MD224 2 *	4 MD74	-	-
100	496x395x19	1 MD41	1 MD124	1 MD30	11 MD228 2 MD224 1 *	4 MD74	-	-
108	$(19^{1}/_{2}" \times 15^{9}/_{16}" \times ^{3}/_{4}")$	1 MD41	1 MD124	1 MD30	13 MD228 - 1 *	4 MD74	-	-
116		1 MD41	1 MD124	1 MD30	14 MD228	4 MD74	-	-

[■] or MD74 or MD804 or MD904

It replaces MD72, 73, 74



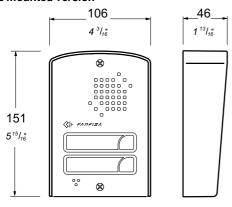


^{*} MD20 or MD50 or FC52P

4+1 INTERCOMS

PUSH-BUTTONS UP series

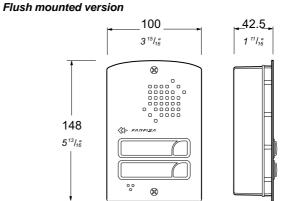
Surface mounted version



UP 100. Amplified push-button panel with 1 call button.

Be used in all 4+1 intercom and intercommunicating systems. Complete with electric door speaker amplifier in the two channels, volume control of the receiving channel, front panel in anodized aluminium with call button. Wall-mountable with expansion plugs.

UP 200. Amplified push-button panel with 2 call buttons.



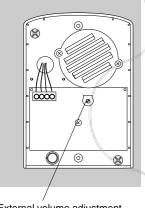
UP 11. Amplified push-button panel with 1 call button.

Be used in all 4+1 intercom and intercommunicating systems. Complete with electric door speaker amplifier in the two channels, volume control of the receiving channel, front panel in anodized aluminium with call button.

To install it you must:

- fix the back box to the wall;
- install the speaker unit;
- make the connections;
- screw the front panel onto the back box.

UP 12. Amplified push-button panel with 2 call buttons.



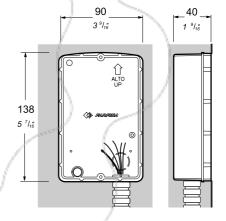
External volume adjustment

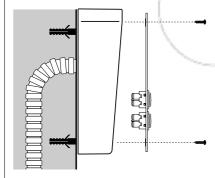


- ground
- 13Vac-70mA voltage input
- 1 audio receiver
- 2 audio transmitter

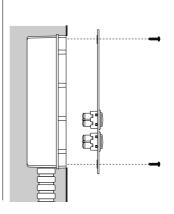
Wires in electronic call systems

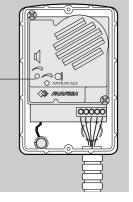
C the yellow wire must not be used; it is recommended to insulate or cut







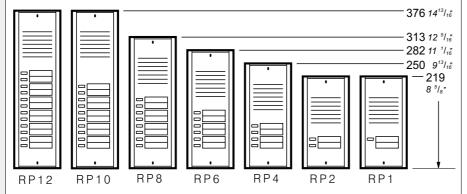


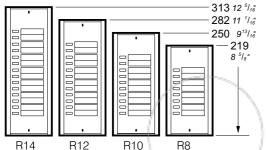






PUSH-BUTTONS ErreP/R series





<u>R</u>. Push-button panels provided only with buttons.

An electric door speaker

cannot be fitted inside. When

such panels are installed to-

gether with the previous

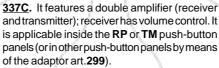
ones, a system with over 12

calls is obtained (see table).

RP. Push-button panels with anodized aluminium front panel and buttons, complete with name plate lights. The electric door speaker can be fitted inside the push-button panel.

The unit should be flush-mounted and the microphone should be firmly attached to the front panel to avoid feedback and to obtain the highest audio quality.

ELECTRIC DOOR SPEAKER (amplifier)

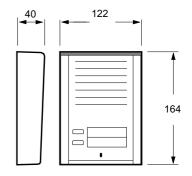


Provided with an electret microphone and tropicalized speaker.

Terminals

- 1 audio receiver
- 2 audio transmitter
- 3 positive power supply 6÷8Vdc -60mA
- 4 ground

AMPLIFIED DOOR STATIONS



RP100. 1-button amplified door station.

It is complete with an amplifier, in both channels, electric door speaker, volume control of the receiving channel, front panel in anodized aluminium, call button, rain shelter and name plate light.

It can be installed on the wall with expansion plugs or on a wall box.

RP200. 2-button amplified door station.

Technical data

Power supply: 13Vac Operating current: 130mA

Terminals

- 2 audio receiver
- 1 audio transmitter
- C common contact of call push-buttons
- P1 call push-button
- P2 call push-button
- ground
- → alternate voltage input 13Vac

Note. The **W1** jumper must be cut in order to be used in electronic call systems.

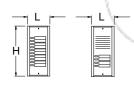
Instructions of the various ErreP/R push-button panel series and their dimensions en mm (and inches)

L and H = Dimensions of the panel

Series

40mm 1 9/16

I and h = Dimensions of the back-box



RP



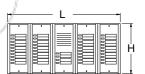
R₊RP



R-RP-R



R+RP+R+R



R+R+RP+R+R

Ochica	11	131	IXTIXI	KHAI FK	INTINI TINTIN	INTINTIAL TINTIA	
H	112 <i>(4</i> ⁷ / ₁₆ ")		224 (8 ¹³ / ₁₆ ")	336 (13 1/4")	448 (175/8")	560 (22 1/16")	Lh
218.5 (8 ⁵ / ₈ ")	R8	RP1	R8+RP1= 9	2R8+RP1= 17	3R8+RP1= 25	4R8+RP1= 33	206.5
	R8	RP2	R8+RP2= 10	2R8+RP2= 18	3R8+RP2= 26	4R8+RP2= 34	(8 ¹ / ₈ ")
250 (9 ¹³ / ₁₆ ")	R10	RP4	R10+RP4= 14	2R10+RP4= 24	3R10+RP4= 34	4R10+RP4= 44	238 (9³/ ₈ ")
281.5 (11 ¹ / ₁₆ ")	R12	RP6	R12+RP6= 18	2R12+RP6= 30	3R12+RP6= 42	4R12+RP6= 54	269.5 (10 ⁵ / ₈ ")
313 (12 ⁵ / ₁₆ ")	R14	RP8	R14+RP8= 22	2R14+RP8= 36	3R14+RP8= 50	4R14+RP8= 64	301 (11 ⁷ / ₈ ")
H	103 (4 1/16")		215 (8 ⁷ / ₁₆ ")	327 (12 ⁷ / ₈ ")	439 (17 ⁵ / ₁₆ ")	551 (21 ¹¹ / ₁₆ ")	l h





POWER SUPPLIES

Power supplies are not provided with fuses, but they are protected against overloading or short-circuiting by a heat sensor (thermoprotector), to restore power, it is necessary to cut OFF the mains voltage for about one minute. Reconnect power after having eliminated the problem.

Do not obstruct the openings for ventilation or heat dissipation to allow the equipment to operate correctly. The power supply can be fixed on DIN bar or screwed to the wall.

All power supplies can provide power for a maximum of **6 (24V-3W) lamps** for illuminating push-button panel name plates. If required add the necessary **PRS210** transformers (approx. 1 for 10 lamps).

General technical data

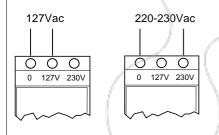
Input voltage: 127Vac or 220-230Vac

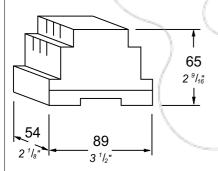
Working temperature: 0°÷+50°C Maximum of humidity: 90%RH

Warning

All power supplies in this manual can work either 127Vac or 220-230Vac.

Check carefully the right connection.





PRS 210. TRANSFORMER.

Used to power 13 Vac devices; MD100, MD200, RP100, RP200, UP series amplified external door stations, accessories, additional door locks, name plate light, etc.

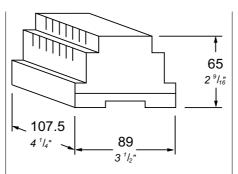
Technical data

Power: 15VA Output voltage: 13Vac Maximum load: 0.7A

Maximum of intermittent load: 1A Housing: DIN 3 modules A Weight: 0.42 Kg. (0.93lb)

Approved by: VDE according to the Safety

Standard EN60065



PRS 240. STABILIZED POWER SUPPLY WITH 2 ELECTRONIC RINGING GENERATORS.

Power supply with two electronic ringing generators for calls. It supplies the voltages needed for the correct operation of intercom systems.

Technical data

Power: 18VA

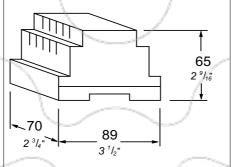
Ringing frequency: 450Hz modulated Housing: DIN 6 modules A Weight: 0.5 Kg. (1.11b)

Approved by: VDE according to the Safety

Standard EN60065

Output terminals

- Ground
- + Audio line power supply 7.2Vdc-0.1A
- X Power supply for aux. services 12Vdc-0.2A
- \sim Power supply 13Vac for:
 - name plate lamps (continuous load 0.6A)
 - electric door lock and bells (intermittent load 1A)
- C+ Modulated electronic call output 12Vpp-0.25A
- 7 Continuous electronic call output 12Vpp-0.25A



PRS 220. STABILIZED INTERCOM POWER SUPPLY.

Used in intercom systems where the ringing generator is located in a different power supply or service module.

Technical data

Power: 15VA

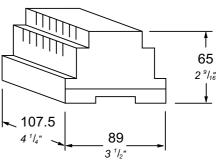
Housing: DIN 4 modules A Weight: 0.45 Kg. (0.99lb)

Approved by: VDE-SASO according to the Safety

Standard EN60065

Output terminals

- Ground
- Audio line power supply 6Vdc-0.1A
- \sim Power supply 13Vac for:
 - name plate lamps, exchangers (continuous load 0.6A)
 - electric door lock and bells (intermittent load 1A)



PRS226E. POWER SUPPLY – SWITCHER FOR INTERCOMMUNICATING SYSTEMS.

Used to power intercom intercommunicating systems. It allows for automatic switching between the audio connection of the external door station and the intercommunicating service to the intercoms.

Technical data

Power: 18VA

Housing: DIN 6 modules A Weight: 0.5 Kg (1.1lb)

Approved: VDE according to the Safety Standard

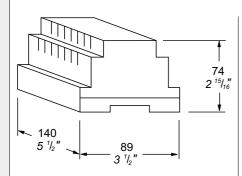
EN60065

Output terminals

- Ground
- + 8Vdc-0.1A power supply for door speaker unit
- X 12Vdc-0.2A power supply for auxiliary services
- \sim 13Vac power supply for:
 - name plate light, switcher (continuous service 0.6A)
- electric door lock (intermittent service 1A)
- 7 Electronic call output for intercommunication Y Electronic call output for push-button panels
- A Output for alternate current calls from pushbutton panels 13Vca-0.15A
- G Audio line receiver from intercoms
- 2 Audio line transmitter to intercoms
- **D** Audio line transmitter to electric door speaker
- C+ Audio line receiver from electric door speaker
- 9 Electronic call input for audio switching in multi-family systems
- 4 Common contact of relay activated by terminal 9
- 4a Normally closed contact of relay activated by terminal 9
- **4b** Normally open contact of relay activated by terminal 9







1281E. AUDIO-VIDEO POWER SUPPLY-

It allows to power in timed way (about 100 seconds) a videointercominstallation with electronic call. Moreover it allows to switch-ON one monitor at a time and to switch it OFF at the end of the timing.

Technical data

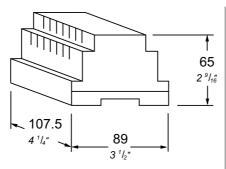
Input voltage 127 or 220-230Vac 50/60Hz Frequency Power 48VA Operating temperature 0°÷+40°C Maximum permissible humidity 90%RH Housing DIN 8 modules A Weight 0.95Kg. Approved VDE according to safety standard EN60065

Terminals

- A Output voltage 13Vac for:
 - -name plate light, exchangers and timer (continuous service 0.6A)
 - -electric door lock and bells (intermittent service 1A)
- Ground
- H Timed positive voltage input-output 18÷21Vdc-1A max.
- F Ground
- X Auxiliary voltage output 12Vdc-0.2A
- 4 Control switching ON input from the monitors 7.5Vdc-8mA
- 5 Command for door lock release command 3mA
- **S** Alternate voltage for door lock release 13Vac-1A max
- C+ Electronic ringing generator for calls from external station 12Vpp-0.25A
- 3+ Positive voltage output 8Vdc-0.1A

Notes

- The power supply is not provided with fuses, but all of its outputs are protected against overloading and short circuiting by temperature sensors. To reset the power supply, power must be cut OFF for about one minute and can be restored after having eliminated the problem.
- The power supply must be installed in a dry place and can be fixed on DIN bar or on a wall by using the expansion plugs.



1281. STABILIZED POWER SUPPLY WITH SWITCHING REGULATOR.

Connected to the timer art.1282E, allows to drive at low voltage a monitor (or 2 in parallel in FLAT type), a camera unit with a solid state sensor (CCD), electric door lock, name plate lights, etc.

Technical data

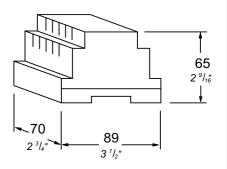
127 or 220-230Vac Input voltage Frequency 50/60Hz 48VA Power Operating temperature 0°÷+40°C 90%RH Maximum permissible humidity Housing DIN 8 modules A Weight 0.95Kg. Approved VDE according to safety standard EN60065

Terminals

- A Output voltage 13Vac for:
 - -name plate light, exchangers and timer (continuous service 0.6A)
 - -electric door lock and bells (intermittent service 1A)
- Ground
- Continuous output 21Vdc-1A (timed operation)
- Logic command input from timing 0 = activated
 - +5Vdc = non activated

Notes

- The power supply is not provided with fuses, but all of its outputs are protected against overloading and short circuiting by temperature sensors. To reset the power supply, power must be cut OFF for about one minute and can be restored after having eliminated the problem.
- The power supply must be installed in a dry place and can be fixed on DIN bar or on a wall by using the expansion plugs.
- The connection between power supply 1281 and timer 1282E must not to be longer than 25cm



1282E. AUDIO-VIDEO TIMER.

Connected to the stabilized power supply art.**1281**, it allows a video intercom system to be timed (50 seconds).

It also allows time to be increased during a conversation (3 minutes), automatic power OFF at the end of the conversation; switching ON of one monitor at a time. By adding the intercommunicating module art. 1443E on the proper connector, an intercommunicating service with privacy towards the external station is obtained.

Technical data

Turn ON time: -50 sec. with handset replaced -3 min. with handset lifted
Operating temperature 0°÷+50°C
Maximum permissible humidity 90%RH
Housing DIN 6 modules A

Terminals

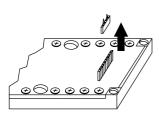
- IV Logic command output of timing 0/5Vdc
- X Auxiliary voltage output 12Vdc-0.2A
- A Alternate voltage input-output 13Vac-1.6A
- F Ground
- H Timed positive voltage input-output 18÷21Vdc-1A max.
- 4 Control switching ON input from the monitors 7.5Vdc-8mA
- 5 Command for door lock release command 3mA
- S Alternate Voltage for door lock release 13Vac-1A max
- 1D Transmitter audio channel input 5Vdc-20mA
- 2D Receiver audio channel input 1.5Vdc-20mA
- 3D Audio ground
- **C+** Electronic ringing generator for calls from external station 12Vpp-0.25A
- 7 Electronic ringing generator for intercommunicating calls 12Vpp-0.25A
- 1 Transmitter audio channel output 5Vdc-20mA
- 2 Receiver audio channel output 1.5Vdc-20mA
- 3+ Positive voltage output 8Vdc-0.1A

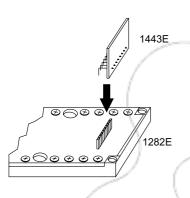




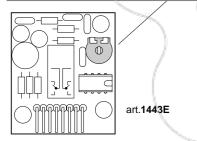
1443E. INTERCOMMUNICATING MOD-ULE.

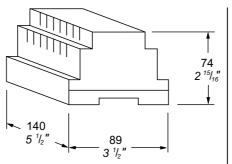
Added inside the timer art. **1282E**, it allows for the intercommunicating service with privacy towards the external station.





Use the trimmer to adjust the intercommunicating volume.





1473. 4-CONTACT ANALOG EXCHANGER.

Used in systems with 2 or more door stations to automatically switch audio lines and door lock release on the calling station.

Both 3-4 terminals and 11 (side b) or 5-6 terminals and 12 (side a) can be used to activate switching.

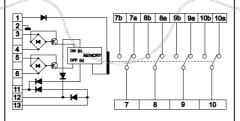
Can be fixed on DIN bar or screwed to the wall with 2 expansion plugs.

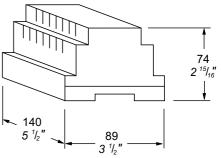
Technical data

Power supply: 13Vac; 15÷21Vdc
Current consumption: 0.1A
Number of exchanges: 4
Max. switching current: 5A (50V)
Housing: DIN 8 modules A
Operating temperature: 0° ÷ 50°C
Maximum permissible humidity: 90% RH

Terminals

- 1 Power supply 13Vac-0.1A
- 2 Ground
- 3 and 4 Driver to switch the relay to "b" position ON position
- 5 and 6 Driver to switch the relay to "a" position OFF position
- 7, 8, 9 and 10 Common contact of relays
- 7a, 8a, 9a and 10a OFF position of the relay contacts
- 7b, 8b, 9b and 10b ON position of the relay contacts
- 11 Ground command to switch the relay to "a" position OFF position
- 12 Ground command to switch the relay to "b" position ON position
- 13 Electronic call input



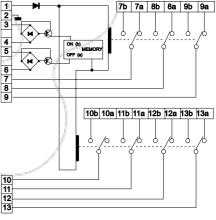


1273TV. 7-CONTACT ANALOG EXCHANGER.

It is used in systems with 2 or more video entrances for switching automatically the video signals, the audio lines and door lock on the calling entrance. Can be fixed on DIN bar or with two expansion plugs. In housing DIN 8 modules A. For the switching of video signals it is advisable to use terminals 8-8a-8b and 9-9a-9b, being that they are physically closer.

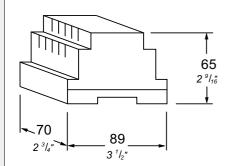
Terminals

- 1 Power supply 13Vac-0.1A (15÷21Vdc)
- 2 Ground
- 3 and 4 Driver to switch the relay in "b" positionON position
- 5 and 6 Driver to switch the relay in "a" position
 OFF position
- **7,8,9,10,11,12,13** Common contact of relay **7a,8a,9a,10a,11a,12a, 13a** OFF position of relay contacts
- 7b,8b,9b,10b,11b,12b, 13b ON position of relay contacts









<u>2443</u>. AMPLIFIER-SWITCHER FOR INTERCOMMUNICATING SYSTEMS.

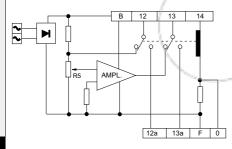
It is suitable for video intercom systems where it is necessary to have the intercommunicating service in different flats with privacy towards both outside and other users. Use one art. 2443 in every intercommunicating flat. Can be fixed on DIN bar or with two expansion plugs. In housing DIN 4 modules A.

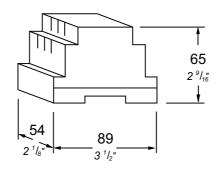
Terminals

- F General ground
- B Power supply 8Vdc-60mA
- → Power supply 13Vac-70mA
- 12 Connection toward the microphone of the monitors
- 12a Audio output from door station (transmitter channel)
- 13 Connection towards the loudspeaker of the monitors
- 13a Audio input from the door station (receiver channel)
- 14 Timed power supply for audio connection toward the door station 12÷24Vdc-60mA
- To connect to terminal F when the terminal 14 is powered to 12Vdc (terminal 8 of the monitor)

Note

If it is necessary to adjust the volume of the intercommunicating audio turn trimmer R5.





<u>GN30</u>. ELECTRONIC RINGING GENERATOR WITH 3 DIFFERENT SOUNDS.

It allows for differentiating calls from external door stations or from door station and floor-calls. It can be used either in electronic or alternate current call systems.

Can be fixed on DIN bar or screwed to the wall with 2 expansion plugs.

Technical data

Power supply: 13Vac

Current consumption with ringing ON: 0.6A

Housing: DIN 3 modules A

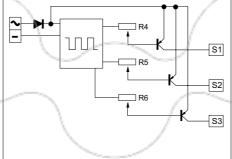
Operating temperature: 0° ÷ 50°C

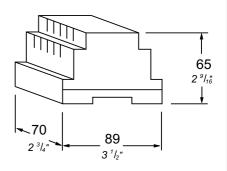
Maximum permissible humidity: 90% RH

Terminals

- \sim Alternate current input
- Ground
- \$1 Modulated electronic ringing output (standard tone)
- S2 Continuous electronic ringing output
- S3 Modulated electronic ringing output (acute tone)

Note. If necessary, the volumes of the electronic ringing generator can be individually adjusted by means of R4 (S1), R5 (S2) and R6 (S3) trimmers.





RL37. RELAY MODULE.

Relay module used to regenerate the electronic call for additional 3 intercoms or video intercoms. It permits to activate/deactivate max. 3 additional video power supplies. Complete with electronic ringing generator for intercommunication.

Can be fixed on DIN bar or screwed to the wall with 2 expansion plugs.

Technical data

Power supply: 13Vac Current consumption: 0.04A

Current consumption with ringing ON: 0.6A

Number of exchanges: 1

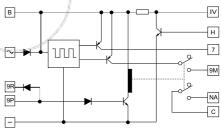
Max. switching current: 1A (24V) Housing: DIN 4 modules A

Operating temperature:0° ÷ 50°C

Maximum permissible humidity: 90% RH

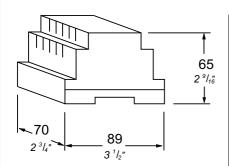
Terminals

- Alternate current input
 - Ground
- H Timed continuous current input 21Vdc
- N Additional power supply activation
- C Common contact of relay
- NA Normally open contact of relay
- 9P Electronic call input
- 9M Regenerated electronic call output activated by terminal 9P
- 9R Direct electronic call output from terminal 9P
- B 8Vdc voltage output









1471E. RELAY UNIT.

It is used when it is not possible to actuate commands directly. For example:

- stair light switching ON,
- activation of additional bells,
- additional door lock release, etc.

Can be fixed on DIN bar or screwed to the wall with 2 expansion plugs.

Technical data

Power supply: 13Vac; 12÷24Vdc

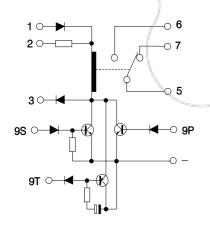
Current consumption: 0,05A Number of exchanges: 1

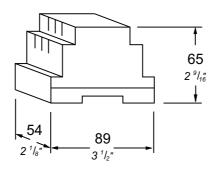
Number of exchanges: 1
Switching current: 1A (24V)

Housing: DIN 4 modules A Operating temperature: $0^{\circ} \div 50^{\circ}$ C Maximum permissible humidity: 90% RH

Terminals

- Alternate current input 13Vac-dc
- 2 Continuous current input 21Vdc
- 3 Negative half-wave input or ground
- 5 Common contact of relay
- 6 Normally open contact of relay
- 7 Normally closed contact of relay
- 9P Electronic call input without resistive load
- 9S Electronic call input with resistive load
- 9T Electronic call input timed operation (1 sec.)
- Ground





1471. RELAY UNIT.

As **1471E**, with lower number of terminals and in a small housing.

Technical data

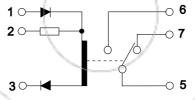
Power supply: 13Vac; 12÷24Vdc

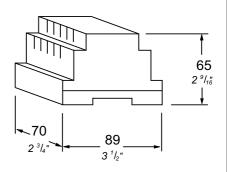
Current consumption: 0.05A
Number of exchanges: 1
Switching current: 5A (50V)

Housing: DIN 3 modules A
Operating temperature: 0° ÷ 50°C
Maximum permissible humidity: 90% RH

Terminals

- 1 Alternate current input 13Vac-dc
- 2 Continuous current input 21Vdc
- 3 Negative half-wave input or ground
- 5 Common relay contact
- 6 Normally open contact of relay
- 7 Normally closed contact of relay





1472. 2- CONTACT RELAY UNIT.

As **1471E**, with higher number of exchanges and without terminals 9P and 9T.

Technical data

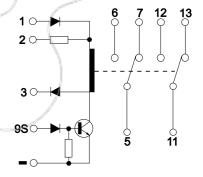
Power supply: 13Vac; 12÷24Vdc

Current consumption: 0.05A Number of exchanges: 2

Switching current: 1A (24V) Housing: DIN 4 modules A Operating temperature: $0^{\circ} \div 50^{\circ}$ C Maximum permissible humidity: 90% R

Terminals

- 1 Alternate current input 13Vac-dc
- 2 Continuous current input 21Vdc
- 3 Negative half-wave input or ground
- 5 Common contact of exchange 1
- Normally open contact of exchange 1Normally closed contact of exchange 1
- 11 Common contact of exchange 2
- 2 Normally open contact of exchange 2
- 13 Normally closed contact of exchange 2
- 9S Electronic call input with resistive load
- Ground







INSTALLATION INSTRUCTIONS

General characteristics

- The cable runs of intercom and video intercom installations must be kept separate from the mains or any other electrical installation as required by the International Safety Standards and the entire installation must be realized in compliance with the safety rules in force in any specific Country.
- It is necessary to provide a disconnecting and safety switch before the power supply. Use a single general switch in case of several power supplies (also in multiple entrance).
- Before connecting the power supply make sure that its rating data corresponds to this of the mains.
- For electromagnetic reasons, all service modules must be installed near their power supply.

Wires

- For the correct operation of the intercom system you must choose the correct type of cable.
- Wires must be dimensioned according to the distance of the different devices and their current consumption.
- 3) Do not connect wires in parallel to reach the required cross-section (for example multi-pair telephone cables). Only use a single wire with suitable cross-section. When using multi-core cables you must select them with low parasite parameters (low capacitance per metre, low inductance over Ohm).
- 4) If the installation includes additional power supplies you must place them near the device to be powered.

Background noise

To avoid possible background noise over the speech line, it is advisable:

- not to lay intercom or telephone cables in the same runaway as the wires used to power alternate current loads;
- 6) to avoid using the same multi-core cable to transmit audio signals and alternate current power supplies (lamps, amplified external door stations, electrical door locks). Always use separate wires for alternate current power supplies;
- 7) not to connect name-plate lamps (or other devices powered with alternate current) to terminal 4 (-) of the speaker unit; 2 wires must originate from terminal - (minus sign) of the power supply, one for terminal 4 of the speaker unit and one for the lamps (or other devices powered with alternate current);
- for name-plate lamps, to use an additional 12Vac transformer (PRS210 type) with suitable power (consumption is 75mA for each lamp) with 2 power supply wires separate from audio wires;
- 9) in case of long distances between the external door station and the last intercom, to place the power supply near the external door station and use a relay for the electric door lock in order to avoid alternate current induction along the riser (see diagram on page 152).

WIRE CROSS-SECTION

Intercom system

Distar	ice	Audio	and calls			k and ground bold face type	
-	-1	The state of the s		/	The same of the sa	/	1
m.	feet	mm²	mm	AWG	mm²	mm	AWG
		S	Ø	THE REPORT OF THE PARTY OF THE	S	Ø	
				The state of the s			all the state of t
50	165	0,35	0,6	22	0,75	1	18
100	330	0,35	0,6	22	∖ 1	1,2	16
200	660	0,5	0,8	20	2	1,4	14
300	990	0,75	1	18	2,5	1,8	13
400	1300	1	1,2	16	-	-	-

Videointercom system

Distar	Term 1 . 2 . 1D . 2D . 3D . 4 . 5 3+ . 7 . A . C+ . 9M (calls)				I . S . — es in bold face	type)	
-	-						
m.	feet	mm² S	mm Ø	AWG	mm² S	mm Ø	AWG
50 100 200 300	165 330 660 990	0,5 0,75 1 1,5	0,8 1 1,2 1,4	20 18 16 15	0,75 1 1,5 2,5	1 1,2 1,4 1,8	18 16 14 13

For the video signal use a TV 75 Ω low loss coaxial cable or a twisted pair (see next pages).



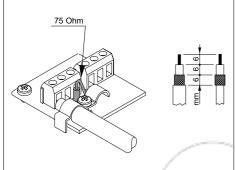


VIDEO SIGNAL DISTRIBUTION WITH COAXIAL CABLE

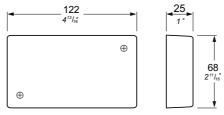
For the video signal use a TV 75 Ω low loss coaxial cable.

Monitors terminal board

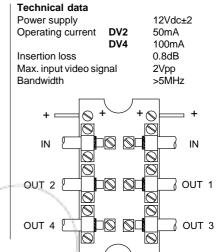
The resistance for terminate the video signal (75 Ω) is located on the terminal board of the monitor wall bracket.



DV2-DV4. VIDEO SIGNAL DISTRIBUTORS.

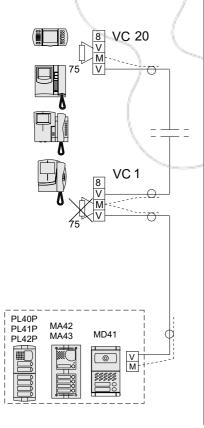


They allow the distribution of the video signal on 2 or 4 outputs. It can be installed on the wall, on a wall box, with expansion plugs or it can be placed in the junction box.



Serial connection of the coaxial cable (input and output from monitor)

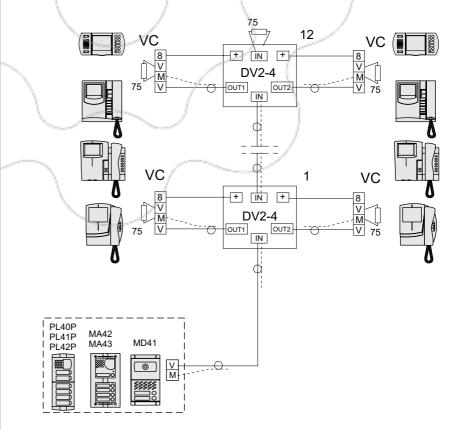
To carry out the video connection in a serial mode it is necessary to cut the resistance of 75Ω located on the wall-bracket terminal board. Leave it only on the last monitor. The monitors serially connectable are max. 20.



Connection of the coaxial cable with video distributors

For multi-way video systems it is advisable to use video distributor that, being powered by the monitors connected to it (terminal 8), do not create overloads on the video power supply. The

outputs that are not used must be closed with resistances of 75Ω that are provided in kit. Maximum 12 video distributors can be connected together.







476. VIDEO DISTRIBUTOR-AMPLIFIER.

It allows for the distribution of the video signal coming from the cameras on 5 independent lines. It is not necessary to terminate on 75Ω the unused outputs.

Terminals

F General ground
14 Positive power supply
IN Video signal input
1-2-3-4-5 Video signal outputs

Video ground (shield of the coaxial

cable)

Technical data

 $\begin{array}{ccc} \mbox{Power supply} & 21 \pm 3 \mbox{Vdc} \\ \mbox{Operating current at max. load} & 250 \mbox{mA} \\ \mbox{Gain at max. load} & \mbox{from 0 to 3.5dB (adjustable)} \\ \mbox{Gain with one output terminated to } 75 \mbox{\Omega} \end{array}$

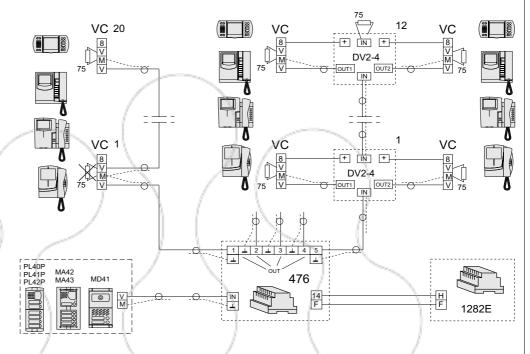
from 0 to 9dB (adjustable)

Bandwidth >5MHz
Operating temperature 0°÷+50°C
Maximum permissible humidity 90% RH
Housing DIN 8 modules A

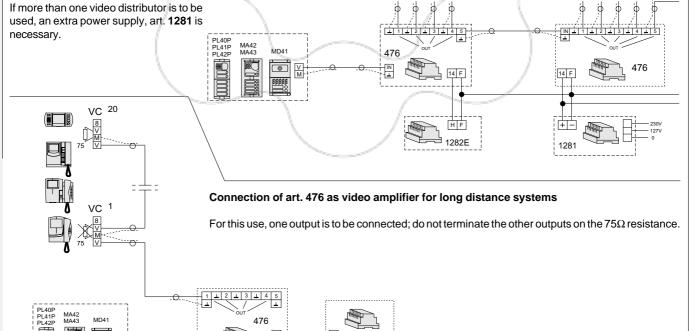
Connection of the coaxial cable with distribution on maximum 5 column rising (serial and/or with video distributors)

In video systems with different columns rising or with a high number of users, it is necessary to use the video distributor-amplifier art. 476.

It is not necessary to terminate the unused outputs on the $75\Omega\, resistance.$



Connection of the coaxial cable with video signal distribution on more than 5 risers



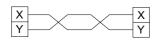




1282F

VIDEO SIGNAL DISTRIBUTION WITH TWISTED PAIR

If the distance between the camera and the last video intercom in the system is lower than 200 m, the connection can be made with 2x0.35mm² wires (Ø=0,6mm) instead of the coaxial cable. For distances from 100m to 200m a twisted pair must be used.



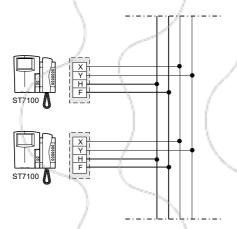
For the connection of the video signal you can choose from:

- connection with junction box
- serial connection (input and output)
- connection with floor distributor

CONNECTION WITH JUNCTION BOX

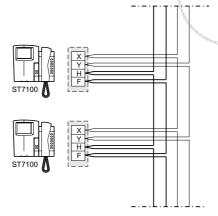
All wires are distributed in the floor junction box.

Due to the signal loss introduced by each connection, the maximum number of video intercoms that can be connected in shunted mode is 20. Two 75 Ω resistances must be inserted between X and F and between Y and F in the last video intercom. The maximum distance between the video intercoms and the connector block is 2.5 metres.



SERIAL CONNECTION

Connections are made on the video intercom brackets, and not in the junction box. Due to the signal loss introduced by each connection, the maximum number of video intercoms that can be connected in serial mode is 20. Two 75Ω resistances must be inserted between X and F and between Y and F in the last video intercom.



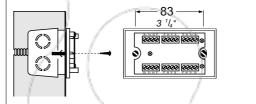
CONNECTION WITH FLOOR DISTRIBUTOR

The video wires of each video intercom are insulated from the riser. Connections are made on the **DV2D** or **DV4D** floor video signal distributor box.

DV2D-DV4D. FLOOR VIDEO SIGNAL DISTRIBUTORS.

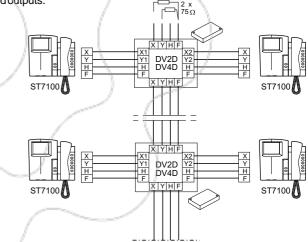
They allow for the distribution of the video signal taken from the riser on 2 or 4 outputs. They can be installed on the wall on a wall box, with expansion plugs or it can be placed in the junction box.

Technical data



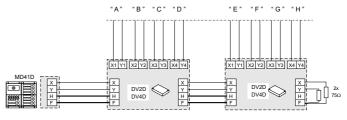
Connection of the video signal on a single riser

Terminals X and Y of the last distributor must be terminated with the 75 Ω resistances supplied with the article. It is not necessary to terminate the unused outputs.



Connection of the video signal with distribution on several risers In video systems with different risers you must user 1 or more video distributors art. DV2D or DV4D.

Terminals X and Y of the last distributor must be terminated with the 75 $\!\Omega$ resistances supplied with the article. It is not necessary to terminate the unused outputs.



Example of connection on 8 risers





MD41

MD41C

VIDEO SIGNAL CONVERSION FROM COAXIAL CABLE TO BALANCED LINE

The **Studio** video intercom line allows for the realisation of video intercom systems by simply using a twisted pair and the camera **MD41D**. If the system includes colour cameras Matrix or Profilo series or models for CCTV, you must use a video converter to transform the video signal from coaxial to balanced. The board **CV01** permits this type of conversion and can be fixed on the back of **Mody, Matrix** or **Profilo** cameras (all models, except for **MD41D**) or near any **CCTV** camera (in outdoor housings, connector blocks, etc).

CV 01.

Video signal converter from coaxial cable to balanced line (twisted pairs).

Wires

V (white) video signal input

M (green) video ground

-F (black) ground

+H (red) 12÷21Vdc power supply input (according to the position of

jumper J1)

Terminals

X negative balanced video signal output

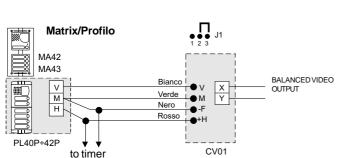
positive balanced video signal output

SYSTEMS WITH MODY, MATRIX OR PROFILO CAM-ERAS

Installation

- Fix the CV01 board on the back of the housing of the camera with the screw supplied (a).
- Make the connections as shown on the diagram.
- Check that the jumper J1 is in position 2-3 (power supply =21Vdc).

Mody Matrix/Profilo Mody Bianco Verde Mero Nero F BALANCED VIDEO OUTPUT BALANCED VIDEO OUTPUT



Rosso

CV01

SYSTEMS WITH CCTV CAMERAS

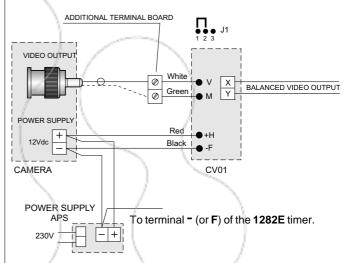
Installation

- Place the CV01 board in the outdoor housing of the CCTV camera or in any other housing.
- Make the connections as shown on the diagram.

Connection with 12Vdc CCTV camera

This type of connection allows for powering the board with the camera power supply.

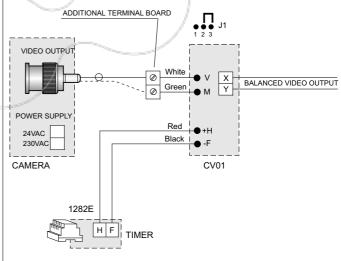
- Move the jumper J1 from position 2-3 to 1-2 (power supply=12Vdc).



Connection with 24Vac or 230Vac CCTV camera

This type of connection allows for powering the board in timed mode.

- Check that the **jumper J1** is in position 2-3 (power supply=21Vdc).





to time



7+1 VIDEOINTERCOMS

Installation diagrams

INTERCOMS

INDEX		Page
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- Si 26MO/1	Intercom system with secondary door stations and 1 main common station (multiple entrance)	159
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INTERCOMS CONNECTED TO 1 EXTERNAL DOOR STATION

• EXTERNAL DOOR STATIONS

PROFILO series

MATRIX series

MODY series

PL71÷PL73 PL81÷PL89 1 PL91÷PL99 1 1

MA71÷MA73 MAS61÷MAS63 (1) MA91÷MA93 1

MD71÷MD74 MD81÷MD812 MD91÷MD912 * 1

PL10P÷PL12P MAS10P÷MAS12P PL21÷PL228 MAS22-MAS24 PL20, PL50 MAS₂₀

MD10÷MD124 1 MD21÷MD228

MD20, MD50

MD30

• INTERNAL STATIONS

EX310 Exhito series intercom with 2 call buttons **EX320** Exhito series modular intercom **KM810W** Compact series intercom with 1 call button ... ST720W

Studio series modular intercom

PT510EW Project series intercom with 1 call button

• VARIOUS ARTICLES

PRS240 Power supply with electronic ringing generator

1 PA ** Door release push-button (optional) **SE** ** 1 Electric door lock (12VAC-1A)

Refers to number of users.

(1) Or MA61÷MA63.

Rain shelters are used instead of back boxes and hood covers

Articles not supplied by ACI Farfisa.

Working instructions. See page 183.

Notes

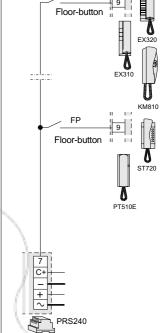
- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning refer to the installation recommendations and table on page 146.

FP Floor-button

This work diagram allows for differ-

entiating the floor-call from the call from the push-button panel.

Floor call



Electric door lock activation by means of an additional relay to terminal 5 of the intercor additional intercom power supply relay in the installation PRS240 PΑ SE .

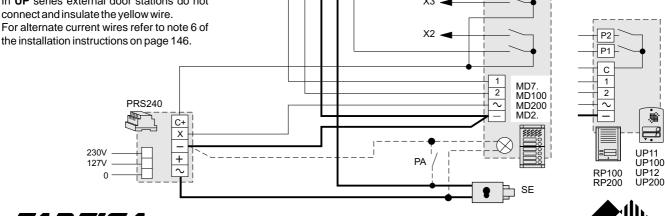
Application diagram

When using MD100, MD200, RP100, RP200 and UP amplified external door stations, place this diagram on the diagram on page 153 and line it up with the riser.

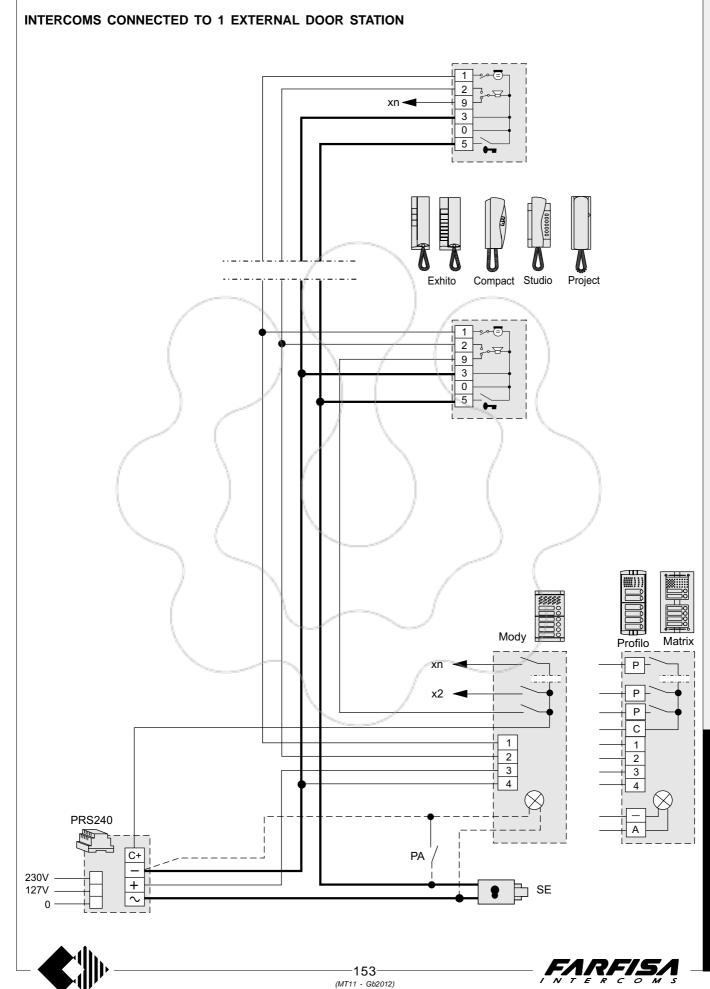
One or two-way systems can be realized with RP and UP series. As regards the Mody series, multi-family systems can be realized by adding the required quantity of button modules.

Warning.

- Cut jumper W1 in the RP100 and RP200 external door stations.
- In UP series external door stations do not connect and insulate the yellow wire.
- For alternate current wires refer to note 6 of







INTERCOMS CONNECTED TO 2 AUTOMATICALLY SWITCHED EXTERNAL DOOR STATIONS

• EXTERNAL DOOR STATIONS

PROFILO series		MA	MATRIX series		DY series
	PL71÷PL73		MA71÷MA73		MD71÷MD74
2	PL81÷PL89	2	MAS61÷MAS63 (1)	2	MD81÷MD812
2	PL91÷PL99 *	2	MA91÷MA93 *	2	MD91÷MD912 *
2	PL10P÷PL12P	2	MAS10P÷MAS12P	2	MD10÷MD124
	PL21÷PL228		MAS22-MAS24		MD21÷MD228
	PL20, PL50		MAS20		MD20, MD50
	•			2	MD30

Exhito series intercom with 2 call buttons

• INTERNAL STATIONS

EY310

•••	LASIU	Exhibitions interconfit with 2 can buttons
	EX320	Exhito series modular intercom
	KM810W	Compact series intercom with 1 call button
	ST720W	Studio series modular intercom
	PT510EW	Project series intercom with 1 call button

VARIOUS ARTICLES

1	14/3	Exchanger
1	PRS240	Power supply with electronic ringing generato
2	PA **	Door release push-button (optional)

2 PA** Door release push-button (optional)
2 SE ** Electric door lock (12VAC-1A)

- ... Refers to number of users.
- (1) Or MA61÷MA63.
- * Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

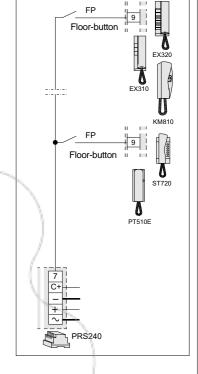
Working instructions.

As the basic system described on page 183, with the following variations:

- The audio functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.

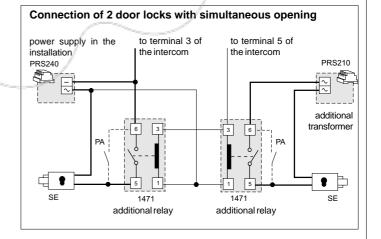
Notes

- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning refer to the installation recommendations and table on page 146.



This work diagram allows for differentiating the floor-call from the call from the push-button panel.

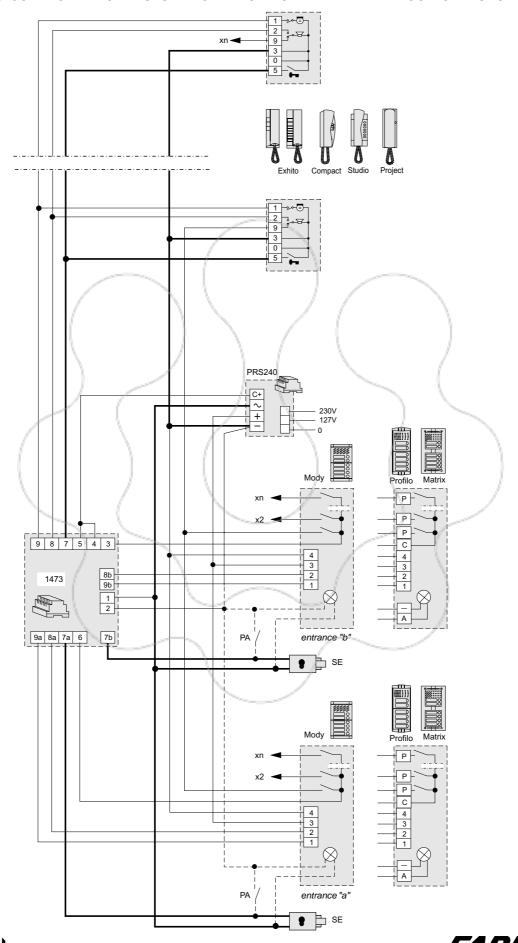
Floor call







INTERCOMS CONNECTED TO 2 AUTOMATICALLY SWITCHED EXTERNAL DOOR STATIONS







PROFILO series

INTERCOMS CONNECTED TO 3 AUTOMATICALLY SWITCHED EXTERNAL DOOR STATIONS

MODY series

• EXTERNAL DOOR STATIONS

	PL71÷PL73		MA71÷MA73		MD71÷MD74
3	PL81÷PL89	3	MAS61÷MAS63 (1)	3	MD81÷MD812
3	PL91÷PL99 *	3	MA91÷MA93 *	3	MD91÷MD912
3	PL10P÷PL12P	3	MAS10P÷MAS12P	3	MD10÷MD124
	PL21÷PL228		MAS22-MAS24		MD21÷MD228
	PL20, PL50		MAS20		MD20, MD50
				3	MD30

MATRIX series

• INTERNAL STATIONS

 EX310	Exhito series intercom with 2 call buttons
 EX320	Exhito series modular intercom
 KM810W	Compact series intercom with 1 call button
 ST720W	Studio series modular intercom
 PT510EW	Project series intercom with 1 call button

• VARIOUS ARTICLES

2	14/3	Exchanger
1	PRS240	Power supply with electronic ringing generator
3	PA **	Door release push-button (optional)
3	SE **	Electric door lock (12VAC-1A)

- ... Refers to number of users.
- (1) Or MA61÷MA63.
- * Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

Working instructions.

As the basic system described on page 183, with the following variations:

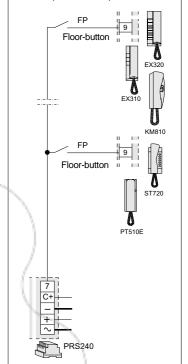
- The audio functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.

Notes

- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning refer to the installation recommendations and table on page 146.

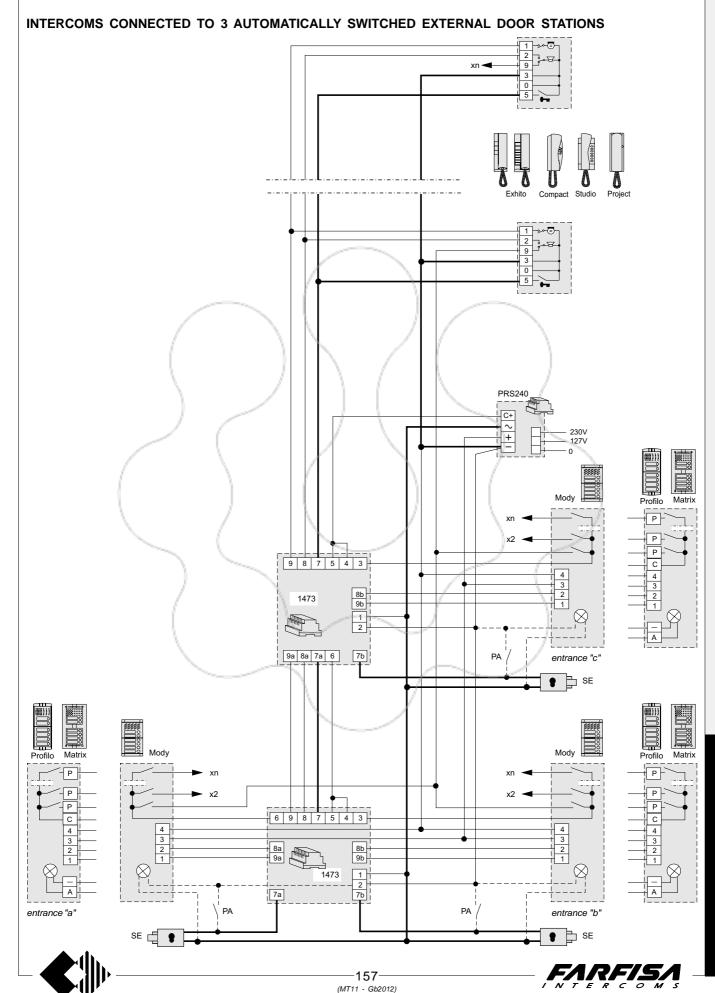


This work diagram allows for differentiating the floor-call from the call from the push-button panel.









INTERCOM SYSTEM WITH SECONDARY DOOR STATIONS AND 1 MAIN COMMON STATION (multiple entrance)

• EXTERNAL DOOR STATIONS

PROFILO series

PL71÷PL73 1+X PL81÷PL89

1+X PL91÷PL99 * 1+X PL10P÷PL12P PL21÷PL228

PL20, PL50 ...

MATRIX series

MA71÷MA73 1+X MAS61÷MAS63 (1) 1+X MA91÷MA93* 1+X MAS10P÷MAS12P

MAS22-MAS24 MAS₂₀

MODY series

MD71÷MD74 1+X MD81÷MD812

1+X MD91÷MD912 *

1+X MD10÷MD124 MD21÷MD228

MD20, MD50

1+X MD30

• INTERNAL STATIONS

EX310 Exhito series intercom with 2 call buttons

Exhito series modular intercom EX320

KM810W Compact series intercom with 1 call button ...

ST720W Studio series modular intercom

PT510EW Project series intercom with 1 call button

• VARIOUS ARTICLES

1473 Exchanger

1+X PRS240 Power supply with electronic ringing generator

PRS220 Power supply

1+X PA ** Door release push-button (optional) 1+X SE ** Electric door lock (12VAC-1A)

- Refers to number of users:
- X Refers to the number of stairways.
- (1) Or MA61÷MA63.
- Rain shelters are used instead of back boxes and hood covers.
- Articles not supplied by ACI Farfisa.

Working instructions.

As the basic system described on page 183, with the following variations:

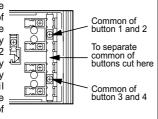
- The audio functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

Notes

- You can also use Prestige and TM push-button panels. For the latter series you must request the version with separate common terminals.
- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning refer to the installation recommendations and table on page 146.

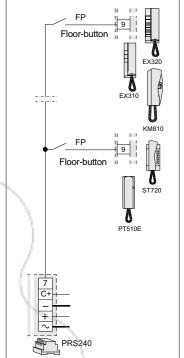
The main entrance push-button panel must have separate common terminals. One common terminal for each secondary door station. The common terminals of push-button's Profilo and Matrix series can be separated only module by module.

In Mody series the common terminals of push-buttons can be separated module by module or every 2 push-buttons bv cutting opportunely the common rail which connects the common terminals of push-buttons.

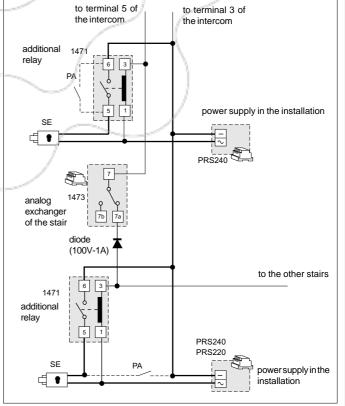


This work diagram allows for differentiating the floor-call from the call from the push-button panel.

Floor call



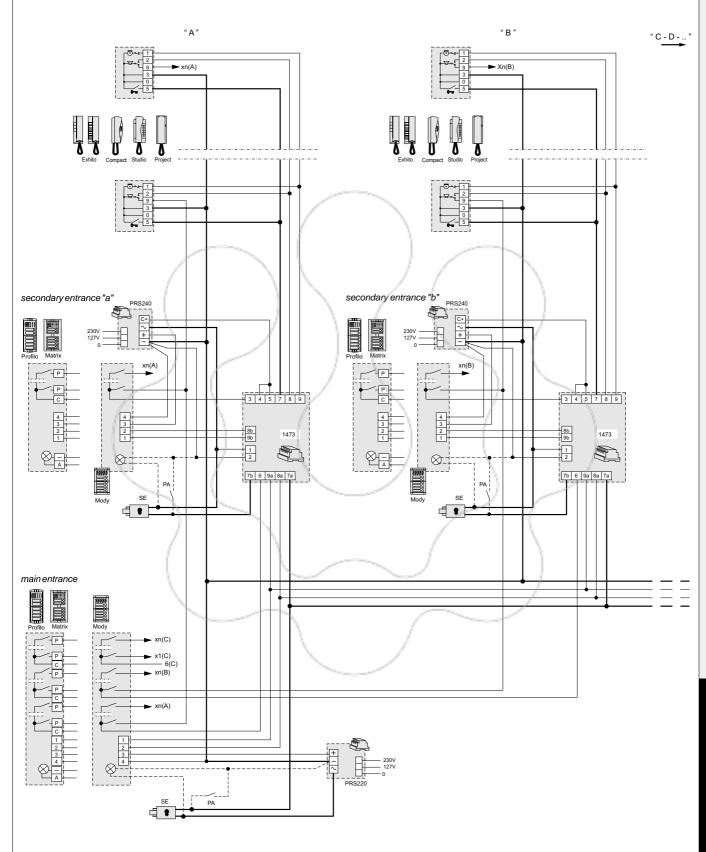
Connection of 2 door locks, one of which always activable, in a system with multiple entrance







INTERCOM SYSTEM WITH SECONDARY DOOR STATIONS AND 1 MAIN COMMON STATION (multiple entrance)







ONE WAY INTERCOM SYSTEM WITH SECONDARY DOOR STATIONS AND 1 MAIN COMMON STATION (multiple entrance)

• Main DOOR STATION

PL71÷PL73 MA71÷MA73 MD71÷M 1 PL81÷PL89 1 MAS61÷MAS63(1) 1 MD81÷M	
1 PL81÷PL89 1 MAS61÷MAS63(1) 1 MD81÷M	D74
	D812
1 PL91÷PL99 * 1 MA91÷MA93 * 1 MD91÷M	D912 *
1 PL10P÷PL12P 1 MAS10P÷MAS12P 1 MD10÷M	D124
PL21÷PL228 MAS22-MAS24 MD21÷M	D228
PL20, PL50 MAS20 MD20, M	D50
1 MD30	

• Secondary DOOR STATIONS

PRO	FILO series	MA	TRIX series	1	MO	<u>DY</u> series
Χ	PL71	Χ	MA71	/	Х	MD71
Χ	PL81	Х	MAS61 (1)		Χ	MD81
Χ	PL91 *	X	MA91 * `		Χ	MD91 *
Χ	PL11P	X	MA11P	\	Χ	MD11 🚶
		/	1	The same of the sa	Χ	MD30

• INTERNAL STATIONS

 EX310	Exhito series intercom with 2 call buttons
 EX320	Exhito series modular intercom
 KM810W	Compact series intercom with 1 call button
 ST720W	Studio series modular intercom
 PT510EW	Project series intercom with 1 call button

• VARIOUS ARTICLES

X 1473	Exchanger
1+X PRS240	Power supply with electronic ringing generator
1+X PA **	Door release push-button (optional)
1+X SE **	Electric door lock (12VAC-1A)

- ... Refers to number of users.
- X Refers to the number of stairways.
- (1) Or MA61÷MA63.
- * Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

Working instructions.

As the basic system described on page 183, with the following variations:

- The audio functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

Notes

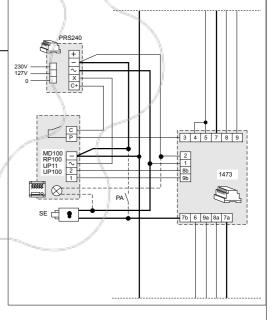
- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning refer to the installation recommendations and table on page 146.

Application diagram

When using MD100, RP100, UP11 and UP100 amplified external door stations as one-way secondary door stations, place this diagram on the diagram on page 161 and line it up with the riser.

Warning.

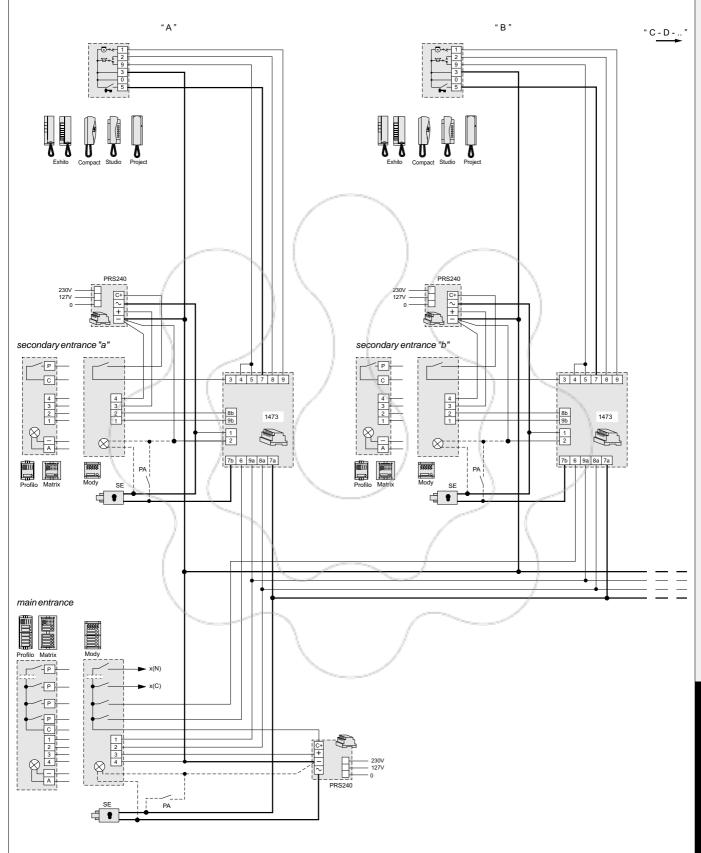
- Cut jumper W1 in the RP100 external door stations.
- In UP series external door stations do not connect and insulate the yellow wire.
- For alternate current wires refer to note 6 of the installation instructions on page 146.







ONE WAY INTERCOM SYSTEM WITH SECONDARY DOOR STATIONS AND 1 MAIN COMMON STATION (multiple entrance)







INTERCOM SYSTEM WITH SECONDARY DOOR STATIONS AND 2 MAIN COMMON STATIONS (multiple entrance)

• EXTERNAL DOOR STATIONS

PROFILO series	MATRIX series	MODY series		
PL71÷PL73 2+X PL81÷PL89 2+X PL91÷PL99 * 2+X PL10P÷PL12P PL21÷PL228 PL20, PL50	MA71÷MA73 2+X MAS61÷MAS63 (1) 2+X MA91÷MA93* 2+X MAS10P÷MAS12P MAS22-MAS24 MAS20	MD71÷MD74 2+X MD81÷MD812 2+X MD91÷MD912 2+X MD10÷MD124 MD21÷MD228 MD20, MD50 2+X MD30		
		21/X IIID30		

• INTERNAL STATIONS

 EX310	Exhito series intercom with 2 call buttons
 EX320	Exhito series modular intercom
 KM810W	Compact series intercom with 1 call button
 ST720W	Studio series modular intercom
 PT510EW	Project series intercom with 1 call button

VARIOUS ARTICLES

2xX	1473	Exchanger
-----	------	-----------

PRS240 Power supply with electronic ringing generator

PRS220 Power supply

2+X PA ** Door release push-button (optional) 2+X SE ** Electric door lock (12VAC-1A)

- Refers to number of users.
- X Refers to the number of stairways.
- (1) Or MA61÷MA63.
- Rain shelters are used instead of back boxes and hood covers.
- Articles not supplied by ACI Farfisa.

Working instructions.

As the basic system described on page 183, with the following variations:

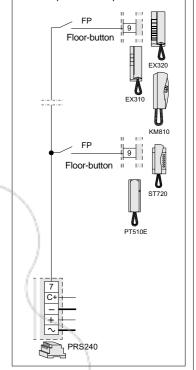
- The audio functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

Notes

- You can also use Prestige and TM push-button panels. For the latter series you must request the version with separate common terminals.
- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning refer to the installation recommendations and table on page 146.

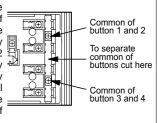


This work diagram allows for differentiating the floor-call from the call from the push-button panel.



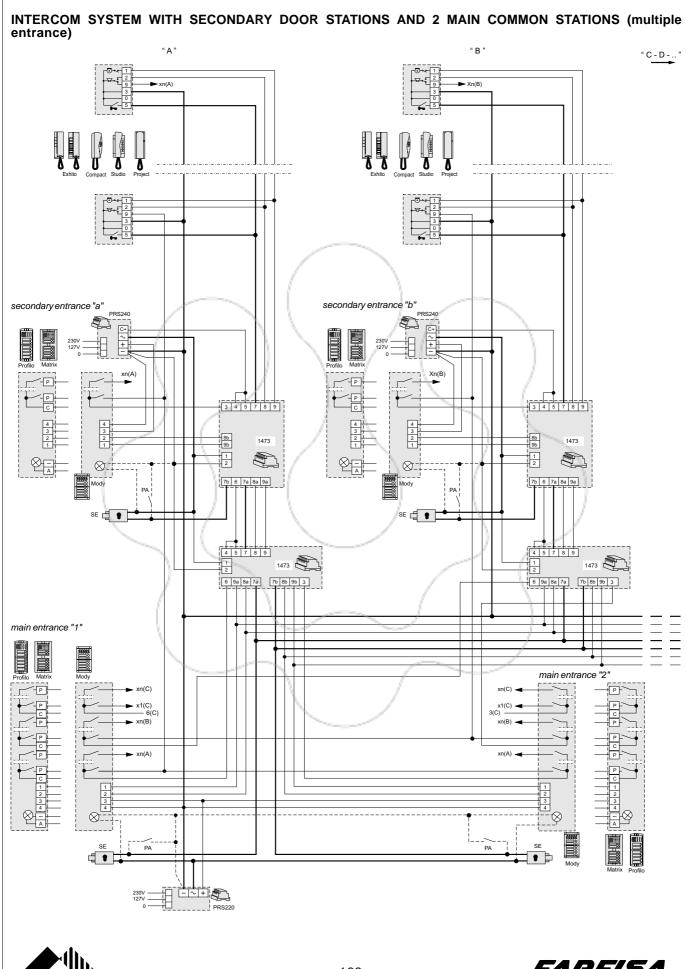
The main entrance push-button panel must have separate common terminals. One common terminal for each secondary door station. The common terminals of push-button's Profilo and Matrix series can be separated only module by module.

In Mody series the common terminals of push-buttons can be separated module by module or every 2 push-buttons by cutting opportunely the common rail which connects the common terminals of push-buttons.









STUDIO series INTERCOMMUNICATING INTERCOMS (2 to 7 users)

Q.ty	Article	Description
	ST 720W ST 701 PRS226E	Studio series modular intercom Single button module Power supply-switcher

... Refers to number of users.

Working instructions. See page 183.

Notes

- Do not forget to connect all terminals C of the additional buttons.
- Do not use KEY button for intercommunication calls (5 terminal).
- For wires dimensioning refer to the installation instructions and table on page 146.

COMPACT series INTERCOMMUNICATING INTERCOMS (max. 2 users)

Q.ty	Article	Description
2	KM810W	Compact series intercom
2	ST 701	Single button module
1	PRS226E	Power supply-switcher

Working instructions. See page 183.

Notes

- Do not use KEY button for intercommunication calls (5 terminal).
- For wires dimensioning refer to the installation instructions and table on page 146.

Si 200L/8

EXHITO series INTERCOMMUNICATING INTERCOMS (2 to 8 users)

Q.ty	Article	Description	
	EX320	Exhito series modular intercom	
	EX301	Single button module	
1	PRS226E	Power supply-switcher	

... Refers to number of users.

Working instructions. See page 183.

Notes

- Do not forget to connect terminals C and the common terminal of all the additional buttons.
- Do not use KEY button for intercommunication calls (5 terminal).
- For wires dimensioning refer to the installation instructions and table on page 146.

EXHITO series INTERCOMMUNICATING INTERCOMS (max. 3 users)

Q.ty	Article	Description
1	EX310 EX301 PRS226E	Exhito series intercom Single button module Power supply-switcher

... Refers to number of users.

Working instructions. See page 183.

Notes

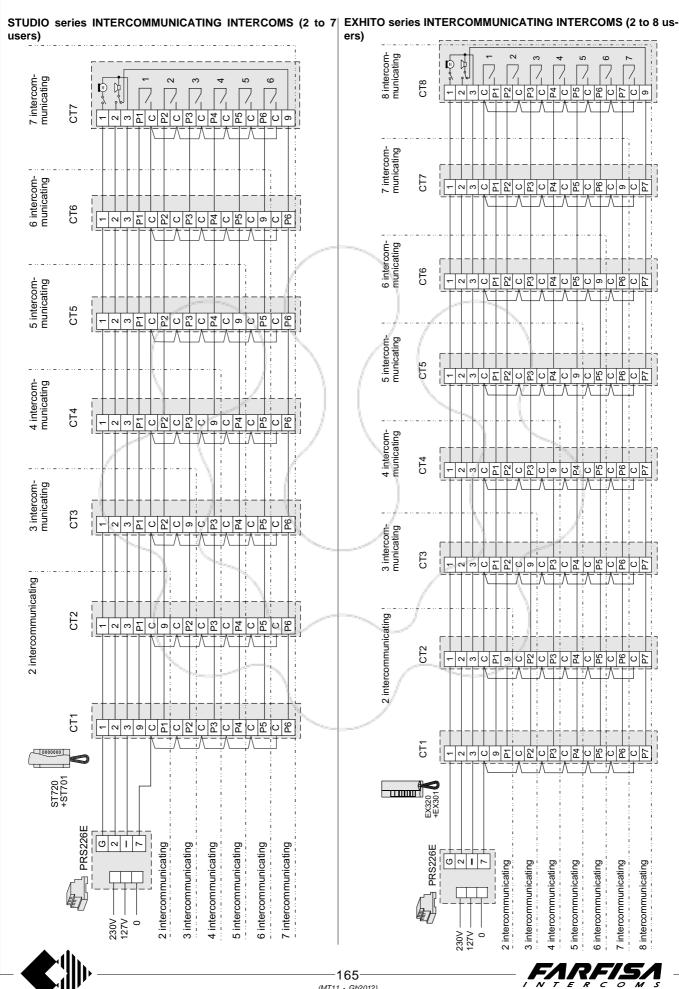
- Do not forget to connect terminals C and the common terminal of the additional button.
- Do not use KEY button for intercommunication calls (5 terminal).
- For wires dimensioning refer to the installation instructions and table on page 146.

Table for choosing intercoms and accessories for the required type of installation

Number of inter-	Exi	nito	Exhito		Studio		Compact	
communicating	EX320	EX301	EX310	EX310 EX301		ST 701	KM810W	ST701
2	2	0	2	0	2	2	2	2
3	3	3	3	3	3	6		
4	4	8			4	12		
5	5	15			5	20		
6	6	24			6	30		
7	7	35			7	42		
8	8	48						







5 INTERCOMMUNICATING INTERCOMS CONNECTED TO 1 EXTERNAL DOOR STATION WITH SINGLE CALLS

• INTERNAL STATIONS

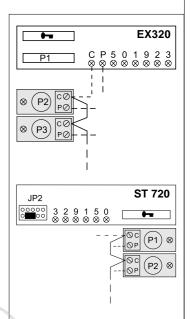
 EXHITO series
 STUDIO series
 COMPACT series

 ...
 EX320
 ...
 EX310
 ...
 ST720W
 ...
 KM810W

 ...
 EX301
 ...
 ST701
 ...
 ST701

• EXTERNAL DOOR STATIONS

PROFILO series		TRIX series	MODY series		
PL71÷PL73 1 PL81÷PL83 1 PL91÷PL93* 1 PL10P÷PL12P PL21÷PL228 PL20-PL50	 1 1 1 	MA71÷MA73 MAS61÷MAS63 (1) MA91÷MA93* MAS10P÷MAS12P MAS22-MAS24 MAS20	 1 1 1 	MD71÷MD73 MD81÷MD83 MD91÷MD93* MD10÷MD124 MD21÷MD228 MD20-MD50 MD30	
				MIDSO	



• VARIOUS ARTICLES

PRS226E Power supply-switcher

1 PA ** Door release push-button (optional)
1 SE ** Electric door lock (12VAC-1A)

- ... Refers to number of users (see table on the bottom of this page). (1) Or MA61÷MA63.
- * Rain shelters are used instead of back boxes and hood covers.

** Articles not supplied by ACI Farfisa.

Working instructions. See page 183.

Notes

- Do not forget to connect terminals C of the additional buttons.
- For the connection of name-plate lamps, read notes 6 and 7 of the installation instructions on page 146.
- For wires dimensioning refer to installation instructions and table on page 146.

Application diagram

When using MD100, MD200, RP200, UP12 and UP200 amplified external door stations (RP and UP series for two-way systems only) place this diagram on the diagram on page 167 and line it up with the riser.

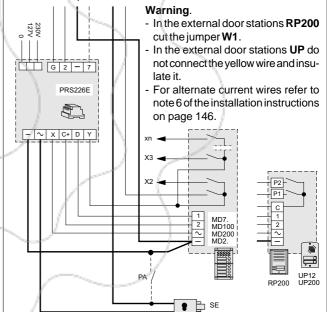


Table for choosing intercoms and accessories for the required type of installation

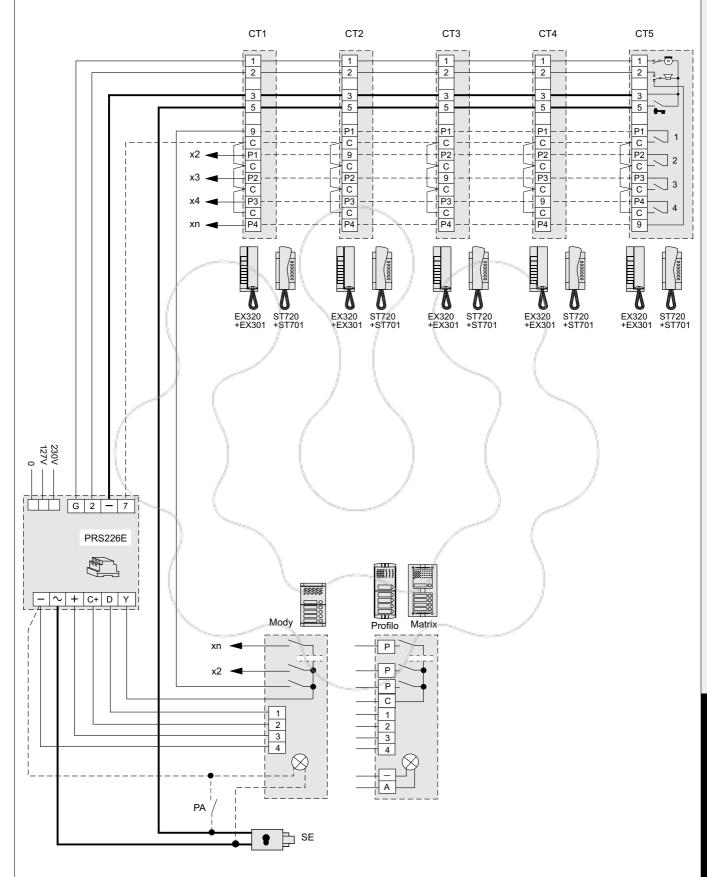
Number of	Exh	ito	Ext	nito	Stud	io	Compact		Application dia-
intercommunicating	EX320	EX301	EX310	EX301	ST720W	ST701	KM810W	ST 701	gram on page:
2	2	0	2	0	2	2	2	2	176
3	3	3	3	3	3	6			176
4	4	8			4	12			176
5	5	15			5	20			167
6	6	24			6	30			177
7	7	35			7	42			177
8	8	48							*

*upon request





5 INTERCOMMUNICATING INTERCOMS CONNECTED TO 1 EXTERNAL DOOR STATION WITH SINGLE CALLS







5 INTERCOMMUNICATING INTERCOMS CONNECTED TO 1 EXTERNAL DOOR STATION WITH COMMON CALL. Call from external door station with alternate current.

• INTERNAL STATIONS

EXHITO series			STUDIO series			COMPACT series		
	EX320		EX310		ST720W		KM810W	
	EX301		EX301		ST701		ST701	
	SR41		SR41		SR41		SR41	

• EXTERNAL DOOR STATIONS

PROFILO series MATRIX series MODY	MODY series		
1 PL71 1 MA71 1 M	MD71		
1 PL81 1 MAS61 (1) 1 M	MD81		
1 PL91 * 1 MA91 * 1 M	MD91 *		
1 PL11P 1 MA11P 1 /	MD11		
1 / 1	MD30		

• VARIOUS ARTICLES

PRS226E Power supply-switcher PA ** Door release push-button (optional) 1

SE ** 1 Electric door lock (12VAC-1A)

... Refers to number of users (see table on the bottom of this page). (1) Or MA61.

- Rain shelters are used instead of back boxes and hood covers.
- Articles not supplied by ACI Farfisa.

Working instructions. See page 183.

Notes

- Do not forget to connect terminals C of the additional buttons and install the **SR41** electronic buzzer in each intercom.
- For the connection of name-plate lamps, read notes 6 and 7 of the installation instructions on page 146.
- For wires dimensioning refer to installation instructions and table on page 146.

Application diagram

When using MD100, RP100, UP11 and UP100 amplified external door stations place this diagram on the diagram on page 169 and line it up with the riser.

JP2

SR4

EX320

ST 720

(P1) ⊗ (P2) ⊗

-

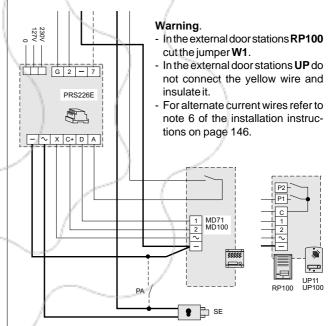


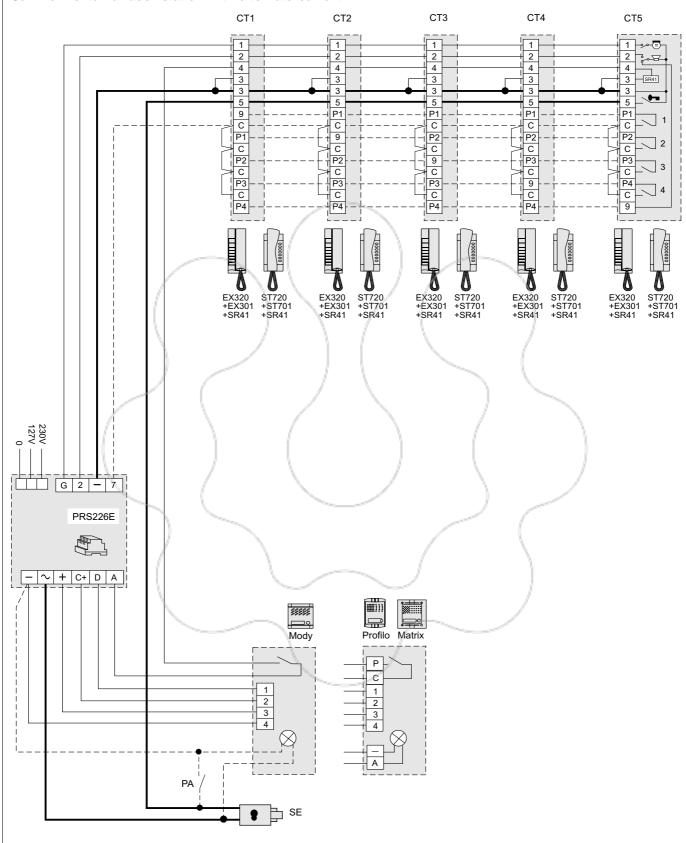
Table for choosing intercoms and accessories for the required type of installation

N. of intercom- Exhito			Exhito			Studio			Compact			Application dia-	
municating	EX320	EX301	SR41	EX310	EX301	SR41	ST720W	ST701	SR41	KM810W	ST 701	SR41	gram on page:
2	2	0	2	2	0	2	2	2	2	2	2	2	178
3	3	3	3	3	3	3	3	6	3				178
4	4	8	4				4	12	4				178
5	5	15	5				5	20	5				169
6	6	24	6				6	30	6				179
7	7	35	7				7	42	7				179
8	8	48	8										*





5 INTERCOMMUNICATING INTERCOMS CONNECTED TO 1 EXTERNAL DOOR STATION WITH COMMON CALL. Call from external door station with alternate current.







5 Intercommunicating intercoms connected to 1 external door station with common call

• INTERNAL STATIONS

 EXHITO series
 STUDIO series

 ... EX320
 ... EX310
 ... ST720W

 ... EX301
 ... EX301
 ... ST701

 ... ST704
 ... ST704
 ... ST704

• EXTERNAL DOOR STATIONS

PR	OFILO series	MA	TRIX series	MO	DY series
1	PL71	1	MA71	1	MD71
1	PL81	1	MAS61 (1)	1	MD81
1	PL91 *	1	MA91 * `´	1	MD91 *
1	PL11P	1	MA11P	1	MD11
				1	/MD30

VARIOUS ARTICLES

PRS226E Power supply-switcher

.. PRS210 Transformer
.. RL 37 Relay module

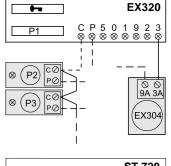
1 PA ** Door release push-button (optional)
1 SE ** Electric door lock (12VAC-1A)

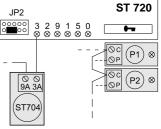
- ... Refers to number of users (see table on the bottom of this page). (1) Or MA61.
- * Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

Working instructions. See page 183.

Notes

- Do not forget to connect terminals C of the additional buttons and install the **EX304** or **ST704** speaker module in every intercom.
- For the connection of name-plate lamps, read notes 6 and 7 of the installation instructions on page 146.
- For wires dimensioning refer to installation instructions and table on page 146.





Application diagram

When using MD100, RP100, UP11 and UP100 amplified external door stations place this diagram on the diagram on page 171 and line it up with the riser.

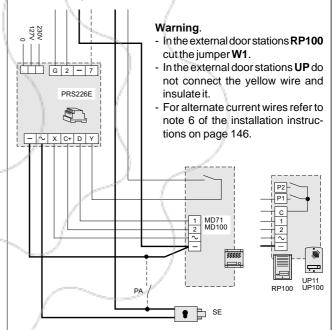


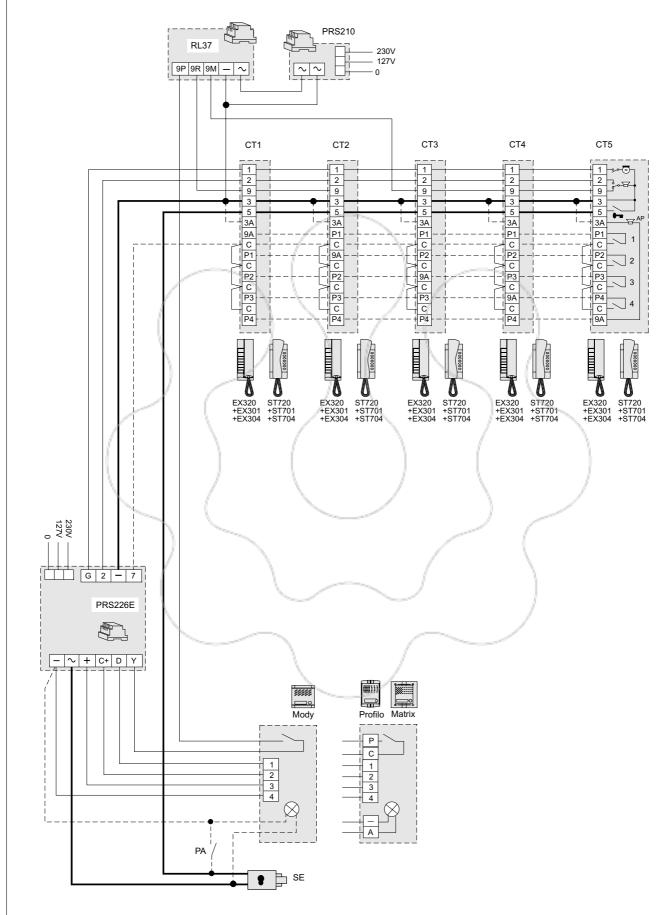
Table for choosing intercoms and accessories for the required type of installation

N. of intercom- Exhito		Exhito			Studio			Accessories		Application dia-		
municating	EX320	EX301	EX304	EX310	EX301	EX304	ST720W	ST701	ST704	RL37	PRS210	gram on page:
2	2	0	2	2	0	2	2	2	2	0	0	180
3	3	3	3	3	3	3	3	6	3	0	0	180
4	4	8	4				4	12	4	1	1	180
5	5	15	5				5	20	5	1	1	171





5 INTERCOMMUNICATING INTERCOMS CONNECTED TO 1 EXTERNAL DOOR STATION WITH COMMON CALL







5 INTERCOMMUNICATING INTERCOMS CONNECTED TO 2 EXTERNAL DOOR STATIONS WITH COMMON CALL

• INTERNAL STATIONS

EX	<u>HITO</u> series	STU	<u>JDIO</u> series	
	EX320	 EX310		ST720W
	EX301	 EX301		ST701
	ST704	 ST704		ST704

• EXTERNAL DOOR STATIONS

PROFILO series	MA	TRIX series	MODY series		
2 PL71	2	MA71	2	MD71	
2 PL81	2	MAS61 (1)	2	MD81	
2 PL91 *	2	MA91 *	2	MD91 *	
2 PL11P	2	MA11P	2	/MD11	
			2	MD30	

VARIOUS ARTICLES

1	PRS226E	Power supply-switcher
1	1473	Exchanger
	PRS210	Transformer
	RL 37	Relay module
2	PA **	Door release push-button (optional)
2	SE **	Electric door lock (12VAC-1A)
		E ANDERSON AND ADDRESS OF THE PROPERTY OF THE

- ... Refers to number of users (see table on the bottom of this page).
- (1) Or MA61.

 * Rain shelt
- Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

Working instructions

As the basic system described on page 183, with the following variations:

 the audio functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.

Notes

- Do not forget to connect terminals C of the additional buttons and install the EX304 or ST704 speaker module in every intercom.
- For the connection of name-plate lamps, read notes 6 and 7 of the installation instructions on page 146.
- For wires dimensioning refer to installation instructions and table on page 146.

Table for choosing intercoms and accessories for the required type of installation

N. of intercom- Exhito		Exhito			Studio			Acce	ssories	Application dia-		
municating	EX320	EX301	EX304	EX310	EX301	EX304	ST720W	ST701	ST704	RL37	PRS210	gram on page:
2	2	0	2	2	0	2	2	2	2	0	0	180
3	3	3	3	3	3	3	3	6	3	0	0	180
4	4	8	4				4	12	4	1	1	180
5	5	15	5				5	20	5	1	1	173





EX320

ST 720

(P1) ⊗

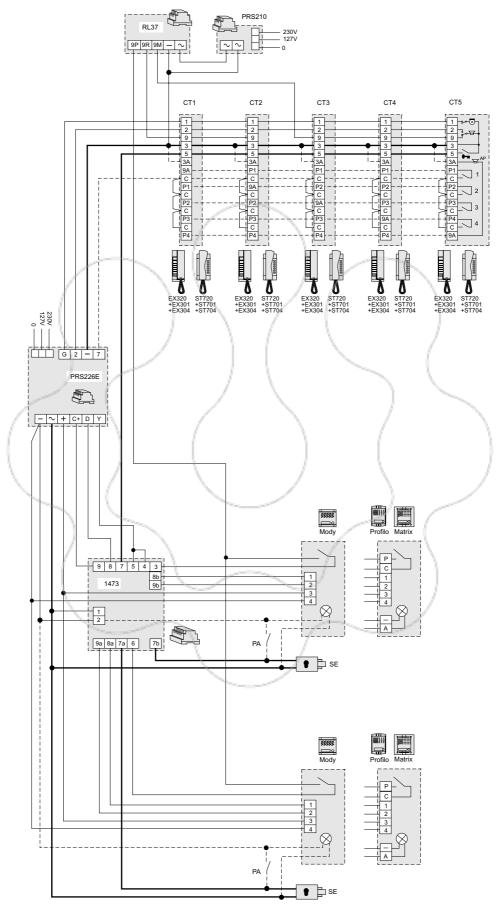
-

JP2

ST704

 $\begin{smallmatrix} 5 & 0 & 1 & 9 & 2 & 3 \\ \otimes & \otimes & \otimes & \otimes & \otimes & \otimes \end{smallmatrix}$

5 INTERCOMMUNICATING INTERCOMS CONNECTED TO 2 EXTERNAL DOOR STATIONS WITH COMMON CALL







ST704

ONE-WAY INTERCOMMUNICATING SYSTEM WITH SECONDARY DOOR STATIONS AND 1 MAIN COMMON STATION (multiple entrance)

• INTERNAL STATIONS

<u>EXHITO</u> series <u>STUDIO</u> series ... EX320 ... EX310 ... ST720W ... EX301 ... EX301 ... ST701

ST704

• Main EXTERNAL DOOR STATIONS

PROFILO series		MA	TRIX series	MO	MODY series		
	PL71÷PL73		MA71÷MA73		MD71÷MD74		
1	PL81÷PL89	1	MAS61÷MAS63 (1)	1	MD81÷MD812		
1	PL91÷PL99 *	1	MA91÷MA93*	1	MD91÷MD912 *		
1	PL10P÷PL12P	1	MAS10P÷MAS12P	1	MD10÷MD124		
	PL21÷PL228		MAS22-MAS24		MD21÷MD228		
	PL20, PL50		MAS20		MD20, MD50		
			/	1	MD30		
	and and EVTERNAL F	2000	TATIONS		1		

ST704

Secondary EXTERNAL DOOR STATIONS

PROFILO series	MATRIX series	MODY series
X PL71	X MA71	X MD71
X PL81	X MAS61 (1)	X MD81
X PL91 *	X MA91*	X MD91 *
X PL11P	X MA11P	X MD11
	-	X MD30

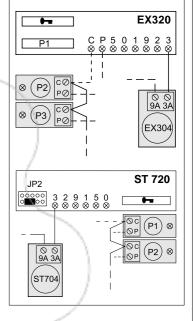
VARIOUS ARTICLES

Χ	PRS226E	Power supply-switcher
1	PRS220	Power supply
Χ	1473	Exchanger
	PRS210	Transformer
	RL 37	Relay module
1+X	PA **	Door release push-button (optional)
1+X	SE **	Flectric door lock (12VAC-1A)

- ... Refers to number of users (see table on the bottom of this page).
- (1) Or MA61÷MA63.
- * Rain shelters are used instead of back boxes and hood covers.
- ** Articles not supplied by ACI Farfisa.

Notes

- Do not forget to connect terminals C of the additional buttons and install the EX304 or ST704 speaker module in every intercom.
- For the connection of name-plate lamps, read notes 6 and 7 of the installation instructions on page 146.
- For wires dimensioning refer to installation instructions and table on page 146.
- The diagram shows 2 and 3 intercommunicating intercoms. In case of a higher number of intercoms see pages 171 and 180.



Working instructions

As the basic system described on page 183, with the following variations:

- the audio functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.
- services to secondary door stations are independent and can be operated at the same time.

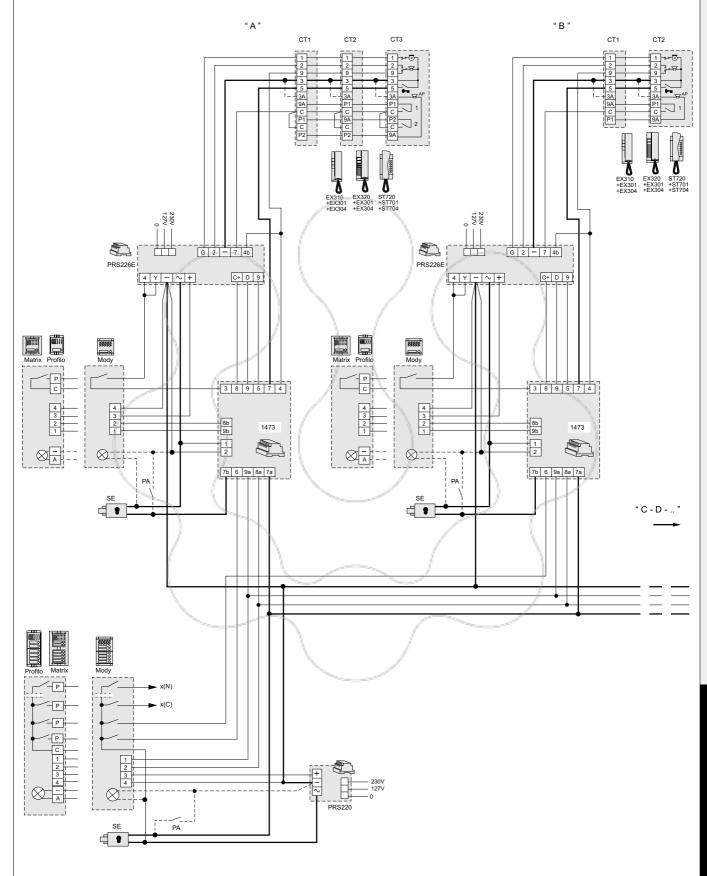
Table for choosing intercoms and accessories for the required type of installation

N. of intercon	 -	Exhito			Exhito			Studio		Acce	ssories	Application dia-
municating	EX320	EX301	EX304	EX310	EX301	EX304	ST720W	ST701	ST704	RL37	PRS210	gram on page:
2	2	0	2	2	0	2	2	2	2	0	0	175
3	3	3	3	3	3	3	3	6	3	0	0	175
4	4	8	4				4	12	4	1	1	180
5	5	15	5				5	20	5	1	1	171





ONE-WAY INTERCOMMUNICATING SYSTEM WITH SECONDARY DOOR STATIONS AND 1 MAIN COMMON STATION (multiple entrance)



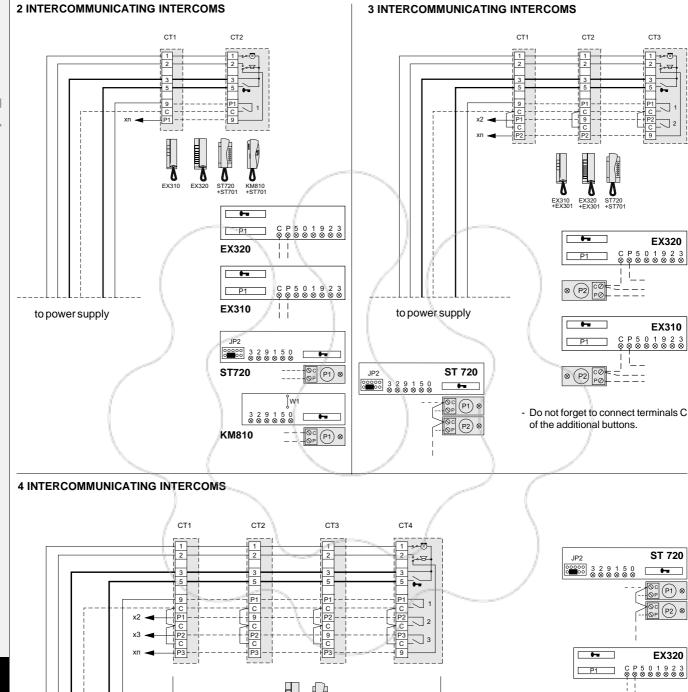


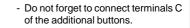


Application diagrams

APPLICATION DIAGRAMS FOR INTERCOMMUNICATING SYSTEM WITH SINGLE CALL FROM EXTERNAL STATION

- To match with diagrams: Si 215L/5



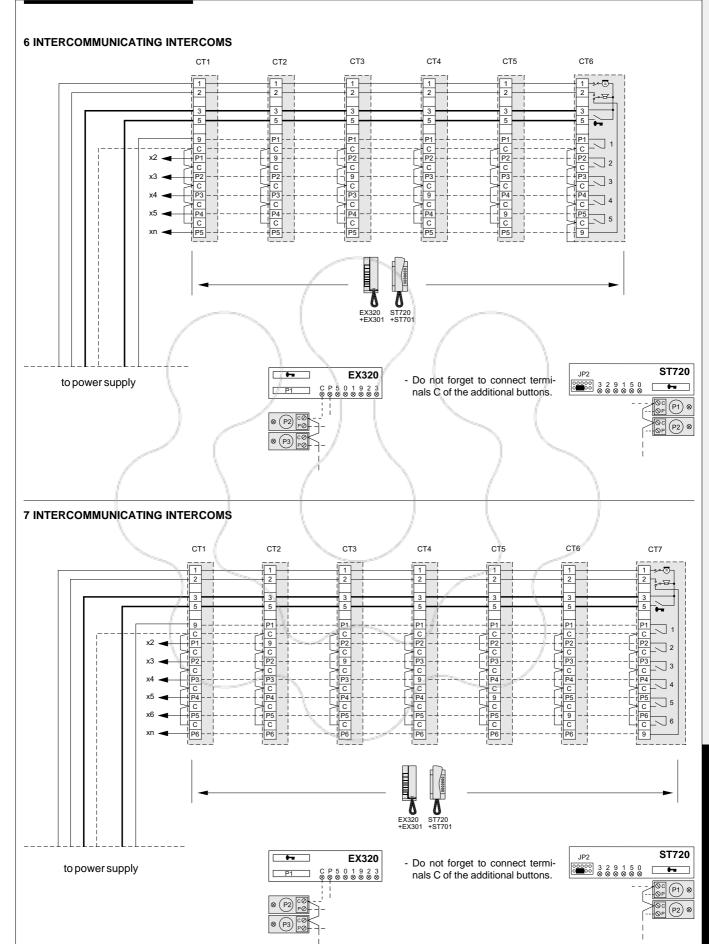




to power supply



FARFIS

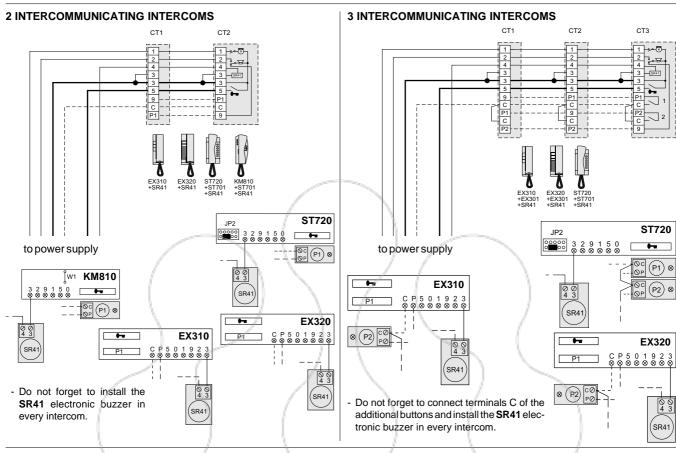




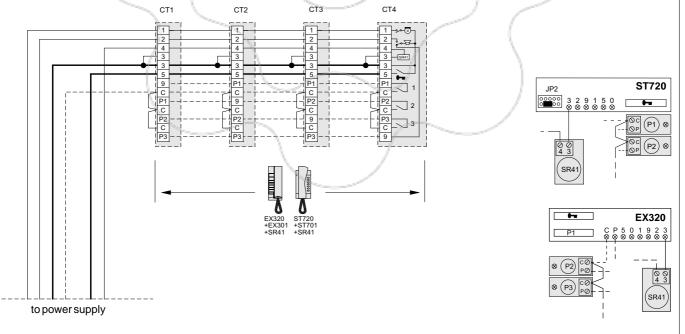
Application diagrams

APPLICATION DIAGRAMS FOR INTERCOMMUNICATING SYSTEMS WITH COMMON ALTERNATE CURRENT CALL FROM EXTERNAL STATION AND ELECTRONIC CALL FOR EXTENSIONS

- To match with diagrams Si 211L/5



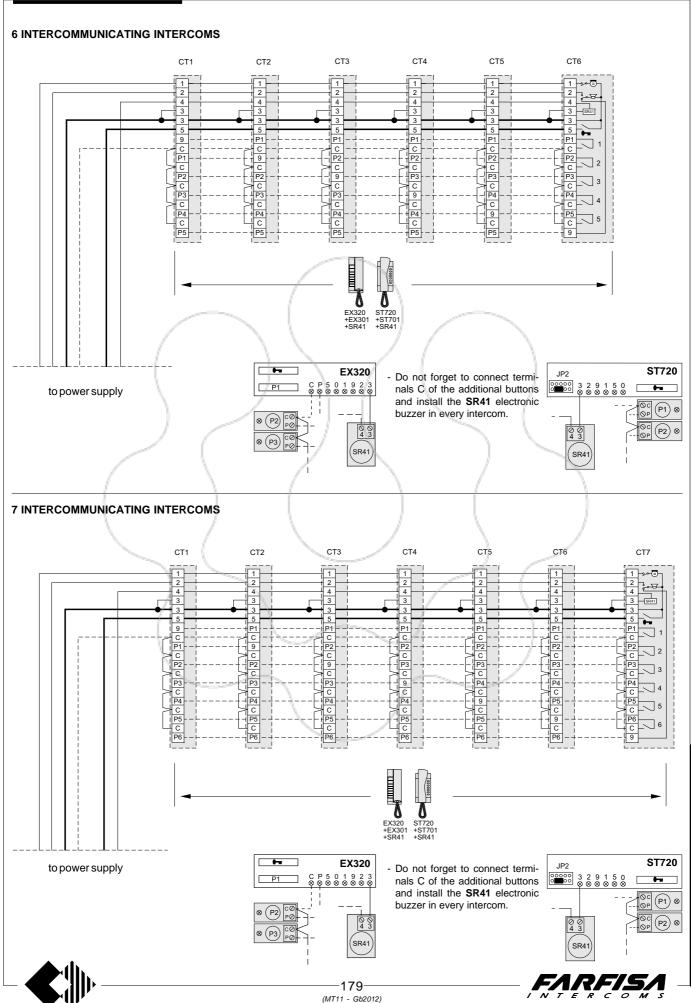
4 INTERCOMMUNICATING INTERCOMS



 Do not forget to connect terminals C of the additional buttons and install the SR41 electronic buzzer in every intercom.

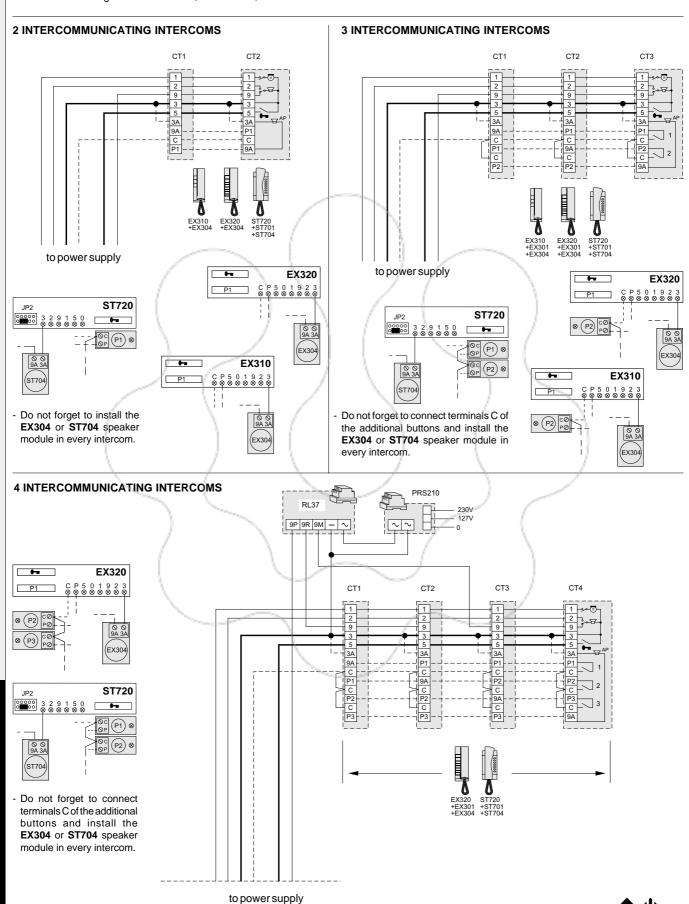






APPLICATION DIAGRAMS FOR INTERCOMMUNICATING SYSTEMS WITH COMMON ELECTRONIC CALL FROM EXTERNAL

STATION AND ELECTRONIC CALL FOR EXTENSIONS
- To match with diagrams: Si 211L/5S; Si 221L/5S; Si261L/1S



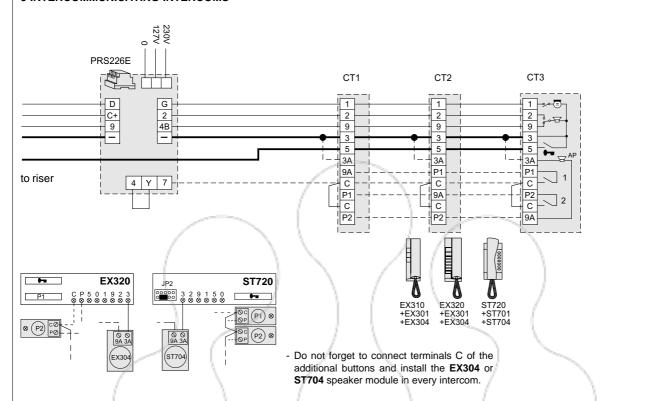




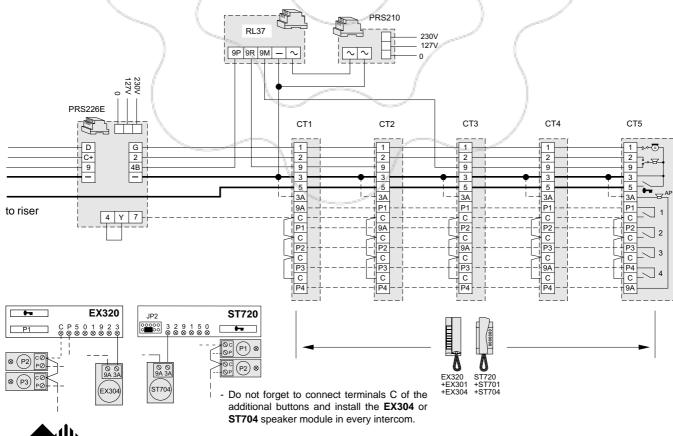
APPLICATION DIAGRAMS FOR ONE-WAY INTERCOMMUNICATING SERVICES IN APARTMENT BUILDING SYSTEMS. ELECTRONIC CALL FROM THE DOOR STATION.

- To match with diagrams: Si 21MO/1; Si 22MO/1; Si 23MO/1; Si 26MO/1; Si 27MO/1.







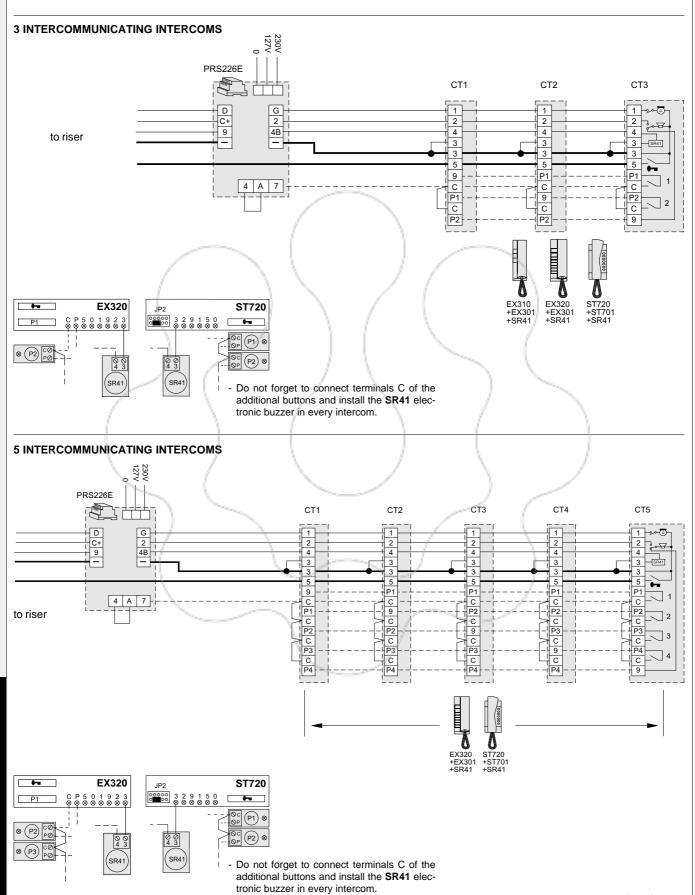




Application diagrams

APPLICATION DIAGRAMS FOR ONE-WAY INTERCOMMUNICATING SERVICES IN APARTMENT BUILDING SYSTEMS. EXTERNAL CALL ON ELECTRONIC BUZZER.

- To match with diagrams: Si 21MO/1; Si 22MO/1; Si 23MO/1; Si 26MO/1; Si 27MO/1.

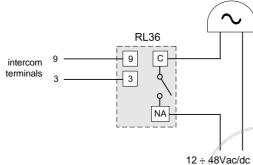


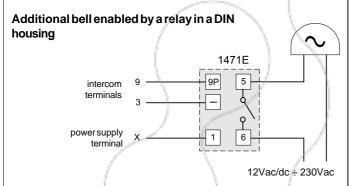


ADDITIONAL BELL

If the ringing volume is not sufficient or if you need to chime the call in a different place, you can add an additional bell enabled by a relay.

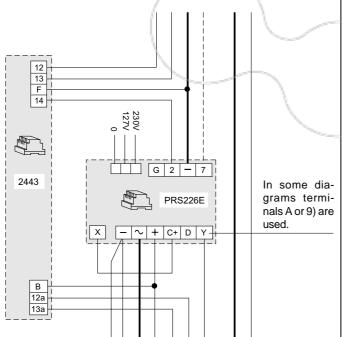
Additional bell enabled by a relay to be installed inside the intercom





ADDITIONAL AUDIO AMPLIFIER

In intercommunicating systems with long distances between intercoms and power supply, to increase the intercommunication audio level, it is advisable to install an amplifier art. **2443** (see page 144 for characteristics). The following diagram can be applied to all intercommunicating systems (from page 167 to page 173).



Basic systems

For all the intercom systems, simply lift the handset to speak to the door station. The call is indicated by a sound signal on the loudspeaker of the handset. If the handset of the intercom is not properly hung-up the sound is not reproduced.

To activate the door release, press the push-button with the key symbol. In systems with two or more entrances the communication and door release are switched automatically on the entrance from which the call is made while the other entrances are isolated.

Systems with private conversation module

In all standard intercom systems (not intercommunicating) a private audio system can be provided (only the intercom which has been called can speak to the door station) by installing the "private conversation module" art. **SM50E** in every intercom.

After the call, the user has about 30 seconds to lift handset and answer. There is no time limit for the private conversation. When the handset is replaced the system returns to the OFF condition. If a user does not replace the handset properly, the next call from another intercom, automatically cuts him out of the audio connection with the door station.

Intercommunicating systems

Intercommunicating systems allow users to speak to one another by simply lifting the handset; any user can join in to a conversation already in progress.

To avoid interference it is necessary to observe the following instructions:

- lift the handset;
- make sure that there is not a conversation already in progress;
- then press the call push-button corresponding to the desired user.

Intercommunicating systems connected to door station

Such systems allow conversation between two or more inside users with the exclusion of the door station, or between one inside user and the door station.

When there is a call from an external push-button panel the audio line of the electric door speaker is activated automatically; when a call is made from one of the intercoms, the internal intercommunicating audio line is automatically activated.

The user called has simply to lift the handset.

Any user can join in to a conversation already in progress.

To avoid interference it is necessary to observe the following instructions:

- lift the handset;
- make sure that there is not a conversation already in progress;
- then press the call push-button corresponding to the desired user. Internal calls have a different sound (continuous tone) from external calls (modulate tone or electronic buzzer).

To actuate the electric door lock you must press the button with the key.





PRELIMINARY CHECKS

- Check for the presence of the mains voltage in the terminals 230Vac (or 127Vac) of the power supply.
- The power supply is not provided with fuses, but it is protected against overloading or short-circuiting by a heat sensor (thermo-
- protector), to restore power, it is necessary to cut OFF the mains voltage for about one minute. Reconnect power after having eliminated the problem.
- Check the voltage output of the power supply (see in detail the values indicated in the power
- supply chapter).
- Check that the cross section of the cables corresponds to what is indicated on page 146 and in the descriptions of each individual diagram.

PROBLEM, REASON AND SOLUTIONS

Nothing at all is working

Absence of main voltage. Short-circuit or overload of the terminals of the power supply output. Faulty power supply.

The lock does not work

Faulty lock. Faulty door release push-button. The cross section of the cables indicated in bold type is insufficient. A connecting cable to the lock has been interrupted. Faulty power supply.

Calls from the door station do not work

The common connection of the push-buttons on the push-button panel has been interrupted. Faulty power supply.

A call to an individual intercom does not work

The connecting wire from the door station to the intercom has been interrupted. The handset has not been replaced correctly (in electronic call systems the ringing sound is reproduced directly by the loudspeaker of the handset which is disconnected when the handset is lifted to avoid ringing sound during the conversation). Faulty intercom.

No audio from both channels

Absence of power between $\bf 3$ (+) and $\bf 4$ (-) of the electric door-speaker (6÷8Vdc). Short-circuit between + and - of the power supply. Faulty power supply.

No audio from the intercoms to door sta-

Connection 1 from the intercoms to the electric door-speaker has been interrupted or short-circuited. There is no ground connection to terminal 4 of the electric door-speaker (amplifier). Faulty electric door-speaker (amplifier).

No audio from the door station to the intercoms

Connection 2 from the intercoms to the electric door-speaker (amplifier) has been interrupted or short-circuited. Faulty electric door-speaker (amplifier).

Audio with humming in the background (50/60Hz)

The wires have been canalized together with the cables that power AC loads. Wrong connections or under dimensioned cross-section of wires (see recommendation and table on page 35). Faulty power supply.

A whistle is heard at the external door station (Larsen effect)

The electric door-speaker (amplifier) is badly housed in the push-button panel. The microphone hole of the external door station might be clogged. Lower the volume.

Radio reception on the door station

The defect can occur when there is a transmitter working in the proximity. Apply a capacitor from $0.1\mu F$ between terminals 1 and 3 of the electric door speaker (amplifier).

INTERCOMMUNICATING SYSTEMS

No audio in both channels. Intercommunicating service is not working

Short-circuit between + and - of the power supply. Faulty power supply.

Calls from the door station work. No audio in both channels. Intercommunicating service is working

No power supply between **3** (+) and **4** (-) of the electric door-speaker (8Vdc). Faulty power supply.

No audio from the intercoms to the door station

The connection between 1 of the intercoms and G of the power supply has been interrupted. The connection between D of the power supply and 1 of the electric door-speaker (amplifier) has been interrupted. Faulty electric doorspeaker (amplifier). Faulty power supply.

No audio from the door station to the intercoms

The connection between 2 of the intercoms and 2 of the power supply has been interrupted. The connection between C+ of the power supply and 2 of the electric door-speaker (amplifier) has been interrupted. Faulty electric doorspeaker (amplifier). Faulty power supply.

The intercommunicating calls work, but the door station is still connected Faulty power supply.

The intercommunicating calls do not work Check that cable **7** is connected to **7** of the power supply. Faulty power supply.

No audio in the intercommunicating service

Faulty power supply.

SYSTEM WITH MORE ENTRANCES

Entrance A is never activated

Short-circuit between **5** and **6** of the exchanger. Faulty exchanger.

Entrance B is never activated

Short-circuit between 3 and 4 of the exchanger. Faulty exchanger. No power supply to 1 and 2 of the exchanger (13Vac).





Installation diagrams

INDEX	
Basic install	ation diagrams
Si 4110/1	One-way video intercom system connected to one external door station (coaxial cable)
Si 4110/2	One-way video intercom system connected to one external door station (twisted pair)
Si 4110/3	One-way video intercom system with long distance between video intercom and main power supply (coaxial cable)
Si 41MO/1	Video intercom system connected to one external door station (coaxial cable)
Si 41MO/2	Video intercom system connected to one external door station (twisted pair)
Si 41MO/3	Mixed intercom and video intercom system connected to one external door station (coaxial cable)
Si 41MO/5	Video intercom system connected to one external door station with surveillance camera (coaxial cable)
Si 42MO/1	Video intercom system connected to two external door stations (coaxial cable)
Si 42MO/2	Video intercom system connected to two external door stations (twisted pair)
Si 42MO/3	Video intercom system connected to two external door stations, one of which only audio (coaxial cable)
Si 43MO/1	Video intercom system connected to three external door stations (coaxial cable)
Si 46MO/1	Video intercom system with secondary video stations and 1 main common video station (coaxial cable)
Si 46MO/2	Video intercom system with secondary video stations and 1 main common video station (twisted pair)
Si 46MO/3	Video intercom system with secondary door stations only audio and 1 main common video station (coaxial cable)
Si 46MO/5	Video intercom system with secondary video stations and 1 main common station only audio (coaxial cable)
Si 46MO/7	Video intercom system with one-way secondary door stations only audio and 1 main common video station (coaxial cable)
Si 46MO/8	Video intercom system with one-way secondary door stations only audio and 1 main common video station (twisted pair)
Si 47MO/1	Video intercom system with secondary video stations and 2 main common video stations (coaxial cable)
Norking ins	tructions
roublesho	oting
dditional d	iagrams
floor call	\ /
additional d	iagrams for Echos series
additional d	iagrams for Compact series
additional u	agrams for one-way Exhito series
	agrams to one-way Extrito series
additional di	agrams for multi-way Exhito series
additional di additional di	





ONE-WAY VIDEO INTERCOM SYSTEM CONNECTED TO ONE EXTERNAL DOOR STATION. Video connection with coaxial cable.

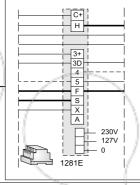
• INTERNAL STATIONS

ECHOS series		EX	EXHITO series		COMPACT series		STUDIO series	
1	EH9100CT/CW EH9160CT/CW	1	EX3100C EX3160C	1	KM8100W KM8600W	1	ST7100CW ST7100W	
1	9083		EX3160		KM8800W	1	ST720W	
1	WA9100T/W	1	WB3160	1	WB8600	1	WB7100	
1	TA9160	1	TA3160	1	8083	1	WB700	
						1	TA7100	
						1	TA700	

• EXTERNAL DOOR STATIONS

PROFILO series		MA ⁻	TRIX series	MODY series		
 1 1	. PL71 PL81 PL91 * PL41PC-PL41P	 1 1	MA71 MAS61 (1) MA91 * MAS43C-MAS43	1 1 1	MD72 MD82 MD92 * MD11 MD41 MD30	
•	VARIOUS ARTICLES		A CONTRACTOR OF THE PARTY OF TH		INIDO	

Connection of 1281E power supply-timer instead of 1281 plus 1282E.



By adding **1281E** to the schematics on pages 186 and 187 (si411O/1, si411O/2 and si411O/3) instead of 1281 plus 1282E, the installation will be switched OFF at the end of the timing only.

1	1281	Powersupply
1	1282E	Timer

1 PA ** Door release button (optional)
1 SE ** Electric door lock (12Vac-1A)

(1) Or MA61.

- * The rain shelter is used in the place of the back box and hood cover.
- ** Articles not supplied by ACI Farfisa.

Working instructions. See page 218.

Notes

- If the control switching ON is necessary, connect terminal 4 of the timer (dashed wire).
- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For the connection of name plate lamps read notes 6 and 7 of the installation instructions on page 146.
- For wires dimensioning refer to the installation instructions and table on page 146.

1304. MULTI-CORE CABLE

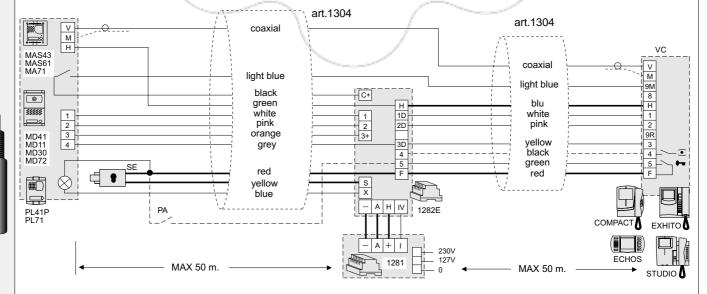
Video intercom cable with 10 wires of different cross-sections and 75Ω coaxial cable. It can be used in systems with a maximum distance of 100 meters (50m between timer and camera unit and 50m between timer and video intercom).



Wire characteristics

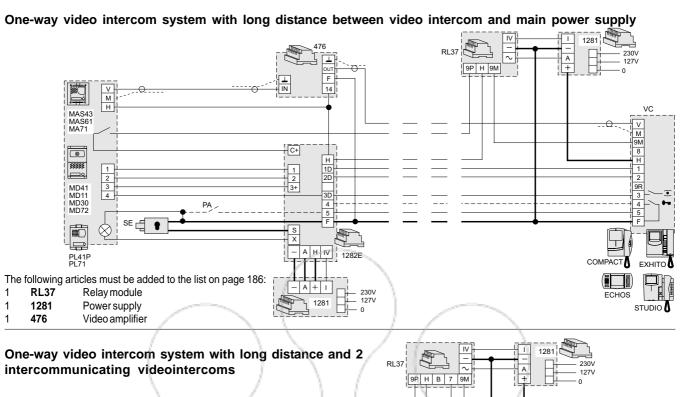
Colour	Cross-s	section	1	and the same of th	
The state of the s	(mm²)	AWG			
Red	1	16	White	0.25	23
Yellow	0.5	20	Pink	0.25	23
Blue	0.5	20	Light blue	0.25	23
Black	0.35	21	Grev	0.25	23
Green	0.35	21	75Ω low los	s coaxia	l cable.
Orange	0.35	21	, , , , , , , , , , , , , , , , , , , ,		

ONE-WAY VIDEO INTERCOM CONNECTION WITH MULTI-CORE CABLE art. 1304







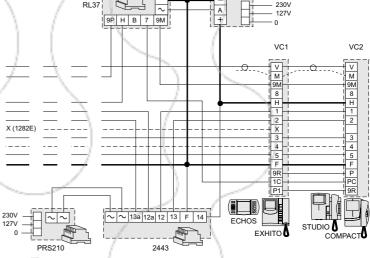


The following articles must be added to the list on page 186:

- RL37 Relay module
- 1 1281 Power supply1 476 Video amplifier
- 1 2443 Amplifier-switcherforintercommunicating
- PRS210 Transformer

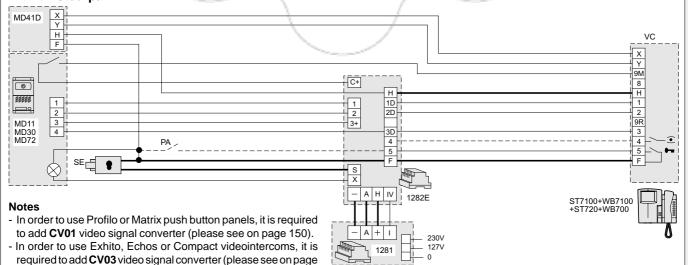
Notes

- On brackets the jumper J1 must be moved from position 2-3 to 1-2.
- On the bracket of the first video intercom (VC1) you must ${\bf cut}$ the 75 Ω resistance.
- To have the intercommunicating service with the **Echos** series it is necessary: -use model **EH9160**; move jumper **J5** from position **2-3** to **1-2**; make the "X" connection between art. **1282E** and the 2 videointercoms **EH9160**.



Si 4110/2

ONE-WAY VIDEO INTERCOM SYSTEM CONNECTED TO ONE EXTERNAL DOOR STATION. Video connection with twisted pair







VIDEO INTERCOM SYSTEM CONNECTED TO ONE EXTERNAL DOOR STATION

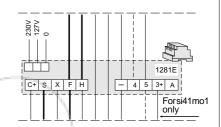
• INTERNAL STATIONS

ECI	HOS series	EXI	HITO series	COL	<u>MPACT</u> series	STU	JDIO series
	EH9100CT/CW		EX3100C		KM8100W		ST7100CW
	EH9160CT/CW		EX3160C		KM8600W		ST7100W
	9083		EX3160		KM8800W		ST720W
l	WA9100T/W		WB3160		WB8600		WB7100
l	TA9160		TA3160		8083		WB700
							TA7100
							TA700

• EXTERNAL DOOR STATIONS

PRO	FILO series	MAT	RIX series	MOD	<u>Y</u> series
	PL71÷PL73		MA71÷MA73		MD72÷MD74
1	PL81÷PL89		MAS61÷MAS63 (1)	1	MD82÷MD812
1	PL91÷PL99 *	1	MA91÷MA93*	1	MD92÷MD912 *
1	PL40PC÷PL42PC	1	MAS42C-MAS43C	1	MD10÷MD124
	PL40P÷PL42P		MAS42-MAS43	/1	MD41
	PL21÷PL228		MAS22-MAS24	/ 1	MD30
	PL20, PL50		MAS20		MD21÷MD228
	, ==	and the same of th		\	MD20, MD50

Connection of 1281E power supply-timer instead of 1281 plus 1282E.



By adding **1281E** to the schematics on pages 188 and 189 instead of 1281 plus 1282E, the system working will modify as follows:

- switching-OFF at the end of the timing only
- no control switch-ON interruption with the video intercoms during external audio-video connection. If the service is necessary, add 1471 relay in order to interrupt conductor 4.

VARIOUS ARTICLES

	DV2-DV4	Video distributors
1	1281	Power supply
1	1282E	Timer
1	PA **	Door release button (optional)
1	SE **	Electric door lock (12Vac-1A)

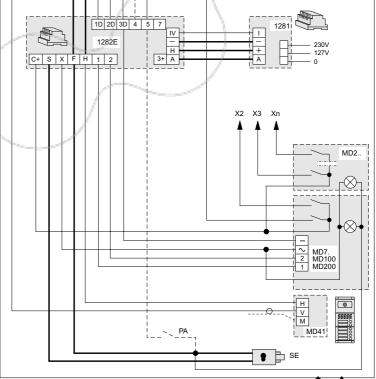
- ... Refers to number of users.
- (1) Or MA61÷MA63.
- * The rain shelter is used in the place of the back box and hood cover.
- ** Articles not supplied by ACI Farfisa.

Working instructions. See page 218.

Notes

- If the control switching ON is necessary, connect terminal 4 of the timer (dashed wire).
- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For the connection of name plate lamps read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 146÷148.
- For one-way systems connect the coaxial cable to the monitor bracket directly, without using the video distributor.
- For other types of push-button panels see the general catalogue.

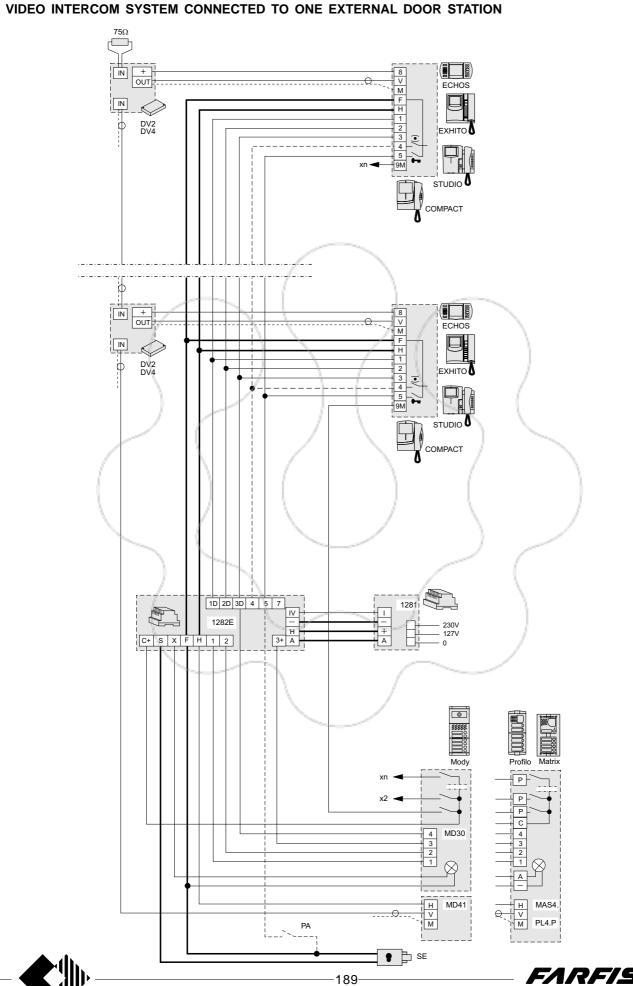
When using **MD100** and **MD200** amplified external door stations, it is advisable to place this diagram on the diagram of page 189 and line it up with the riser. For AC powered wires refer to the indications on page 146.











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• INTERNAL STATIONS

ECHOS series		EXHITO series		COMPACT series		STUDIO series	
	EH9100CT/CW EH9160CT/CW		EX3100C EX3160C		KM8100W KM8600W		ST7100CW ST7100W
	9083		EX3160		KM8800W		ST720W
	WA9100T/W		WB3160		WB8600		WB7100
	TA9160		TA3160		8083		WB700
	CV03		CV03		CV03		TA7100
							TA700

VIDEO INTERCOM SYSTEM CONNECTED TO ONE EXTERNAL DOOR STATION

• EXTERNAL DOOR STATIONS

PR	<u>OFILO</u> series	MA [*]	TRIX series	MOD	<u>Y</u> series
l	PL71÷PL73		MA71÷MA73		MD72÷MD74
1	PL81÷PL89		MAS61÷MAS63 (1)	1	MD82÷MD812
1	PL91÷PL99 *	1	MA91÷MA93*	1	MD92÷MD912 *
1	PL40PC÷PL42PC	1	MAS42C-MAS43C	1	MD10÷MD124
	PL40P÷PL42P		MAS42-MAS43	1	MD41D
1	CV01	1	CV01	/1	MD30
	PL21÷PL228		MAS22-MAS24	/	MD21÷MD228
l	PL20, PL50		MAS20		MD20, MD50
	•	100		1	/

VARIOUS ARTICLES

	DV2D-DV4D	Video distributors
1	1281	Power supply
1	1282E	Timer
		- Nr 1 11

PA ** Door release button (optional)
SE ** Electric door lock (12Vac-1A)

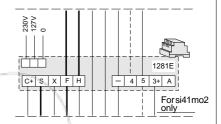
- ... Refers to number of users.
- (1) Or MA61÷MA63.
- * The rain shelter is used in the place of the back box and hood cover.
- ** Articles not supplied by ACI Farfisa.

Working instructions. See page 218.

Notes

- If the control switching ON is necessary, connect terminal 4 of the timer (dashed wire).
- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For one-way systems connect the twisted pair to the monitor bracket directly, without using the video distributor.
- For the connection of name plate lamps read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 146 and 149.
- For other types of push-button panels see the general catalogue.

Connection of 1281E power supply-timer instead of 1281 plus 1282E.

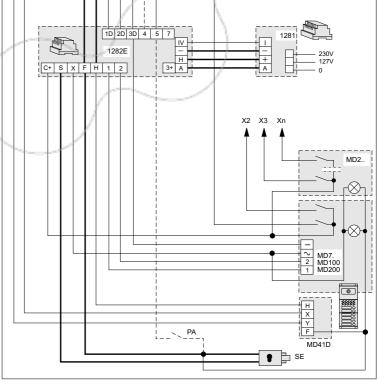


By adding **1281E** to the schematics on pages 190 and 191 instead of 1281 plus 1282E, the system working will modify as follows:

- switching-OFF at the end of the timing only
- no control switch-ON interruption with the video intercoms during external audio-video connection. If the service is necessary, add 1471 relay in order to interrupt conductor 4.

When using **MD100** and **MD200** amplified external door stations, it is advisable to place this diagram on the diagram of page 191 and line it up with the riser.

For AC powered wires refer to the indications on page 146.

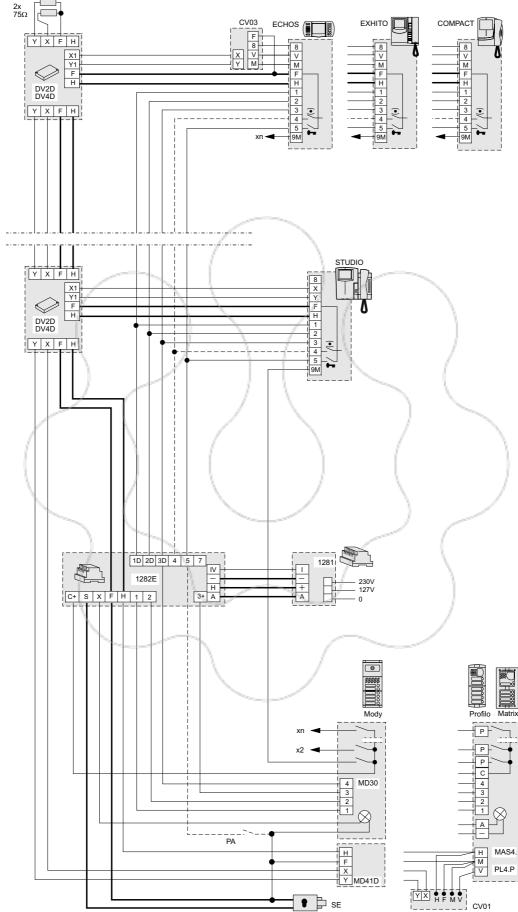
















MIXED INTERCOM AND VIDEO INTERCOM SYSTEM CONNECTED TO ONE EXTERNAL DOOR STATION

VIDEOINTERCOMS

ECH	IOS series	EXI	IITO series	CON	MPACT series	STU	DIO series
	EH9100CT/CW EH9160CT/CW 9083 WA9100T/W TA9160		EX3100C EX3160C EX3160 WB3160 TA3160		KM8100W KM8600W KM8800W WB8600 8083		ST7100CW ST7100W ST720W WB7100 WB700 TA7100
							TA700

• INTERCOMS

<u>EXHI</u>	TO series	EXHI	TO series	COMI	PACT series	STUE	OIO series
	EX310		EX320		KM810W		ST720W
	SM50E		SM50E		SM50E		SM50E

• EXTERNAL DOOR STATIONS

PROFILO series		MAT	RIX series	MODY series		
 1	PL71÷PL73 PL81÷PL89		MA71÷MA73 MAS61÷MAS63 (1)	 1	MD72÷MD74 MD82÷MD812	
1	PL91÷PL99 *	1	MA91÷MA93*	\1	MD92÷MD912 *	
1	PL40PC÷PL42PC PL40P÷PL42P	1/	MAS42C-MAS43C MAS42-MAS43	1	MD10÷MD124 MD41	
	PL21÷PL228	Ĺ	MAS22-MAS24	1	MD30 /	
	PL20, PL50	t	MAS20	\	MD21÷MD228 MD20, MD50	

• VARIOUS ARTICLES

	DV2-DV4	Video distributors
1	1281	Power supply
1	1282E	Timer
1	PA **	Door release button (optional)
1	SE **	Electric door lock (12Vac-1A)

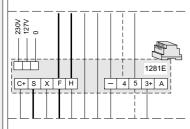
- ... Refers to number of users.
- (1) Or MA61÷MA63.
- The rain shelter is used in the place of the back box and hood cover.
- ** Articles not supplied by ACI Farfisa.

Working instructions. See page 218.

Notes

- If the control switching ON is necessary, connect terminal 4 of the timer (dashed wire).
- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For one-way systems connect the coaxial cable to the monitor bracket directly, without using the video distributor.
- For the connection of name plate lamps read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 146÷148.
- For other types of push-button panels see the general catalogue.
- By using **MD100** and **MD200** amplified external door stations, we recommend to place schematic on page 188 on the other on page 193.

Connection of 1281E power supply-timer instead of 1281 plus 1282E.



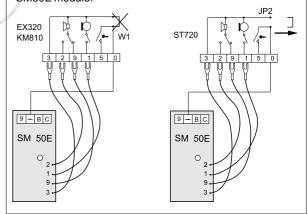
By adding **1281E** to the schematics on page 193 instead of 1281 plus 1282E, the system working will modify as follows:

- switching-OFF at the end of the timing only
- no control switch-ON interruption with the video intercoms during external audio-video connection. If the service is necessary, add 1471 relay in order to interrupt conductor 4.

Private conversation

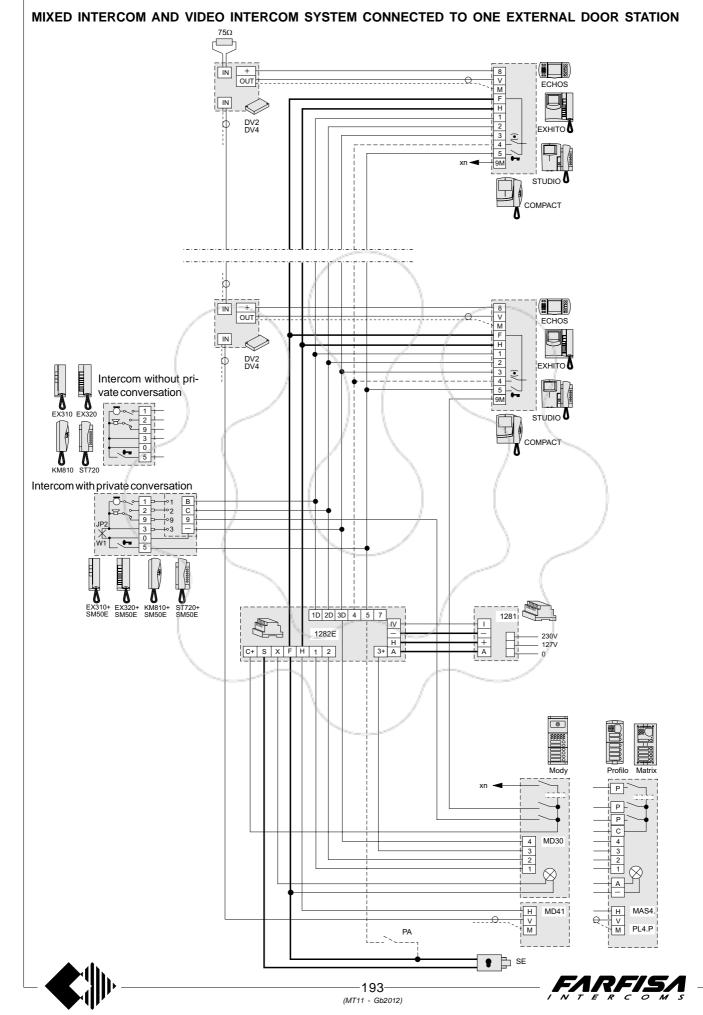
All the videointercoms have the privacy function which allows only the called videointercom to talk with the door station. To guarantee the same function to the user with a simple intercom device it is necessary to install inside the intercom the privacy module **SM50E** and:

- (ST 720) remove the mobile jumper inside the connector JP2
- -(EX310, EX320 and KM 810) cut the jumper W1
- connect terminal 0 of the intercom to terminal (minus) of the SM50E module.











VIDEO INTERCOM SYSTEM CONNECTED TO ONE EXTERNAL DOOR STATION WITH SURVEILLANCE CAMERA

• INTERNAL STATIONS

ECHOS series EXHITO series		IITO series	COMPACT series		STU	STUDIO series	
	EH9100CT/CW EH9160CT/CW 9083		EX3100C EX3160C EX3160		KM8100W KM8600W KM8800W		ST7100CW ST7100W ST720W
	WA9100T/W TA9160		WB3160 TA3160		WB8600 8083		WB7100 WB700 TA7100 TA700

• EXTERNAL DOOR STATIONS

PRO	OFILO series	MAT	RIX series	MOE	<u>OY</u> series
	PL71÷PL73		MA71÷MA73		MD72÷MD74
1	PL81÷PL89		MAS61÷MAS63 (1)	1	MD82÷MD812
1	PL91÷PL99 *	1	MA91÷MA93*	1 🚁	MD92÷MD912 *
1	PL10P÷PL12P	1	MAS10P÷MAS12P	1	MD10÷MD124
	PL21÷PL228		MAS22-MAS24	/1	MD30
	PL20, PL50		MAS20	/	MD21÷MD228
			And the second		MD20, MD50

• VARIOUS ARTICLES

	DV2-DV	4 Video distributors
1	1281	Power supply
1	1282E	Timer
1	1471	Relayunit
1	TVT	CCTV camera

H... Lens with or without autoiris
CU... Outdoor heated housing
AST... Bracket for camera or housing
APS... Power supply for camera

1 **LL**** Lamp with maximum power 800W (optional)

1 PA ** Door release button (optional)
1 SE ** Electric door lock (12Vac-1A)

... Refers to number of users.

(1) Or MA61÷MA63.

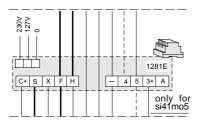
- * The rain shelter is used in the place of the back box and hood cover.
- ** Articles not supplied by ACI Farfisa.

Working instructions. See page 218.

Notes

- If the control switching ON is necessary, connect terminal 4 of the timer (dashed wire).
- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For the connection of name plate lamps read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 146÷148.
- For one-way systems connect the coaxial cable to the monitor bracket directly, without using the video distributor.
- For the selection of CCTV equipment or other types of pushbutton panels see the general catalogue.

Connection of 1281E power supply-timer instead of 1281 plus 1282E.

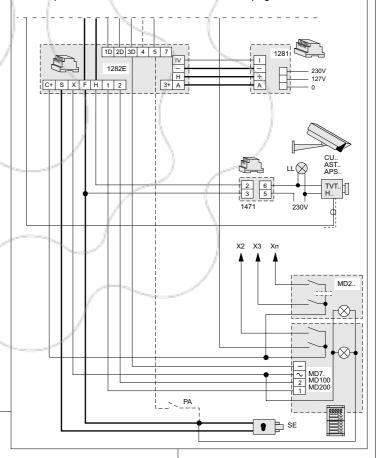


By adding **1281E** to the schematics on pages 194 and 195 instead of 1281 plus 1282E, the system working will modify as follows:

- switching-OFF at the end of the timing only
- no control switch-ON interruption with the video intercoms during external audio-video connection. If the service is necessary, add 1471 relay in order to interrupt conductor 4.

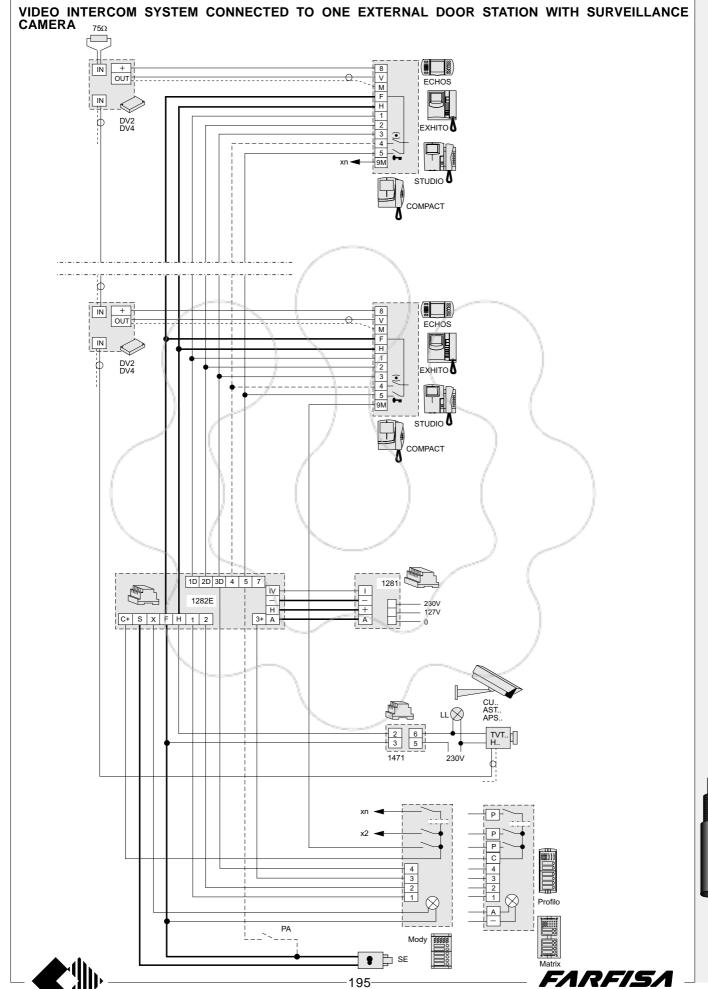
When using **MD100** and **MD200** amplified external door stations, it is advisable to place this diagram on the diagram of page 195 and line it up with the riser.

For AC powered wires refer to the indications on page 146.









(MT11 - Gb2012)

VIDEO INTERCOM SYSTEM CONNECTED TO TWO EXTERNAL DOOR STATIONS

• INTERNAL STATIONS

EC	HOS series	EXHITO serie	es <u>CC</u>	MPACT series	<u>STU</u>	DIO series
	EH9100CT/CW EH9160CT/CW 9083 WA9100T/W	EX310 EX316 EX316	0C 0	KM8100W KM8600W KM8800W		ST7100CW ST7100W ST720W WB7100
	TA9160	WB316	-	WB8600 8083		WB7100 WB700
						TA7100 TA700

• EXTERNAL DOOR STATIONS

PROFILO series		MA	MATRIX series		MODY series		
	PL71÷PL73		MA71÷MA73		MD72÷MD74		
2	PL81÷PL89		MAS61÷MAS63 (1)	2	MD82÷MD812		
2	PL91÷PL99 *	2	MA91÷MA93*	2	MD92÷MD912 *		
2	PL40PC÷PL42PC	2	MAS42C-MAS43C	2	MD10÷MD124		
	PL40P÷PL42P		MAS42-MAS43	2	MD41		
	PL21÷PL228		MAS22-MAS24	/2	MD30		
	PL20, PL50		MAS20	/	MD21÷MD228		
			And the same of th		MD20, MD50		

VARIOUS ARTICLES

	DV2-DV4	Video distributors
1	1281	Power supply
1	1282E	Timer
1	1273TV	Exchanger
2	PA **	Door release button (optional)
2	SE **	Electric door lock (12Vac-1A)

... Refers to number of users.

- (1) Or MA61÷MA63.
- * The rain shelter is used in the place of the back box and hood cover.
- ** Articles not supplied by ACI Farfisa.

Working instructions.

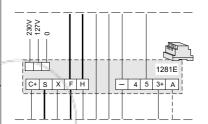
As the basic system described on page 218, with the following variations:

 The audio-video functions and door lock opening are automatically switched to the door station which has made the call (or control switching ON) and remain in this state until a call from another entrance is received.

Notes

- If monitoring function is required it is necessary to connect the dashed conductors and:
- Echos series verify that jumper J5, located on the back of videointercom, is in the position 2-3:
- Exhito series (possibility of monitoring only the "a" entrance);
- Compact series connect together terminals 1C and PC on the wall bracket;
- Studio series connect together terminals 1C and PC on the wall bracket.
- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For the connection of name plate lamps read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 146÷148.
- For one-way systems connect the coaxial cable to the monitor bracket directly, without using the video distributor.
- For other types of push-button panels see the general catalogue.

Connection of 1281E power supply-timer instead of 1281 plus 1282E.

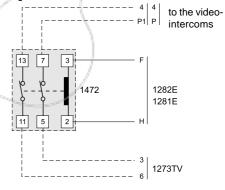


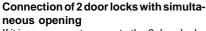
By adding **1281E** to the schematics on page 197 instead of 1281 plus 1282E, the system working will modify as follows:

- switching-OFF at the end of the timing only.

Control switching ON deactivation

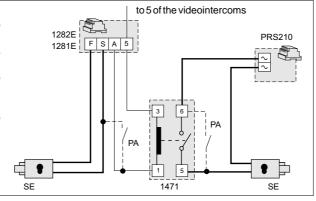
To deactivate the monitoring function during the conversation and to keep it only when the system is in standby, it is necessary to install a 2-exchange relay (type **1472**) and connect it as shown on the diagram.





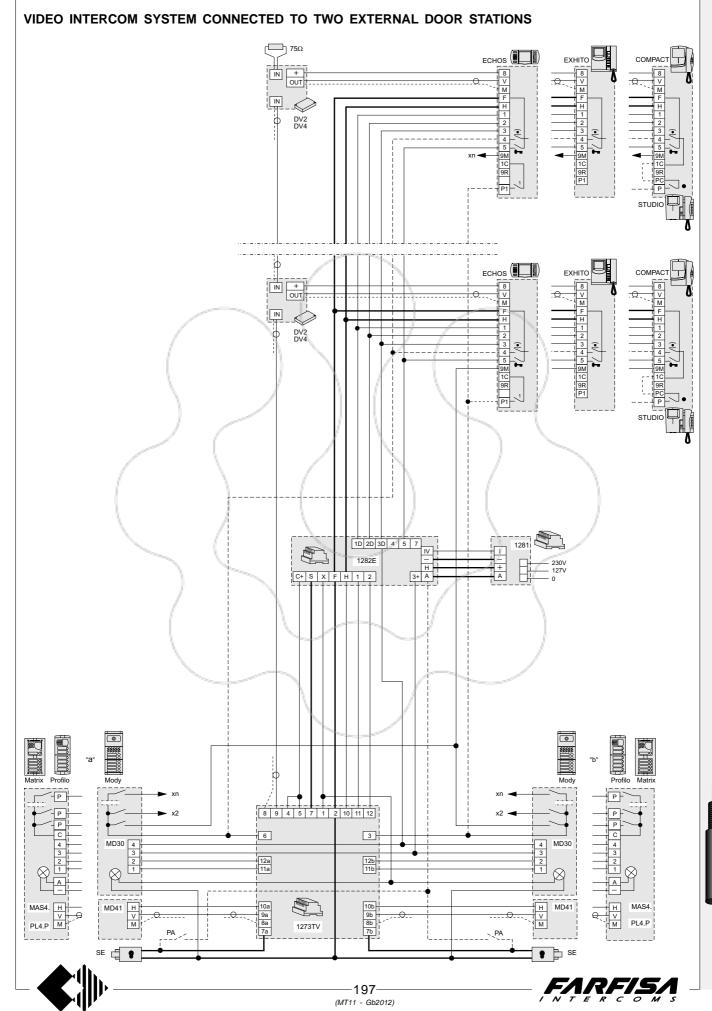
If it is necessary to operate the 2 door locks of the system at the same time, you must:

- add a 12Vac transformer with suitable power (type PRS210)
- add a 12Vac relay (type 1471)
- make the connections as shown in the diagram below.









VIDEO INTERCOM SYSTEM CONNECTED TO TWO EXTERNAL DOOR STATIONS

• INTERNAL STATIONS

ECHO	OS series	EXH	ITO series	CON	MPACT series	STUI	OIO series
	EH9100CT/CW EH9160CT/CW		EX3100C EX3160C		KM8100W KM8600W		ST7100CW ST7100W
	9083		EX3160		KM8800W		ST720W
	WA9100T/W		WB3160		WB8600		WB7100
	TA9160		TA3160		8083		WB700
	CV03		CV03		CV03		TA7100
							TA700

• EXTERNAL DOOR STATIONS

PRO	FILO series	MA	TRIX series	MOI	<u>OY</u> series
	PL71÷PL73		MA71÷MA73		MD72÷MD74
2	PL81÷PL89		MAS61÷MAS63 (1)	2	MD82÷MD812
2	PL91÷PL99 *	2	MA91÷MA93*	2	MD92÷MD912 *
2	PL40PC÷PL42PC	2	MAS42C-MAS43C	2	MD10÷MD124
	PL40P÷PL42P		MAS42-MAS43	2	MD41
	PL21÷PL228		MAS22-MAS24	2	MD30
	PL20, PL50		MAS20	/	MD21÷MD228
	CV01		CV01		MD20, MD50

VARIOUS ARTICLES

	DV2D-DV4D	Video distributors
1	1281	Power supply
1	1282E	Timer
1	1273TV	Exchanger

2 PA ** Door release button (optional)
2 SE ** Electric door lock (12Vac-1A)

- ... Refers to number of users.
- (1) Or MA61÷MA63.
- * The rain shelter is used in the place of the back box and hood cover.
- ** Articles not supplied by ACI Farfisa.

Working instructions.

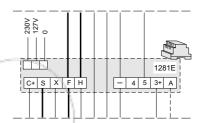
As the basic system described on page 218, with the following variations:

 The audio-video functions and door lock opening are automatically switched to the door station which has made the call (or control switching ON) and remain in this state until a call from another entrance is received.

Notes

- If monitoring function is required it is necessary to connect the dashed conductors and:
- -Echos series verify that jumper J5, located on the back of videointercom, is in the position 2-3;
- Exhito series (possibility of monitoring only the "a" entrance);
- Compact series connect together terminals 1C and PC on the wall bracket;
- Studio series connect together terminals 1C and PC on the wall bracket.
- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For the connection of name plate lamps read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 146 and 149.
- For other types of push-button panels see the general catalogue.

$Connection of 1281 E power supply-timer instead of 1281 \ plus \ 1282 E.$

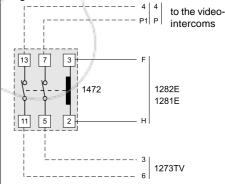


By adding **1281E** to the schematics on page 199 instead of 1281 plus 1282E, the system working will modify as follows:

- switching-OFF at the end of the timing only.

Control switching ON deactivation

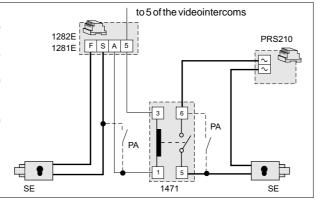
To deactivate the monitoring function during the conversation and to keep it only when the system is in standby, it is necessary to install a 2-exchange relay (type 1472) and connect it as shown on the diagram.



Connection of 2 door locks with simultaneous opening If it is necessary to operate the 2 door locks

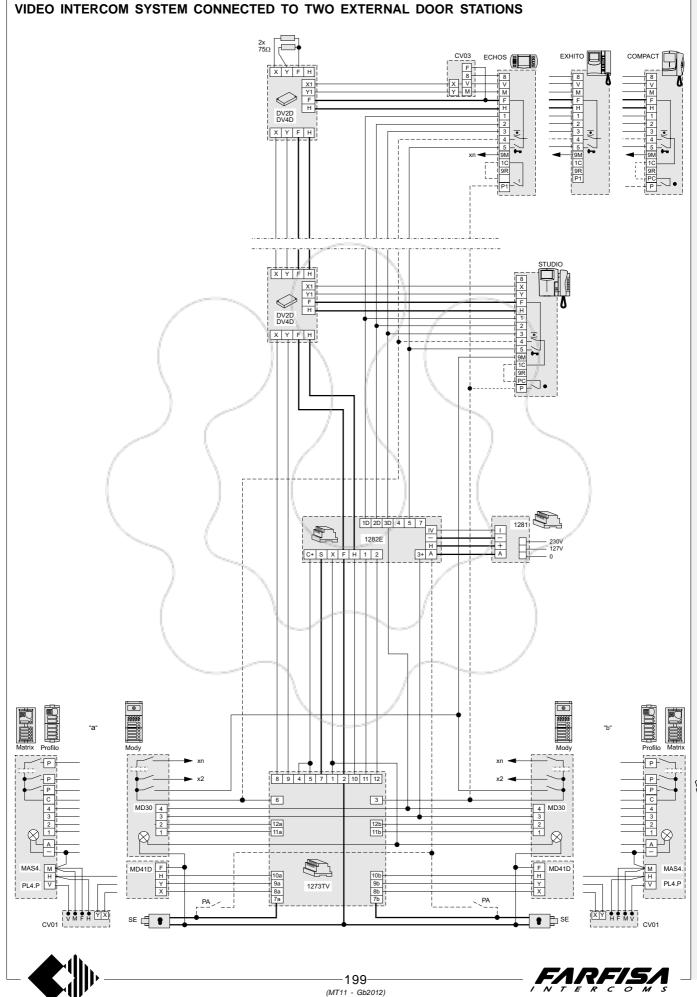
If it is necessary to operate the 2 door locks of the system at the same time, you must:

- add a 12Vac transformer with suitable power (type PRS210)
- add a 12Vac relay (type 1471)
- make the connections as shown in the diagram below.









VIDEO INTERCOM SYSTEM CONNECTED TO TWO EXTERNAL DOOR STATIONS, ONE OF WHICH ONLY AUDIO

• INTERNAL STATIONS

Ē	<u>ECHOS</u> series <u>EXHITO</u> series		COMPACT series	STUDIO series	
	EH9100CT/CW EH9160CT/CW 9083 WA9100T/W	EX3100C EX3160C EX3160 WB3160	KM8100W KM8600W KM8800W WB8600	ST7100CW ST7100W ST720W WB7100	
	TA9160	TA3160	8083	WB700 TA7100 TA700	

• EXTERNAL DOOR STATIONS

PROFILO series		MA	MATRIX series		MODY series		
	PL71÷PL73		MA71÷MA73		MD72÷MD74		
2	PL81÷PL89		MAS61÷MAS63 (1)	2	MD82÷MD812		
2	PL91÷PL99 *	2	MA91÷MA93*	2	MD92÷MD912 *		
1	PL40PC÷PL42PC	1	MAS42C-MAS43C	2	MD10÷MD124		
	PL40P÷PL42P		MAS42-MAS43	1	MD41		
1	MA10P÷12P	1	MAS10P÷MAS12P	/2	MD30		
	PL21÷PL228		MAS22-MAS24	/	MD21÷MD228		
	PL20, PL50		MAS20		MD20, MD50		

VARIOUS ARTICLES

	DV2-DV4	Video distributors
1	1281	Power supply
1	1282E	Timer
1	1473	Exchanger
2	PA **	Door release button (optional)
2	SE **	Electric door lock (12Vac-1A)

- ... Refers to number of users.
- (1) Or MA61÷MA63.
- * The rain shelter is used in the place of the back box and hood cover.
- ** Articles not supplied by ACI Farfisa.

Working instructions.

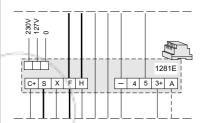
As the basic system described on page 218, with the following variations:

 The audio-video functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.

Notes

- If the control switching ON is necessary, connect terminal 4 of the timer (dashed wire).
- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For the connection of name plate lamps read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 146÷148.
- For one-way systems connect the coaxial cable to the monitor bracket directly, without using the video distributor.
- For other types of push-button panels see the general catalogue.

Connection of 1281 E power supply-timer instead of 1281 plus 1282 E.

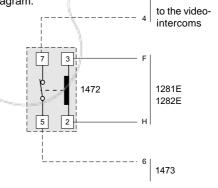


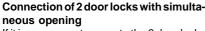
By adding **1281E** to the schematics on page 201 instead of 1281 plus 1282E, the system working will modify as follows:

- switching-OFF at the end of the timing only.

Control switching ON deactivation

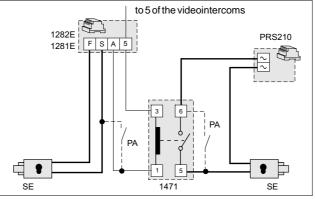
To deactivate the monitoring function during the conversation and to keep it only when the system is in standby, it is necessary to install a relay (type 1471 or 1472) and connect it as shown on the diagram.





If it is necessary to operate the 2 door locks of the system at the same time, you must:

- add a 12Vac transformer with suitable power (type PRS210)
- add a 12Vac relay (type 1471)
- make the connections as shown in the diagram below.







VIDEO INTERCOM SYSTEM CONNECTED TO TWO EXTERNAL DOOR STATIONS, ONE OF WHICH ONLY AUDIO IN DV2 DV4 STUDIO 0 COMPACT IN DV2 DV4 STUDIO 0 COMPACT 1D 2D 3D 4 5 7 +--1282E C+ S X 4 5 7 1 2 10 9 8 Р P 6 3 4 3 2 4 MD30 MD30 4 MAS1.F PL1.P 8a 9a 8b 9b 10a 7a MD41 1473 7b PL4.P SE 📳 SE 🛊

—201— (MT11 - Gb2012)



VIDEO INTERCOM SYSTEM CONNECTED TO THREE EXTERNAL DOOR STATIONS

• INTERNAL STATIONS

ECHOS series		EXH	EXHITO series		MPACT series	<u>STU</u>	STUDIO series	
	EH9100CT/CW EH9160CT/CW		EX3100C EX3160C		KM8100W KM8600W		ST7100CW ST7100W	
	9083		EX3160		KM8800W		ST720W	
	WA9100T/W		WB3160		WB8600		WB7100	
	TA9160		TA3160		8083		WB700	
							TA7100	
							TA700	

• EXTERNAL DOOR STATIONS

PRC	FILO series	MA	TRIX series	MOE	<u>OY</u> series
	PL71÷PL73		MA71÷MA73		MD72÷MD74
3	PL81÷PL89		MAS61÷MAS63 (1)	3	MD82÷MD812
3	PL91÷PL99 *	3	MA91÷MA93*	3	MD92÷MD912 *
3	PL40PC÷PL42PC	3	MAS42C-MAS43C	3	MD10÷MD124
	PL40P÷PL42P		MAS42-MAS43	3	MD41
	PL21÷PL228		MAS22-MAS24	3	MD30
	PL20, PL50		MAS20	/	MD21÷MD228
	,		And the second		MD20, MD50

VARIOUS ARTICLES

	DV2-DV4	Video distributors
1	1281	Power supply
1	1282E	Timer
2	1273TV	Exchanger
3	PA **	Door release button (optional)
3	SF **	Flectric door lock (12Vac-1A)

- ... Refers to number of users.
- (1) Or MA61÷MA63.
- * The rain shelter is used in the place of the back box and hood cover.
- ** Articles not supplied by ACI Farfisa.

Working instructions.

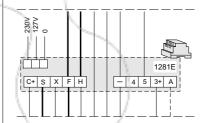
As the basic system described on page 218, with the following variations:

The audio-video functions and door lock opening are automatically switched to the door station
which has made the call (or control switching ON) and remain in this state until a call from another
entrance is received.

Notes

- If monitoring function is required it is necessary to connect the dashed conductors and:
 - **Echos** series verify that jumper **J5**, located on the back of videointercom, is in the position **2-3**;
 - Exhito series (possibility of monitoring only the "a" entrance);
 - Compact series (possibility of monitoring the "a" and "b" entrances connect together terminals 1C and PC on the wall bracket;
- Studio series connect together terminals 1C, PC and C on the wall bracket.
- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For the connection of name plate lamps read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 146÷148.
- For one-way systems connect the coaxial cable to the monitor bracket directly, without using the video distributor.
- For other types of push-button panels see the general catalogue.

Connection of 1281 E power supply-timer instead of 1281 plus 1282 E.

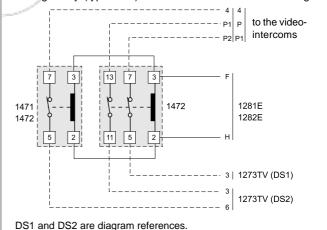


By adding **1281E** to the schematics on page 203 instead of 1281 plus 1282E, the system working will modify as follows:

- switching-OFF at the end of the timing only.

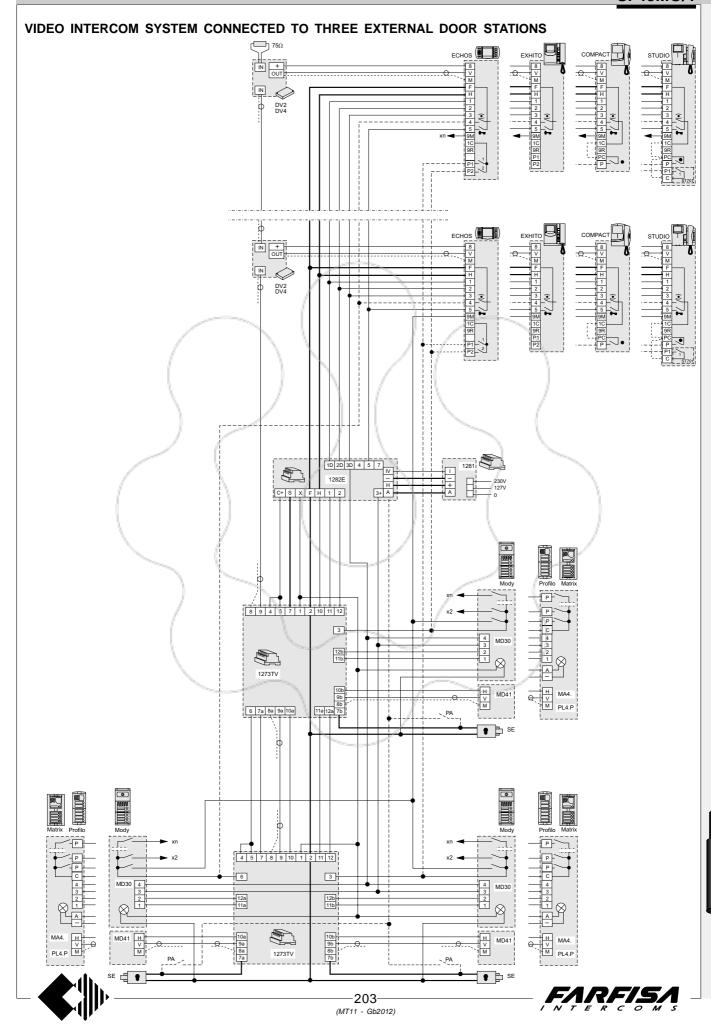
Control switching ON deactivation

To deactivate the monitoring function during the conversation and to keep it only when the system is in standby, it is necessary to install a 2-exchange relay (type **1472**) and connect it as shown on the diagram.









VIDEO INTERCOM SYSTEM WITH SECONDARY VIDEO STATIONS AND 1 MAIN COMMON VIDEO STATION (multiple entrance)

• INTERNAL STATIONS

ECHOS series	EXHITO series	COMPACT series	STUDIO series
EH9100CT/CW EH9160CT/CW 9083	EX3100C EX3160C EX3160 WB3160	KM8100W KM8600W KM8800W	ST7100CW ST7100W ST720W WB7100
WA9100T/W TA9160	TA3160	WB8600 8083	WB7100 WB700 TA7100 TA700

EXTERNAL DOOR STATIONS

PROFILO series	MAIRIX series	MODY series	have concrete common terminals
PL71÷PL73 1+X PL81÷PL89 1+X PL91÷PL99 * 1+X PL40PC÷PL42PC PL40P÷PL42P PL21÷PL228 PL20, PL50	MA71÷MA73 MAS61÷MAS63 (1) 1+X MA91÷MA93* 1+X MAS42C-MAS43C	MD72÷MD74 1+X MD82÷MD812 1+X MD92÷MD912 * 1+X MD10÷MD124 1+X MD41 1+X MD41 MD20 MD21÷MD228 MD20, MD50	have separate common terminals. terminal for each secondary door stati the Mody series can be divided into 2-t The common terminals of push-buttor Matrix series can be separated onl module. Mody series button module
		WIDZU, WIDJU	[4][[1]] [1] [2] [2] [3] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4

VARIOUS ARTICLES

	DV2-DV4	Video distributors
1+X	1281	Powersupply
1+X	1282E	Timer
Χ	1273TV	Exchanger
1+	476	Video distributor-amplific
1+X	PA **	Door release button (ont

er Door release button (optional) 1+X SE ** Electric door lock (12Vac-1A)

- ... Refers to number of users.
- X Refers to number of secondary door stations.
- (1) Or MA61÷MA63.
- The rain shelter is used in the place of the back box and hood cover.
- ** Articles not supplied by ACI Farfisa.

Working instructions.

As the basic system described on page 218, with the following variations:

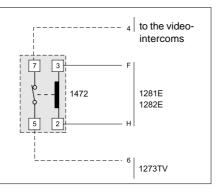
- The audio-video functions and door lock opening are automatically switched to the door station which has made the call (or control switching ON) and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

Notes

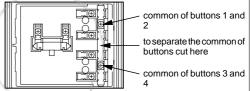
- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- If the control switching ON is necessary, connect terminal 4 of the timer (dashed wire).
- For the connection of name plate lamps read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 146÷148.
- For other types of push-button panels see the general catalogue.

Control switching ON deactivation

To deactivate the monitoring function during the conversation and to keep it only when the system is in standby, it is necessary to install a relay (type 1471 or 1472) and connect it as shown on the diagram.

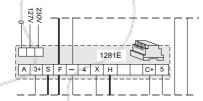


entrance push-button panel must . One common ation. Buttons of -button groups. ons **Profilo** and nly module by

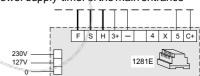


Connection of 1281E power supply-timer instead of 1281 plus 1282E.

Power supply-timer of the secondary entrance



Power supply-timer of the main entrance



By adding 1281E to the schematics on page 205 instead of 1281 plus 1282E, the system working will modify as follows:

- switching-OFF at the end of the timing only.

Connection of two door locks, of which the secondary is always activable, in a system with multiple entrance

For this option it is necessary to install a diode (100V-1A; type 1N4007) between terminals 7 (cathode) and 7a (anode) of every secondary exchanger. The diode allows to activate also the door

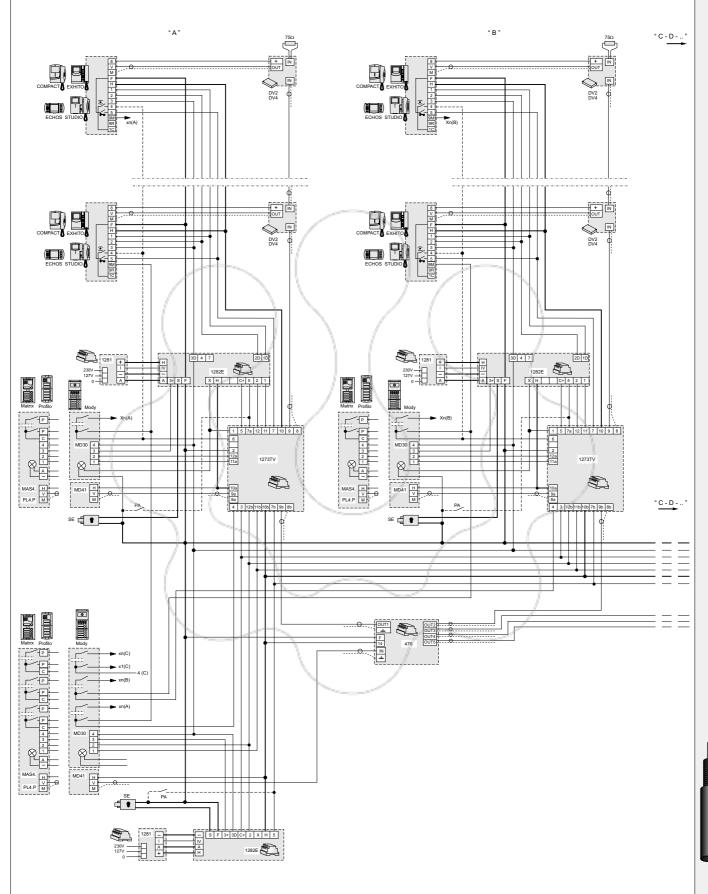


look of your own entrance when the door look of the main entrance is activated. On the contrary when the door lock of your own entrance is activated the door look of the main entrance is not activated.





VIDEO INTERCOM SYSTEM WITH SECONDARY VIDEO STATIONS AND 1 MAIN COMMON VIDEO STATION (multiple entrance)







VIDEO INTERCOM SYSTEM WITH SECONDARY VIDEO STATIONS AND 1 MAIN COMMON VIDEO STATION (multiple entrance)

• INTERNAL STATIONS

ECHOS series		EXH	EXHITO series		COMPACT series		STUDIO series	
	EH9100CT/CW EH9160CT/CW		EX3100C EX3160C			KM8100W KM8600W		ST7100CW ST7100W
	9083		EX3160			KM8800W		ST720W
	WA9100T/W		WB3160			WB8600		WB7100
	TA9160		TA3160			8083		WB700
	CV03		CV03			CV03		TA7100
								TA700

• EXTERNAL DOOR STATIONS

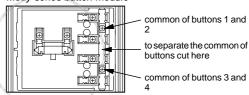
PROF	FILO series	MATRIX series			
	PL71÷PL73		MA71÷MA73		
1+X	PL81÷PL89		MAS61÷MAS63 (1)		
1+X	PL91÷PL99 *	1+X	MA91÷MA93*		
1+X	PL40PC÷PL42PC	1+X	MAS42C-MAS43C		
	PL40P÷PL42P		MAS42-MAS43		
	PL21÷PL228		MAS22-MAS24		
	PL20, PL50		MAS20		
	CV01		CV01		

MODY series

	MD72÷MD74
1+X	MD82÷MD812
1+X	MD92÷MD912 *
1+X	MD10÷MD124
1+X	MD41D
1+X	MD30
	MD21÷MD228
	MD20, MD50√

The main entrance push-button panel must have separate common terminals. One common terminal for each secondary door station. Buttons of the Mody series can be divided into 2-button groups. The common terminals of push-buttons Profilo and Matrix series can be separated only module by module.

Mody series button module



VARIOUS ARTICLES

	DV2D-DV4D	Video distributors
1+X	1281	Power supply
1+X	1282E	Timer
Χ	1273TV	Exchanger
1.7	D A **	Door rologge butter

1+X PA ** Door release button (optional)
1+X SE ** Electric door lock (12Vac-1A)

- ... Refers to number of users.
- X Refers to number of secondary door stations.
- (1) Or MA61÷MA63.
- * The rain shelter is used in the place of the back box and hood cover.
- ** Articles not supplied by ACI Farfisa.

Working instructions.

As the basic system described on page 218, with the following variations:

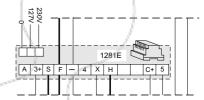
- The audio-video functions and door lock opening are automatically switched to the door station which has made the call (or control switching ON) and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

Notes

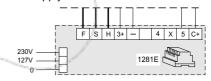
- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- If the control switching ON is necessary, connect terminal 4 of the timer (dashed wire).
- For the connection of name plate lamps read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 146 and 149.
- For other types of push-button panels see the general catalogue.

Connection of 1281E power supply-timer instead of 1281 plus 1282E.

Power supply-timer of the secondary entrance



Power supply-timer of the main entrance

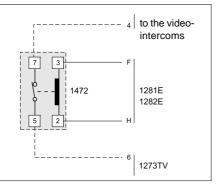


By adding **1281E** to the schematics on page 207 instead of 1281 plus 1282E, the system working will modify as follows:

- switching-OFF at the end of the timing only.

Control switching ON deactivation

To deactivate the monitoring function during the conversation and to keep it only when the system is in standby, it is necessary to install a relay (type 1471 or 1472) and connect it as shown on the diagram.



Connection of two door locks, of which the secondary is always activable, in a system with multiple entrance

For this option it is necessary to install a diode (100V-1A; type 1N4007) between terminals 7 (cathode) and 7a (anode) of every secondary exchanger. The diode allows to activate also the door

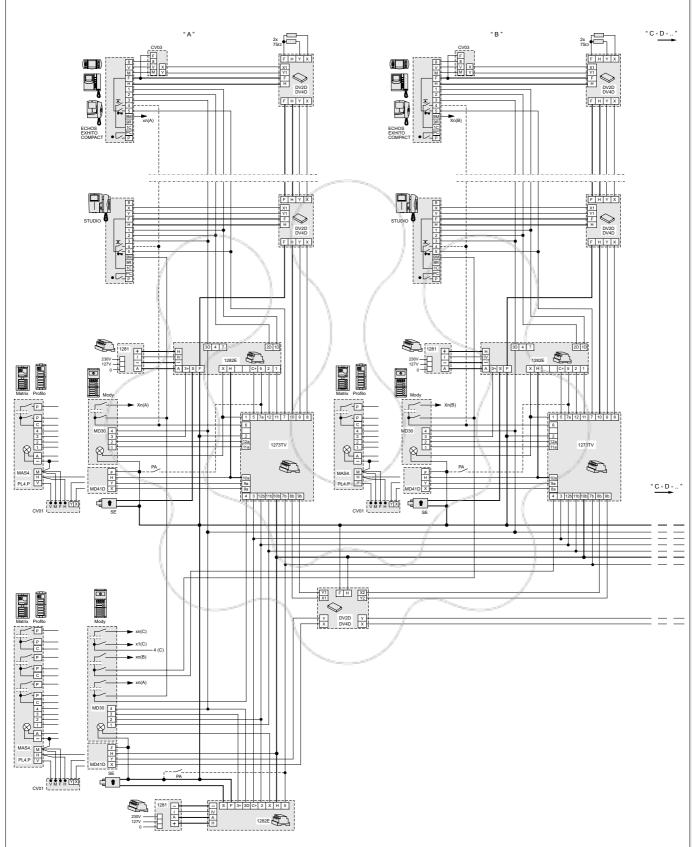


look of your own entrance when the door look of the main entrance is activated. On the contrary when the door look of your own entrance is activated the door look of the main entrance is not activated.





VIDEO INTERCOM SYSTEM WITH SECONDARY VIDEO STATIONS AND 1 MAIN COMMON VIDEO STATION (multiple entrance)





VIDEO INTERCOM SYSTEM WITH SECONDARY DOOR STATIONS ONLY AUDIO AND 1 MAIN COMMON VIDEO **STATION** (multiple entrance)

• INTERNAL STATIONS

ECI	HOS series	EXH	IITO series	CON	MPACT series	STU	JDIO series
	EH9100CT/CW		EX3100C		KM8100W		ST7100CW
	EH9160CT/CW		EX3160C		KM8600W		ST7100W
	9083		EX3160		KM8800W		ST720W
	WA9100T/W		WB3160		WB8600		WB7100
	TA9160		TA3160		8083		WB700
							TA7100
							TA700

EXTERNAL DOOR STATIONS

PROFILO series		MAT	RIX series	MODY series		
	PL71÷PL73		MA71÷MA73		MD72÷MD74	
1+X	PL81÷PL89		MAS61÷MAS63 (1)	1+X	MD82÷MD812	
1+X	PL91÷PL99 *	1+X	MA91÷MA93*	1+X	MD92÷MD912 *	
1	PL40PC÷PL42PC	1	MAS42C-MAS43C	1+X	MD10÷MD124	
	PL40P÷PL42P		MAS42-MAS43	// 1	MD41	
Χ	PL10P÷PL124P	Χ	MAS10P÷MAS12P	1+X	MD30	
	PL21÷PL228		MAS22-MAS24		MD21÷MD228	
	PL20, PL50		MAS20	\	MD20, MD50	

VARIOUS ARTICLES

	DV2-DV4	video distributors
1+X	1281	Power supply
1+X	1282E	Timer
X	1273TV	Exchanger
1+	476	Video distributor-amplifier
1+X	PA **	Door release button (optional)
1+X	SE **	Electric door lock (12Vac-1A)

- ... Refers to number of users.
- X Refers to number of secondary door stations.
- (1) Or MA61÷MA63.
- The rain shelter is used in the place of the back box and hood cover.
- ** Articles not supplied by ACI Farfisa.

Working instructions.

As the basic system described on page 218, with the following variations:

- The audio-video functions and door lock opening are automatically switched to the door station which has made the call (or control switching ON) and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

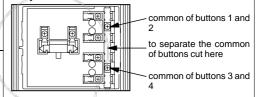
Notes

- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For the connection of name plate lamps read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 146÷148.
- For other types of push-button panels see the general catalogue.

The main entrance push-button panel must have separate common terminals. One common terminal for each secondary door station. Buttons of the Mody series can be divided into 2-button groups. The common terminals of push-buttons Profilo and Matrix series can be separated only module by

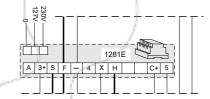
Mody series button module

module.

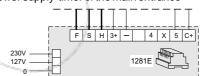


Connection of 1281E power supply-timer instead of 1281 plus 1282E.

Power supply-timer of the secondary entrance



Power supply-timer of the main entrance



By adding 1281E to the schematics on page 209 instead of 1281 plus 1282E, the system working will modify as follows:

- switching-OFF at the end of the timing only.

Connection of two door locks, of which the secondary is always activable, in a system with multiple entrance

For this option it is necessary to install a diode (100V-1A; type 1N4007) between terminals 7 (cathode) and 7a (anode) of every secondary exchanger. The diode allows to activate also the door



look of your own entrance when the door look of the main entrance is activated. On the contrary when the door lock of your own entrance is activated the door

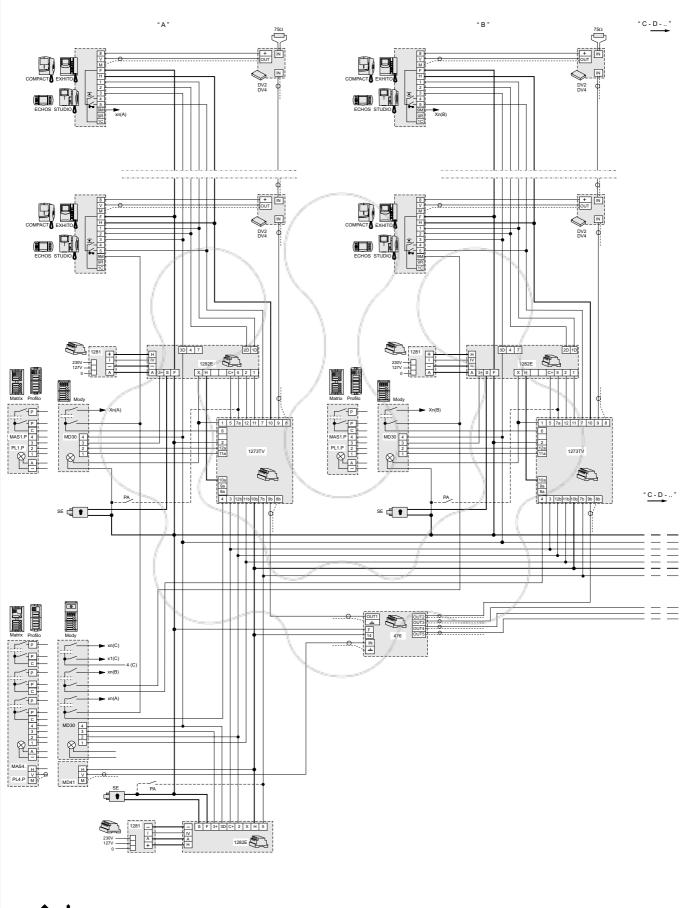
look of the main entrance is not activated.







VIDEO INTERCOM SYSTEM WITH SECONDARY DOOR STATIONS ONLY AUDIO AND 1 MAIN COMMON VIDEO STATION (multiple entrance)







VIDEO INTERCOM SYSTEM WITH SECONDARY VIDEO STATIONS AND 1 MAIN COMMON STATION ONLY AUDIO (multiple entrance)

COMPACT ---

• INTERNAL STATIONS

ECHOS series	EXHII	<u>O</u> series	CON	IPACI series	SIL	IDIO series
 EH9100CT/CW		EX3100C		KM8100W		ST7100CW
EH9160CT/CW		EX3160C		KM8600W		ST7100W
 9083		EX3160		KM8800W		ST720W
 WA9100T/W		WB3160		WB8600		WB7100
 TA9160		TA3160		8083		WB700
						TA7100
						TA700

• EXTERNAL DOOR STATIONS

PROFILO series		MAT	RIX series	MOD	MODY series		
	PL71÷PL73		MA71÷MA73		MD72÷MD74		
1+X	PL81÷PL89		MAS61÷MAS63 (1)	1+X	MD82÷MD812		
1+X	PL91÷PL99 *	1+X	MA91÷MA93*	1+X	MD92÷MD912 *		
Χ	PL40PC÷PL42PC	Χ	MAS42C-MAS43C	1+X	MD10÷MD124		
	PL40P÷PL42P		MAS42-MAS43	X	MD41		
1	PL10P÷PL124P	1	MAS10P÷MAS12P	1+X	MD30		
	PL21÷PL228		MAS22-MAS24		MD21÷MD228		
	PL20, PL50		MAS20	\	MD20, MD50		

EVILITO - - -! - -

• VARIOUS ARTICLES

	DV2-DV4	Video distributors
1+X	1281	Power supply
1+X	1282E	Timer
Χ	1273TV	Exchanger
1+X	PA **	Door release button (optional)
1+X	SE **	Electric door lock (12Vac-1A)

- . Refers to number of users.
- X Refers to number of secondary door stations.
- (1) Or MA61÷MA63.
- * The rain shelter is used in the place of the back box and hood cover.
- ** Articles not supplied by ACI Farfisa.

Working instructions.

As the basic system described on page 218, with the following variations:

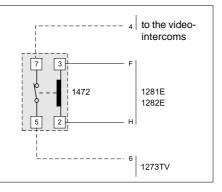
- The audio-video functions and door lock opening are automatically switched to the door station which has made the call (or control switching ON) and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

Notes

- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- If the control switching ON is necessary, connect terminal 4 of the timer (dashed wire).
- For the connection of name plate lamps read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 146÷148.
- For other types of push-button panels see the general catalogue.

Control switching ON deactivation

To deactivate the monitoring function during the conversation and to keep it only when the system is in standby, it is necessary to install a relay (type 1471 or 1472) and connect it as shown on the diagram.



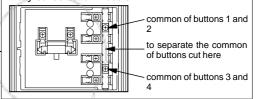
... TA7100 ... TA700 The main entrance push-button panel must

terminal for each secondary door station. Buttons of the **Mody** series can be divided into 2-button groups. The common terminals of push-buttons **Profilo** and **Matrix** series **can be separated only module by module**.

have separate common terminals. One common

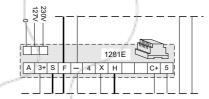
Mody series button module

OTUDIO - - -

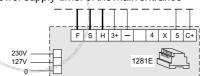


Connection of 1281E power supply-timer instead of 1281 plus 1282E.

Power supply-timer of the secondary entrance



Power supply-timer of the main entrance



By adding **1281E** to the schematics on page 211 instead of 1281 plus 1282E, the system working will modify as follows:

- switching-OFF at the end of the timing only.

Connection of two door locks, of which the secondary is always activable, in a system with multiple entrance

For this option it is necessary to install a diode (100V-1A; type 1N4007) between terminals 7 (cathode) and 7a (anode) of every secondary exchanger. The diode allows to activate also the door

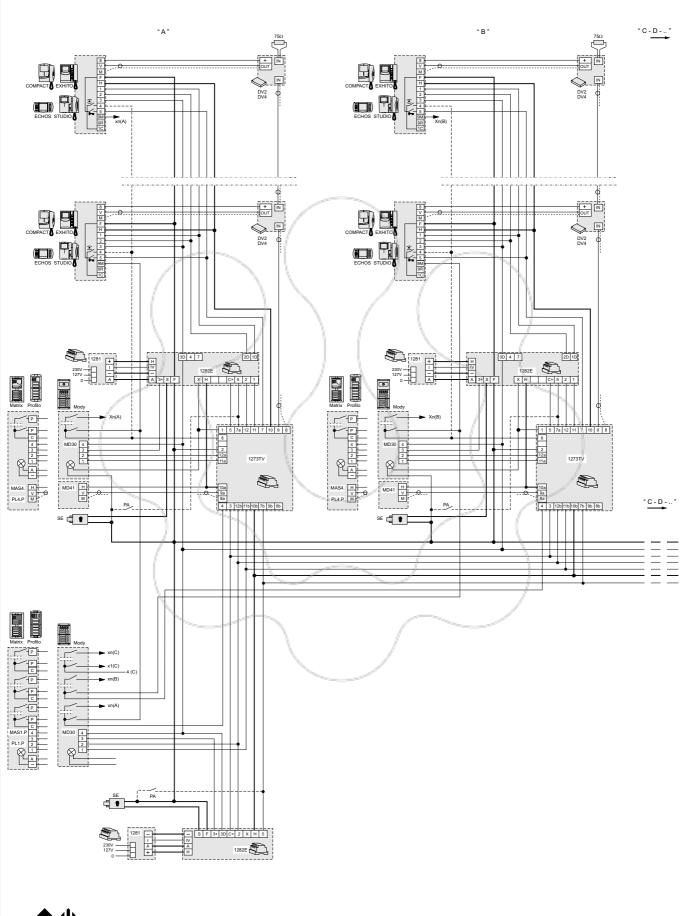


look of your own entrance when the door look of the main entrance is activated. On the contrary when the door lock of your own entrance is activated the door look of the main entrance is not activated.





VIDEO INTERCOM SYSTEM WITH SECONDARY VIDEO STATIONS AND 1 MAIN COMMON STATION ONLY AUDIO (multiple entrance)







VIDEO INTERCOM SYSTEM WITH ONE-WAY SECONDARY DOOR STATIONS ONLY AUDIO AND 1 MAIN COMMON VIDEO STATION (multiple entrance)

• INTERNAL STATIONS

ECI	HOS series	EXI	HITO series	COL	MPACT series	STU	<u>JDIO</u> series
	EH9100CT/CW		EX3100C		KM8100W		ST7100CW
	EH9160CT/CW		EX3160C		KM8600W		ST7100W
	9083		EX3160		KM8800W		ST720W
	WA9100T/W		WB3160		WB8600		WB7100
	TA9160		TA3160		8083		WB700
							TA7100
							TA700

• MAIN EXTERNAL DOOR STATION

31282E.
of the main entrance
S H 3+ - 4 X 5 C+
1281E

• SECONDARY EXTERNAL DOOR STATIONS

PROFILO series		MA.	TRIX series	MODY series		
	PL71	\	MA71		MD71	
Χ	PL81)	MAS61 (1)	X	MD81	
Х	PL91 *	X	MA91 *	X	MD91 *	
		and the same		X	MD11 \	
Х	PL11P	X	MA11P	X	MD30	

VARIOUS ARTICLES

	DV2-DV4	Video distributors	1
1	1281	Power supply	\
1	1282E	Timer	1
Χ	1473	Exchanger	100
Χ	PRS240	Power supply	The Real Property lies
X	1471	Relayunit	
1+	476	Video distributor-amplifier	
1+X	PA **	Door release button (optional)	
1+X	SE **	Electric door lock (12Vac-1A)	

- ... Refers to number of users.
- X Refers to number of secondary door stations.
- (1) Or MA61÷MA63.
- * The rain shelter is used in the place of the back box and hood cover.
- ** Articles not supplied by ACI Farfisa.

Working instructions.

As the basic system described on page 218, with the following variations:

- The audio-video functions and door lock opening are automatically switched to the door station which has made the call (or control switching ON) and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.
- By making the call from the secondary audio station, the video intercom remains switched OFF.

Notes

- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- If the control switching ON is necessary, connect terminal 4 of the timer (dashed wire).
- **DV..** distributors can be used instead of the video distributors **476** by adding a power supply wire (from + to terminal 8 of every video intercom).
- For the connection of name plate lamps read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 146÷148.

Connection of two door locks, of which the secondary is always activable, in a system with multiple entrance

- switching-OFF at the end of the timing only.

By adding **1281E** to the schematics on page 213 instead of 1281 plus 1282E, the system working will

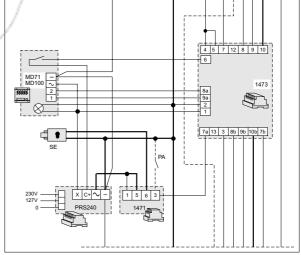
For this option it is necessary to install a diode (100V-1A; type 1N4007) between terminals 7 (cathode) and 7a (anode) of every secondary exchanger. The diode allows to activate also the door

modify as follows:



look of your own entrance when the door look of the main entrance is activated. On the contrary when the door look of your own entrance is activated the door look of the main entrance is not activated.

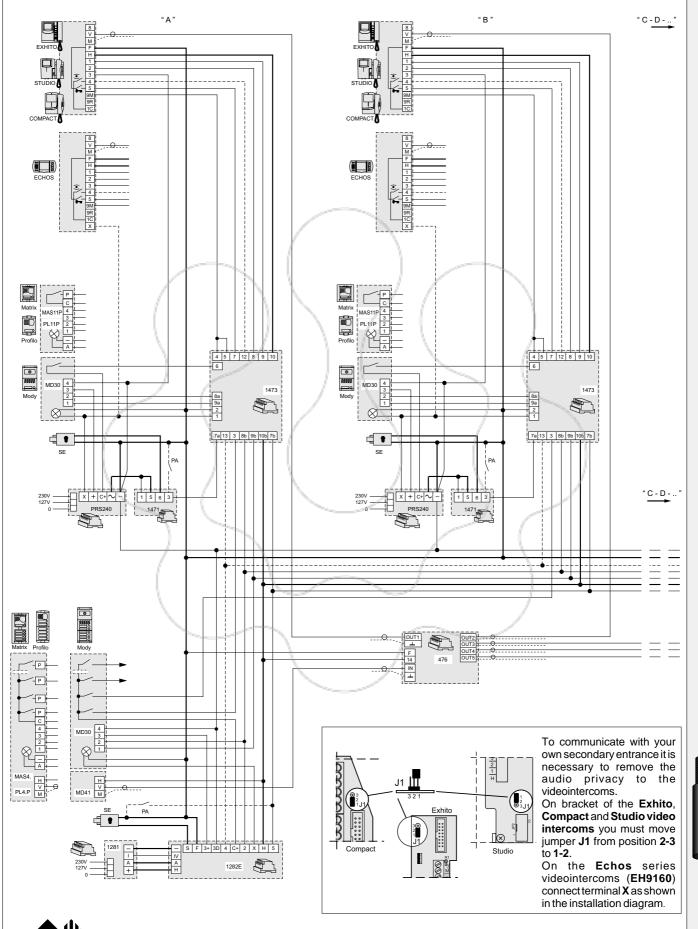
Connection of the MD100 amplified external door station to the secondary door station instead of electric door speaker MD30 and module MD11.







VIDEO INTERCOM SYSTEM WITH ONE-WAY SECONDARY DOOR STATIONS ONLY AUDIO AND 1 MAIN COMMON VIDEO STATION (multiple entrance)







VIDEO INTERCOM SYSTEM WITH ONE-WAY SECONDARY DOOR STATIONS ONLY AUDIO AND 1 MAIN **COMMON VIDEO STATION (multiple entrance)**

• INTERNAL STATIONS

EC	HOS series	EXI	HITO series	COL	MPACT series	STL	JDIO series
	EH9100CT/CW		EX3100C		KM8100W		ST7100CW
	EH9160CT/CW		EX3160C		KM8600W		ST7100W
	9083		EX3160		KM8800W		ST720W
l	WA9100T/W		WB3160		WB8600		WB7100
l	TA9160		TA3160		8083		WB700
l	CV03		CV03		CV03		TA7100
							TA700

• MAIN EXTERNAL DOOR STATIONS

PROFILO series		MATRIX series		MODY series	
	PL71÷PL73		MA72÷MA73		MD72÷MD74
1	PL81÷PL89		MAS62÷MAS63 (1)	1	MD82÷MD812
1	PL91÷PL99 *	1	MA92÷MA93*	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MD92÷MD912 *
1	PL40PC÷PL42PC	1	MAS42C-MAS43C	Λ	MD10÷MD124
	PL40P÷PL42P		MAS42-MAS43	// 1	MD41
1	CV01	1	CV01	1	MD30
	PL21÷PL228		MAS22-MAS24		MD21÷MD228
	PL20, PL50		MAS20	\	MD20, MD50

SECONDARY EXTERNAL DOOR STATIONS

PROFILO series		MA [.]	MATRIX series		MODY series	
	PL71	\	MA71		MD71	
Х	PL81)	MAS61 (1)	Χ	MD81	
Х	PL91 *	X	MA91 *	Χ	MD91 *	
		and the same of th	/	X /	MD11	
Х	PL11P	X	MA11P	X	MD30	

VARIOUS ARTICLES

	DV2D-DV4D	Video distributors
1	1281	Power supply
1	1282E	Timer
Χ	1473	Exchanger
Χ	PRS240	Power supply
X	1471	Relayunit
1+X	PA **	Door release button (optional)
1+X	SE **	Electric door lock (12Vac-1A)

.. Refers to number of users.

- X Refers to number of secondary door stations.
- (1) Or MA61÷MA63.
- The rain shelter is used in the place of the back box and hood cover.
- ** Articles not supplied by ACI Farfisa.

Working instructions.

As the basic system described on page 218, with the following variations:

- The audio-video functions and door lock opening are automatically switched to the door station which has made the call (or control switching ON) and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.
- By making the call from the secondary audio station, the video intercom remains switched OFF.

- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- If the control switching ON is necessary, connect terminal 4 of the timer (dashed wire).
- For the connection of name plate lamps read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 146 and 149.

Connection of 1281E power supply-timer instead of 1281 plus 1282E.

Power supply-timer of the main entrance



By adding 1281E to the schematics on page 215 instead of 1281 plus 1282E, the system working will modify as follows:

switching-OFF at the end of the timing only.

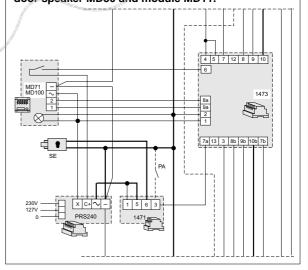
Connection of two door locks, of which the secondary is always activable, in a system with multiple entrance

For this option it is necessary to install a diode (100V-1A; type 1N4007) between terminals 7 (cathode) and 7a (anode) of every secondary exchanger. The diode allows to activate also the door



look of your own entrance when the door look of the main entrance is activated. On the contrary when the door lock of your own entrance is activated the door look of the main entrance is not activated.

Connection of the MD100 amplified external door station to the secondary door station instead of electric door speaker MD30 and module MD11.

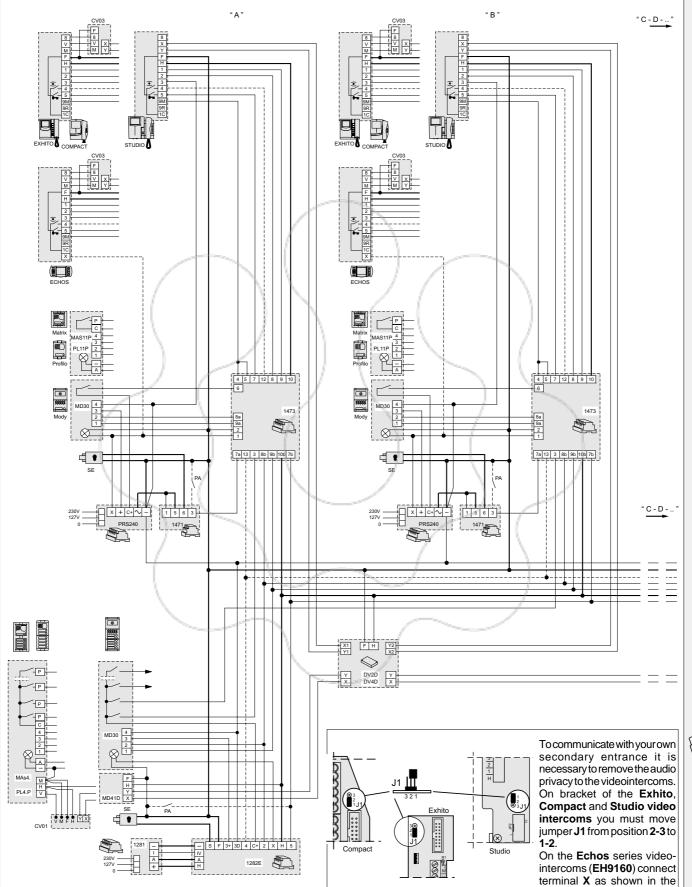






installation diagram.

VIDEO INTERCOM SYSTEM WITH ONE-WAY SECONDARY DOOR STATIONS ONLY AUDIO AND 1 MAIN COMMON VIDEO STATION (multiple entrance)



VIDEO INTERCOM SYSTEM WITH SECONDARY VIDEO STATIONS AND 2 MAIN COMMON VIDEO STATIONS (multiple entrance)

• INTERNAL STATIONS

EC	HOS series	EXHITO se	eries	COM	IPACT series	STU	DIO series
	EH9100CT/CW		100C		KM8100W		ST7100CW
	EH9160CT/CW 9083	EX3	160C 160		KM8600W KM8800W		ST7100W ST720W
	WA9100T/W		3160		WB8600		WB7100
•••	TA9160	TA3	160		8083		WB700 TA7100
							TA700

EXTERNAL DOOR STATIONS

PROFILO series		MAT	RIX series	MODY series		
	PL71÷PL73		MA71÷MA73		MD72÷MD74	
2+X	PL81÷PL89		MAS61÷MAS63 (1)	2+X	MD82÷MD812	
2+X	PL91÷PL99 *	2+X	MA91÷MA93*	2+X	MD92÷MD912 *	
2+X	PL40PC÷PL42PC	2+X	MAS42C-MAS43C	2+X	MD10÷MD124	
	PL40P÷PL42P		MAS42-MAS43	2+X	MD41	
	PL21÷PL228		MAS22-MAS24	2+X	MD30	
	PL20, PL50		MAS20		MD21÷MD228	
	,	A Partie of the		\	MD20, MD50	

VARIOUS ARTICLES

	DV2-DV4	Video distributors
2+X	1281	Powersupply
1+X	1282E	Timer
2xX	1273TV	Exchanger
2+	476	Video distributor-amplifier
1	1471	Relayunit
2+X	PA **	Door release button (optional)
2+X	SF **	Flectric door lock (12Vac-1A)

- Refers to number of users.
- X Refers to number of secondary door stations.
- (1) Or MA61÷MA63.

D **

The rain shelter is used in the place of the back box and hood cover.

100V-1A diodes (type 1N4007)

** Articles not supplied by ACI Farfisa.

Working instructions.

As the basic system described on page 218, with the following variations:

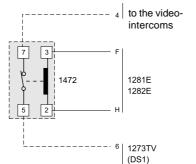
- The audio-video functions and door lock opening are automatically switched to the door station which has made the call (or control switching ON) and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

Notes

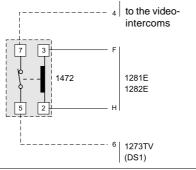
- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- If the control switching ON is necessary, connect terminal 4 of the timer (dashed wire).
- For the connection of name plate lamps read notes 6, 7 and 8 of the installation instructions on page 146.
- For wires dimensioning and video connection refer to the installation instructions and table on pages 146÷148.
- For other types of push-button panels see the general catalogue.

Control switching ON deactivation

To deactivate the monitoring function during the conversation and to keep it only when the system is in standby, it is necessary to install a relay (type 1471 or 1472) and connect it as shown on the diagram.



DS1 is a diagram reference

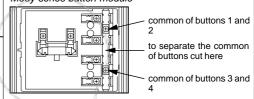


The main entrance push-button panels must have separate common terminals. One common terminal for each secondary door station. Buttons of

the Mody series can be divided into 2-button groups.

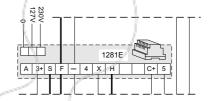
The common terminals of push-buttons Profilo and Matrix series can be separated only module by module.

Mody series button module

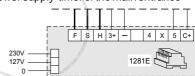


Connection of 1281E power supply-timer instead of 1281 plus 1282E.

Power supply-timer of the secondary entrance



Power supply-timer of the main entrance

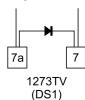


By adding 1281E to the schematics on page 217 instead of 1281 plus 1282E, the system working will modify as follows:

switching-OFF at the end of the timing only.

Connection of two door locks, of which the secondary is always activable, in a system with multiple entrance

For this option it is necessary to install a diode (100V-1A; type 1N4007) between terminals 7 (cathode) and 7a (anode) of every secondary exchanger. The diode allows to activate also the door look of your own entrance when the



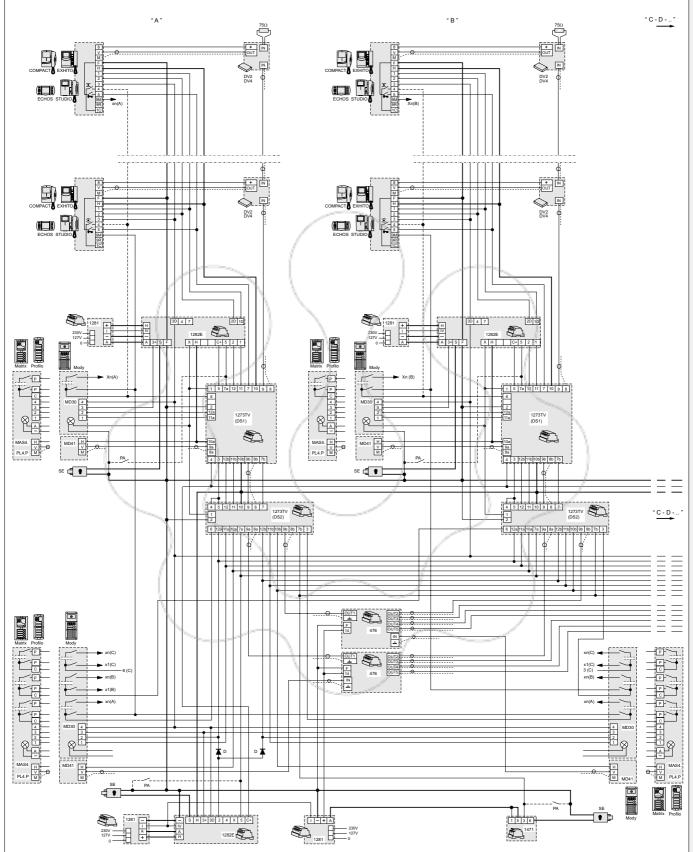
door look of the main entrance is activated. On the

contrary when the door lock of your own entrance is activated the door look of the main entrance is not activated.





VIDEO INTERCOM SYSTEM WITH SECONDARY VIDEO STATIONS AND 2 MAIN COMMON VIDEO STATIONS (multiple entrance)



D The 2 diodes in the schematic are not necessary if, instead of 1281 plus 1282E of the main entrances, 1281E power supply-timer is used (please see relative drawing on previous page).





Check that the connections of the system are carried out correctly.

Put the system in use by connecting the power supply to the mains.

By pushing a call button from the external push-button panel, the call is sent to the corresponding video intercom, the system is activated for about 50 seconds (100 seconds with 1281E power supply-timer) and the image appears on the monitor a few seconds after the call.

By lifting the handset, the called user can speak with the external station and increases at the same time the activation time of the system (about 3 minutes) (feature not available for 1281E power supply-timer).

If a call to another internal station occurs in the meantime, the monitor switches OFF and the last monitor called is activated.

By using 1281 power supply and 1282E timer, the installation can be switched OFF by replacing the handset or at the end of the timing; by using 1281E the installation can be switched OFF only at the end of the timing.

By making a call to a video intercom with offhook handset, the monitors is activated without hearing the ringing call.

If more calls occur simultaneously, a protection circuit against overloading and short circuiting is provided to disable the timer and switch OFF the system. If provided for in the system, from any monitor it is possible to control the entrance by pressing the © button (control switch ON). It is not possible to make this control using 1281 power supply together with 1282E timer during a conversation. Vice versa using 1281E power supply-timer the control switch ON is always possible.

To operate the electric door lock release press the • button.

In systems with 2 or more entrances, audio, video and door lock release switching between two entrances is automatic upon the call or control switching ON.

In systems with 2 or more entrances, the control switch ON from the monitors interrupt the communication in progress, consequently in multi-way systems it is advisable to interrupt during a communication the switch ON function by means of a relay art. 1471 or 1472, giving the priority to the communication to the external door stations (see installation diagrams of video intercom systems with several entrances).

In systems with intercommunicating service, the communication between monitors and/or intercoms is possible only when the system is in stand-by.

Adjustments

Being subject to the environmental lighting conditions, contrast and brightness can be adjusted by means of external knobs.

All the other adjustments can be carried out inside the monitor. For any necessary maintenance intervention of a specialized technician is mandatory.

The probability of breakdown in the video-intercom systems is obviously greater than in the intercom system. Consequently this brief troubleshooting takes into consideration the most common defects. When a defect is limited to only one videointercom it is evident that the trouble is a short circuit to the videointercom itself, to the connecting terminal board or to the wires that go to the riser. The simplest way to test the efficiency of a videointercom is to connect it in another flat where everything functions correctly.

Preliminary checks

- Check for the presence of the mains voltage between terminals 230 (or 127) and 0 of the power supply.
- The power supply is not provided with fuses, but all of its outputs are protected against overloading and short circuiting by temperature sensors. To reset the power supply, power must be cut OFF for about one minute and can be restored after having eliminated the problem.
- Check the voltage output of the power supply (see in detail the values indicated in the power supply and control chapter-page 142).
- Check that the cross section of the wire corresponds to what is indicated on page 146 and on the descriptions of each diagram.
- Check that the connection of the wire corresponds to the installation diagram.

Problem, reason and solutions

Videointercoms shut OFF. Ringing tone not present. Control switching ON not functioning.

Absence of main voltage. Short circuits or overloading of the output terminals of the power supply and/or timer. Faulty power supply. Faulty timer.

Videointercoms shut OFF. Ringing tone not present. Control switch ON functioning.

The **C+** wire is interrupted. Faulty timer.

Videointercoms turn ON. Absence of image.

The wire **H** that powers the camera is interrupted. The coaxial cable is interrupted or has a short circuit. The shield of the coaxial cable is interrupted. The video distributors (if present) are not being powered. Faulty camera unit.

Control switch ON by videointercoms does not function.

Wire **4** is interrupted. Faulty timer. The system is working.

The system does not shut OFF by replacing the handset.

Such a defect can be due to the non-working audio section from the door station to the videointercoms (see related section). Faulty timer. Faulty electric door speaker.

Unfocused image.

Dirty optics or lens. Faulty camera.

Image only slightly contrasted and/or out of synchronism.

Bad quality of coaxial cable or coaxial cable in dispersion. Nominal impedance of coaxial cable not of 75Ω . High distance system (use video amplifier art.476). Check the correct connection of the coaxial cable (see pages 147 and 148).

The electric door lock does not function.

Faulty lock. The cross section of the wires indicated in bold type is insufficient. A connecting wire to the lock has been interrupted. The **5** wire is interrupted. Faulty timer.

Audio section

No audio from both channels.

Absence of power supply voltage between 3 and 4 of the electric door speaker ($6\div 8Vdc$). Short circuit between 3 and F of the timer. The 3D wire is interrupted. Faulty timer.

No audio from the videointercoms to the door station.

The **1D** or **1** wire (from the timer to the door station) is interrupted or has a short circuit. Absence of the ground connection to terminal **4** of the electric door speaker (amplifier). Faulty electric door speaker.

No audio from the door station to the videointercoms.

The **2D** or **2** wire (from the timer to the door station) is interrupted or has a short circuit. Defective electric door speaker (amplifier).

Audio with humming in the background (50/60Hz).

The wires have been canalized together with the cables that power AC loads. Separate the ground connection of the electric door speaker (amplifier) and of the name plate lights, or power them with an additional transformer (see recommendations on page 146). Faulty power supply.

A whistle is heard at the external door station (Larsen effect).

The microphone hole of the external door station might be clogged. Lower the volume.

Radio reception on the door station.

The defect can occur when there is a transmitter working in the proximity. Apply a capacitor from $0.1\mu F$ between terminals 1 and 3 of the electric door speaker (amplifier).

Intercommunicating systems

During the intercommunication the door speaker is still connected.

The video system is ON (privacy towards the outside only when the video system is in standby). The module for intercommunicating has not been plugged in the timer art.1443E. Faulty timer.

No audio in the intercommunicating service.

The wall-brackets of the videointercoms have the J1 jumper in position of audio privacy. Defective module for intercommunicating. Faulty timer.

The intercommunicating calls does not work.

Faulty timer. Check that wire **7** is connected correctly. Check the button connections inside the intercoms.

System with more entrances

Entrance A is never activated.

Short circuit between ${\bf 5}$ and ${\bf 6}$ of the exchanger. Faulty exchanger.

Entrance B is never activated.

Short circuit between **3** and **4** of the exchanger. Faulty exchanger. No power supply to **1** and **2** of the exchanger (12Vac; 17÷21Vdc).





Additional diagrams

EXTENSION OF VIDEO INTERCOM SYSTEM

All installation diagrams in this technical manual are drawn with only one video intercom for each user. It is possible to "personalise" the installation by properly matching the applications on the following pages (page 222 to 229) to the basic diagrams (page 189 to page 217). Such examples refer to applications with one video intercom entrance. To realise systems with 2 or more audio/video entrances were more than one control switch ON is needed, use for this function the first buttons of the video intercom (P, P1, P2, etc.) and the lower ones (P3, P4, etc.) for the intercommunicating the video intercommunication thecalls.

In the basic diagrams the dashed lines identify the wires for control switch ON, whereas in the additional diagrams the dashed lines also refer to the wires for intercommunicating service.

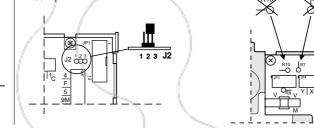
When the simultaneous switch ON of several video intercoms is needed and extra power supplies are to be added, do not forget that terminal IV of timer 1282E can be connected to a maximum of 3 power supplies 1281.

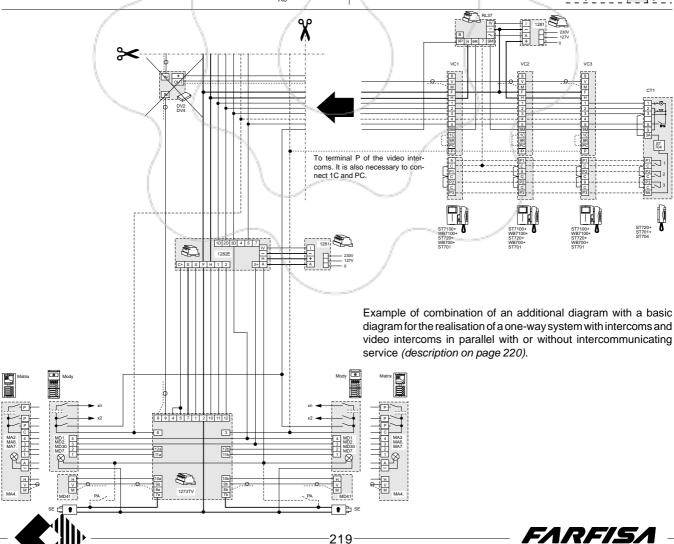
1443F

<u>6⊝6666</u>€

- 1) To provide the intercommunicating service, make the dashed connections, install the module 1443E inside timer 1282E.
- 2) The diode shown in this installation diagram must be connected to power video distributors DV2 and DV4. If the system is realized with twisted pair, or if video distributors are not used, the diode must not be connected.
- 3) If the video system is realized with coaxial cable connected in serial mode (input and output from the video intercom), you must **cut** the 75 Ω resistance R8 of the bracket and leave it only on the last video intercom.

- 4) (Only Studio series)
 - Additional diagrams refer to video connection with coaxial cable. If the system is realized with twisted pair, it is necessary to:
 - connect the pair to terminals X and Y and leave terminals V and
 - move the jumper J2 of bracket WB7100 from position 1-2 to 2-
 - if the installation diagram includes more than 2 video intercoms in parallel make the video connection with distributors DV..D (or connect them serially cutting the 75 Ω resistances R7 and R10 of bracket WB7100 and leaving them only on the last video intercom).





(MT11 - Gb2012)







EXTENSION OF VIDEO INTERCOM SYSTEM

Extension of ONE-WAY system

To realise a one-way system with several monitors and/or intercoms in parallel, with or without intercommunicating service, you must proceed as follows:

- make a photocopy of the additional diagram desired, selecting it among those of pages 222, 223, 224, 226 and 227;
- place the diagram on the basic diagram so as to cover the existing video intercom and line up the wires of the two diagrams:
- if specified in the additional diagram, connect the wires I and C (common terminal of additional buttons) to terminals IV and 7 of art. 1282E;
- to obtain the intercommunicating service, make the connections which have been drawn with a dashed line, install the 1443E module inside timer 1282E and move the jumper J1 of the videointercom bracket from position 2-3 to 1-2.

Example (see page 219): by making a photocopy of the additional diagram of page 224 (2 video intercoms and 1 intercom in parallel with or without intercommunicating service), placing it on the installation diagram of page 197 (Si 42MO/1), lining it up to the wires of the first video intercom and eliminating the second video intercom and the video distributor, it is possible to obtain a one-way system with 2 video intercoms and 1 intercom in parallel connected to 2 external video stations.

Extension in one apartment of a MULTI-WAY system

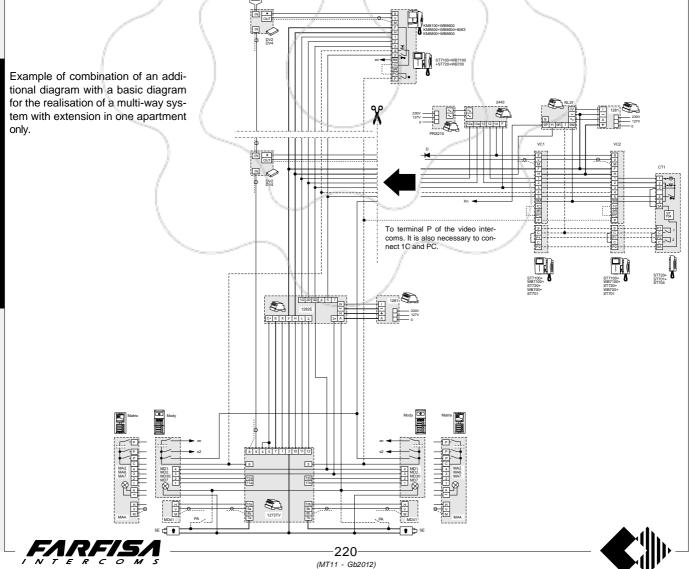
To realise a **multi-way** system with several video intercoms and/or intercoms in parallel in one apartment **with or without intercommunicating service**, you must proceed as follows:

- make a photocopy of the additional diagram desired, selecting it among those of pages 223, 225, 228 and 229;
- place the diagram on the basic diagram so as to cover the existing video intercom and line up the wires of the two diagrams;
- to obtain the intercommunicating service, make the connections which have been drawn with a dashed line and move the jumper J1 of the videointercom bracket from position 2-3 to 1-2.

Example: by making a photocopy of the additional diagram of page 224 (2 videointercoms and 1 intercom in parallel with or without intercommunicating service), placing it on the installation diagram of page 197 (Si 42MO/1), lining it up to the wires of the first video intercom, it is possible to obtain a multi-way system with 2 video intercoms and 1 intercom in parallel in one apartment and intercommunicating connected to 2 external video stations.

Extension of a MULTI-WAY system in several apartments

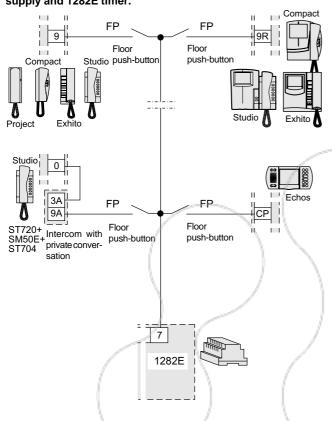
To realise a **multi-way** system with several video intercoms and/or intercoms in parallel in 2 or more apartments **with or without intercommunicating service**, you must repeat the operations described in the preceding section several times.



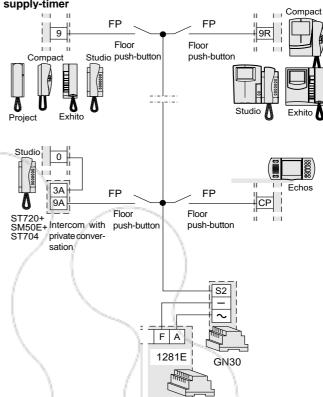
Floor call

In all the installation schematics it is possible to have a floor call with different sound from the one coming from the push button panel, by adding a conductor to the riser connected to all the buttons of the floor calls. The other terminal of each button has to be connected to the user intercom or videointercom.

Connection of the floor call on an installation with 1281 power supply and 1282E timer.



Connection of the floor call on an installation with 1281E power supply-timer

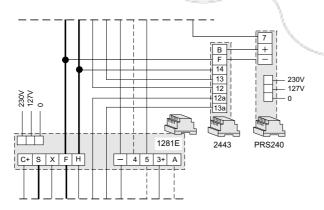


When in the installation 1281E power supply-timer is foreseen, in order to have a differentiated chime, add GN30 ringer generator.

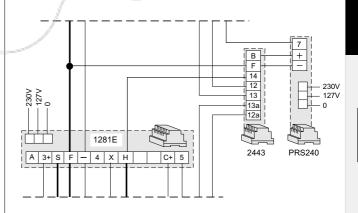
Installation of 1281E power supply-timer in ONE-WAY systems with intercommunicating service

In order to have the intercommunicating service amongst intercoms and/or videointercoms with privacy towards the external station, it is necessary to install inside 1282E timer the 1443E intercommunicating module. If the installation has to use 1281E power supply-timer it is necessary to add, and properly connect, a 2443 relay-amplifier and a PRS240 power supply (see schematics).

Application on all one- or multi-way systems with one or more main entrances. Schematics from page 189 to page 203.



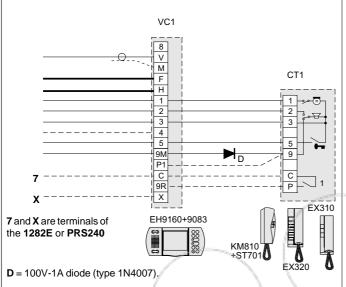
Application on all multi-way systems with main and secondary entrances. Schematics from page 205 to page 217.







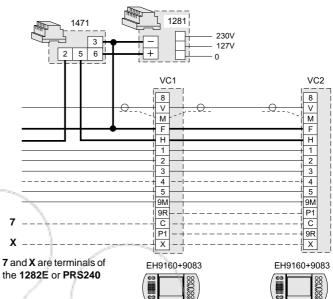
1 VIDEO INTERCOM AND 1 INTERCOM WITH INTERCOMMUNI-CATING SERVICE FOR ONE-WAY SYSTEMS



Notes

- On the videointercoms **EH9160** verify that jumper **J5** is in position **2-3** (see page 94).
- If push-button **P1** of the videointercom is used for other functions, use pushbuttons from P3 to P6 and check that jumper **J6** is in position **2-3**.
- Read note 1 of page 219.

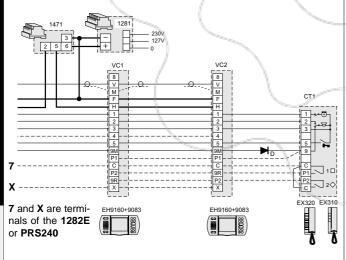
2 VIDEO INTERCOMS WITH INTERCOMMUNICATING SERVICE FOR ONE-WAY SYSTEMS



Notes

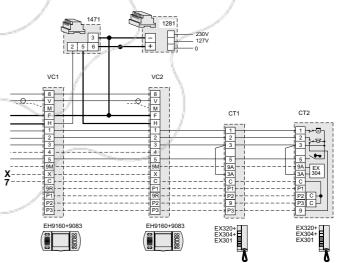
- On the videointercoms **EH9160** verify that jumper **J5** is in position **2-3** (see page 94).
- If pushbutton P1 of the videointercom is used for other functions, use pushbuttons from P3 to P6 and check that jumper J6 is in position 2-3.
- Read notes 1 and 3 of page 219.

2 VIDEO INTERCOMS AND 1 INTERCOM WITH INTERCOMMUNI-CATING SERVICE FOR ONE-WAY SYSTEMS



D = 100V-1A diode (type 1N4007).

2 VIDEO INTERCOMS AND 2 INTERCOMS WITH INTERCOMMUNICATING SERVICE FOR ONE-WAY SYSTEMS



7 and X are terminals of the 1282E or PRS240

Notes

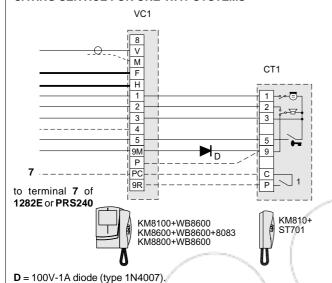
- On the videointercoms EH9160 verify that jumper J5 is in position 2-3 (see page 94).
- If pushbutton P1 and P2 of the videointercom is used for other functions, use pushbuttons from P3 to P6 and check that jumper J6 is in position 2-3
- Read notes 1 and 3 of page 219.

- On the videointercoms $\bf EH9160$ verify that jumper $\bf J5$ is in position 2-3 (see page 94).
- If pushbutton P1 and P2 of the videointercom is used for other functions, use pushbuttons from P3 to P6 and check that jumper J6 is in position 2-
- Read notes 1 and 3 of page 219.



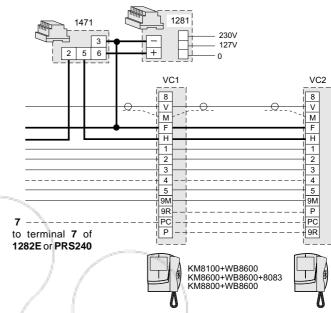


1 VIDEO INTERCOM AND 1 INTERCOM WITH INTERCOMMUNI-**CATING SERVICE FOR ONE-WAY SYSTEMS**



FOR ONE-WAY SYSTEMS

2 VIDEO INTERCOMS WITH INTERCOMMUNICATING SERVICE

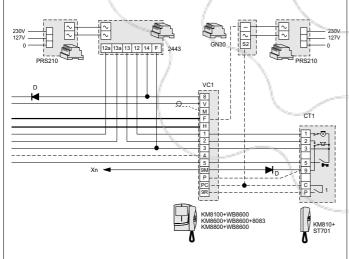


Notes

- On the videointercom bracket to move the jumper J1 from position 2-3 to 1-2 (see page 100) for the intercommunicating service.
- Read note 1 of page 219.

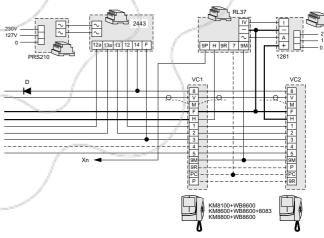
- On the videointercom bracket to move the jumper J1 from position 2-3 to 1-2 (see page 100) for the intercommunicating service.
- Read notes 1 and 3 of page 219.

1 VIDEO INTERCOM AND 1 INTERCOM WITH INTERCOMMUNI-**CATING SERVICE FOR MULTI-WAY SYSTEMS**



D= 100V-1A diode (type 1N4007).

2 VIDEO INTERCOMS WITH INTERCOMMUNICATING SERVICE FOR MULTI-WAY SYSTEMS



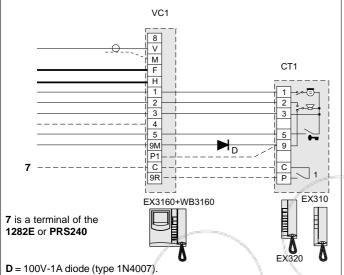
D = 100V-1A diode (type 1N4007).

- On the videointercom bracket to move the jumper J1 from position 2-3 to 1-2 (see page 100) for the intercommunicating service.
- Read note 2 of page 219.

- On the videointercom bracket to move the jumper J1 from position 2-3 to 1-2 (see page 100) for the intercommunicating service.
- Read notes 2 and 3 of page 219.



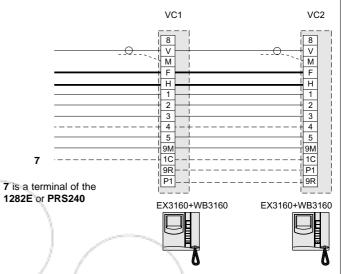




Notes

- On the videointercom bracket to move the jumper **J1** from position **2-3** to **1-2** (see page 97) for the intercommunicating service.
- Read note 1 of page 219.

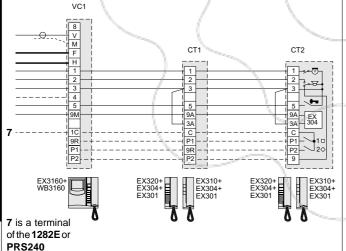
2 VIDEO INTERCOMS WITH INTERCOMMUNICATING SERVICE



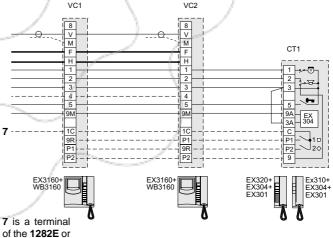
Notes

- On the videointercom bracket to move the jumper J1 from position 2-3 to
 1-2 (see page 97) for the intercommunicating service.
- Read notes 1 and 3 of page 219.

1 VIDEO INTERCOM AND 2 INTERCOMS WITH INTERCOMMUNICATING SERVICE



2 VIDEO INTERCOMS AND 1 INTERCOM WITH INTERCOMMUNI-CATING SERVICE



Notes

- On the videointercom bracket to move the jumper **J1** from position **2-3** to **1-2** (see page 97) for the intercommunicating service.
- Read note 1 of page 219.

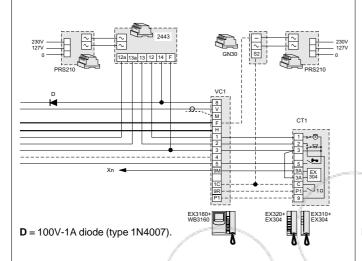
Notes

PRS240

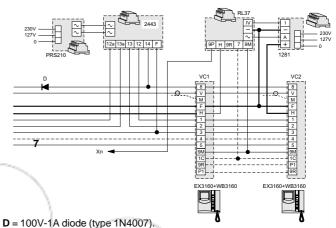
- On the videointercom bracket to move the jumper J1 from position 2-3 to
 1-2 (see page 97) for the intercommunicating service.
- Read notes 1 and 3 of page 219.







2 VIDEO INTERCOMS WITH INTERCOMMUNICATING SERVICE



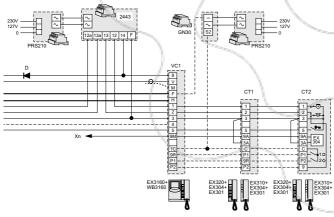
Notes

- On the videointercom bracket to move the jumper **J1** from position **2-3** to **1-2** (see page 97) for the intercommunicating service.
- Read note 2 of page 219.

Notes

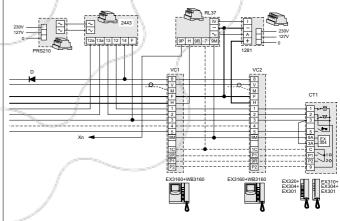
- On the videointercom bracket to move the jumper J1 from position 2-3 to
 1-2 (see page 97) for the intercommunicating service.
- Read notes 2 and 3 of page 219.

1 VIDEO INTERCOM AND 2 INTERCOMS WITH INTERCOMMUNICATING SERVICE



D= 100V-1A diode (type 1N4007).

2 VIDEO INTERCOMS AND 1 INTERCOM WITH INTERCOMMUNICATING SERVICE



D = 100V-1A diode (type 1N4007).

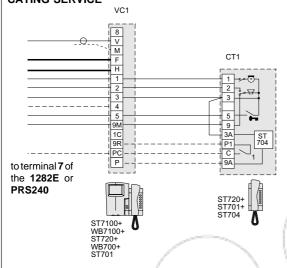
Notes

- On the videointercom bracket to move the jumper **J1** from position **2-3** to **1-2** (see page 97) for the intercommunicating service.
- Read note 2 of page 219.

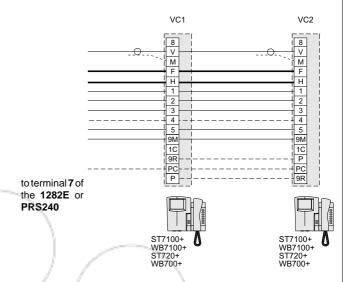
- On the videointercom bracket to move the jumper **J1** from position **2-3** to **1-2** (see page 97) for the intercommunicating service.
- Read notes 2 and 3 of page 219.







2 VIDEO INTERCOMS WITH INTERCOMMUNICATING SERVICE



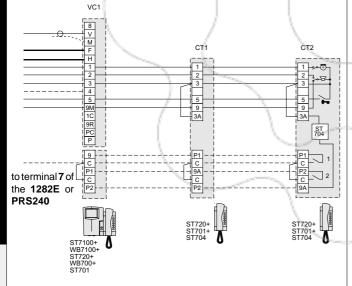
Notes

- On the videointercom bracket to move the jumper **J1** from position **2-3** to **1-2** (see page 107) for the intercommunicating service.
- Read notes 1 and 4 of page 219.

Notes

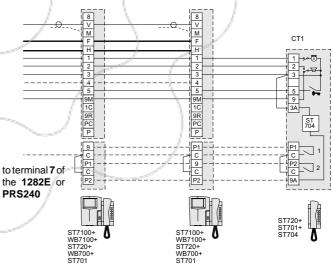
- On the videointercom bracket to move the jumper J1 from position 2-3 to
 1-2 (see page 107) for the intercommunicating service.
- Read notes 1, 3 and 4 of page 219.

1 VIDEO INTERCOM AND 2 INTERCOMS WITH INTERCOMMUNICATING SERVICE



2 VIDEO INTERCOMS AND 1 INTERCOM WITH INTERCOMMUNICATING SERVICE

VC2



Notes

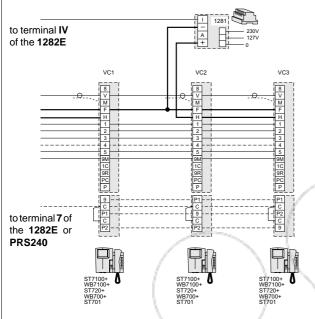
- On the videointercom bracket to move the jumper **J1** from position **2-3** to **1-2** (see page 107) for the intercommunicating service.
- Read notes 1 and 4 of page 219.

- On the videointercom bracket to move the jumper J1 from position 2-3 to
 1-2 (see page 107) for the intercommunicating service.
- Read notes 1, 3 and 4 of page 219.





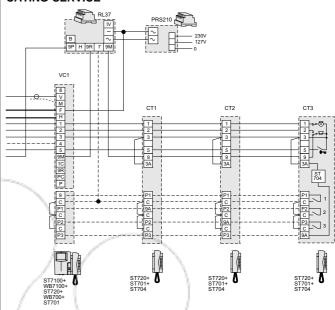
3 VIDEO INTERCOMS WITH INTERCOMMUNICATING SERVICE



Notes

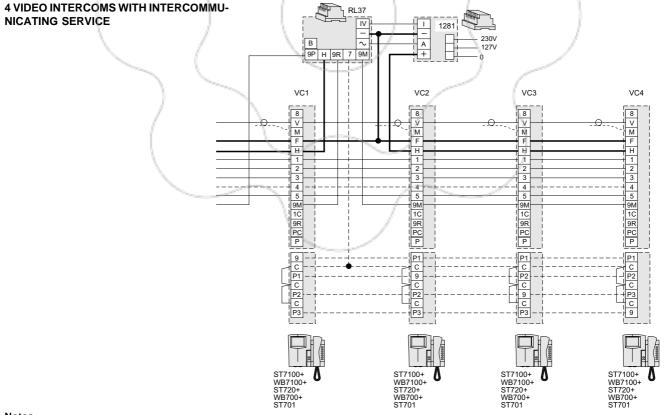
- On the videointercom bracket to move the jumper J1 from position 2-3 to
 1-2 (see page 107) for the intercommunicating service.
- Read notes 1, 3 and 4 of page 219.

1 VIDEO INTERCOM AND 3 INTERCOMS WITH INTERCOMMUNICATING SERVICE



Notes

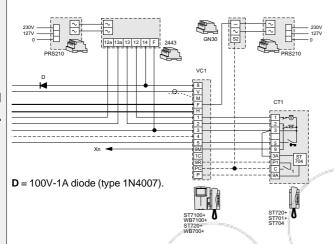
- On the videointercom bracket to move the jumper **J1** from position **2-3** to **1-2** (see page 107) for the intercommunicating service.
- Read notes 1 and 4 of page 219.



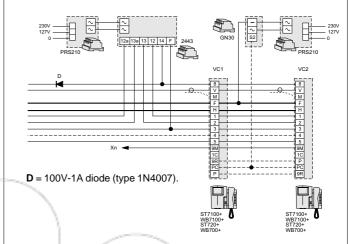
- On the videointercom bracket to move the jumper **J1** from position **2-3** to **1-2** (see page 107) for the intercommunicating service.
- Read notes 1, 3 and 4 of page 219.







2 VIDEO INTERCOMS WITH INTERCOMMUNICATING SERVICE



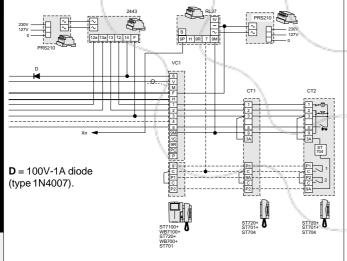
Notes

- On the videointercom bracket to move the jumper **J1** from position **2-3** to **1-2** (see page 107) for the intercommunicating service.
- Read notes 2 and 4 of page 219.

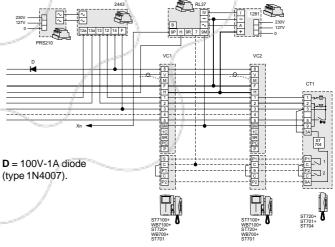
Notes

- On the videointercom bracket to move the jumper **J1** from position **2-3** to **1-2** (see page 107) for the intercommunicating service.
- Read notes 2, 3 and 4 of page 219.

1 VIDEO INTERCOM AND 2 INTERCOMS WITH INTERCOMMUNICATING SERVICE



2 VIDEO INTERCOMS AND 1 INTERCOM WITH INTERCOMMUNICATING SERVICE



Notes

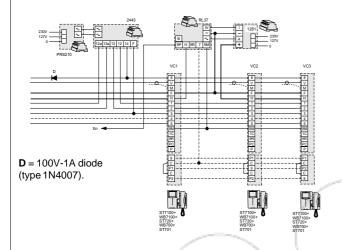
- On the videointercom bracket to move the jumper **J1** from position **2-3** to **1-2** (see page 107) for the intercommunicating service.
- Read notes 2 and 4 of page 219.

- On the videointercom bracket to move the jumper **J1** from position **2-3** to **1-2** (see page 107) for the intercommunicating service.
- Read notes 2, 3 and 4 of page 219.

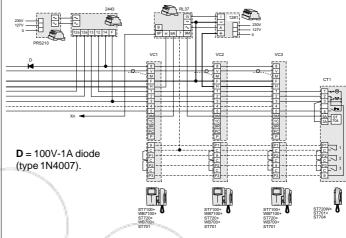




3 VIDEO INTERCOMS WITH INTERCOMMUNICATING SERVICE



3 VIDEO INTERCOMS AND 1 INTERCOM WITH INTERCOMMUNI-CATING SERVICE



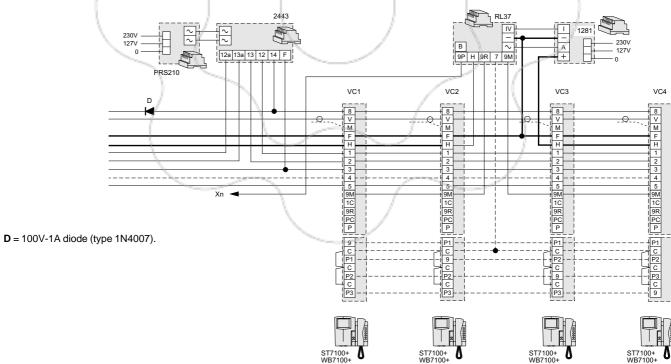
Notes

- On the videointercom bracket to move the jumper J1 from position 2-3 to 1-2 (see page 107) for the intercommunicating service.
- Read notes 2, 3 and 4 of page 219.

Notes

- On the videointercom bracket to move the jumper J1 from position 2 3 to 1-2 (see page 107) for the intercommunicating service.
- Read notes 2, 3 and 4 of page 219.





- On the videointercom bracket to move the jumper **J1** from position **2- 3** to **1-2** (see page 107) for the intercommunicating service.
- Read notes 2, 3 and 4 of page 219.





List of article that can be used in electronic call systems with page reference.

Article	Description Pag	ge ref.	Article	Description P	age ref.
241D	Module with diodes for 2 users. Mody series	40	MD74	Back box with frames for 4 modules. Mody series	38
241DMA	Module with diodes for 4 users. Matrix series	24-33	MD81	Hood cover for 1 module. Mody series	38
1181E	Timed power supply	47	MD82	Hood cover for 2 modules. Mody series	38
1443ED	Intercommunicating module	48	MD83	Hood cover for 3 modules. Mody series	38
1471	1-contact relay unit	49	MD84	Hood cover for 4 modules (2 frames with 2 modules)	38
1471E	1-contact relay unit	49	MD804	Hood cover for 4 modules (1 frame with 4 modules)	38
1472	2-contact relay unit	49	MD86	Hood cover for 6 modules (2 frames with 3 modules)	38
1473	4-contact exchanger	48	MD808	Hood cover for 8 modules (2 frames with 4 modules)	38
9083	Back-box for Echos videointercoms	5	MD89	Hood cover for 9 modules (3 frames with 3 modules)	38
AG20	Blank module for Agorà series	16	MD812	Hood cover for 12 modules (3 frames with 4 modules)	38
AG21	Single button module for Agorà series	16	MD91	Rain shelter for 1 module. Mody series	38 38
AG222 AG30ED	Double button unit for Agorà series Door speaker for Agorà series	16 16	MD92 MD93	Rain shelter for 2 modules. Mody series Rain shelter for 3 modules. Mody series	38
	Colour camera and door speaker for Agorà series	16	MD93	Rain shelter for 4 modules (2 frames with 2 modules)	38
AG100A	Intercom door station for Agorà series	16	MD904	Rain shelter for 4 modules (2 frames with 2 modules)	38
AG100T	Door station additional buttons for Agorà series	16	MD96	Rain shelter for 6 modules (2 frames with 3 modules)	38
AG100V	Videointercom door station for Agorà series	16	MD908	Rain shelter for 8 modules (2 frames with 4 modules)	38
DV2D	2-output video distributor	51	MD99	Rain shelter for 9 modules (3 frames with 3 modules)	38
DV4D	4-output video distributor	51	MD912	Rain shelter for 12 modules (3 frames with 4 modules)	38
EH9161C7	Hands-free colour videointercom for Echos series	4	MD222	Button module with 2 push-buttons, 2 row. Mody series	39
	V Hands-free colour videointercom for Echos series	4	MD224	Button module with 4 push-buttons, 2 row. Mody series	
EX301	Single button module for Exhito intercoms	11-12	MD226	Button module with 6 push-buttons, 2 row. Mody series	
EX304	Additional loudspeaker for Exhito intercoms	13	MD228	Button module with 8 push-buttons, 2 row. Mody series	
EX311	Intercom with 2 expandable button to 3. Exhito series	11		Module with door speaker, without buttons. Profilo serie	
EX321 EX332	Extendable intercom Exhito series	12 13		Module with door speaker, with 1 button. Profilo series Module with door speaker, with 2 buttons. Profilo series	23 s 23
EX3100C	3 Led module for EX321 intercom Colour LCD videointercom with 3 buttons. Exhito series	9	PL20	Blank module Profilo series	23
EX3160	Flat videointercom. Exhito series	9	PL21	Module without door speaker, with 1 button. Profilo series	
	Colour LCD videointercom. Exhito series	9	PL.22	Module without door speaker and with 2 buttons. Profile	
	Access control keypad. Matrix series	33	PL23	Module without door speaker and with 3 buttons. Profile	
FC52P	Access control keypad. Mody series	/ 39	PL24	Module without door speaker and with 4 buttons. Profile	s. 23
FC52PL	Access control keypad. Profilo series	25	196	Camera module, door speaker, without buttons. Profile	
FP52	Proximity reader for access control. Mody series	39	Y ₁	Colour camera module, speaker, without buttons. Pro	
FP52PL	Proximity reader for access control. Profilo series	25		Camera module, door speaker, 1 button. Profilo series	
KM811W	Intercom with 1 expandable button to 2. Compact series			Compre module, door speaker, 1 button. Profile	
	Colour LCD videointercom. Compact series White Flat videointercom Compact series	14 14		Camera module, door speaker, 2 buttons. Profilo serie Colour camera module, door speaker, 2 buttons. Prof	
	D Module with door speaker, without buttons. Matrix serie			formation number module. Profile series	23
	D Module with door speaker and with 1 button. Matrix series		.00	ack box with frames for 1 module. Profilo series	22
	D Module with door speaker and with 2 buttons. Matrix serie	The second second	1000	ack box with frames for 2 modules. Profilo series	22
MAS20	Blank module Matrix series	33	PL73 Ba	ack box with frames for 3 modules. Profilo series	22
MAS22	Module without door speaker, with 2 buttons. Matrix series	es 33	PL81 H	ood cover for 1 module. Profilo series	22
MAS24	Module without door speaker, with 4 buttons. Matrix series			ood cover for 2 modules. Profilo series	22
	D Colour camera module, door speaker and 1 button. Matr			ood cover for 3 modules. Profilo series	22
	Camera module with door speaker and 1 button. Matrix s	200	100	ood cover for 4 modules. Profile series	22
MA61 MAS61	Front frame for 1 module. Matrix series	31 31		ood cover for 6 modules. Profilo series ood cover for 9 modules. Profilo series	22 22
MA62	Front frame for 1 module. Matrix series Front frame for 2 modules. Matrix series	31		ain shelter for 1 module. Profilo series	22
MAS62	Front frame for 2 modules. Matrix series	31		ain shelter for 2 modules. Profilo series	22
MA63	Front frame for 3 modules. Matrix series	31		ain shelter for 3 modules. Profilo series	22
MAS63	Front frame for 3 modules. Matrix series	31		ain shelter for 4 modules. Profilo series	22
MA71	Back box with frames for 1 module. Matrix series	31	PL96 R	ain shelter for 6 modules. Profilo series	22
MA72	Back box with frames for 2 modules. Matrix series	31		ain shelter for 9 modules. Profilo series	22
MA73	Back box with frames for 3 modules. Matrix series	31		odule with 6 buttons, 2 row, Profilo series	23
MA91	Rain shelter with frames for 1 module. Matrix series	31		odule with 8 buttons, 2 row, Profilo series	23
MA92	Rain shelter with frames for 2 modules. Matrix series	31	PRS210	Transformer 13Vac - 15VA Transformer with electronic ringing 13Vac - 15VA	47 47
MA93 MD10ED	Rain shelter with frames for 3 modules. Matrix series Module with speaker and without buttons. Mody series	31 40		Transformer with electronic ringing 13Vac - 15VA White intercom with 1 push-button. Project series	47 15
MD10ED	Module with speaker and with 1 button. Mody series	40	RL36	Relay module for intercoms	13
MD12ED	Module with speaker and with 2 buttons. Mody series	40	RL37D	Supplementary call module	47
MD20	Blank module. Mody series	39	SM50	Private conversation module for intercoms	13
MD21	Button module with 1 push-button. Mody series	39	SR41	Electronic buzzer module for intercoms	13
MD22	Button module with 2 push-buttons. Mody series	39	ST703	Ringing volume adjustment for Exhito intercom	13
MD23	Button module with 3 push-buttons. Mody series	39	TA320	Desk adapter for intercom. Exhito series	12
MD24	Button module with 4 push-buttons. Mody series	39	TA3160	Desk adapter for videointercom. Exhito series	10
MD41D	Camera module Mody series	39	TA9160	Desk adapter for videointercom. Echos series	6
MD50 MD71	Information number module. Mody series Back box with frames for 1 module. Mody series	39 38	WA9100T WA9100W	Wall adaptor for the EH9161CT videointercom Wall adaptor for the EH9161CW videointercom	6 6
MD71	Back box with frames for 2 modules. Mody series	38	WB3161	Wall bracket for videointercoms. Project series	9
MD73	Back box with frames for 3 modules. Mody series	38	WB8111	Wall bracket for videointercoms. Compact series	14





PRODUCT LIST

List of article that can be used in electronic call systems with page reference.

Article	Description Pag	e ref.	Article	Description	Page ref.
337C	Electric door-speaker for ErreP/R push-button panel	140	MD23	Button module with 3 push-buttons. Mody series	130
476	5-output video distributor	148	MD24	Button module with 4 push-buttons. Mody series	130
1273TV	7-contact exchanger	143	MD30	Electric door speaker. Mody series	130
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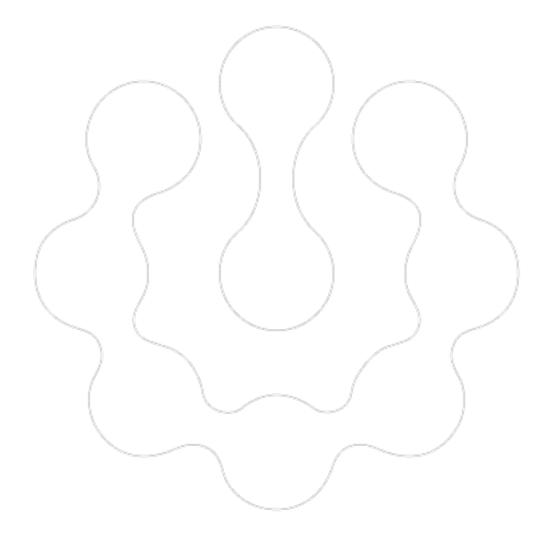




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