ELECTRONIC CALL SYSTEM



TECHNICAL MANUAL 2012

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INTRODUCTIONNotice to the installer and userThis edition contains helpful information on the operation and installa- tion of Farlisa video intercoms systems.Check the integrity of the product after removing it from the packing.In order to make the systems work properly it is necessary to install ordigaram.Check the integrity of the product after removing it from the packing.Parking quipment, keeping strictly to the items referred to in each diagram.Check the integrity of the product after removing it from the packing.Read all the notes carefully. (even the small ones) in each installation scheme and the working instructions of the system given in the ollowing pages.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.For the sake of clarity, please notice that the sequence of the terminals or number) is valid not the graphic sequence.An all-pole mains switch with a contact separation of at least 3mm in each pole shall be incorporated in the electrical installa- tion of the building.Before connecting the unit, make sure its data correspond to those of the mains.For correct operation make sure that ventilation or heat dissipa- tion 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 burping and hitting the video intercom apparatus when they are ON. There is high voltage inside.For installation or maintenance refer only to qualified person- nel.		
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European Mark of conformity to the EEC Directives.

CEMARK

CE

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 Decla-

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.

ANIE

Italian Association of Electrotechnical and Electronic Industries

TECHNICAL MANUAL 11

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 user).
- 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 secondary 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; hanging up the handset the system switches back to the stand-by mode. Systems which are using the power supply-timer art.1181E and 1281E switch back to the stand-by mode only when the enabling time expires.
- **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

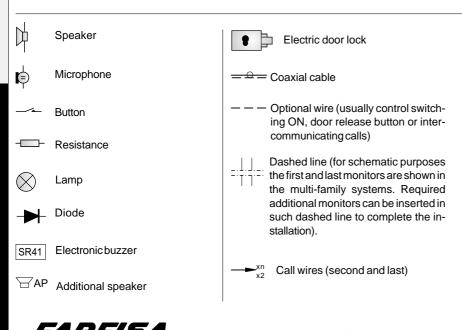
The following options are possible for **external door stations** and **internal stations**:

- 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")

Graphic symbols

The following symbols are used in the installation diagrams:



	INTER	COMS	VIDEO- INTERCOMS	
Series	1+1	4+1	4+1	7+1
Internal static	ons			
Echos * Exhito Compact Studio Project	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	* * * *	>>>	* * * * *
External door	statio	ns		
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



INTERCOMS AND VIDEOINTERCOMS SYSTEMS

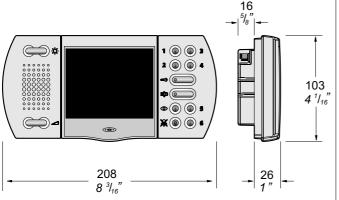
REDUCED WIRES TECHNOLOGY

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VIDEOINTERCOMS



<u>EH9161CT</u>. 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.

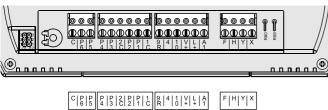
<u>EH9161CW</u>. Hands-free videointercom with same features as above, in white colour finish. It can be installed on the wall by using the back box art.9083 or wall adaptor WA9100W.

Technical characteristics

Powersupply:	18÷24Vdc
Operating current:	0.4A
Screen:	3.5" LCD
Television standard:	PAL
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 (1))
- 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 Sonvice buttons (may 50 m A)
- P1 P2 Service buttons (max 50mA)
- **2C** Common contact for buttons P3, P4, P5 and P6
- P3 ÷ P6 Service buttons (max 50mA)
- C Electronic call input for intercommunicating calls (common contact for buttons P1÷P6 determined by the position of the jumpers J11 and J12)



FARFISA -

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)
(*) Factory se	etting	J11	J12
1 - 2 Intercommuni	catingcalls		
2 - 3 Control switch	ingON		
Free contacts commons 1C		3 2 1	

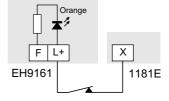
Supplementary functions

Floor call

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

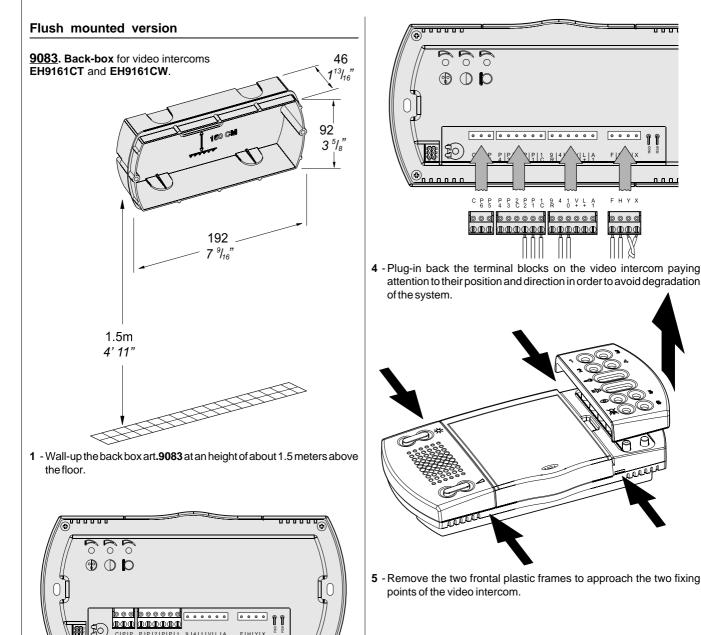
Door-open's warning and other functions

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



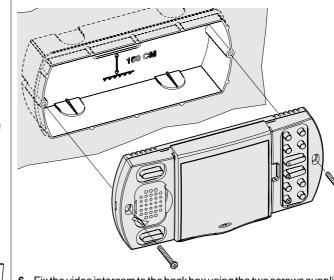
Closed contact the orange LED is ON. Open contact the orange LED is OFF.





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



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PIPI2|PIPI

2 - Unplug the terminal block from the video intercom.

3 - Make the connections as required by the electric diagram to wire. If the system provides for

the use of the buttons from 1 to 6, move the jumpers J11 and J12, located on the back of

the video intercom, according to the required

function (see table on page 4).

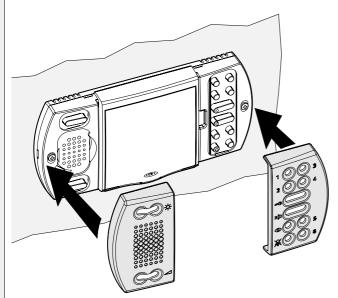


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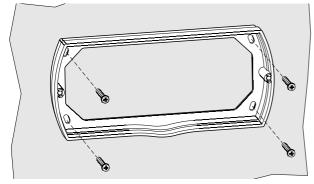
5 (MT11 - Gb2012)



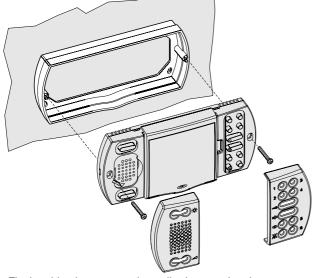
7 - Re-insert the two frontal plastic frames to the video intercom.

Surface mounted version

<u>WA9100T</u>. Wall adaptor for the EH9161CT videointercom. <u>WA9100W</u>. Wall adaptor for the EH9161CW videointercom.

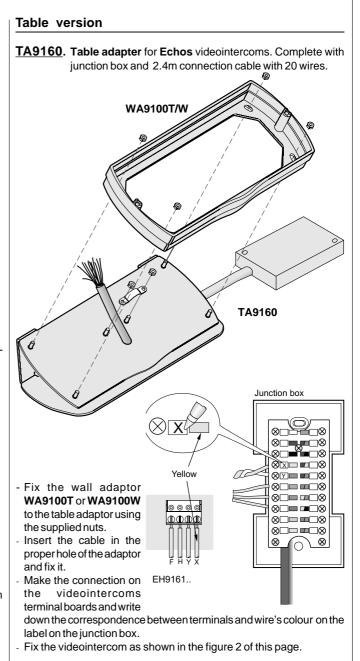


1 - Fix the adapter to the wall with 4 expansion plugs at approx. 1.5m from the floor.



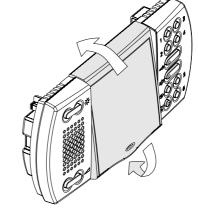
2 - Fix the video intercom to the wall adaptor using the two screws supplied with the product.



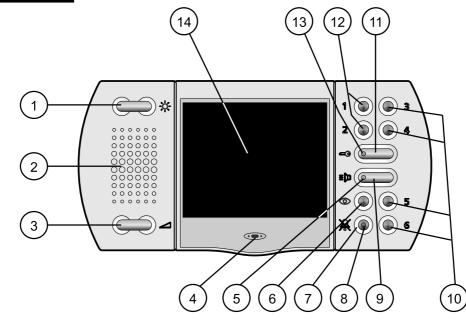


Display adjustment

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
- 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.
- 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.

- ④ Audio communication button ≡D. It allows to enable the audio communication with the door station or another intercom after receiving a call or a *control switching ON operation* (). The audio communication is end pressing again the button or if the communication time expires.
- (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;
 - 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.
- (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.

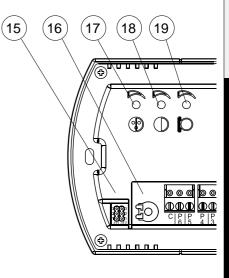
(3) Orange LED. The LED lights-up when at the terminal L+ is connected a positive voltage (8÷12Vdc). To signal an open-door

(MT11 - Gb2012)

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.
- (16) Microphone sensitivity adjustment MIC.SENS.
- (17) Colour adjustment (P).
- (18) Contrast adjustment ().

(9) Adjustment of the microphone amplifier .





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ADJUSTMENTS

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+1 INTERCOMS

4+1 VIDEOINTERCOMS

Brightness adjustment.

With the video intercom switched ON, press left and right the button ic to adjust the brightness of the image. To store the current setting press the button = D. The pressure of 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.

When you receive a call from the door station or from another intercommunicating equipment it is possible to adjust the level of the ringing sound pressing left and right the button *A*. To store the current setting press the button $\equiv \mathbf{b}$.

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 \equiv in to enable the communication. To set the receiving audio level (loudspeaker) press left and right the button *A*. To store the selected level press the button = D. 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 intercom between talk and listening function decrease the level of the preferred function and increase the other one by acting on the button *a* or on the trimmer of the videointercom.

FARFI

- 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: -toswitchON 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 necessarv:

- to press the button *to verify the number* of the rings currently programmed;
- to press left and right the button *a* 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 X 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 o 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 favorite ringer tone, keep the K 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 = 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 X; 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. To get also the audio it is sufficient to press the button ED. 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.

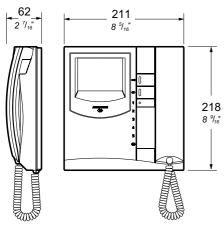
Door lock release

To operate the electric door lock release press the button a 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.



VIDEOINTERCOMS



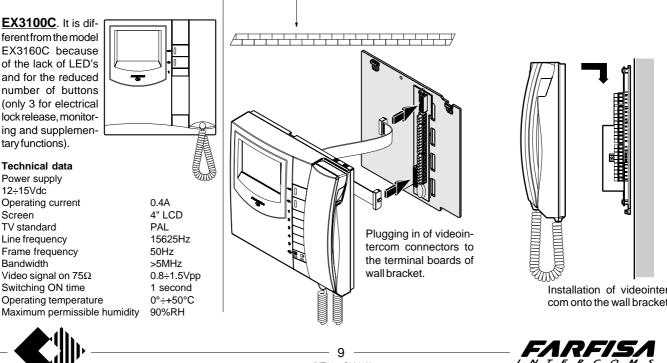
EX3160. White Flat videointercom with private audio-video function, electronic microphone, differentiated double electronic ringing sounds (modulated and continuous) and terminal board for the connection to the wall bracket. Equipped with led's and 2 buttons for camera control switch ON and door-open. 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÷15Vdo
Operating current	0.4A
Monitor	4" FLAT (
TV standard	CCIR-625
Line frequency	15625Hz
Frame frequency	50Hz
Bandwidth	>5MHz
Video signal on 75 Ω	0.8÷1.5Vp
Switching ON time	2 second
Operating temperature	0°÷+50°C
Maximum permissible humidity	90%RH

EX3160C. Version of EX3160 video intercom with colour LCD.



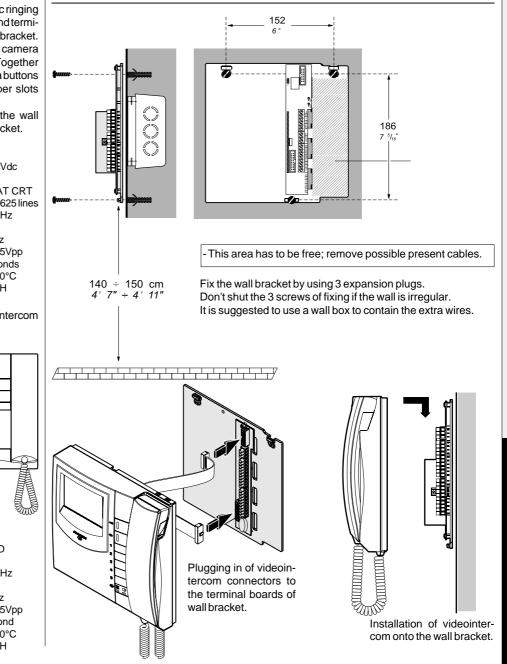
WB3161. Wall bracket for EX3100C, EX3160 and EX3160C video intercoms with terminal boards for connection to the system and an electronic circuit to convert the video signal from coax cable to a balanced twisted pair.

Terminals

- Х Balanced negative video signal input
- Υ Balanced positive video signal input F Ground
- н Positive voltage input (+18-24Vdc)
- 10 Call, audio reception/transmission, door releasing
- 4 Control switching ON (button ())
- Electronic call input from other intercommunicating devices A1 Common contact for P1, P2, P3 (P2-P3 only for EX3160, EX3160C) 1C
- **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



F P٤ 20 L1-P6 L1-P6 L2 L3 L3-Rt R

EXHITO series

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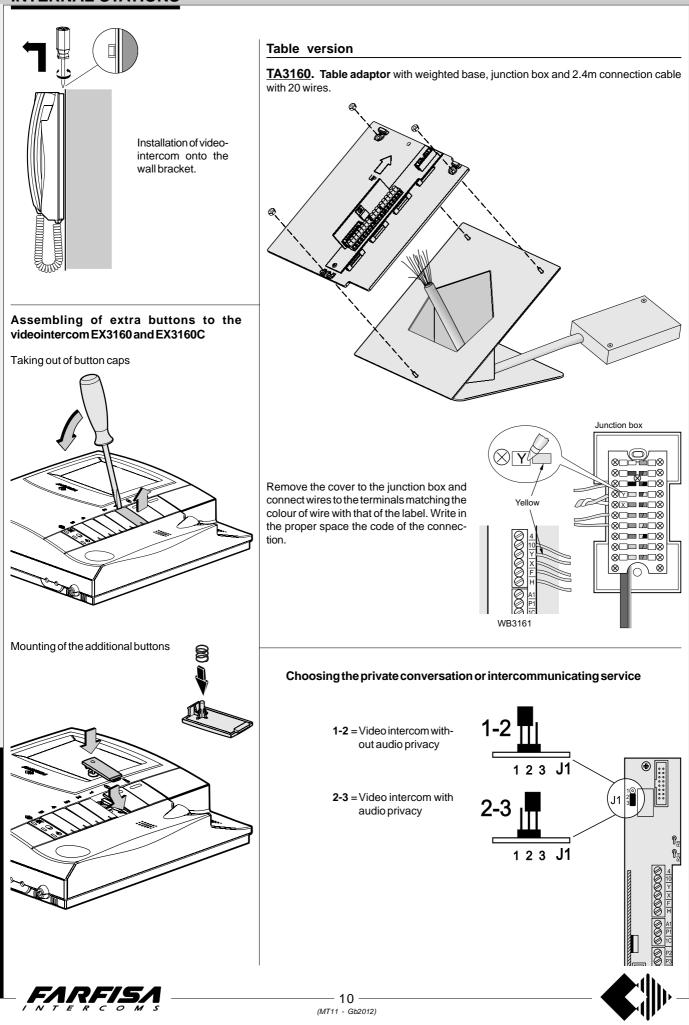
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Wall version

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INTERCOMS

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EXHITO series



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EX311. White electronic intercom with two push-buttons, spiral cord, electronic microphone and possibility to insert an additional **EX301** push-button and a **SR41 or SM50** module. Wall-mountable with expansion plugs or wallbox.

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Terminals

- audio line, bell and door release control
 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.

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 (*).

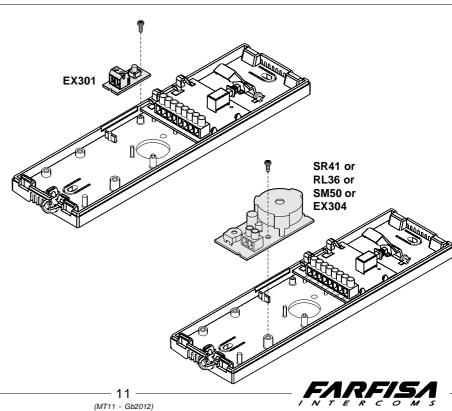
RL 36. Relay module (*).

SM50. Private conversation module (*).

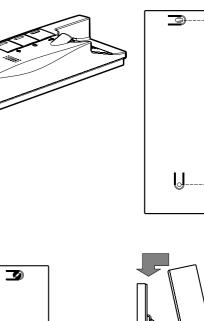
SR41. Electronic buzzer module (*).

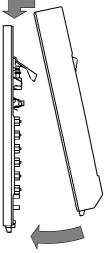
(*) for the connections and the characteristics of the modules refer to page 13.





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EXHITO series

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Junction box

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EX321

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TA320. Table adaptor with weighted base, junction box and 2.4m

Remove the cover of the junction

box and connect wires to the termi-

nals matching the colour of wire with

that of the label. Write in the proper

space the code of the connection.

83.5 3 ¹/₄

Table version

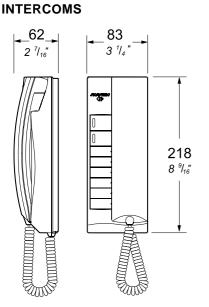
connection cable with 20 wires.

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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.

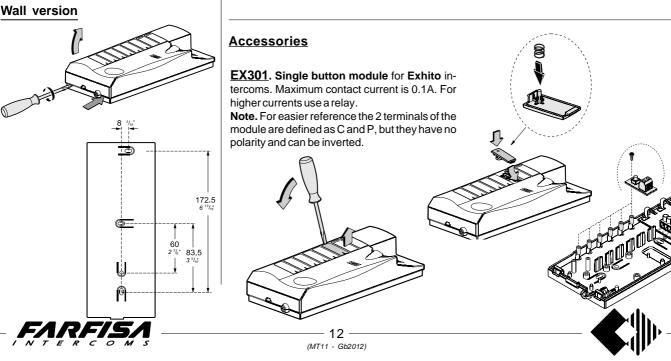
Terminals

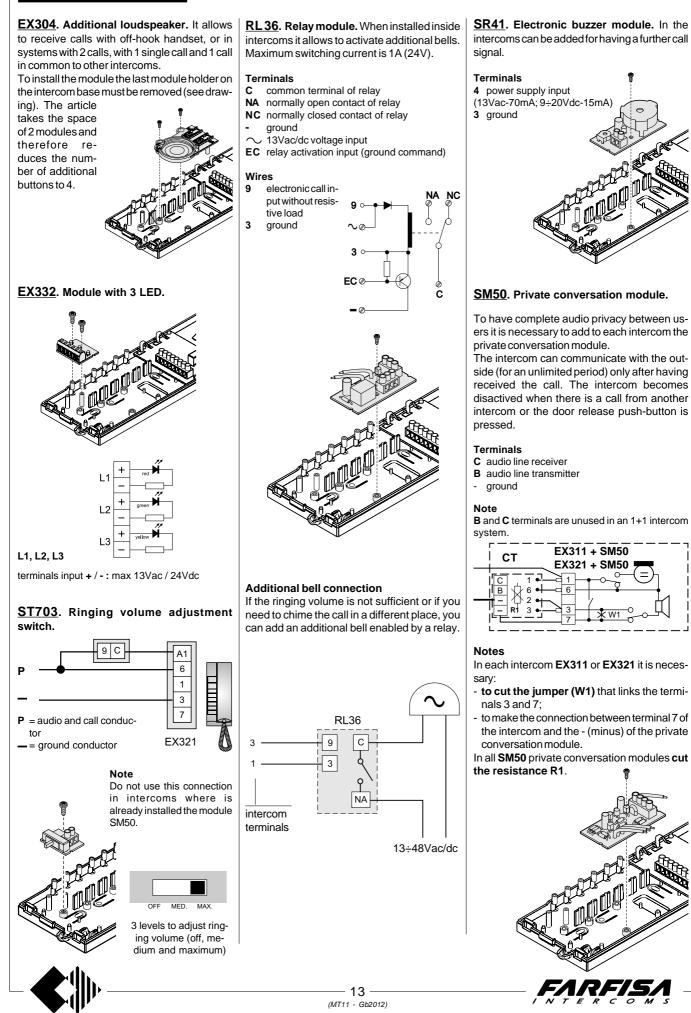
- audio line, bell and door release control 1
- ground 3
- 6 output electronic bell*
- ground. Connected to terminal 3 with 7 jumper W1
- A1 floor call or intercommunicating call input
- Ρ service push-button
- common contact for **P** push-button С

terminals to be used when installing the private conversation module SM50 in the intercom.

Wall version

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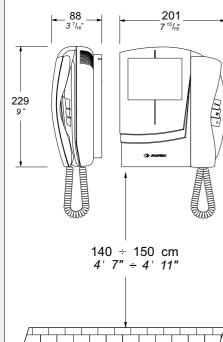
VIDEOINTERCOMS

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+1 INTERCOMS

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4+1 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 (KM8111	IW) CCIR-625 lines
Television standard (KM811	1CW) PAL
Horizontal frequency	15625Hz
Vertical frequency	50Hz
Bandwidth	>5MHz
Videosignal	balanced
Starting up time (KM8111W)	2÷4 seconds
Starting up time (KM8111CV	V) 1 second
Operating temperature	0°÷+50°C
Max. permissible humidity	90%RH

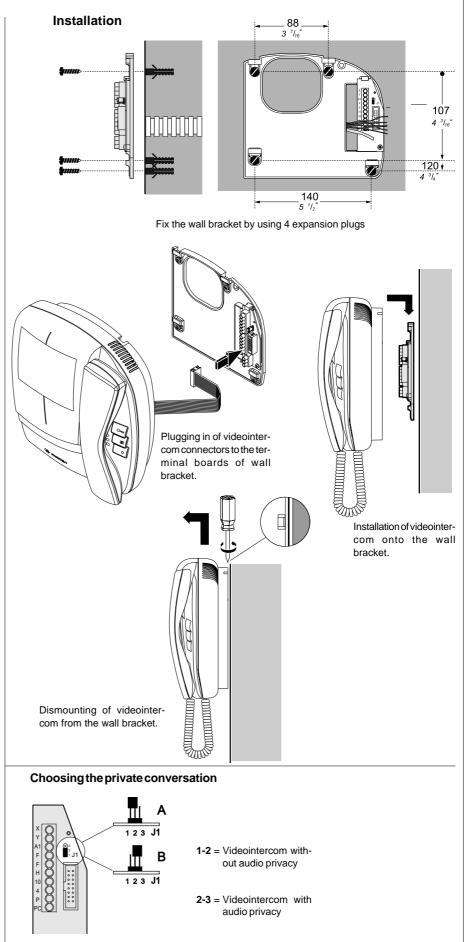
Terminals

M

P

- H Positive power supply input 18÷24Vdc-0.5A
 F Ground
 X and Y Video signal input
 10 Call, audio reception/transmission, door releasing
- Control switch ON button •
- A1 Floor call input
- PC P Service push-buttons (max 0.3A)

COMPACT series

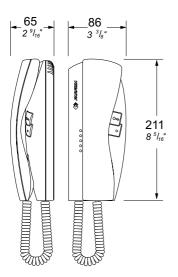


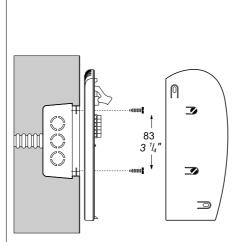


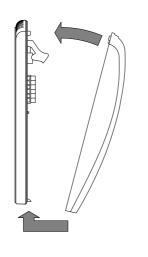
COMPACT series

PROJECT series

INTERCOMS

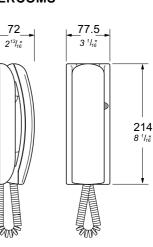






Mounting of the additional button ST701.

INTERCOMS

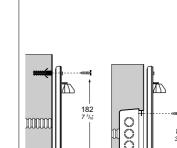


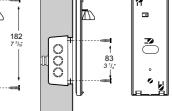
PT511EW. White electronic intercom with 1 push-button, spiral cord, electronic microphone and possibility to insert SR41 or SM50 module (description and characteristics of the modules on page 13). Wall-mountable with expansion plugs or wall box.

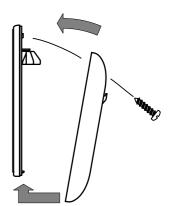
Terminals

- 1 audio line, bell and door release control 3 ground
- 6 output electronic bell *
- ground. Connected to terminal 3 with jumper 7 Ŵ1 *
- A1 floor call input

* terminals to be used when installing the private conversation module SM50 in the intercom.







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+1 INTERCOMS

Terminals

audio line, bell and door release control 1

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 mod-

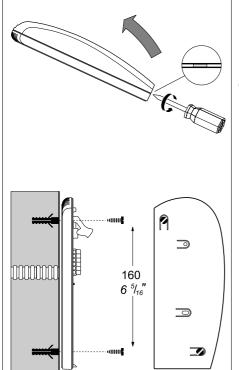
ules on page 13). Wall-mountable with expan-

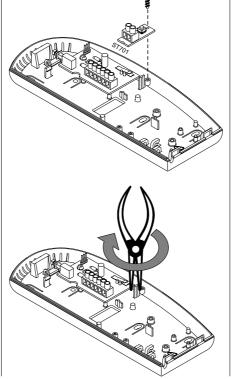
- 3 ground
- output electronic bell * 6

sion plugs or wall box.

- ground. Connected to terminal 3 with jumper 7 **W**1 *
- A1 floor call input

* terminals to be used when installing the private conversation module SM50 in the intercom.





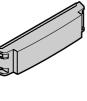


AGORA' series

+1 INTERCOMS **4+1** VIDEOINTERCOMS

External door station Ś 99 3^{1\8} 208 8 ³/₁₆

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.

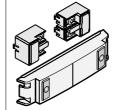


AGL20. Light grey version.

AG20. Blank module

AG21. Single button module with name plate holder.

AGL21. Light grey version.



AG222. Double button unit with name plate holder.

AGL222. Light grey version.

AG30ED. Audio Door Speaker to fit inside the Door Stations AG100A and AGL100A.

Terminals

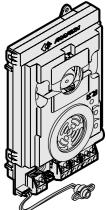
- A Alternated power supply input for audio and name-plate Led (13Vac-0.1A)
- Ground
- 1 Reception-transmission/doorreleasing/call
- S Electric lock

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

Technical data

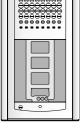
Video power supply Audio power supply Video signal output balanced Video signal standard PAL **Minimum lighting** 2.5 Lux LED's 4 white Sensor CCD 1/3" Number of pixel 291,000 3.6mm Lens Focusing 0.6m÷∞ Horizontal/vertical sweep ±10° Operating temperature Maximum permitted humidity 80% RH

18÷24VDC-0.21A 13VAC-0,15A -10° ÷ +40°C



Terminals

- 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
- Reception-transmission / door releasing / call 1
- 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 pushbuttons.

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 push-

buttons or 4 AG222 double push-buttons.

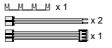
AGL100A. Light grey version.

<u>Ч Ч Ч Ч Ч Ч Ч х 1</u>

X 1

x 4

AGL100V. Light grey version.



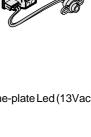


AG100T. Push-buttons Door Station composed of an ABS box for surface mounting, front plate in aluminium and electronic board with diodes and LED's for lighting the nameplates. Suitable for 8 AG21 single push-button or 8 AG222 double Push-buttons.

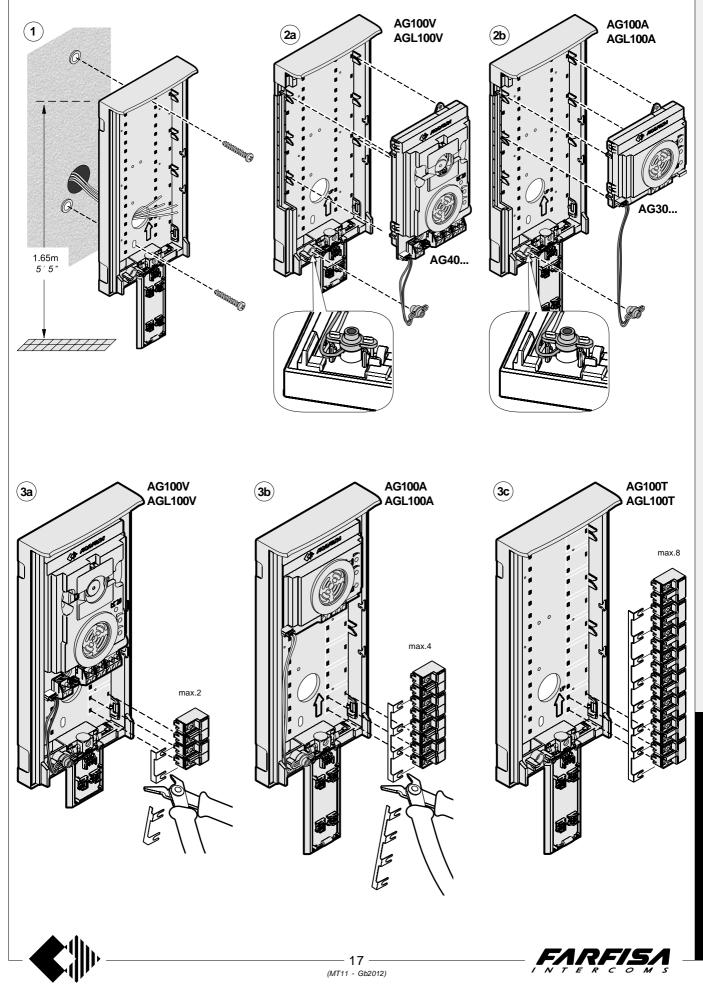
AGL100T. Light grey version.

<u>МИМИ</u>х2 🚃 🖿 x 8





Installation and Assembly of AGORA' door stations.

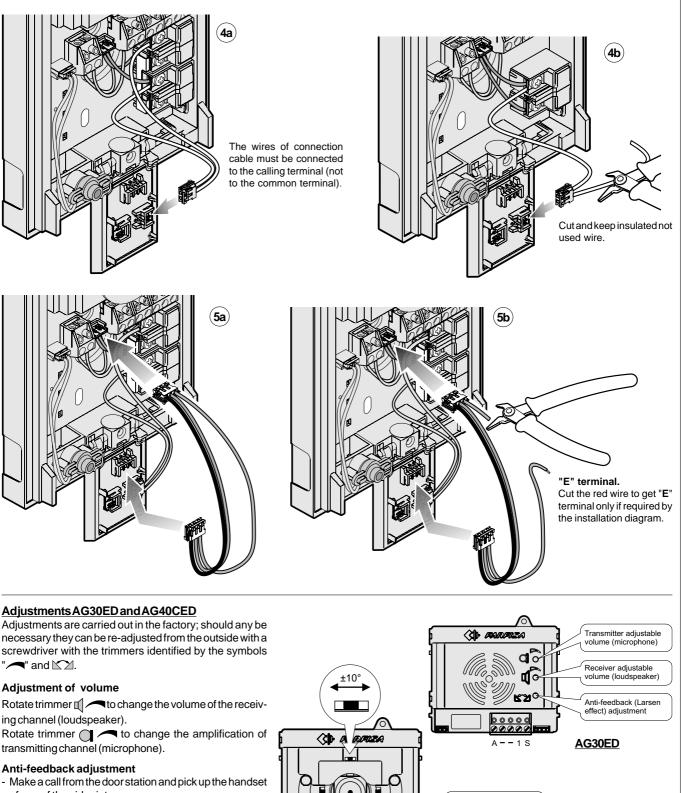


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- Make a call from the door station and pick up the handset of one of the videointercoms.
 Remove the microphone from its housing inside the
- push-button panel, place it on the loudspeaker of the electric door answering system and adjust the M
- Replace the microphone in its housing.

Sweeps

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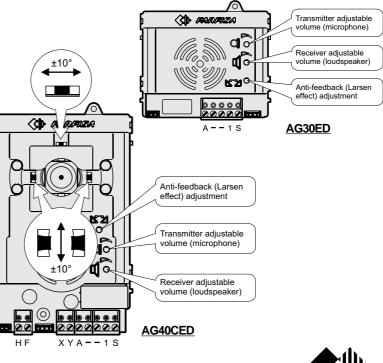
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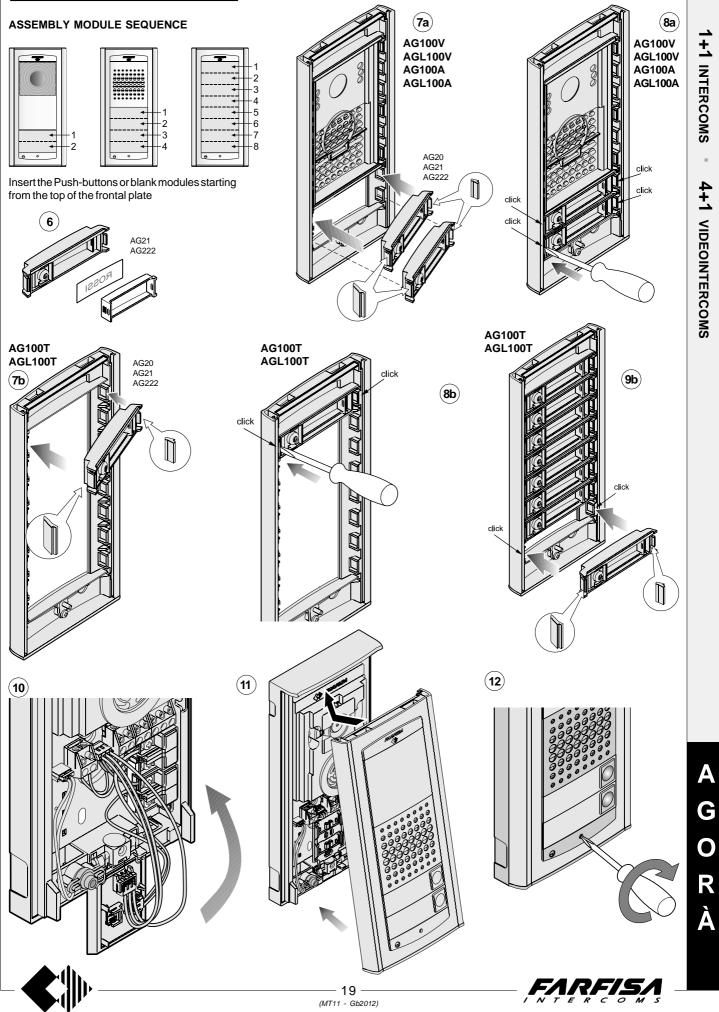
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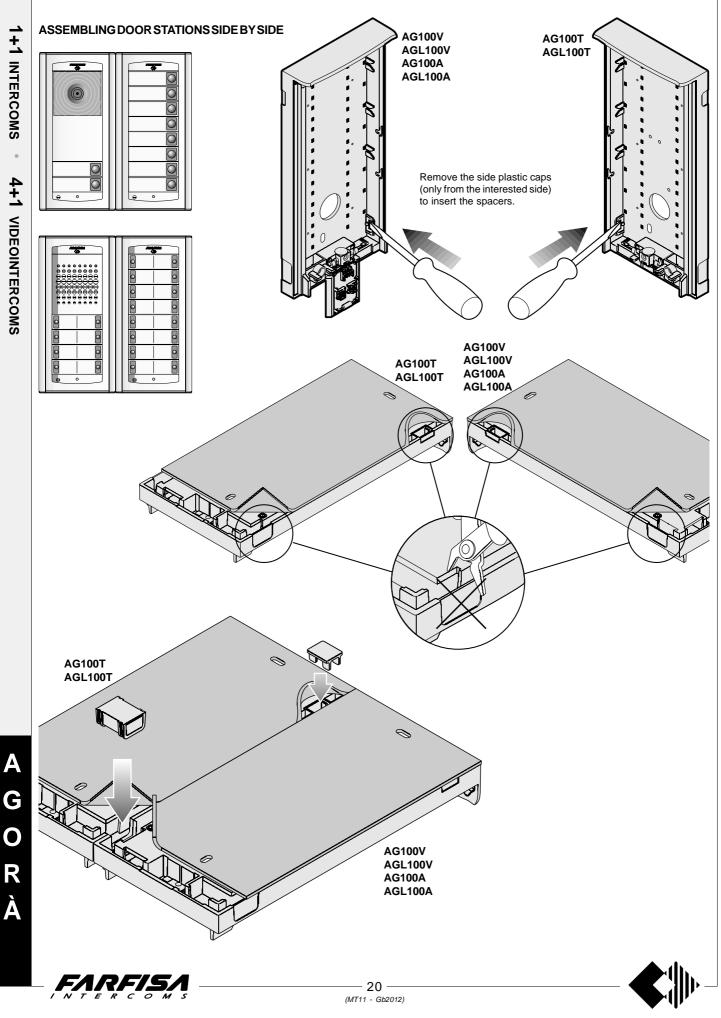
If necessary, you can manually change the camera framing by adjusting the horizontal and vertical levers in the desired direction (see figure).







+1 INTERCOMS * **4+1** VIDEOINTERCOMS



Composition of door stations and requested quantities of modules

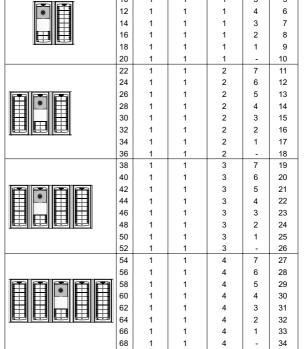
1 ROW VIDEOINTERCOM push-button panels

11111-112112311173411164511155611146711137811128911119101111911112612131125131411251315112315161122161711221617113622131136221413621222113622231133232411322425113224261146283011462830114331321143313211433133114		N. buttons	AG100V	AG40CED	AG100T	AG20	AG21
31117341116451115561115561113781112891111910111271111271112112612131126121411251314112513141123151611211718112117112216161122161711352116113620211136202211332241133225111452611322627114529301143313111433133114331		1	1	1	-	1	1
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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		3	1	1	1	7	3
61114671113781112891111910111191011119111127111211261213112513141124141511231516112216171121171811211718113520211133232211332323113323241132242511342226113224251133232411332325114628911443911452991143313511443911443<		4	1	1	1	6	4
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		5	1	1	1	5	5
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		6	1	1	1	4	6
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		7	1	1	1	3	7
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		8	1	1	1	2	8
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		9	1	1	1	1	9
12112612131125131411251314112315161123151611216171711211718123521201136202111362022113620231136202411362025113224261132242726113228114628293011433111433131114331331143313311433134133333352114331341333333353535353535353536114331361143<		10	1	1	1	-	10
13112513141124141511231516112216171122161711231718112218191362020111362021113422231134222311342223113422241134222511342226113224251134252611342526114526114520301143313111433132114331333114331333114433431313143353114331353131314336131343134		11	1	1	2	7	11
14112414151123151611221617112216171121171812218191136202011362021113622221134222311342223113422231136202411342223113422241332324113425261146282911452930114331311143313211433133114433413143313511433135114331361143313734313333613443 <th></th> <td>12</td> <td>1</td> <td>1</td> <td>2</td> <td>6</td> <td>12</td>		12	1	1	2	6	12
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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		15	1	1	2	3	15
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		16	1	1	2	2	16
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		17	1	1	2	1	17
$\begin{array}{c c c c c c c c c c c c c c c c c c c $							
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $			1	1	3	6	20
23 1 1 3 3 23 24 1 1 3 2 24 25 1 1 3 1 25 26 1 1 3 - 26 27 1 1 4 7 27 28 1 1 4 5 29 30 1 1 4 5 29 30 1 1 4 3 31 31 1 1 4 3 31 32 1 1 4 2 32 33 1 1 4 3 31	FIRE		1	1	3	5	21
24 1 1 3 2 24 25 1 1 3 1 25 26 1 1 3 - 26 26 1 1 3 - 26 27 1 1 4 7 27 28 1 1 4 6 28 29 1 1 4 5 29 30 1 1 4 3 31 32 1 1 4 3 31 33 1 1 4 2 32 33 1 1 4 1 33			1	1		4	
25 1 1 3 1 25 26 1 1 3 - 26 27 1 1 4 7 27 28 1 1 4 6 28 29 1 1 4 5 29 30 1 1 4 3 31 31 1 1 4 3 31 32 1 1 4 2 32 33 1 1 4 1 33			1	1	3	3	
26 1 1 3 - 26 27 1 1 4 7 27 28 1 1 4 6 28 29 1 1 4 5 29 30 1 1 4 30 31 31 1 1 4 2 32 33 1 1 4 2 32			1	1			
27 1 1 4 7 27 28 1 1 4 6 28 29 1 1 4 5 29 30 1 1 4 3 31 31 1 1 4 2 32 33 1 1 4 1 33						1	
28 1 1 4 6 28 29 1 1 4 5 29 30 1 1 4 30 31 31 1 1 4 3 31 32 1 1 4 2 32 33 1 1 4 1 33							
29 1 1 4 5 29 30 1 1 4 4 30 31 1 1 4 3 31 32 1 1 4 2 32 33 1 1 4 1 33			1	1		7	
30 1 1 4 4 30 31 1 1 4 3 31 32 1 1 4 2 32 33 1 1 4 1 33			1		4	-	
31 1 1 4 3 31 32 1 1 4 2 32 33 1 1 4 1 33							
32 1 1 4 2 32 33 1 1 4 1 33							
33 1 1 4 1 33							
						1	
J4 I I 4 - J4		34	1	1	4	-	34

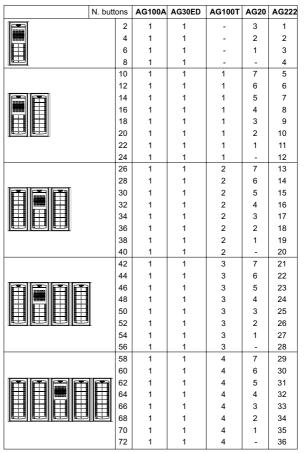
1 ROW INTERCOM push-button panels

	N. butto	ons	AG100A	AG30ED	AG100T	AG20	AG21
		1	1	1	-	3	1
		2	1	1	-	2	2
		3	1	1	-	1	3
		4	1	1	-	-	4
		5	1	1	1	7	5
		6	1	1	1	6	6
		7	1	1	1	5	7
		8	1	1	1	4	8
		9	1	1	1	3	9
		10	1	1	1	2	10
		11	1	1	1	1	11
		12	1	1	1	-	12
		13	1	1	2	7	13
		14	1	1	2	6	14
		15	1	1	2	5	15
		16	1	1	2	4	16
		17	1	1	2	3	17
		18	1	1	2	2	18
		19	1	1	2	1	19
		20	1	1	2	-	20
		21	1	1	3	7	21
	-	22	1	1	3	6	22
		23	1	1	3	5	23
		24	1	1	3	4	24
		25	1	1	3	3	25
	L	26	1	1	3	2	26
		27	1	1	3	1	27
		28	1	1	3	-	28
		29	1	1	4	7	29
		30	1	1	4	6	30
		31	1	1	4	5	31
		32	1	1	4	4	32
		33	1	1	4	3 2	33
		34	1	1	4		34
		35 36	1 1	1 1	4	1	35 36
		30	I	I	4	-	30

2 ROW VIDEOINTERCOM push-button panels N. buttons AG100V AG40CED AG100T AG20 AG222 H



2 ROW INTERCOM push-button panels





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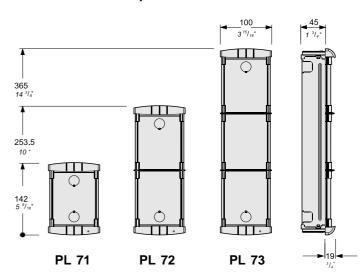
PROFILO series

1+1 INTERCOMS × 4+1 VIDEOINTERCOMS

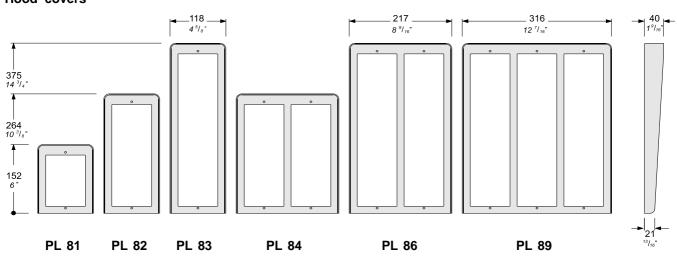
Push-button panels in extruded aluminium and steel push-buttons made up of modular elements. Suitable for the most diverse installation requirements. The careful selection of modules allows for multiple application opportunities; from one-way installations to blocks of flats; from intercom to video intercom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

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

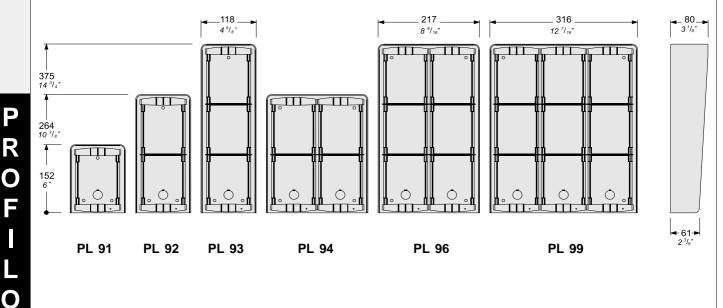
Module frames complete with back box



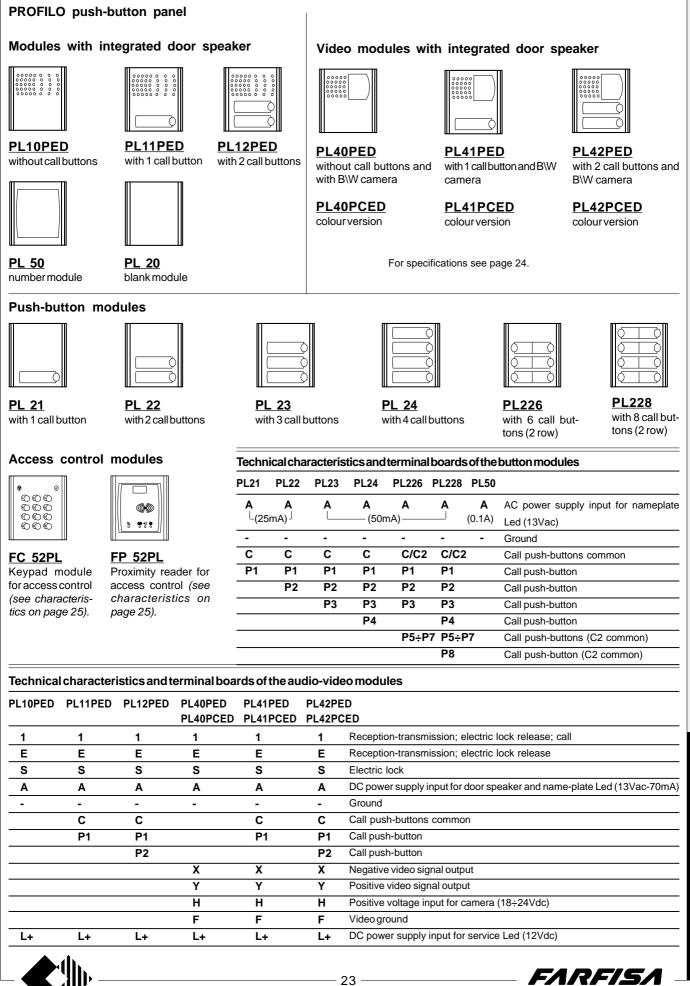




Rain shelters with module frames







(MT11 - Gb2012)

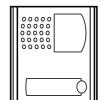
+1 INTERCOMS

4+1 VIDEOINTERCOMS

Ρ R

1+1 INTERCOMS 4+1 VIDEOINTERCOMS

00000 00000 00000 00000 00000



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

Led's

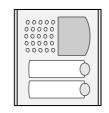
Lens

Focus

Autoiris

Sensor

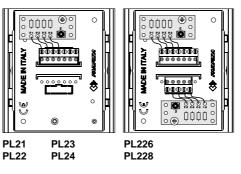
Colour version of the PL42PED model.



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.



PL40PED-PL41PED-PL40PCED-PL41PCED-PL42PED PL42PCED Camera power supply 18÷24Vdc-0.3A

Audio power supply 13Vac-0.07A Video signal output balanced Video signal standard CCIR Minimum illumination 2Lux White balanced 6 infrared CCD 1/4" B/W Number of pixels 291.000 Horizontal frequency 15,625Hz Vertical frequency 50Hz 3.6mm 0.1m ÷ ∞ electronic Horizontal adjustment ± 15° Vertical adjustment $\pm 15^{\circ}$ Operating temperature -10°÷+40°C Maximum permissible humidity 80%RH

18÷24Vdc-0.4A 13Vac-0.07A balanced PAL 2.5 Lux auto 6 white CCD 1/3" colour 291.000 15,625Hz 50Hz 3.6mm 0.6m ÷ ∞ electronic ± 15° ± 15° -10°÷+40°C 80%RH

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 " \frown " and \frown .

Volumes adjustment

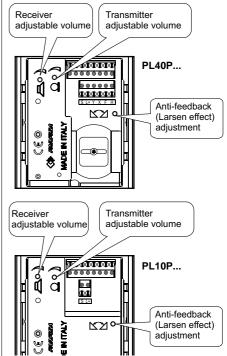
To adjust the volume of microphone and loud-

speaker, turn the trimmers \bigcap and \square .

Antilocale adjustment

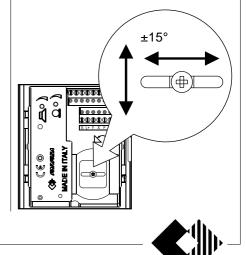
In case of "feedback" (Larsen effect) in the external unit it is necessary to operate as follow:

- make the call from the door station and lift the handset of an intercom or videointercom (press \equiv) for Echos series);
- adjust the trimmer 2 until the whistling stops (Larsen effect).



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

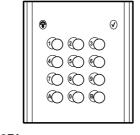
Power supply Stand-by current	12Vac/dc ±10%
Maximum current consumption	on 0.25A
Contact ratings	24Vac - 2A
Max. number of cards	490
Max. number of Master cards	s 10
Number of relays	2
Relaytime	1 to 63 sec.
Minimum recognition distance	ce 3 cm
Maximum recognition time	1 sec.
Operating temperature	0°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

Terminals

- +/A positive or alternate current input
- -/A ground or alternate current input
- PB 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 dur-Ð ing 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 \otimes 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.

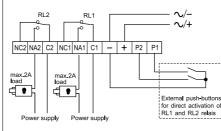
Technical data

Power supply:	12Vac/dc ±10%
Stand-by current:	0.06A
Maximum current consumption	on: 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.
io)	bistable relay 1)
Operating temperature:	0° ÷ +40°C

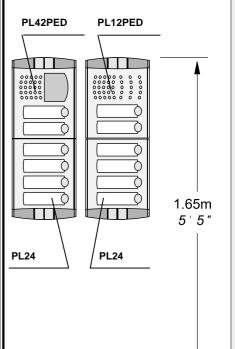
Maximum permissible humidity: 85% RH

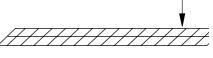
Terminals

- NC2 normally closed contact of relay 2
- NA2 normally open contact of relay 2
- C2 common contact of relay 2
- NC1 normally closed contact of relay 1
- NA1 normally open contact of relay 1
- common contact of relay 1 C1
- 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

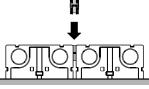


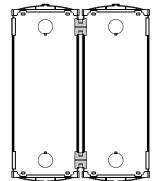


Place the push-button panel back box at a height of about 1.65m (5' 5") from the floor keeping the front edges flush-mounted and vertical to the finished plaster.

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 work.

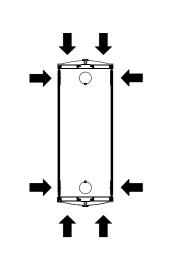


Ο

+1 INTERCOMS

4+1 VIDEOINTERCOMS



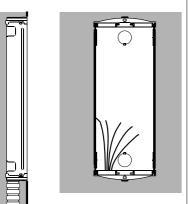


Openings for cables.

1+1 INTERCOMS

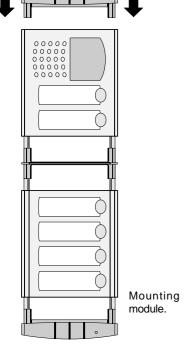
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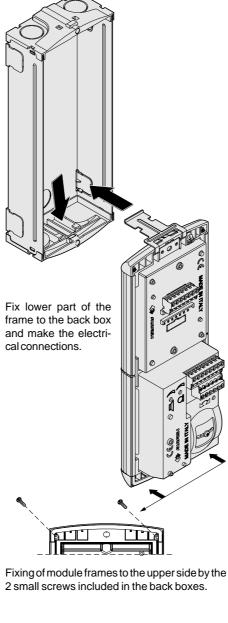
4+1 VIDEOINTERCOMS



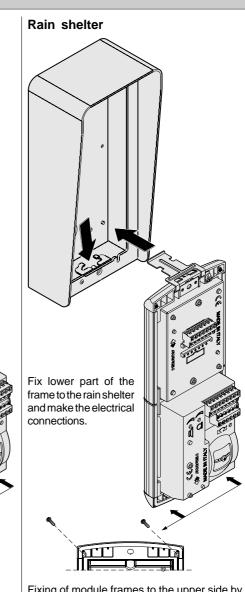
Flush mounting and cables placing.

of

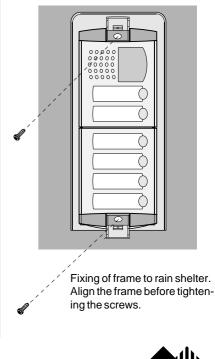




gof module frames to the upper side by the all screws included in the back boxes.



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

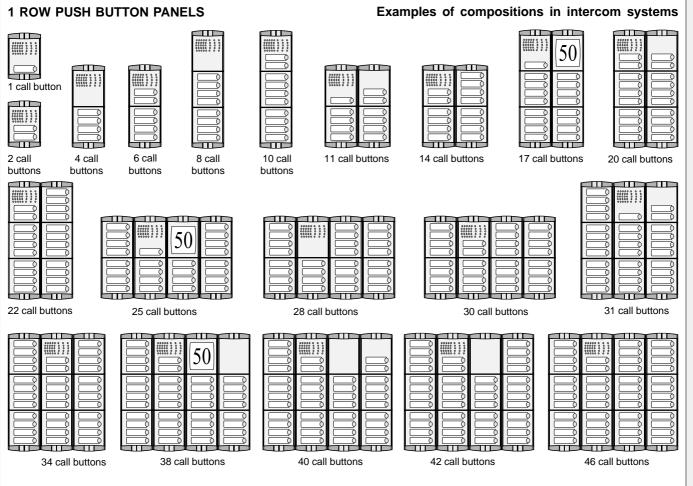




P R O F I L O



1 row push button



Composition board of Profilo push-button panels.

N° calls	Dimensions	Door speaker module (ampl.)	1 '	nk or informa- nodules	4 diode module	Back box and module frame	Rain shelters
1	100x142x19	1 PL11PED	-	-	-	1 PL71 (**)	1 PL91
2	$(3^{15}/_{16}" \times 5^{9}/_{16}" \times 3^{3}/_{4}")$	1 PL12PED	-	-	-	1 PL71 (**)	1 PL91
4	100x253,5x19	1 PL10PED	1 PL24	-	1 241DMA	1 PL72 (**)	1 PL92
6	(3 ¹⁵ / ₁₆ " x 10" x ³ / ₄ ")	1 PL12PED	1 PL24	-	1 241DMA	1 PL72 (**)	1 PL92
8	100x365x19	1 PL10PED	2 PL24	-	2 241DMA	1 PL73 (**)	1 PL93
10	$(3^{15}/_{16}" \times 14^{3}/_{8}" \times 3^{3}/_{4}")$	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 " x 10" x 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		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 " x 14 ³ / ₈ " x 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 " x 14 ³ / ₈ " x ³ / ₄ ")	1 PL12PED	10 PL24	1 PL20 (*)	10 241DMA	4 PL73	-
46		1 PL12PED	11 PL24	-	11 241DMA	4 PL73	-
) If req	uested the hood covers can	be added (see		() or PL50		-	It replaces

27 -(MT11 - Gb2012)

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





PL71, PL72 or PL73

1+1 INTERCOMS :/-**4+1** VIDEOINTERCOMS

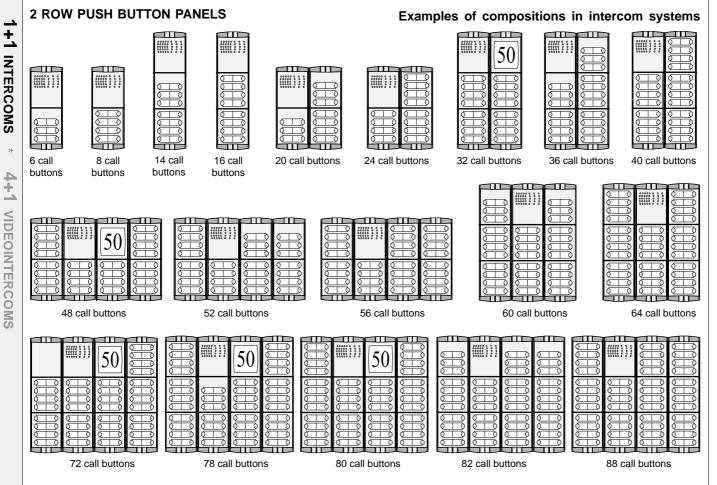
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2 row push button



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 " x 10" x 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	$(3 \frac{15}{16} \times 14^{3} \times 3^{3})$	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 " x 10" x ³ / ₄ ")	1 PL10PED	3 PL228 -	6 241DMA	2 PL72 (**)	1 PL94
32		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		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 14 ³ / ₈ " x ³ / ₄ ")	1 PL10PED	10 PL228 1 PL20 (*)	20 241DMA	4 PL73	-
82	(10/4 × 17/8 × 14)	1 PL10PED	8 PL228 3 PL226	22 241DMA	4 PL73	-
88		1 PL10PED	11 PL228 -	22 241DMA	4 PL73	
(**) 16			(*) or PI 50			lt replaces

28 (MT11 - Gb2012)

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

(*) or PL50









1 row push button

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+1 INTERCOMS

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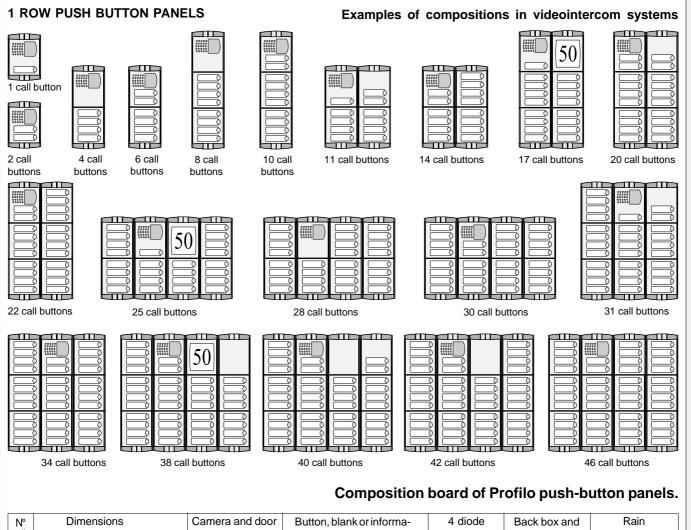
4+1 VIDEOINTERCOMS

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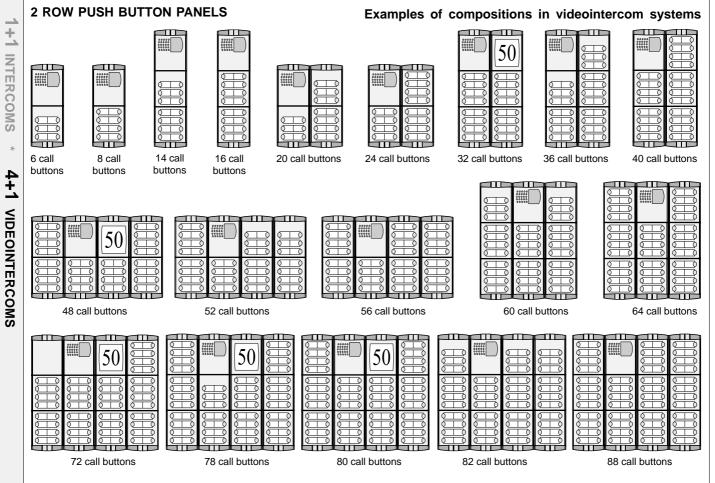


N° calls	Dimensions	Camera and door speaker module	Button, blank or informa- tion modules		4 diode module	Back box and module frame	Rain shelters
1	100x142x19	1 PL41PED	-	-	-	1 PL71 (**)	1 PL91
2	$(3^{15}/_{16}" \times 5^{9}/_{16}" \times 3^{3}/_{4}")$	1 PL42PED	-	-	-	1 PL71 (**)	1 PL91
4	100x253,5x19	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	-	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	$(7^{7}/_{8}$ " x 10" x $^{3}/_{4}$ ")	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		1 PL42PED	5 PL24	-	5 241DMA	2 PL73 (**)	1 PL96
25		1 PL41PED	6 PL24	1 PL20 (*)	6 241DMA	4 PL72	-
28	400x253,5x19 (15 ³/₄" x 10" x ³/₄")	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	$(11 \frac{13}{16} \times 14^{3} \times 3^{3})$	1 PL42PED	8 PL24	-	8 241DMA	3 PL73 (**)	1 PL99
38		1 PL42PED	9 PL24	2 PL20 (*)	9 241DMA	4 PL73	-
40	400x365x19 (15 ³ / ₄ " x 14 ³ / ₈ " x ³ / ₄ ")	1 PL40PED	10 PL24	1 PL20 (*)	10 241DMA	4 PL73	-
42		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 be added <i>(see on page 22)</i>		or PL40PCED, PL41PCED, PL42PCED		(*) or PL50			It replaces PL71, PL72 or PL73





2 row push button



Composition board of Profilo push-button panels.

N°	Dimensions	Camera and door	Button, blank or information 4 diode		Back box and	Rain
calls		speaker module	modules	module	module frame	shelters
6	100x253,5x19	1 PL40PED	1 PL226 -	2 241DMA	1 PL72 (**)	1 PL92
8	(3 ¹⁵ / ₁₆ " x 10" x 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		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	0 0 4/	1 PL40PED	5 PL228 -	10 241DMA	2 PL73 (**)	1 PL96
18	400x253,5x19 (15 ⅔/₄" x 10" x ⅔/₄")	1 PL40PED	6 PL228 1 PL20 (*)	12 241DMA	4 PL72	-
52		1 PL40PED	5 PL228 2 PL226	14 241DMA	4 PL72	-
56		1 PL40PED	7 PL228 -	14 241DMA	4 PL72	-
60	000-005-10	1 PL40PED	6 PL228 2 PL226	16 241DMA	3 PL73 (**)	1 PL99
62	300x365x19 (11 ¹³ / ₁₆ " x 14 ³ / ₈ " x 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	-
30	400x365x19 (15 ³/ ₄ " x 14 ³/ ₈ " x ³/ ₄ ")	1 PL40PED	10 PL228 1 PL20 (*)	20 241DMA	4 PL73	-
32		1 PL40PED	8 PL228 3 PL226	22 241DMA	4 PL73	-
38		1 PL40PED	11 PL228 -	22 241DMA	4 PL73	-
) If rec	uested the hood covers can	he added (see on page	(*) or PL50			It replaces PL72 or PL73

30

(MT11 - Gb2012)

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





P

MATRIX series

1+1 INTERCOMS * 4+1 VIDEOINTERCOMS

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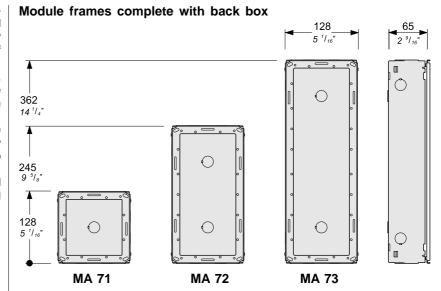
Stainless steel (AISI 316L) anti-vandalism pushbutton panels especially studied to withstand burglary, penetration of solids and water jets (IP 45 protection degree against the penetration of external solids and water; IK09 against shocks). The Matrix push-button panels include back boxes, module frames,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

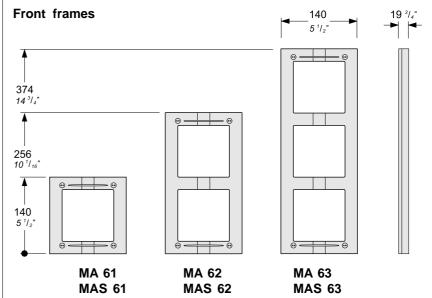
The careful selection of modules allows for multiple application opportunities; from one-way installations to blocks of flats; from intercom to video intercom installations.

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

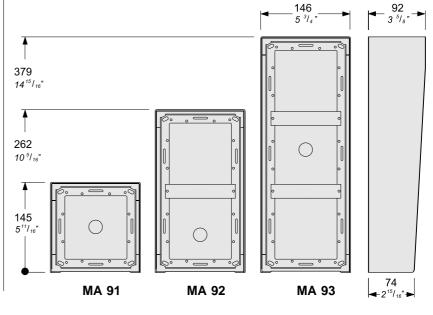


Notice! To maintain the brilliance of door station plates, periodic cleaning with specific products for stainless steel is required.





Rain shelters with module frames





AMPLIFIED DOOR STATIONS

1+1 INTERCOMS **4+1** VIDEOINTERCOMS

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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.

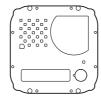
MAS11PED. They are different from the previous model for the presence of a calling push-button and nameplate, realized with vandal proof polycarbonate and backlighted with green LED's.

MAS12PED. Module with 2 call buttons.

Terminals

- A Supply 13VAC-70mA
- Ground
- 1 Reception-transmission; electric lock release; call
- S Electric 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





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 Α
- Ground
- 1 Reception-transmission; electric lock release: call S
 - Electric lock
- Reception-transmission; electric lock release F Ρ Call push-button

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Call push-button common

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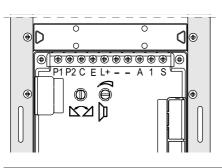
 \cap

- С DC power supply input for service Led L+ Υ
- Positive video signal output Ground
- F Х Negative video signal output

I + F + S

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н Positive power supply input 21Vdc



Technical data

M

Power supply Operating current Video signal output Video signal standard **Minimum** illumination White balanced Sensor Number of pixels Horizontal frequency Vertical frequency I ens Focus Autoiris Horizontal adjustment Vertical adjustment Operating temperature Maximum permissible humidity



MAS43ED

18÷24Vdc

balanced

0.3A

- MAS43CED 18÷24Vdc 0.4A balanced PAL 2.5 Lux auto CCD 1/3" colour 291,000 15.625Hz 50Hz
- 3.6mm 0.6m ÷ ∞ electronic ± 15° ± 15° -10°÷+40°C 80%RH

Testing and adjustments

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 " and $\bowtie 2$.

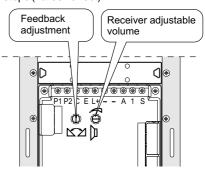
Volume adjustment

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

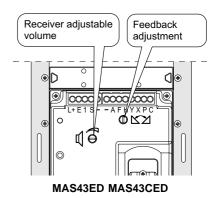
Antilocale adjustment

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 \equiv **b** for Echos series);
- adjust the trimmer 12 until the whistling stops (Larsen effect).

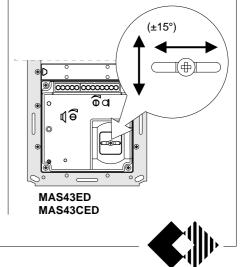


MAS10PED MAS11PED MAS12PED

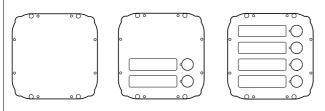


Adjustments

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



Push-button modules



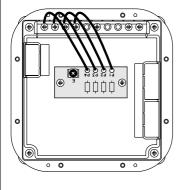
MAS20. Blank module in stainless steel.

MAS22. Module with **2 call buttons** and name plate panel with breakproof transparent screen and green LED backlight.

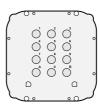
MAS24. With 4 call buttons.

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



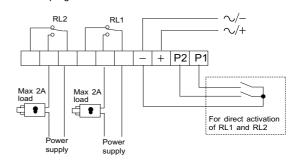
FC52MAS. Electronic keypad with 12 keys and 2 relays for lock release and access control of door stations. 12 programmable access codes for each relay. Programmable door opening time from 1 up 99 sec. for each relay (or bistable operation of relay). Acoustic and visual confirmation for entered keys,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

Technical data

12Vac/dc ±10% Power supply: 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° ÷ +40°C Maximum permissible humidity: 85% RH Degree of protection IP 45

Terminals

- normally closed contact of relay 2 \int_{∞}^{∞} normally open contact of relay 2
- \sim common contact of relay 2 normally closed contact of relay 1 \int_{σ} 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

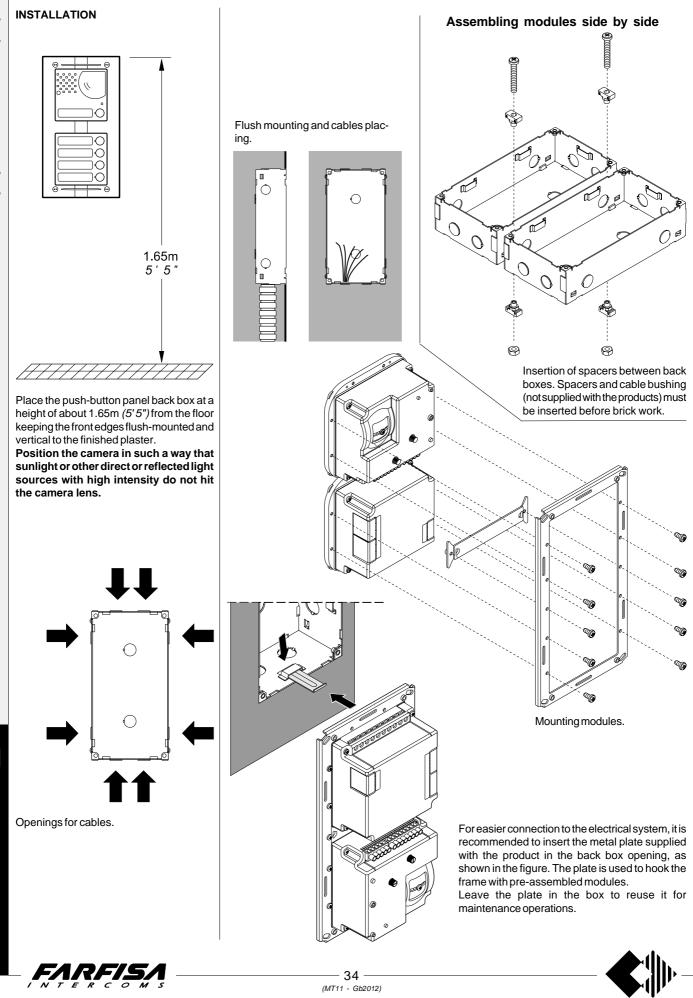


Technical characteristics of MATRIX modules terminal boards

MAS10PED MAS11PED MAS12PED MAS22		MAS24	MAS43 MAS43			
1	1	1			1	Reception-transmission; electric lock release; call
Е	Е	Е			Е	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
				P3		Call push-button
				P4		Call push-button
					Х	Negative video signal output
					Y	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)

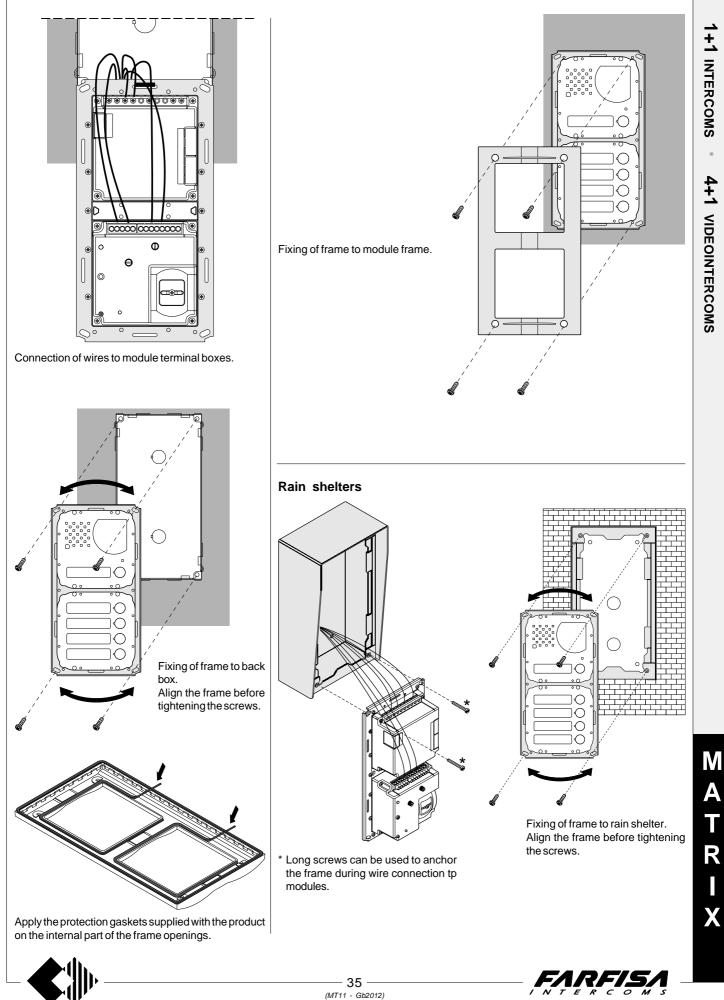






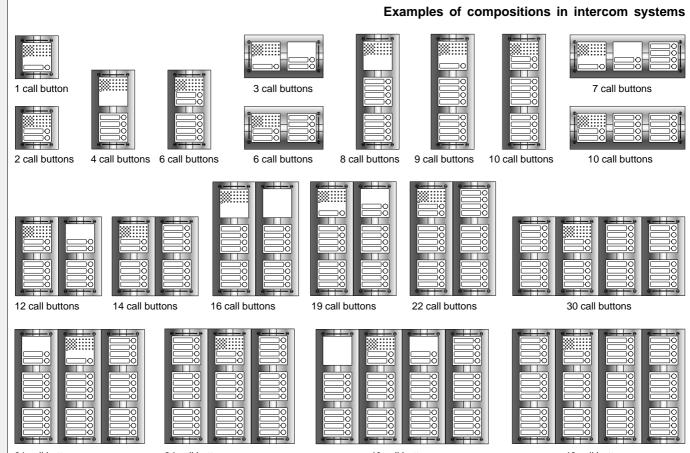
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31 call buttons

34 call buttons

40 call buttons

46 call buttons

Composition board of Matrix push-button panels.

N° calls	Dimensions	Module with door speaker	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	$(5\frac{1}{2} \times 5\frac{1}{2} \times 3\frac{3}{4})$	1 MAS12PED	-	-	-	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	-	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	$(5^{1}/_{2}" \times 14^{3}/_{4}" \times 3^{3}/_{4}")$	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" x 10 ¹ / ₁₆ " x 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 " x 14 ³ / ₄ "x 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	-

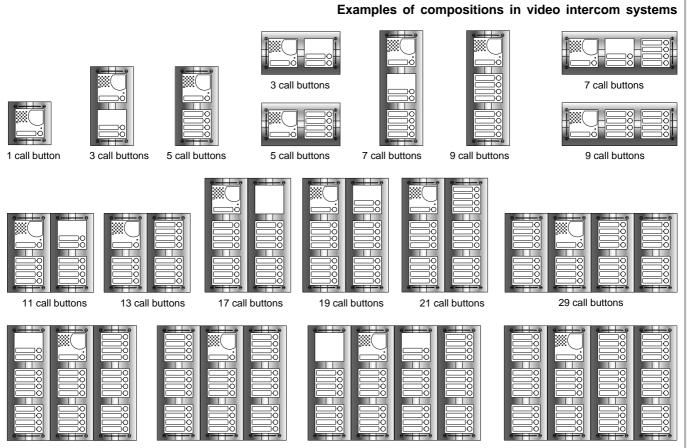
(*) Rain shelters are used in replacementof back boxes



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31 call buttons

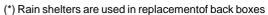
33 call buttons

39 call buttons

45 call buttons

Composition board of Matrix push-button panels.

N° calls	Dimensions	Camera module	4 diode module	Button and blank modules	Front frames	Back box and module frame	Rain shelters (*)
1	140x140x19 (5 ½ x 5½ x 3½)	1 MAS43ED	-		1 MAS61	1 MA71	1 MA91
3	140x256x19	1 MAS43ED	1 241DMA	1 MAS22	1 MAS62	1 MA72	1 MA92
5	$(5^{1}/_{2}" \times 10^{1}/_{16}" \times 3^{3}/_{4}")$	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 " x 14 ³ / ₄ " x 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" x 10 ¹ / ₁₆ " x ³ / 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 14³/₄" 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 ¹ / ₁₆ " x 10 ¹ / ₁₆ " x ³ / ₄ ")	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 " x 14 ³ / ₄ "x 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	(' ₁₆ ··· ' 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	
· · ·		or MAS43CED		(*) Rain sh	elters are used	in replacemento	of back boxes





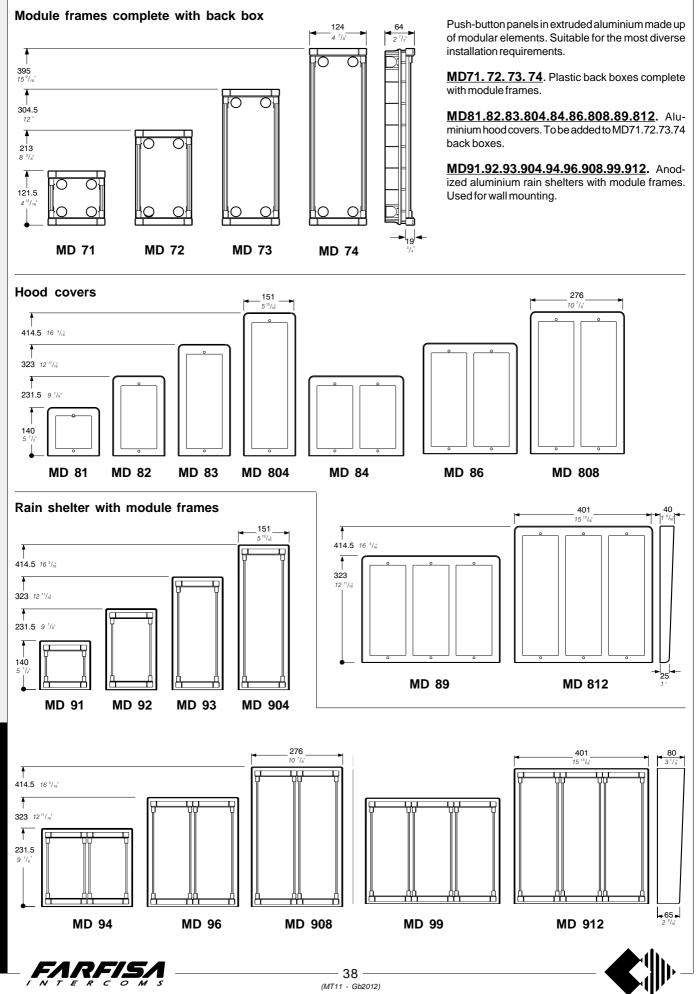


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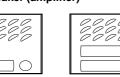


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1 row push-button modules

Modules for electric door speaker (amplifier)



MD10ED without call buttons

Button modules



1 call button



MD11ED

1 call button



MD 23 3 call buttons

 $\left| \right|$

MD12ED

2 call buttons



4 call buttons

2 row push-button modules



MD 222

2 call buttons



2 call buttons

MD 224 4 call buttons



MD 226 6 call buttons



8 call buttons

Modules: blank, number, access control and cameras



MD20 blank module



5

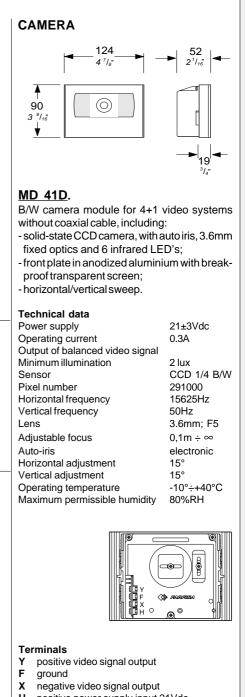
FC52P. Keypad module for access control (same features of the model FC52PL - see page 25).



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



MD41D. Black and white camera.



н positive power supply input 21Vdc

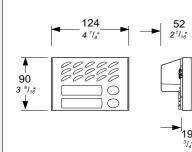






+1 INTERCOMS 26 4+1 VIDEOINTERCOMS

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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

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 words "antilocale" and "volume"(

Volume adjustment

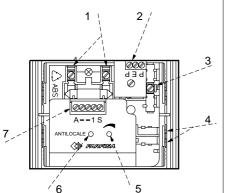
To increase the volume from the amplifier in the transmission mode, turn the trimmer "-" in a clockwise direction.

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;

- adjust the trimmer "antilocale" until the whistling stops (Larsen effect).

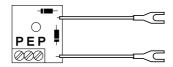


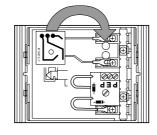
- 1 Lamp terminals 2 Button terminal board
- 3 Call buttons common (terminal C)
- 4 Stair light button terminals
- 5 External volume adjustment
- 6 Feedback adjustment
- 7 Terminal board for audio/powering/electric lock

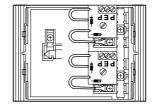
Terminals

- A Supply 13VAC-70mA
- Ground
- 1 Reception-transmission; electric lock release; call
- s
- Electric lock
- E Reception-transmission; electric lock release Р
 - Call button

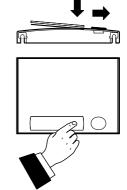
241D. Module with diodes for 2 users. It allows for the use of the button modules MD21, MD22, MD23, MD24, MD222, MD224, MD226, MD228 in the 1+1 intercom systems and 4+1 video intercom systems. It is applied inside the button modules.



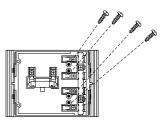




Dismounting and protection of name labels



Dismounting of name holder to insert name label.



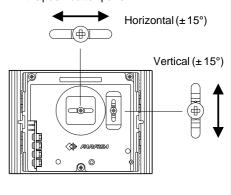
In any button module, in order to avoid the dismounting of name holder, insert a 3MAx12 screw in the holes shown in the picture for each name plate to be blocked. Screws are not supplied by the manufacturer.

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.

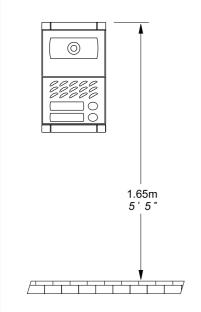
To do this, you must:

- 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.





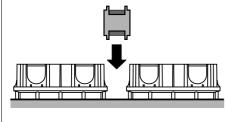


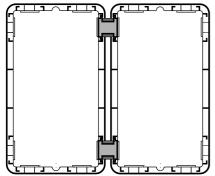


Place the push-button panel back box at a height of about 1.65m from the floor keeping the front edges flush-mounted and vertical to the finished plaster.

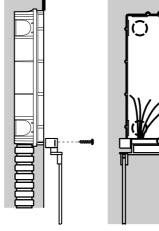
Position the camera in such a way that sunlight or other direct or reflected light sources with high intensity do not hit the camera lens.

Assembling modules side by side





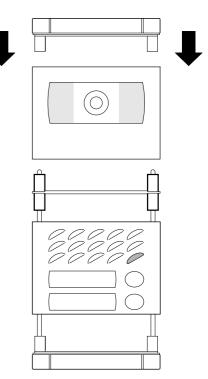
Insertion of cable bush between back boxes. The cable bushes must be inserted before brickwork.



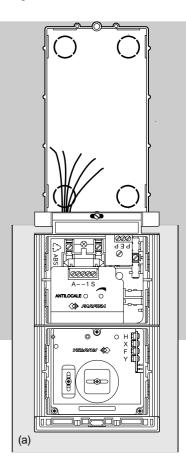
Flush mounting and cables placing.

Openings for cables.

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.



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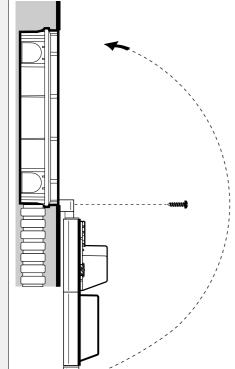
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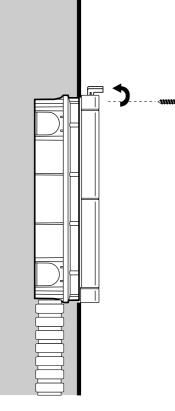
Y







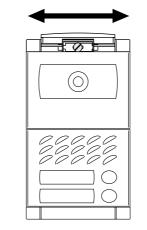
Mounting of frame bottom and door speaker (amplifier).



Top fixing of the panel.

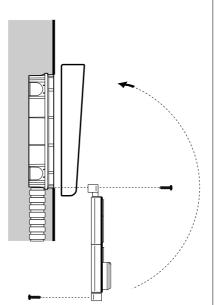
Ν

O D Y

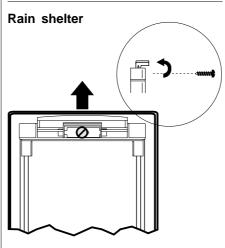


Alignment of the panel.

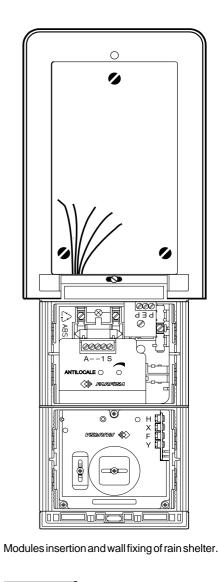
Hood covers

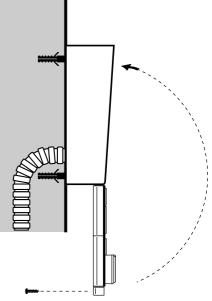


Fixing of the hood cover between the back box and the module frame.



Dismounting of the frame top side from the rain shelter.



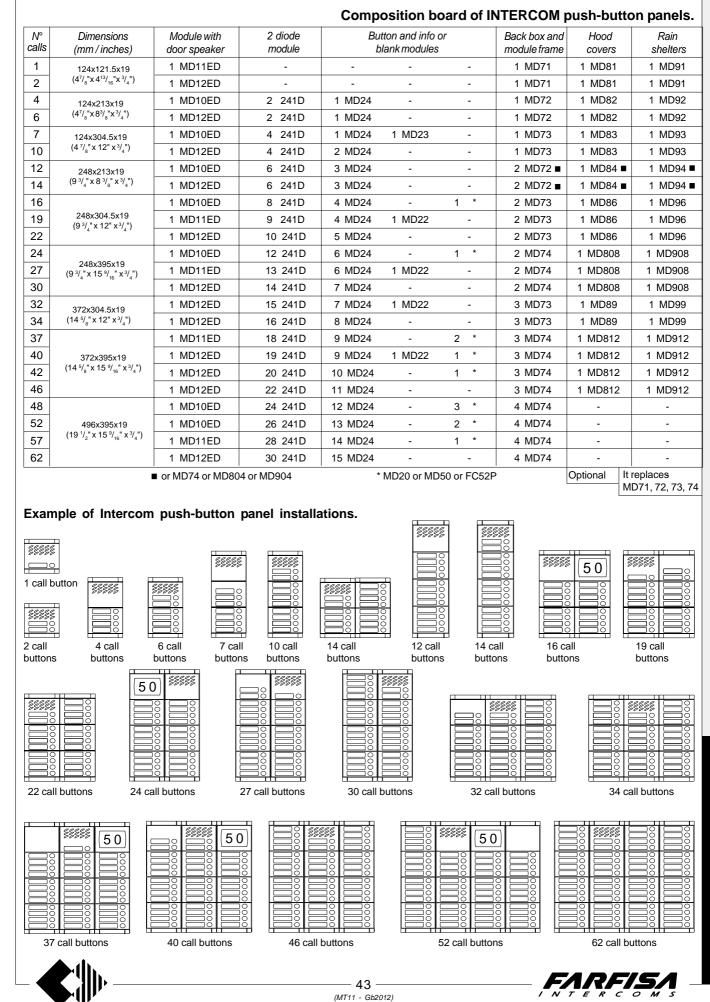


Mounting of the frame top to the rain shelter.



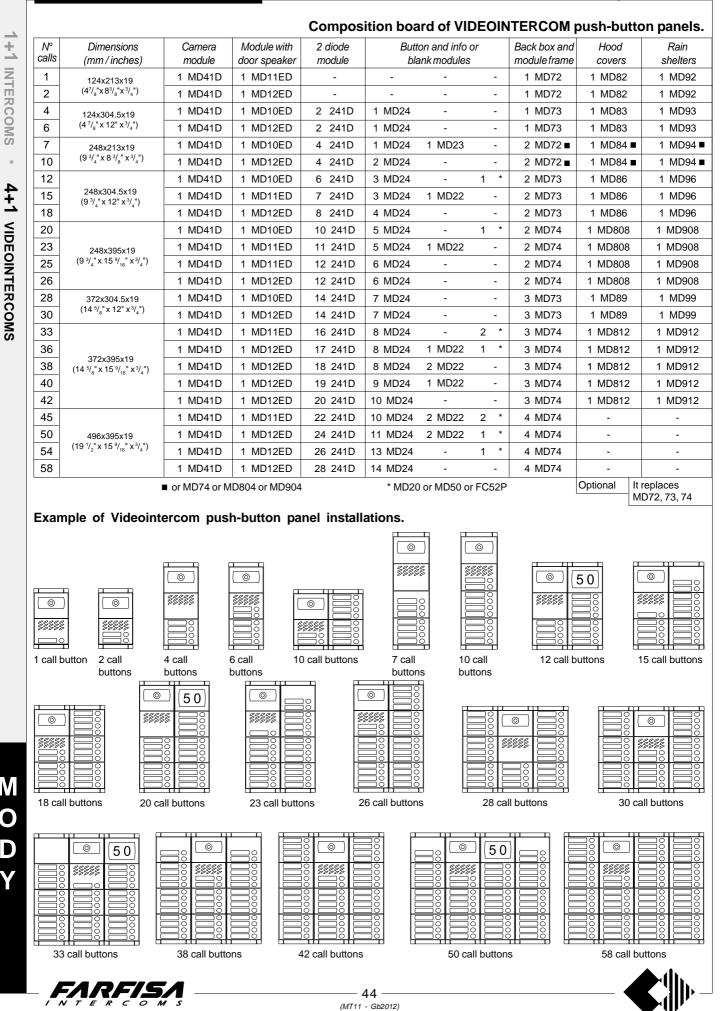


1 row push-button

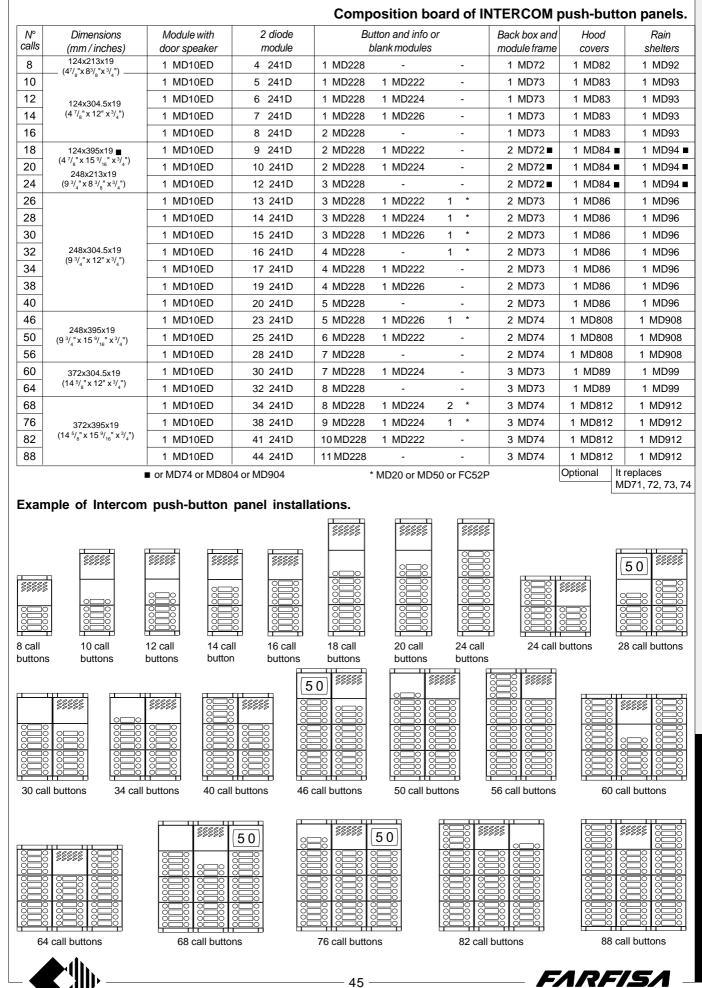


M O D

1 row push-button



2 row push-button



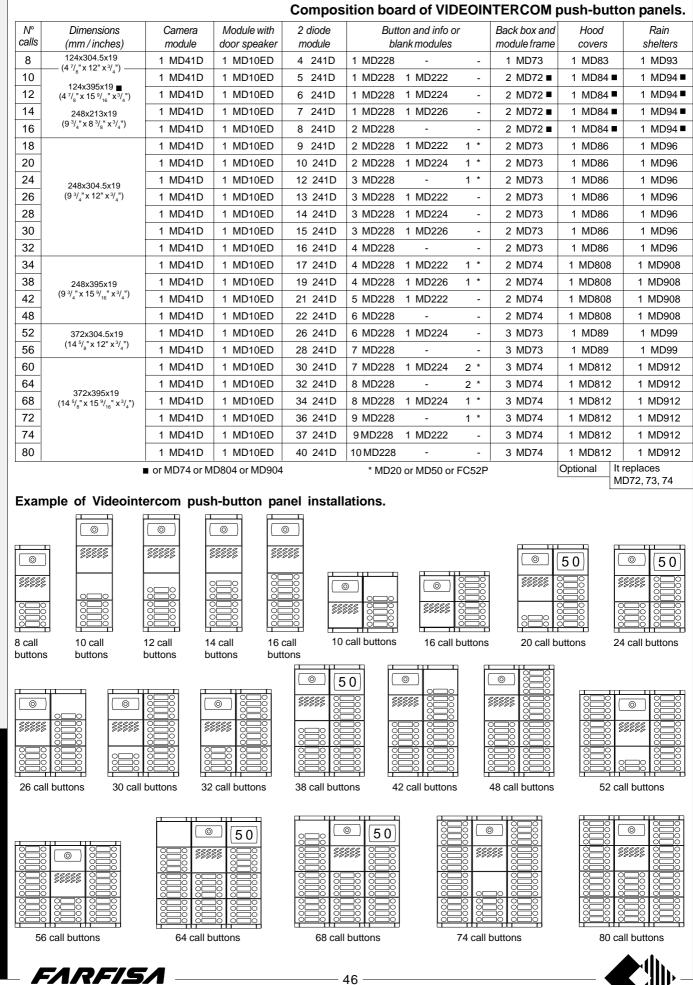
(MT11 - Gb2012)

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D

2 row push-button



(MT11 - Gb2012)

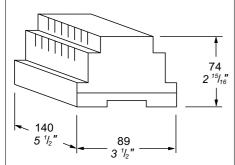
+ INTERCOMS 4+1 VIDEOINTERCOMS

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POWER SUPPLIES AND SERVICE MODULES

Timed power supply



<u>1181E</u>. 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.
Ringing frequency	: 450Hz modulated
Housing:	DIN 8 modules A
Weight:	0.95Kg.
Approved by:	VDE according to the safety
	standard EN60065
Operating temper	ature: 0°÷40°C

Maximum permissible humidity: 90%RH

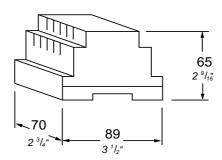
Output terminals

- A Output voltage 13Vac for: -name plate light, exchangers and climatized camera (continuous service 0.6A) -electric door lock and bells (intermittent service 1A)
- Ground for AC power supply
- F Ground for DC power supply
- H Continuous output 21Vdc-1A (timed operation)
- C- Electronic bell output for external calls 0.25A
- 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 modules A					
Weight:	0.42Kg					
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 service 1A)
- Ground
- C- Negative electronic bell output 10Vpp-0.25A

PRS210.

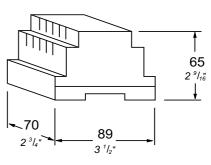
It can replace **PRS210ED** in all the applications where the electronic call generation is not required. Used to power 13Vac devices; supplementary amplified door stations, name plate light, additional door locks, etc.

127 or 220-230Vac
15VA
13Vac
0.7A
rmittent load: 1A
DIN 3 modules A
0.42Kg
VDE according to the safety
standard EN60065
rature: 0°÷40°C
sible humidity: 90%RH

Output terminals

 ✓✓ 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



<u>RL37D</u>.

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.

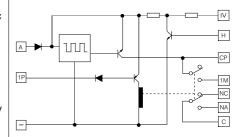
Technical data

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
- IV 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

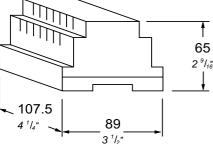
Note: Remove the cover and move jumper J2 to change the sounds of electronic ringer. Position 1-2: modulated note Position 2-3: continuous note





SERVICE MODULES

Switcher module for intercommunicating systems



<u>1443ED.</u>

+1 INTERCOMS

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4+1 VIDEOINTERCOMS

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

Powersupply:	13Vac
Stand-by current:	0.2A
Current with enabled bell:	0.4A
Housing:	DIN 6 modules A
Operating temperature:	0° ÷ +50°C
Maximum permissible hur	midity: 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 "①" 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.

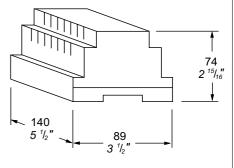
Installing several art. 1443ED in a multi ways installations allows to have the intercommunicating service between apartments with privacy towards the door station.

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.

4-contact analog exchanger



<u>1473</u>.

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						

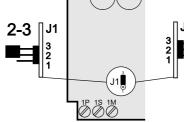
Terminals

- 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

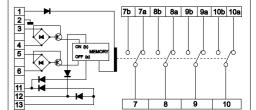
Position of J1 jumper (inside the article)

J1=2-3

- intercommunicating service inside the same apartment (from factory)



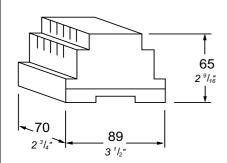
J1 = 1-2 - intercommunicating service between different apartments







SERVICE MODULES



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.
- additional door lock release, etc. Can be fixed on DIN bar or screwed to the wall

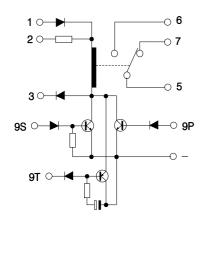
with 2 expansion plugs.

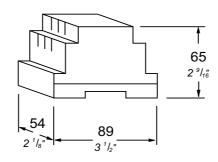
Technical data

Power supply:	13Vac; 12÷24Vdc				
Current consumption:	0,05A				
Number of exchanges:	1				
Switching current:	1A (24V)				
Housing:	DIN 4 modules A				
Operating temperature:					
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.

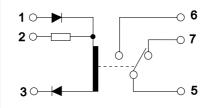
As **1471E**, with lower number of terminals and in a small housing.

Technical data

Powersupply:	13Vac; 12÷24Vdc				
Current consumption:	0.05A				
Number of exchanges:	1				
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 contact6 Normally open contact of r
- 6 Normally open contact of relay7 Normally closed contact of relay



1472. 2- CONTACT RELAY UNIT.

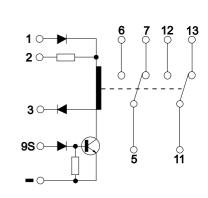
As **1471E**, with higher number of exchanges and without terminals 9P and 9T.

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:	
Maximum permissible hu	umidity: 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 95 Electronic call input with resistive load
 - Electronic call input with resis







 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.
- 2) 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;
- 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

Dista		1.3.C7.E			A . S. — (*)						Intercom installation terminals
Dista			10.4.1.C7.E.V+		F.H.A.S (*)		Х.Ү			Videointercom installation terminals	
m.	feet	mm² S	mm Ø	AWG	mm² S	mm Ø	AWG	mm² S	mm Ø	AWG	
50 100 200	165 330 660	0.5 0.75 1	0.8 1 1.2	20 18 16	0.75 1 2	1 1.2 1.6	18 16 14	0.35 0.35 0.35	0.6 0.6 0.6	22 22 22	

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

Х Х Υ Y

For the video connection see page 51.



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 $2x0.35mm^2$ wires (Ø=0.6mm; AWG22) instead of the coaxial cable. For distances from 100m (330ft) to 200m (660ft) a twisted pair must be used.



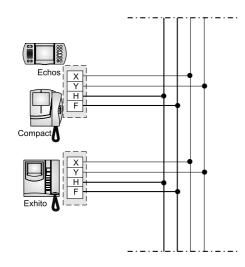
For the connection of the video signal you can choose from:

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

CONNECTION WITH JUNCTION BOX

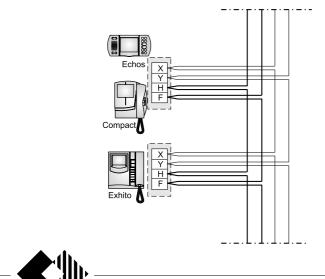
All wires are distributed in the floor junction box.

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 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 75 Ω resistances must be inserted between X and F and between Y and F in the last video intercom.

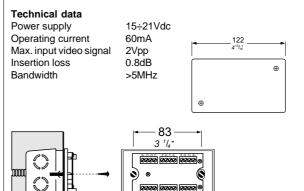


CONNECTION WITH FLOOR DISTRIBUTORS

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.

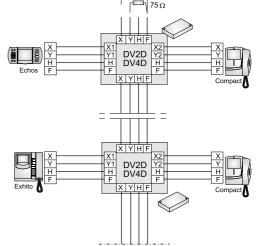
DV2D-DV4D. FLOOR VIDEO SIGNAL DISTRIBUTORS.

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.



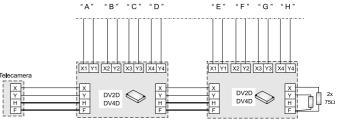
Connection of the video signal on a single riser

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 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



68

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 \odot 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 "①" from video-intercoms. By pressing the button "②" 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

+1 INTE	RCOMS
Si 21MR/1	Intercoms connected to 1 external door station
Si 21MR/2	Intercoms with private conversation connected to 1 external door station
Si 22MR/1	Intercoms connected to 2 automatically switched external door stations
Si 26MR/1	Intercom system with secondary door stations and 1 main common station (multiple entrance)
Si 26MR/2	One-way intercom system with secondary door stations and 1 main common station (multiple entrance)
Si 27MR/1	Intercom system with secondary door stations and 2 main common stations (multiple entrance)
Si 211R/1	One-way intercom system
Si 211R/5	One-way intercom system with intercommunicating service between 2 intercoms
Si 212R/1	Two-way intercom system with intercommunicating service between 2 apartments
Si 212R/3	Two-way intercom system with intercommunicating service in an apartment
Si 214R/1	Multi-way intercom system with a door station and some apartments with intercommunicating service
+1 VIDE	
Si 41MR/2	Multi-way mixed intercom and video intercom system connected to one external door station
Si 41MR/2	8 Multi-way video intercom system connected to one external door station with surveillance camera
Si 42MR/1	Multi-way video intercom system connected to two external door stations, one of which only audio
Si 42MR/2	Multi-way video intercom system connected to two external door stations
Si 46MR/1	Multi-way video intercom system with secondary video stations and 1 main common video station (multiple entrance)
Si 46MR/2	Multi-way video intercom system with secondary door stations only audio and 1 main common video station (multiple
	entrance)
Si 46MR/9	One-way video intercom system with secondary video stations and 1 main common video station
Si 46MR/1	5 One-way video intercom system with secondary door stations only audio and 1 main common video station
Si 47MR/1	Multi-way video intercom system with secondary video stations and 2 main common video stations (multiple entrance)
Si 411R/1	One-way video intercom system
Additional c	liagrams for systems NOT intercommunicating
Si 411R/41	One-way videointercom system with intercommunicating service between 2 videointercoms
	Two-way videointercom system with intercommunicating service between 2 apartments
JI 4 12R/10	Two-way nuconnercontraystern withintercontinuiticating service between 2 apartments

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.





Si 21MR/1-21MR/2

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

• EXTERNAL DOOR STATIONS

<u>GORA'</u> series	PROFILO series	MATRIX series	MODY series
AG100A AG100T AG20 AG21 AG222 AG30ED	PL71÷PL73 1 PL81÷PL89 1 PL91÷PL99 * 1 PL10PED÷PL12PED PL21÷PL228 PL20, PL50 241DMA	MA71÷MA73 1 MAS61÷MAS63 (¹) 1 MA91÷MA93 * 1 MAS10PED÷MAS12PE MAS22, MAS24 MAS20 241DMA	MD71÷MD74 1 MD84÷MD812 1 MD94÷MD912 * ED 1 MD10ED÷MD12ED MD21÷MD228 MD20, MD50 241D
INTERNAL STATION	S		
. EX311 . EX321 . KM811W . PT511EW . SM50 ***	Exhito series with 2 call buttons Exhito series modular intercom Compact series intercom with 1 call Project series intercom with 1 call b Private conversation module		
VARIOUS ARTICLES			
PRS210ED PA ** SE **	Transformer with electronic ringing Door release push-button (<i>optional</i> Electric door lock (12VAC-1A)		
* Articles not supplied b	d instead of back boxes and hood cov	ers.	

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.

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).



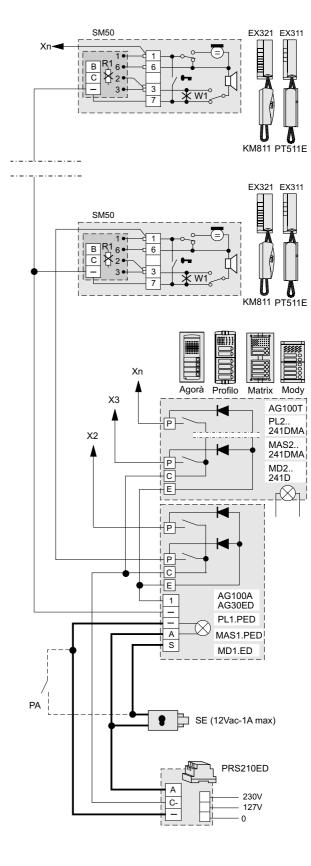


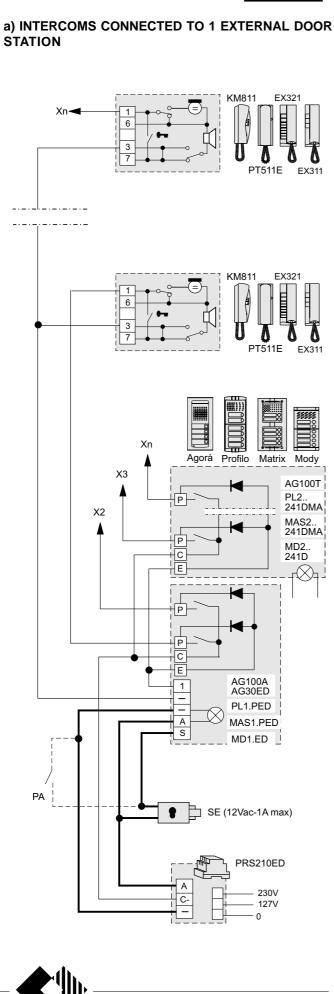


b) INTERCOMS WITH PRIVATE CONVERSATION CON-NECTED TO 1 EXTERNAL DOOR STATION

Note

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







Si 22MR/1

INTERCOMS CONNECTED TO 2 AUTOMATICALLY SWITCHED EXTERNAL DOOR STATIONS

• EXTERNAL DOOR STATIONS

AG	<u>ORA'</u> series	PRC	<u>DFILO</u> series	MA	TRIX series	MO	<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
							2410

• INTERNAL STATIONS

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

• VARIOUS ARTICLES

1	1473	Exchanger
1	PRS210ED	Transformer with electronic ringing generator
1	PRS210	Transformer
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.

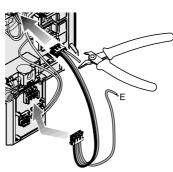
Working instructions. See page 52.

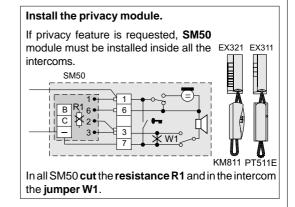
Notes

- 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*).

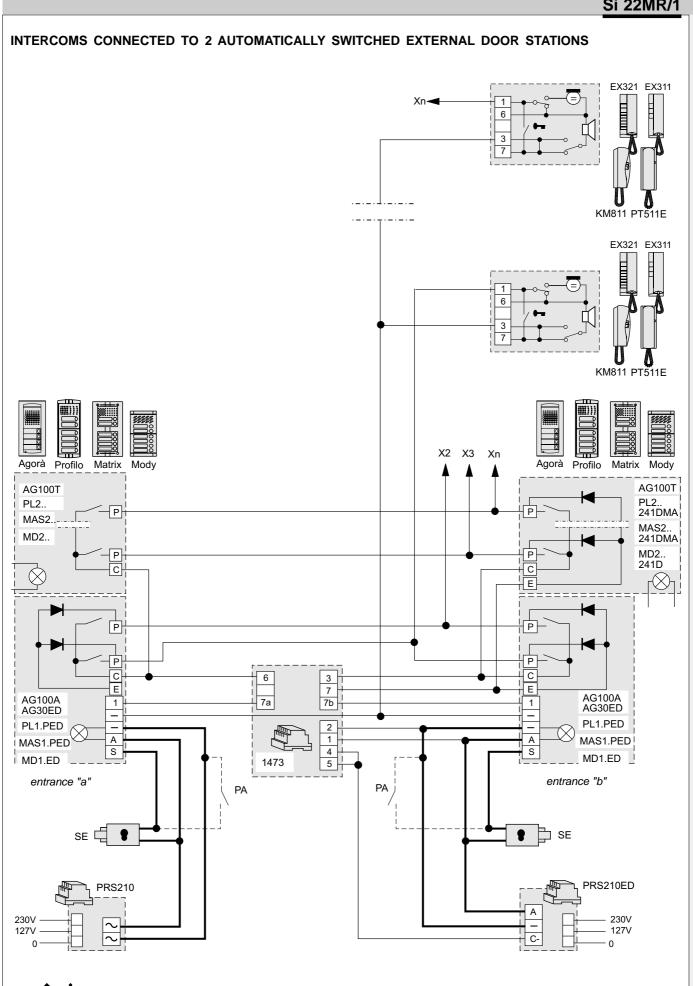








Si 22MR/1



1+1 INTERCOMS * 4+1 VIDEOINTERCOMS

- 57 -(MT11 - Gb2012)



Si 26MR/1

...

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

EDNAL DOOD STATIONS

<u>GORA'</u> series	PRO	FILO series	MAT	<u>RIX</u> series	MOD	<u>Y</u> series
+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
+X AG30ED		PL20, PL50		MAS20		MD20, MD50
		241DMA		241DMA		241D
INTERNAL STA	TIONS					
EX311	Exhito s	eries with 2 call buttons				
EX321	Exhitos	eries modular intercom				

VARIOUS ARTICLES

KM811W **PT511EW**

X X	1473 PRS210ED	Exchanger Transformer with electronic ringing gene	rator	
1 1+X	PRS210 PA **	Transformer Door release push-button (<i>optional</i>)	Install the privacy module.	
1+X	SE **	Electric door lock (12VAC-1A)	If privacy feature is requested, SM50 module must be installed inside all the intercoms	EX321

Compact series intercom with 1 call button

Project series intercom with 1 call button

- Refers to number of users.
- Х 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.

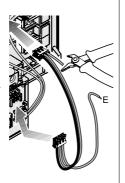
Working instructions.

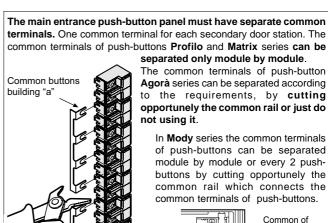
- As the basic system described on page 52, with the following variations: - The audio functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.
- Services to secondary door stations 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 entrance only cut and insulate the conductor "E" (red wire).





SM50

З

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

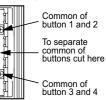
В

С 2

> 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

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.





EX311

511E

KM811 P

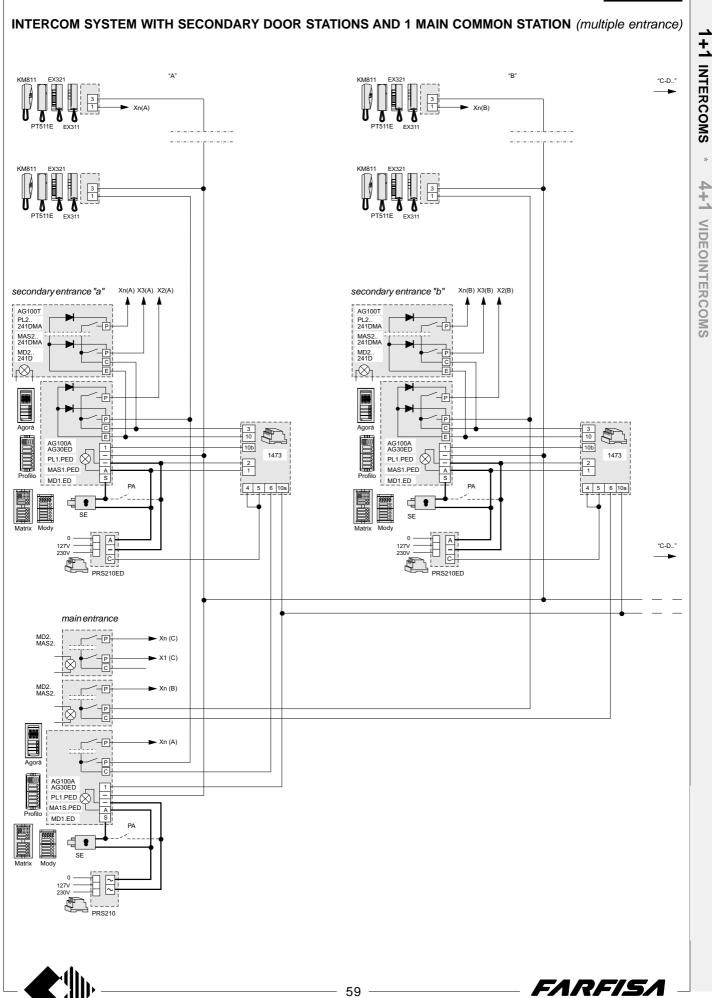






Si 26MR/1

3(-



<u>GORA'</u> series	PROFILO series	MATE	<u>RIX</u> series	MO	<u>DY</u> series
AG100A AG100T AG20 AG21 AG222 AG30ED	PL71÷PL73 1 PL81÷PL89 1 PL91÷PL99 * 1 PL10PED÷PL12PED PL21÷PL228 PL20, PL50	 1 1 	MA71÷MA73 MAS61÷MAS63 (¹) MA91÷MA93* MAS10PED÷MAS12PED MAS22, MAS24 MAS20	 1 1 	MD71÷MD74 MD81÷MD812 MD91÷MD912 * MD10ED÷MD12ED MD21÷MD228 MD20, MD50
Secondary DOOR					
AGORA' series	PROFILO series	MATE	<u>RIX</u> series	MO	<u>DY</u> series
X AG100A X AG21 3xX AG20 X AG30ED		× × × × ×	MA71 MAS61 (¹) MA91 * MAS11PED 241DMA	× × × × ×	MD71 MD81 MD91 * MD11ED 241D
EX311 EX321 KM811W PT511EW • VARIOUS ARTICL	Exhito series with 2 call buttons Exhito series modular intercom Compact series intercom with 1 call Project series intercom with 1 call b				
X 1473 X PRS210ED 1 PRS210 1+X PA** 1+X SE ** X D **	Exchanger Transformer with electronic ringing Transformer Door release push-button (<i>optional</i> Electric door lock (12VAC-1A) 100V-1A diode (type 1N4007)	-	r		
Refers to number of Refers to the number Or MA61÷MA63. Rain shelters are us Articles not supplied	er of stairways. sed instead of back boxes and hood cove	ers.			

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.

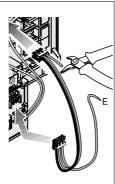
Working instructions.

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.

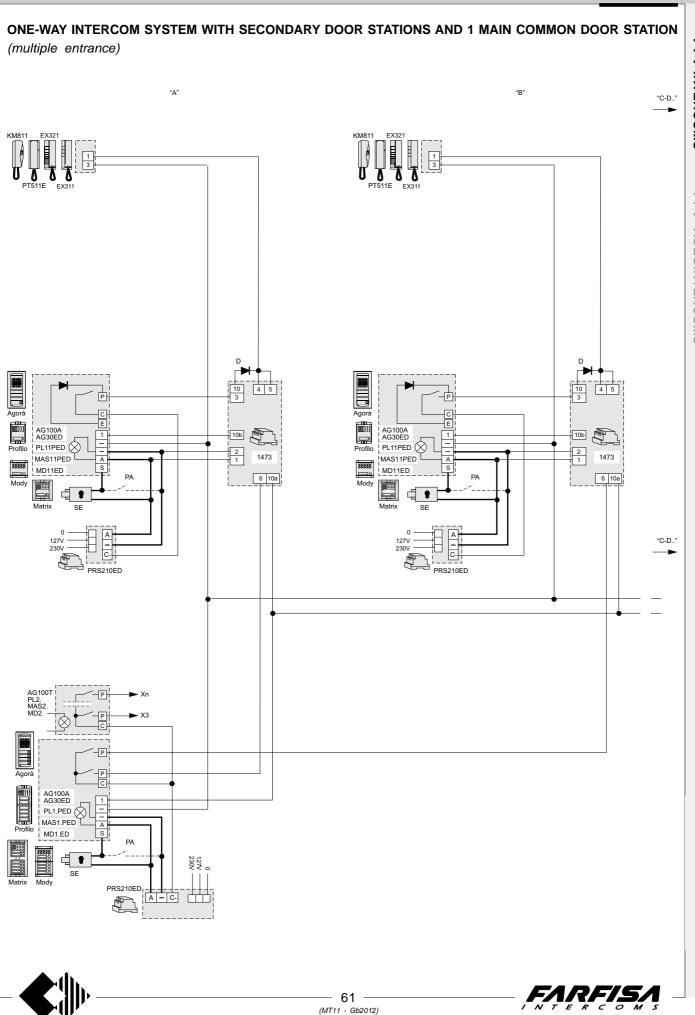
Agorà door stations

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).









Si 26MR/2

1+1 INTERCOMS * 4+1 VIDEOINTERCOMS

Si 27MR/1

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

• EXTERNAL DOOR STATIONS

AGO	<u>RA'</u> series	PRO	FILO series	MAT	<u>RIX</u> 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 EX321 KM811W PT511E	
------------------------------------	--

• VARIOUS ARTICLES

	1473 PRS210ED PRS210 PA ** SE **	Exchanger Transformer with electronic ringing generator Transformer Door release push-button (<i>optional</i>) 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.

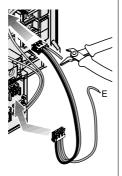
Working instructions.

- 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

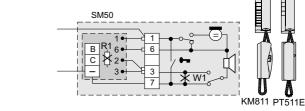
Attention. In the door station AG100A of the secondary entrances create the terminal "E" cutting the red wire which connects the door speaker AG30ED to the backlighting board (see figure), than connect it to the terminals "E" of additional AG100T's (*if any*).

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





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

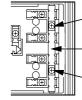


In all SM50 cut the resistance R1 and in the intercom the jumper W1.

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 pushbuttons by cutting opportunely the common rail which connects the common terminals of push-buttons.





Common of button 3 and 4

Common buttons building "b"

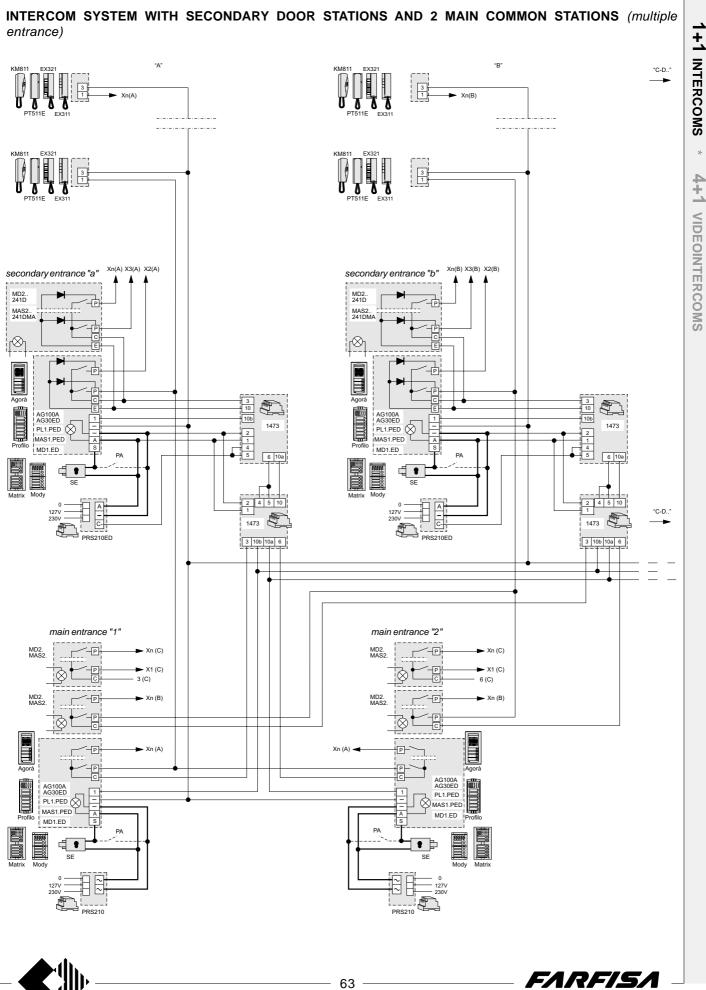
Common buttons

building "a'





Si 27MR/1



3(-

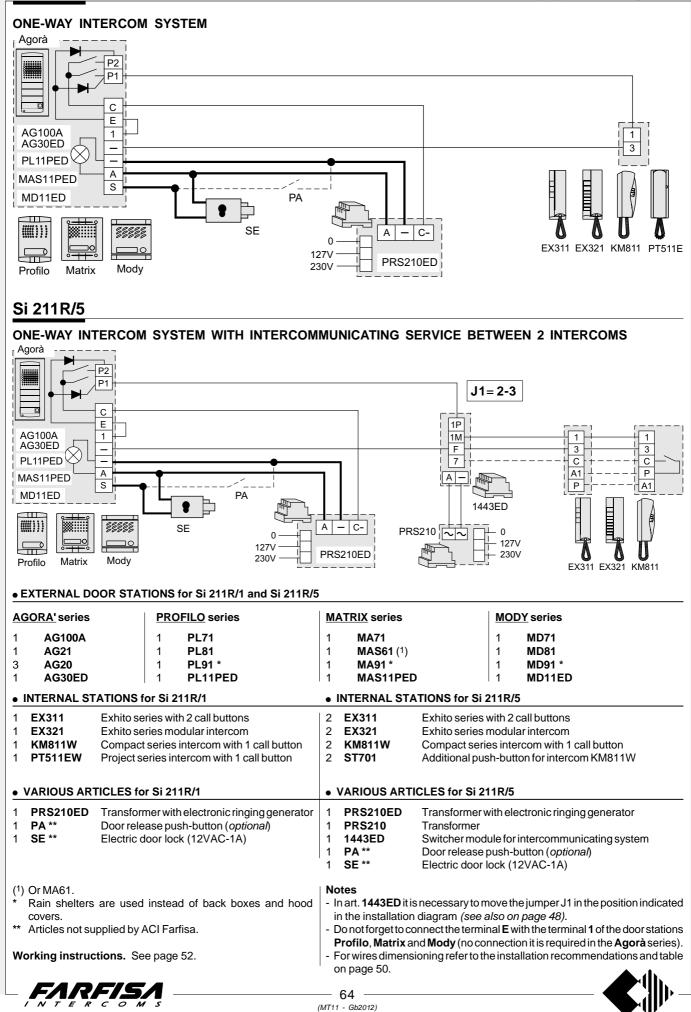
4+1

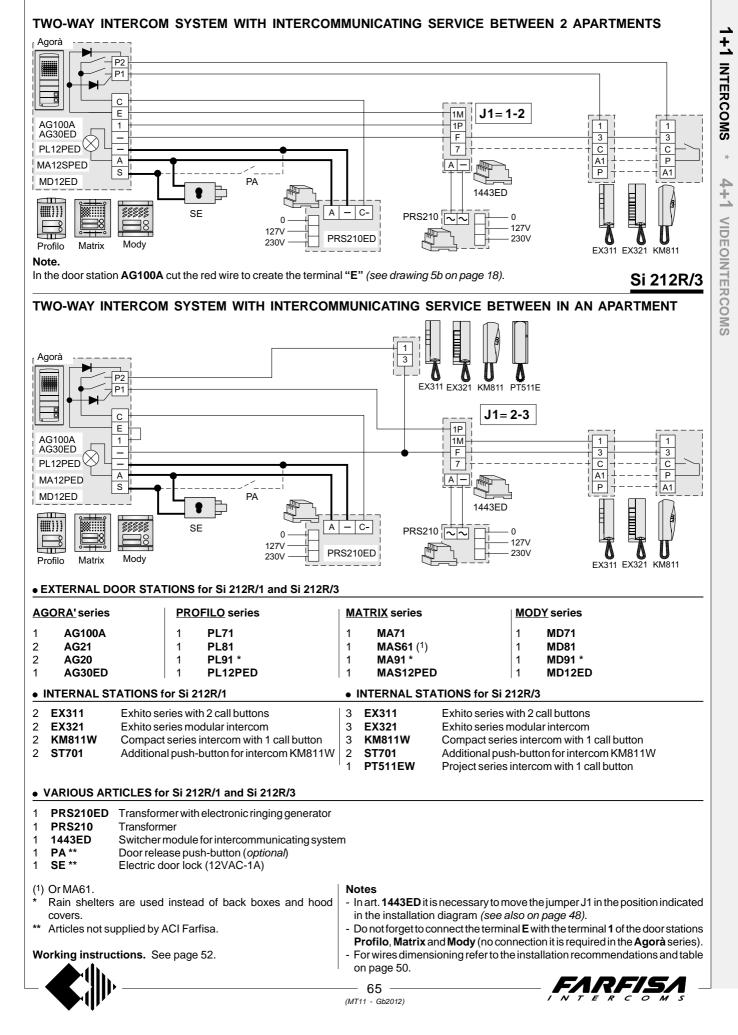
+

INTERCOMS

4+1

VIDEOINTERCOMS





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

• EXTERNAL DOOR STATIONS

AG	<u>ORA'</u> series	PRO	DFILO series	MA	TRIX series	MO	<u>DY</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
			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

• 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 1 1	PRS210ED Transformer with electronic ringing generator PA ** Door release push-button (optional) SE ** Electric door lock (12VAC-1A)			
 Refers to number of users. (1) Or MA61÷MA63. * Pain shalters are used instead of back horses and bood covers. 		Agorà door station Attention. In the door station		
	 Rain shelters are used instead of back boxes and hood covers. Articles not supplied by ACL Farfisa 		AG100A of the secondary en- trances create the terminal "F"	

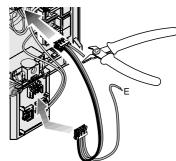
** Articles not supplied by ACI Farfisa.

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.

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)

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

1 **PRS2**1

- 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> ł	<u>Exhito</u>		<u>Compact</u>	
2	EX311 EX321	2	KM811W ST701	
1 1	1443ED PRS210	1 1	1443ED 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

<u>Exhito</u>

3 EX311 3 EX301	33	EX321 EX301
1 1443ED 1 PRS210	1	1443ED PRS210
1110210		1110210

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).

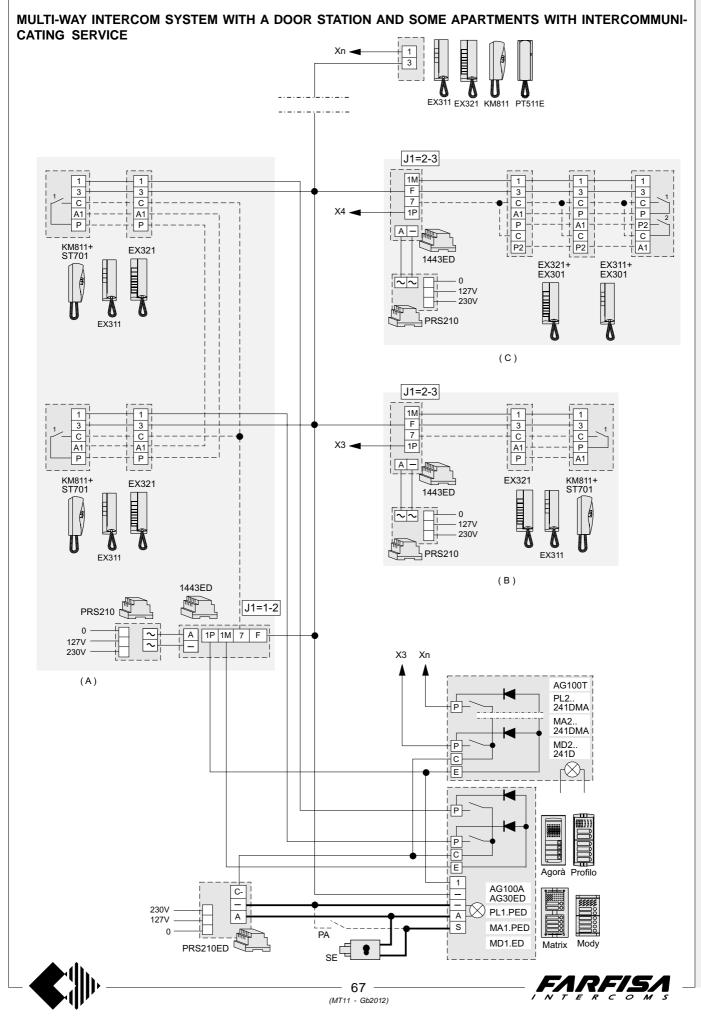






Multi-way intercommunicating system diagrams

Si 214R/1

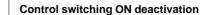


• EXTERNAL DOOR STATIONS			
AGORA' series	PROFILO series PL71÷PL73	<u>MATRIX</u> series MA71÷MA73	MODY series
AG100T AG20 AG21 AG222 1 AG40CED	1 PL81÷PL89 1 PL91÷PL99 * 1 PL40PCED÷PL42PCED PL40PED÷PL42PED PL21÷PL228 PL20, PL50 241DMA	MAS61÷MAS63 (1) 1 MA91÷MA93* 1 MAS43CED MAS43ED MAS22, MAS24 MAS20 241DMA	1 MD82÷MD812 1 MD92÷MD912 * 1 MD10ED÷MD12ED 1 MD41D MD21÷MD228 MD20, MD50 241D
• VIDEOINTERCOMS			
ECHOS series	EXHITO series	COMPACT series	
EH9161CT EH9161CW 9083 WA9100T-W TA9160	EX3100C EX3160C EX3160 WB3161 TA3160	KM8111CW KM8111W WB8111	
• INTERCOMS			
EXHITO series	<u>COMPACT</u> series	PROJECT series	
EX311 EX321 SM50 ***	KM811W SM50 ***	PT511EW SM50 ***	
• VARIOUS ARTICLES			
1 1181E DV2D-DV4D 1 PA ** 1 SE **	Timed power-supply Video distributors Door release push-button (<i>opti</i> Electric door lock (12VAC-1A)		
Refers to number of us (1) Or MA61÷MA63. Rain shelters are used Articles not supplied b	l instead of back boxes and hood cove	rs.	

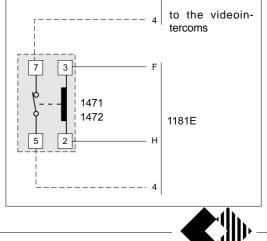
For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 50.
For wires dimensioning and video connection refer to the installation instructions and table on pages 50 and 51.

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*).



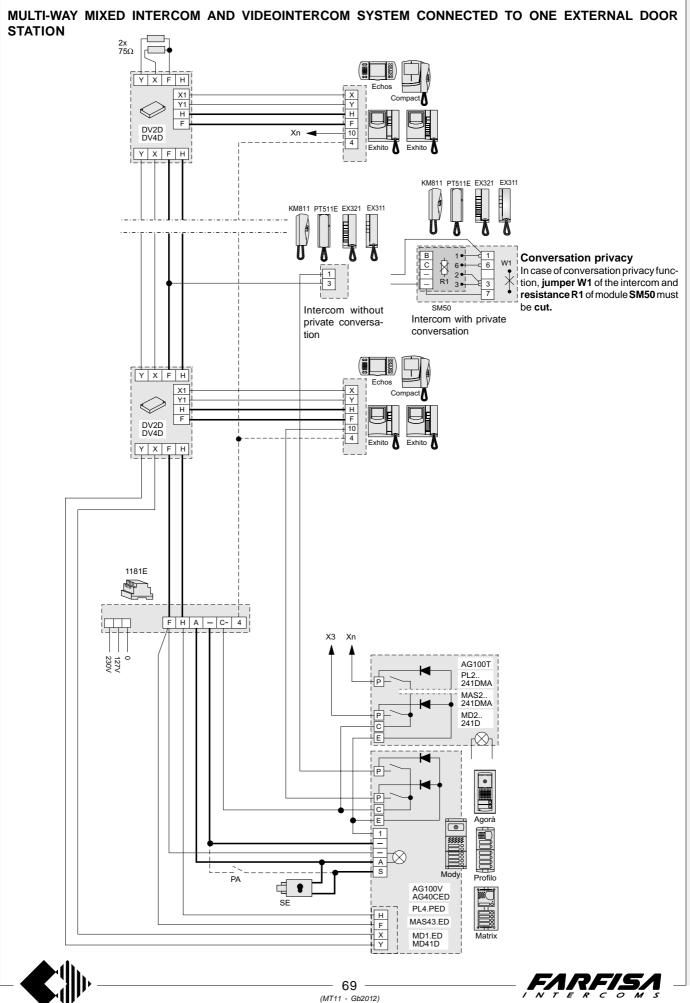
To activate the control switching ON from the videointercoms only when the system is in stand-by, it is necessary to install a relay (type **1471** or **1472**) and connect it as shown on the diagram.







Si 41MR/2



Si 41MR/28

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

• EXTERNAL DOOR STATIONS

EATERNAL DOOR 31	ATIONS		
AGORA' series	PROFILO series	MATRIX series	MODY series
1 AG100A AG100T AG20 AG21 AG222 1 AG30ED	PL71÷PL73 1 PL81÷PL89 1 PL91÷PL99 * 1 PL10PED÷PL12PED PL21÷PL228 PL20, PL50 241DMA	MA71÷MA73 MAS61÷MAS63(¹) 1 MA91÷MA93* 1 MAS10PED÷MAS12PED MAS22, MAS24 MAS20 241DMA	MD71÷MD74 1 MD81÷MD812 1 MD91÷MD912 * 0 1 MD10ED÷MD12ED MD21÷MD228 MD20, MD50 241D
INTERNAL STATIONS	6		
ECHOS series	EXHITO series	COMPACT series	
EH9161CT EH9161CW 9083 WA9100T-W TA9160	EX3100C EX3160C EX3160 WB3161 TA3160	KM8111CW KM8111W WB8111	
VARIOUS ARTICLES			
1 1181E DV2D-DV4D 1 CV01 1 TVT 1 H 1 CU 1 AST 1 APS 1 PA ** 1 SE **	Timed power-supply Video distributors Video signal converter CCTV camera Lens with or without autoiris Outdoor heated housing Bracket for camera or housing Power supply for camera Door release push-button (<i>op</i> Electric door lock (12VAC-1A	otional)	

... 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

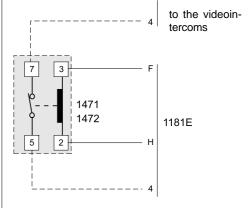
- For audio compatibility we do not suggest to connect door stations MODY series with internal devices ECHOS series.
- For the connection of name-plate lamps, read notes 6, 7 and 8 of the installation instructions on page 50.
- For wires dimensioning and video connection refer to the installation instructions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

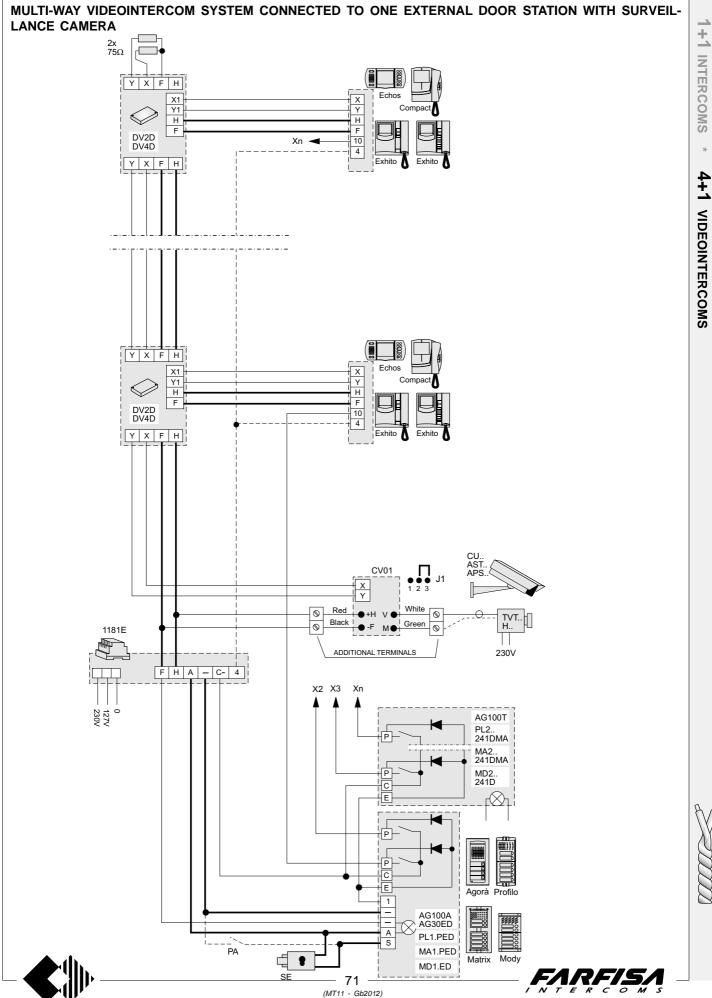
To activate the control switching ON from the videointercoms only when the system is in standby, it is necessary to install a relay (type **1471** or **1472**) and connect it as shown on the diagram.







Si 41MR/28



Si 42MR/1

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

• EXTERNAL DOOR STATIONS

GORA' series	PROFILO series	MATRIX series	<u>MODY</u> series
1 AG100V	PL71÷PL73	MA71÷MA73	MD72÷MD74
AG100A	2 PL81÷PL89	MAS61÷MAS63 ((1) 2 MD82÷MD812
AG100T	2 PL91÷PL99 *	2 MA91÷MA93*	2 MD92÷MD912 *
AG20	1 PL40PCED÷PL42	PCED 1 MAS43CED	2 MD10ED÷MD12E
AG21	PL40PED÷PL42PI	ED MAS43ED	1 MD41D
AG222	1 PL10PED÷PL12PI	ED 1 MAS10PED÷MA	S12PED MD21÷MD228
1 AG30ED	PL21÷PL228	MAS22, MAS24	MD20, MD50
1 AG40CED	PL20, PL50	MAS20	241D
	241DMA	241DMA	
ECHOS series	EXHITO series	COMPACT series	
EH9161CT	EX3100C	KM8111CW	
EH9161CW	EX3160C	KM8111W	
9083	EX3160	WB8111	
WA9100T-W	WB3161		
TA9160	TA3160		
VARIOUS ARTICLI	ES		
1473	Exchanger		
1181E	Timed power-supply		
1 PRS210	Transformer		

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.

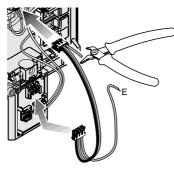
Notes

- 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).

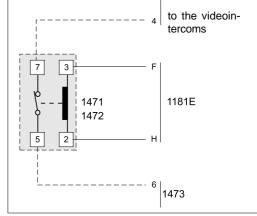
The terminal "E" of the entrance "b" must remain disconnected and insulated, on the contrary that of entrance "a" must be connected to the terminals "E" of additional AG100T's (*if present*).



— 72 — (MT11 - Gb2012)

Control switching ON deactivation

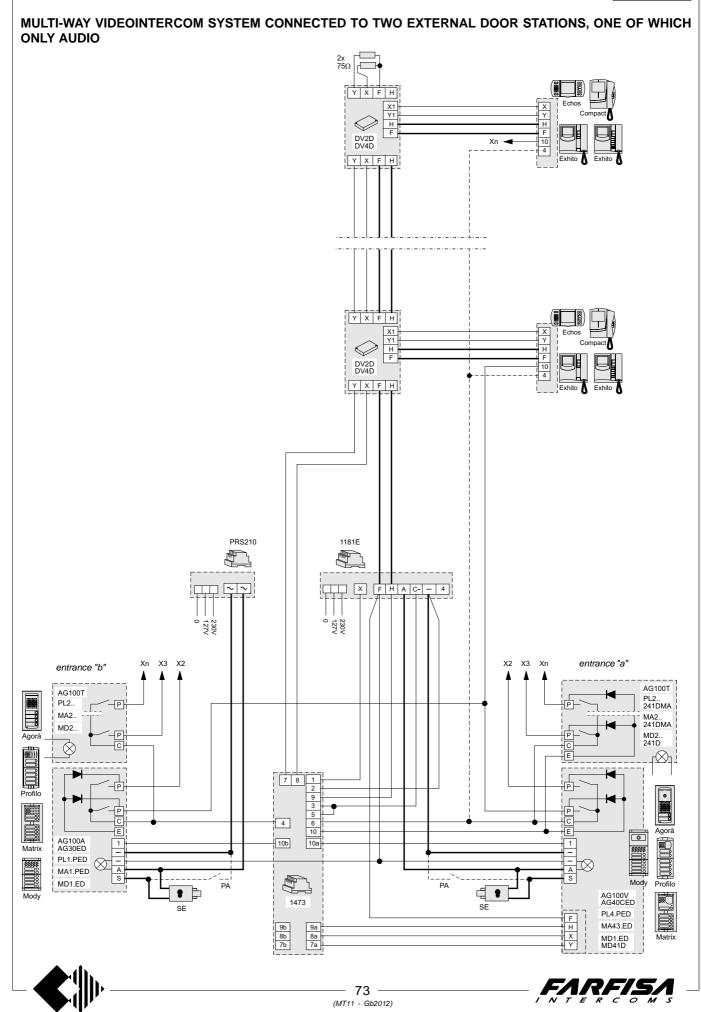
To activate the control switching ON from the videointercoms only when the system is in standby, it is necessary to install a relay (type **1471** or **1472**) and connect it as shown on the diagram.







Si 42MR/1



Si 42MR/2

MULTI-WAY VIDEOINTERCOM SYSTEM CONNECTED TO TWO EXTERNAL DOOR STATIONS

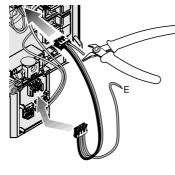
ORA' series	PROFILO series	MATRIX series	MODY series
AG100V AG100T AG20 AG21 AG222 AG40CED	 PL71÷PL73 PL81÷PL89 PL91÷PL99 * PL40PCED÷PL42PCED PL40PED÷PL42PED PL21÷PL228 PL20, PL50 241DMA 	MA71÷MA73 MAS61÷MAS63 (1) 2 MA91÷MA93* 2 MAS43CED MAS43ED MAS22, MAS24 MAS20 241DMA	MD72÷MD74 MD82÷MD812 MD92÷MD912 * MD10ED÷MD12ED MD41D MD21÷MD228 MD20, MD50 241D
NTERNAL STATION			
<u>CHOS</u> series	EXHITO series	COMPACT series	
EH9161CT EH9161CW 9083 WA9100T-W TA9160 VARIOUS ARTICLES	EX3100C EX3160C EX3160 WB3161 TA3160	KM8111CW KM8111W WB8111	
1473 1181E PRS210 DV2D-DV4D PA ** SE **	Exchanger Timed power-supply Transformer Video distributors Door release push-button (<i>optio</i> Electric door lock (12VAC-1A)	onal)	
Refers to number of u Or MA61÷MA63. Rain shelters are use Articles not supplied	d instead of back boxes and hood cove	rs.	
	cribed on page 52, with the following van ns and door lock opening are automatica entrance is received.		/hich has made the call and remain in

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 video intercom to the position 2-3 (see page 4).

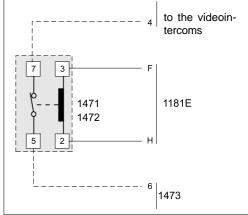
Agorà door stations

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).

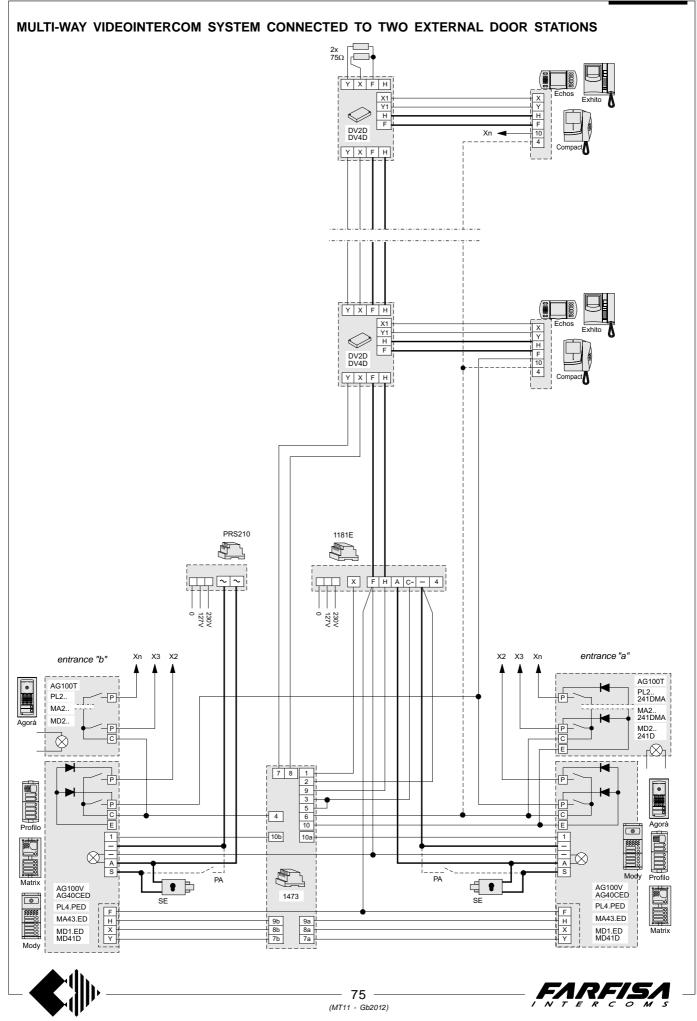


Control switching ON deactivation

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.







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

• EXTERNAL DOOR STATIONS

AGORA' series	PRO	FILO series	MAT	<u>RIX</u> series	MOD	<u>Y</u> series
+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
+X AG40CED		PL21÷PL228		MAS22, MAS24		MD21÷MD228
		PL20, PL50		MAS20		MD20, MD50
		241DMA		241DMA		241D

• INTERNAL STATIONS

ECI	HOS series	EXHITO	series	CON	IPACT series	
	EH9161CT EH9161CW 9083	E	X3100C X3160C X3160	 	KM8111CW KM8111W WB8111	
	WA9100T-W TA9160		/B3161 ∆3160			

VARIOUS ARTICLES

Х	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)

... 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.

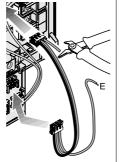
As the basic system described on page 52, with the following variations:

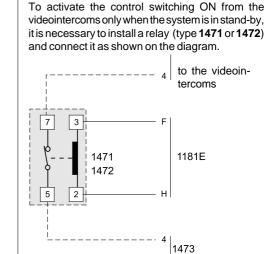
- The audio-video functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

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*).





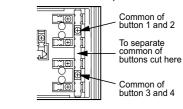
Control switching ON deactivation

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.



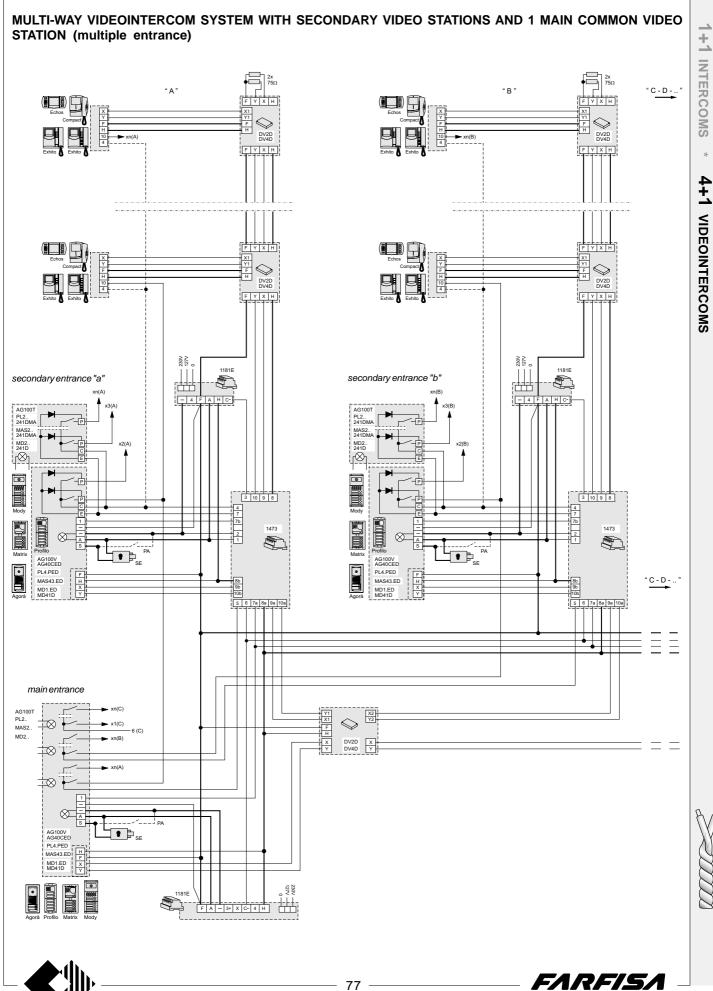


+

Common buttons

Common buttons building "b"

building "a'





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

• EXTERNAL DOOR STATIONS

AGORA' series	PRO	FILO series	MAT	<u>RIX</u> series	MOD	Y series
1 AG100V	 4 . M	PL71÷PL73		MA71÷MA73		MD72÷MD74
X AG100A	1+X	PL81÷PL89		MAS61÷MAS63 (1)	1+X	MD82÷MD812
AG100T	1+X		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	Х	PL10PED÷PL12PED	Х	MAS10PED÷MAS12PED		MD21÷MD228
X AG30ED		PL21÷PL228		MAS22, MAS24		MD20, MD50
1 AG40CED		PL20, PL50		MAS20		241D
		241DMA		241DMA		
• INTERNAL STATIONS						
ECHOS series	<u>EXH</u>	ITO series	COM	PACT series		
EH9161CT		EX3100C		KM8111CW		
EH9161CW		EX3160C		KM8111W		
9083		EX3160		WB8111		
WA9100T-W		WB3161				
TA9160		TA3160				

• VARIOUS ARTICLES

Х	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)
_		

... 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.

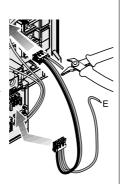
As the basic system described on page 52, with the following variations:

- 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*).

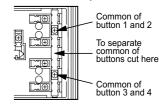
In the door station **AG100V** of the **main** entrance only cut and insulate the conductor "**E**" (red wire).



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**.

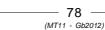
Common buttons building "a" Agorà series can be separated according to the requirements, by cutting opportunely the common rail or just do not using it.

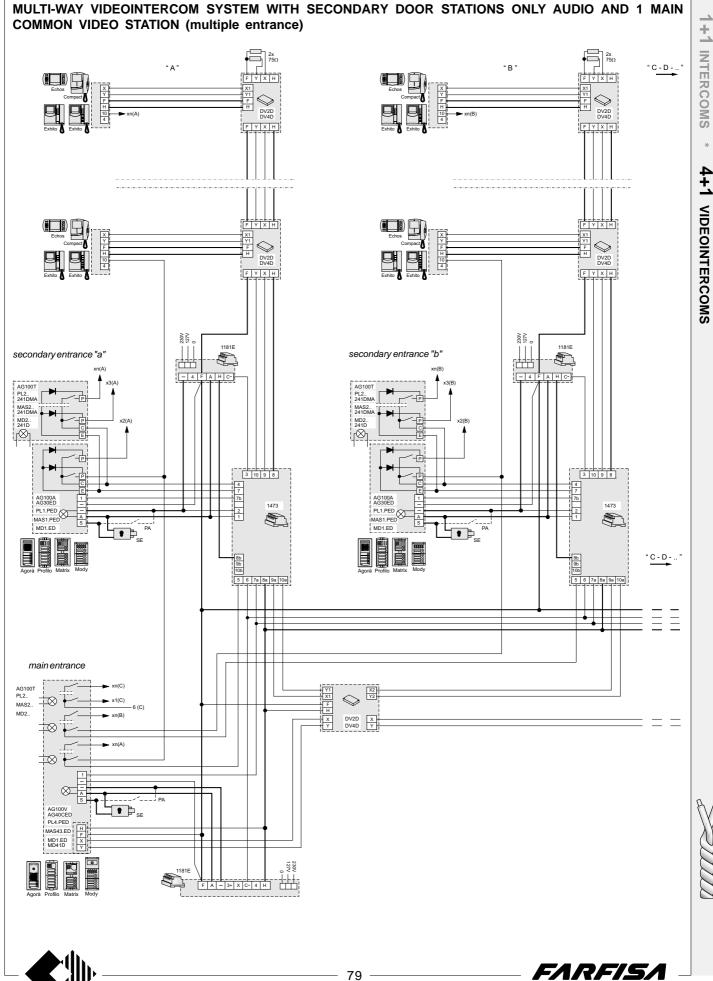
In **Mody** series the common terminals of push-buttons can be separated module by module or every 2 pushbuttons by cutting opportunely the common rail which connects the common terminals of push-buttons.









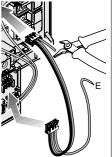


ONE-WAY VIDEOINTERCOM SYSTEM WITH SECONDARY VIDEO STATIONS AND 1 MAIN COMMON VIDEO STATION

• MAIN DOOR STATION

• M.	AIN DOOR STATION						
AG	<u>ORA'</u> series	PRC	<u>DFILO</u> series	MA	TRIX series	MO	<u>DY</u> series
1 1	AG100V AG100T AG20 AG21 AG222 AG40CED	 1 1 	PL71÷PL73 PL81÷PL89 PL91÷PL99 * PL40PCED÷PL42PCED PL40PED÷PL42PED PL21÷PL228 PL20, PL50 241DMA	 1 1 	MA71÷MA73 MAS61÷MAS63 (1) MA91÷MA93* MAS43CED MAS43ED MAS22, MAS24 MAS20 241DMA	 1 1 1 	MD72÷MD74 MD82÷MD812 MD92÷MD912 * MD10ED÷MD12ED MD41D MD21÷MD228 MD20, MD50 241D
• SI	ECONDARY DOOR S	TATION	IS				
AG	<u>ORA'</u> series	PRC	<u>DFILO</u> series	MA	TRIX series	MO	<u>DY</u> series
X X X X	AG100V AG21 AG20 AG40ED	X X X X	PL71 PL81 PL91 * PL41PCED PL41PED	X X X X	MA71 MAS61 (¹) MA91 * MAS43CED MAS43ED	X X X X X	MD72 MD81 MD91 * MD41D MD11ED
	ITERNAL STATIONS HOS series		IITO series	<u> </u>	MPACT series		
 	EH9161CT EH9161CW 9083 WA9100T-W TA9160	 	EX3100C EX3160C EX3160 WB3161 TA3160	 	KM8111CW KM8111W WB8111		
• V/	ARIOUS ARTICLES						
1+X X	DV2D-DV4D PA ** SE ** D **	T V D E 1 ¹ ers.	xchanger imed power-supply ideo distributors oor release push-button (<i>opti</i> lectric door lock (12VAC-1A) 00V-1A diode (type 1N4007)	onal)			
(1) (*	Refers to number of sta Or MA61÷MA63. Rain shelters are used Articles not supplied by	instead	of back boxes and hood cove ffisa.	rs.			
- Fo in - F	or audio compatibility 10DY series with interr or the connection of na stallation instructions o	nal devic me-plate on page { and vide	e lamps, read notes 6, 7 and 8 (50. o connection refer to the install	of the	Agorà door stations Attention. In the door s necessary to cut and in which connects the doo AG40CED to the back diodes and LED's (see	sulate th r speake lighting b	e red wire r amplifier
Ast - Th sv	ne audio-video function vitched to the door station ate until a call from and	ns and d on which other entr	age 52, with the following variat oor lock opening are automat has made the call and remain i ance is received. tions are independent and ca	ically nthis			E

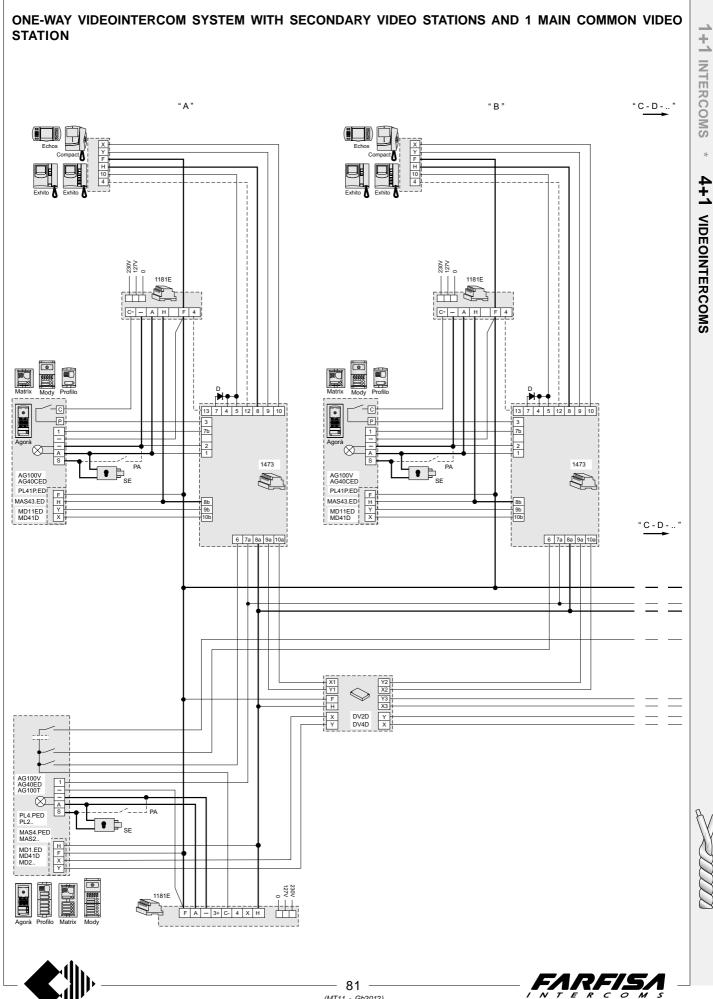
- Services to secondary door stations are independent and can be operated at the same time.



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

MAIN DOOR STATION

<u>GORA'</u> series	PROFILO series	MA	TRIX series	MO	<u>DY</u> series
AG100V AG100T AG20 AG21 AG222 AG40CED	PL71÷PL73 1 PL81÷PL89 1 PL91÷PL99 * 1 PL40PCED÷PL42PC PL40PED÷PL42PED PL21÷PL228 PL20, PL50 241DMA		MA71÷MA73 MAS61÷MAS63 (¹) MA91÷MA93* MAS43CED MAS43ED MAS22, MAS24 MAS20 241DMA	 1 1 1 	MD71÷MD74 MD81÷MD812 MD91÷MD912 * MD10ED÷MD12ED MD41D MD21÷MD228 MD20, MD50 241D
SECONDARY DOO	R STATIONS				
AGORA' series	PROFILO series	MA	TRIX series	MO	<u>DY</u> series
X AG100A X AG21 3xX AG20 X AG30ED INTERNAL STATIO	X PL71 X PL81 X PL91 * X PL11PED	X X X X	MA71 MAS61 (¹) MA91 * MAS11PED	X X X X	MD71 MD81 MD91 * MD11ED
ECHOS series	EXHITO series	CO	MPACT series		
EH9161CT EH9161CW 9083 WA9100T-W TA9160	EX3100C EX3160C EX3160 WB3161 TA3160	 	KM8111CW KM8111W WB8111		
• VARIOUS ARTICLE	S				
X 1473 1+x 1181E 1+ DV2D-DV4D 1+X PA ** 1+X SE ** X D **	Exchanger Timed power-supply Video distributors Door release push-button Electric door lock (12VAC 100V-1A diode (type 1N4	-1A)			
 Refers to number of Refers to number of (1) Or MA61+MA63. Rain shelters are us * Articles not supplied 	stairways. sed instead of back boxes and hood	covers.			

- 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.

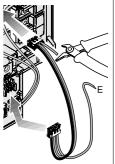
Working instructions.

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).

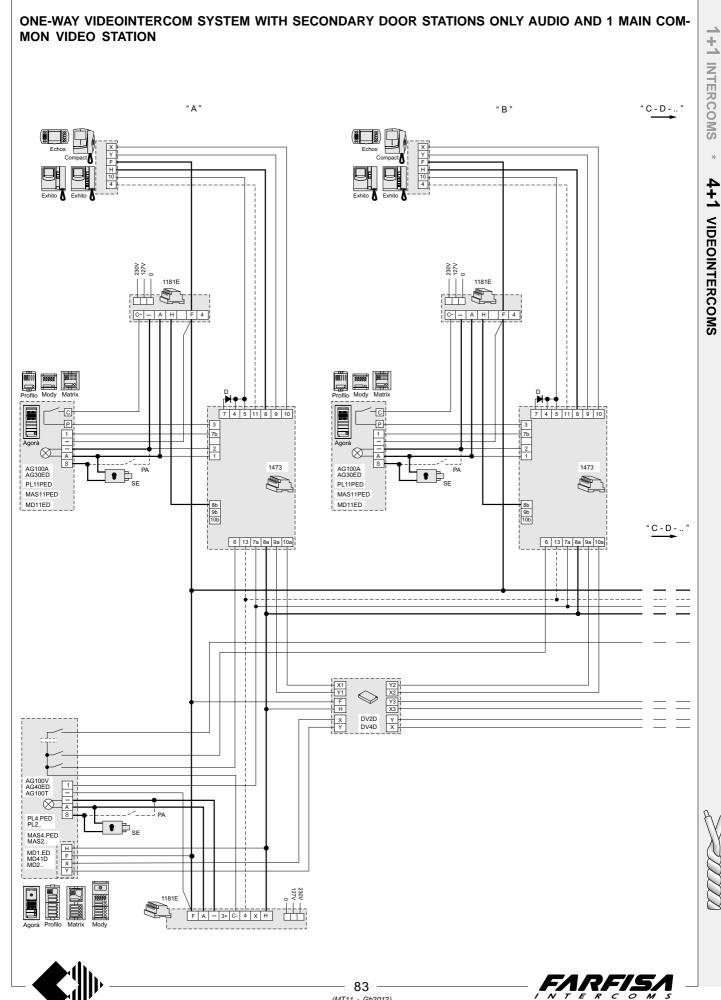








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Si 47MR/1

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	2+X 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	EXHITO series	<u>COMPACT</u> series	
EH9161CT	EX3100C	KM8111CW	
EH9161CW	EX3160C	KM8111W	
9083	EX3160	WB8111	
WA9100T-W	WB3161		
TA9160	TA3160		

VARIOUS ARTICLES

	1473 1181E	Exchanger Timed power-supply
1	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).

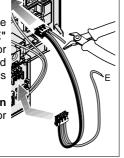
Working instructions.

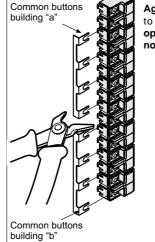
- As the basic system described on page 52, with the following variations: - The audio-video functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

Agorà door stations

"E" (red wire).

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





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.

Control switching ON deactivation

7

5

3

2

1471

1472

The main entrance push-button panel must have separate common

terminals. One common terminal for each secondary door station. The

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.

4

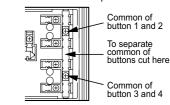
to the videoin-

tercoms

1181E

1473 (DS1)

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.



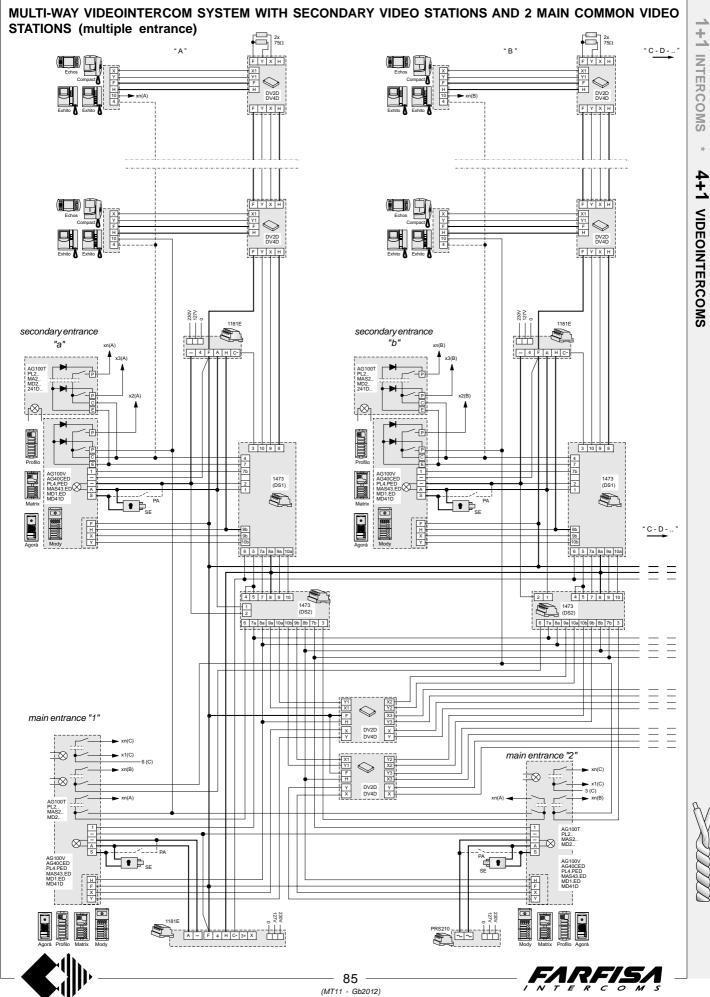




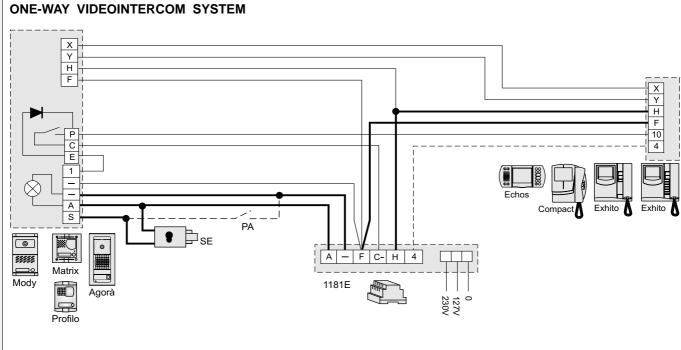
84



Si 47MR/1



Si 411R/1



• EXTERNAL DOOR STATIONS

AGO	<u>DRA'</u> series	PRO	<u> OFILO</u> series	MA	<u>FRIX</u> series	MO	<u>DY</u> series
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

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

• VARIOUS ARTICLES

1	1181E	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).

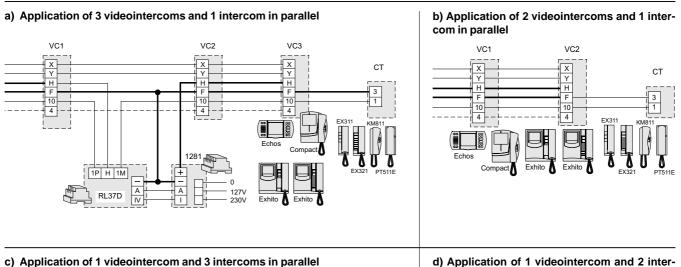




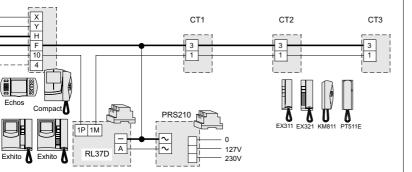


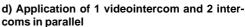
Additional diagrams for systems NOT intercommunicating

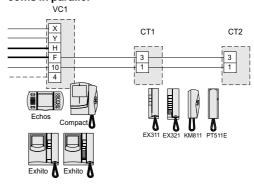
All videointercom installation diagrams in this technical manual are drawn with only one video intercom for each user. It is possible to "personalise" the installation by properly matching the applications on the following pages to the basic diagrams. To obtain the requested wiring diagram it is necessary 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.











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

-				
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
L				1

Select the desired model among those listed





To get a different ringing tone, move the jumper J2,

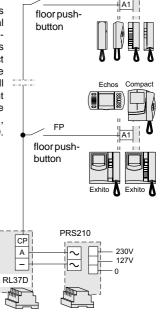
located inside the art. RL37D, from position 1-2 to

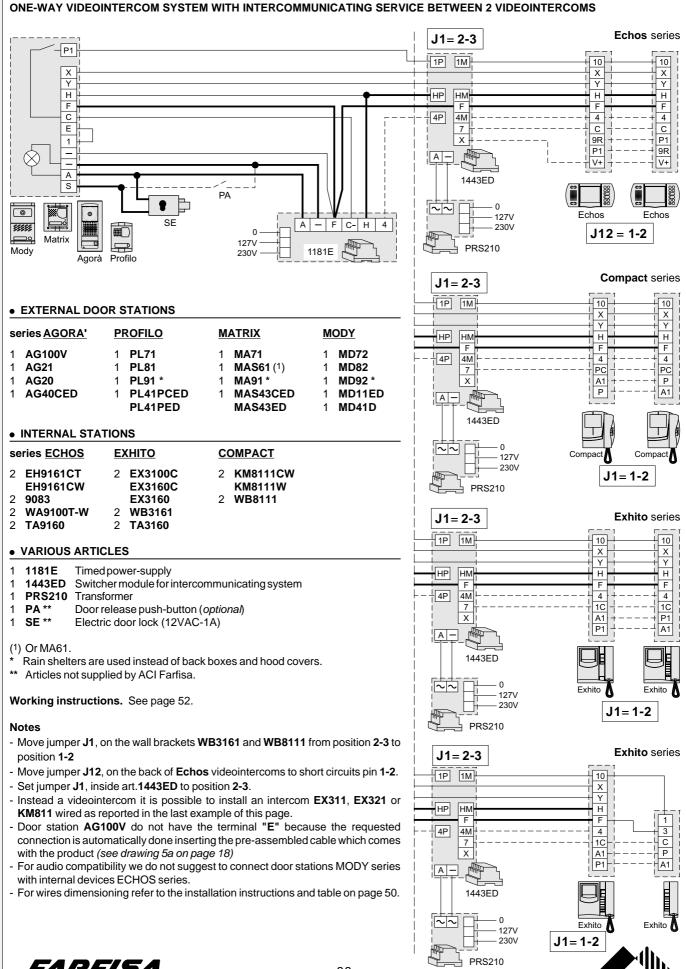
e) Floor call (for intercom and videointercom systems) FP

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.

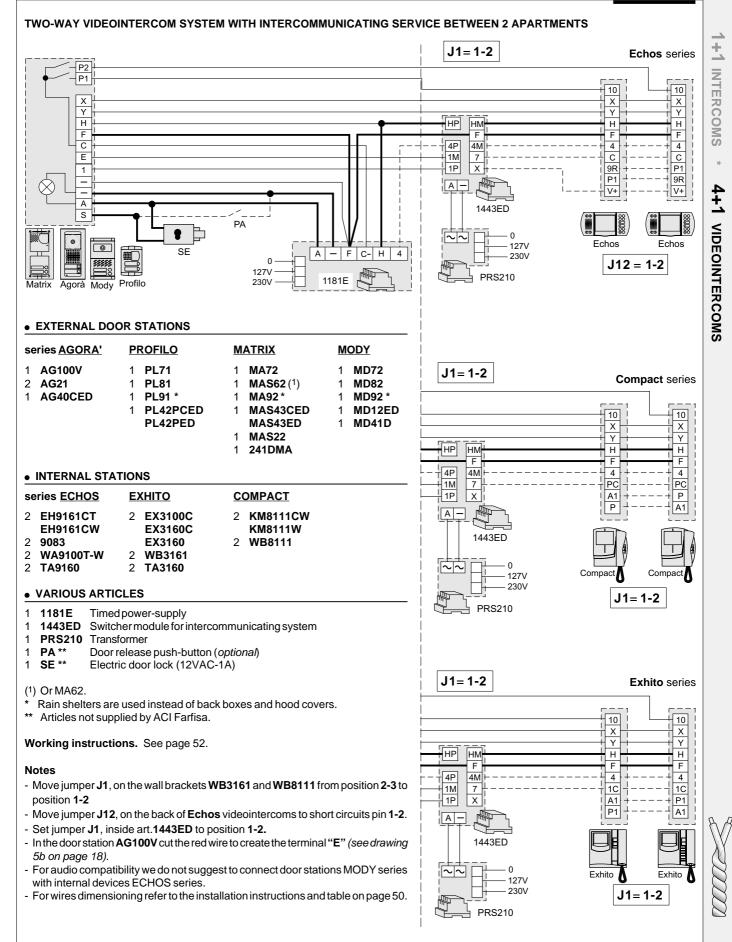
position 2-3.





Additional diagrams for two-way intercommunicating systems

Si 412R/18







Si 414R/8

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

• EXTERNAL DOOR STATIONS

AG	<u>ORA'</u> series	PRO	<u>DFILO</u> series	MA.	<u>TRIX</u> series	MO	<u>DY</u> 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

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			(B) Intercommunicating service in the same apartment among 2 videointer- coms and 1 intercom Exhito series	(C) Intercommunicating service in the same apartment between 2 videoin-tercoms Echos
	Echos 2 EH9161 2 9083 2 WA9100 2 TA9160 1 1443ED	Exhito 2 EX3100 EX3160 2 WB3161 2 TA3160 1 1443ED	Compact 2 KM8111W 2 WB8111 1 1443ED 1 PRS210	Exhito 2 EX3160 1 EX321 2 WB3161 1 EX301 2 TA3160 1 1443ED 1 PRS210	Echos 2 EH9161 2 9083 1 1443ED 1 PRS210
3	1 PRS210 Notes: - In the art. 14 the position - Move jumper and WB811 2 - Move jumper	1 PRS210 43ED move the 2-3 to the posit rJ1, on the wall b 1 from position	brackets WB3161 2-3 to position 1- back of ECHOS	 Notes: Set jumper J1, inside art.1443ED to position 2-3. Move jumper J1, on the wall brackets WB3161 from position 2-3 to position 1-2 	Notes: - Setjumper J1, inside art.1443ED to position 2-3. - Move jumper J12, on the back of ECHOS videointercoms to short circuits pin 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 = b 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.

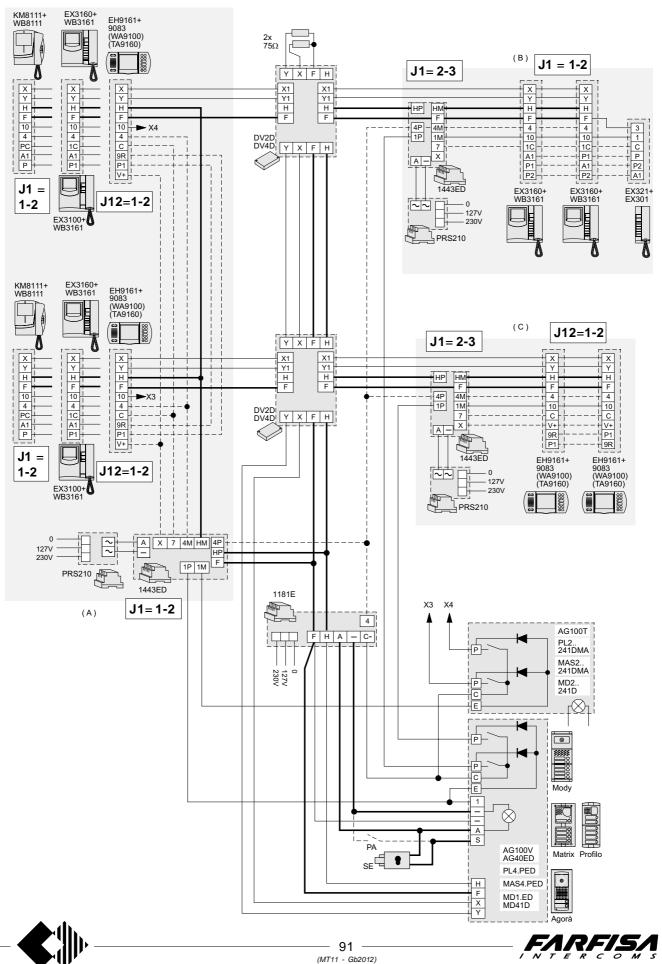
To hear the ringing tone, the called videointercom or intercom must have the handset correctly hooked in its place (no unhooked). Read also the operating notes on page 52.



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



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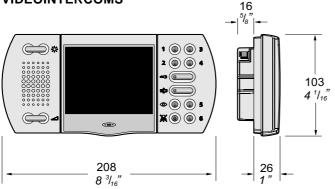
INTERCOMS AND VIDEOINTERCOMS

TRADITIONAL

INDEX Page Internal stations _ 94 - Echos series videointercoms 94 - Exhito series videointercoms 97 - Exhito series intercoms 98 - Compact series videointercoms 100 - Compact series intercoms 102 - Project series intercoms 102 - Studio series intercoms 103 - Studio series videointercoms 107 External door stations 113 - Profilo series push-button panels 113 - Matrix series push-button panels 122 - Mody series push-button panels 129 - UP series push-button panels 139 - ErreP/R series push-button panels 140 Power supplies _ _ 141 Service modules ____ ____142 Installation instructions 146 Intercom installation diagrams _ 151 - Working instructions 183 - Troubleshooting 184 Videointercom installation diagrams ____ 185 - Working instructions 218 - Troubleshooting 218



VIDEOINTERCOMS



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
0.3A
3.5" LCD
PAL
15625Hz
50Hz
>5MHz
0.8÷1.5Vpp
1 second
2 (programmable)
0°÷+50°C
90%RH

Terminals

- Video signal input-output
- Μ Video ground (shielded coaxial)
- F General ground
- н Positive voltage input (18÷24Vdc)
- 1 Microphone output
- Speaker and automatic switching OFF input 2 3
- Audio ground
- Control switching ON button Door lock release button 4 5
- 8 Positive power supply output for video distributors 12Vdc
- Call input from external door station 9M
- 9R Electronic call input from other intercommunicating devices
- Positive voltage input for intercommunicating devices (15÷18Vdc) СР Electronic floor-call input
- L+
- LED for open-door signalling or other functions Common contact for buttons P1 and P2 1C
- 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) C*

* Terminals only on the models EH9160CT and EH9160CW

C P P P P 2 P P 1 L C X 9 9 8 5 4 3 2 1 H F <u>n n n n n</u>🗘

9 8 5 4 3 M

1

C P P P P 2 6 5 4 3 C

9 8 5 4 3 M P P 1 L C X 2 | 1 | H | F V M V EH9160C



P P 1 L C 2 1 C + P

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.

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

J6

J5

(*) Factory setting

1 - 2 Intercommunicating calls

2 - 3Control switching ON

commons 1C and 2C

Free Free contacts -

n 1

Installation and settings

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

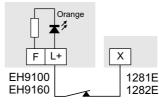
Supplementary functions

Floor call

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.



Closed contact the orange LED is ON.

Open contact the orange LED is OFF.

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

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

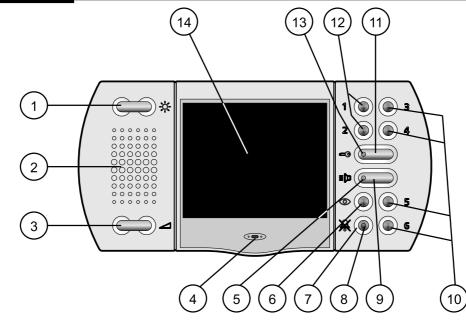
TA9160. Table adapter for Echos videointercoms. Complete with junction box and 2.4m connection cable with 20 wires.



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FH9100C

94 -



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
- 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.
- 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.

- ④ Audio communication button ≡ D. It allows to enable the audio communication with the door station or another intercom after receiving a call or a *control switching ON operation* (③). The audio communication is end pressing again the button or if the communication time expires.
- (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 (1). 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);

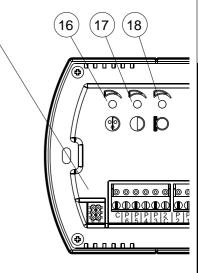
- control switching ON function for multiple entrance systems;

- 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.

- (13) 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 (P).

(15

- (18) Contrast adjustment ().
- (9) Adjustment of the microphone amplifier .



Ц



ADJUSTMENTS

Brightness adjustment.

With the video intercom switched ON, press left and right the button 3 to adjust the brightness of the image. To store the current setting press the button \equiv **b**. The pressure of 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.

When you receive a call from the door station or from another intercommunicating equipment it is possible to adjust the level of the ringing sound pressing left and right the button \square . To store the current setting press the button \blacksquare .

To disable the ringing sound it is necessary, during a receiving call, to press momentarily the button χ ; 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 **D** to enable the communication. To set the receiving audio level (loudspeaker) press left and right the button **D**. To store the selected level press the button **D**. 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 intercom between talk and listening function decrease the level of the preferred



function and increase the other one by acting on the button \checkmark or on the trimmer \bigcirc 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 @.

to keep pressed for more than 2 seconds the buttons ; 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 \checkmark 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 to 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 - button to select the previous or next ringer tone;
- after having selected the favourite ringer tone, keep the k 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 $\equiv baseline$. 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 \mathbf{X} ; in this status the red LED will light up continuously. To restore the audio to the door station press again the button \mathbf{X} ; the red LED will recover the previous status. To end the communication and switch OFF the video intercom press the button $\equiv \mathbf{D}$. The video intercom switches OFF automatically when the communication a call to another user is made.

Control switching ON

The button ③ 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 = D. 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.

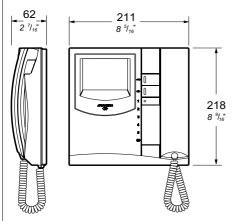
Intercommunicating Call (only EH9160C)

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 $\equiv b$. The communication will also end when the communication time expires or if there is a call from the external door station.



4+1 INTERCOMS

VIDEOINTERCOMS

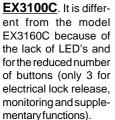


EX3160. White Flat video intercom with private audio-video function, electronic microphone, differentiated double electronic ringing sounds (modulated and continuous) and terminal board for the connection to the wall bracket. Equipped with led's and 2 buttons for camera control switch ON and door-open. 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
Bandwidth	>5MHz
Video signal on 75 Ω	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.



12÷15Vdc

0.4A

Technical data Power supply Operating current

Screen	4" LCD
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

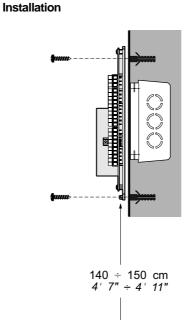


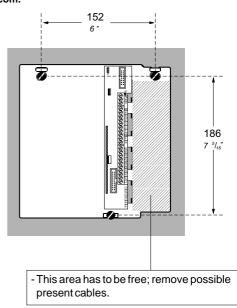
WB3160. Wall bracket for EX3100C, EX3160 and EX3160C video intercoms with terminal boards for connection to the system.

Terminals

- v 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
- 9M 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) 1C
- 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.





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 and 10.

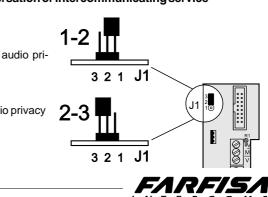


<u>··························</u>

1-2 = Video intercom without audio privacv

2-3 = Video intercom with audio privacy

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EXHITO series

L2 L3

L3-

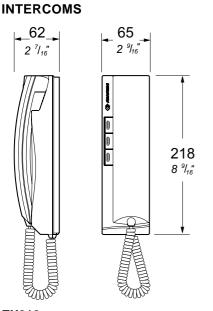
R

П

172.5

6 ¹³/₁₆

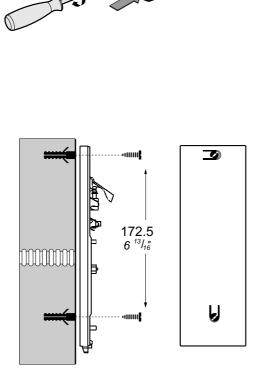
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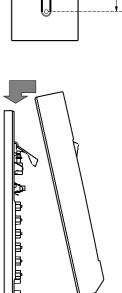
EX310. White electronic intercom with two push-buttons, spiral cord, electronic microphone and possibility to insert an additional EX301 push-button and a SR41, RL36 or EX304 module (description and characteristics of the modules on page 13). Wall-mountable with expansion plugs or wall box.

Terminals

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



Wall version



Accessories

EX301. Single button module for Exhito

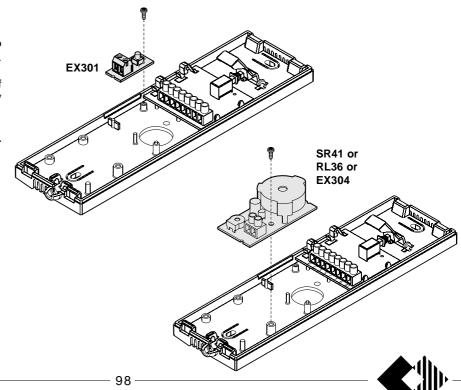
intercoms. Maximum contact current is 0.1A. For higher currents use a relay. Note. For easier reference the 2 terminals of the module are defined as C and P, but they have no polarity and can be inverted.

EX304. Additional loudspeaker module. See page 13.

RL 36. Relay module. See page 99.

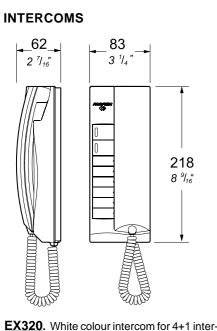
SR41. Electronic buzzer module. See page 13.

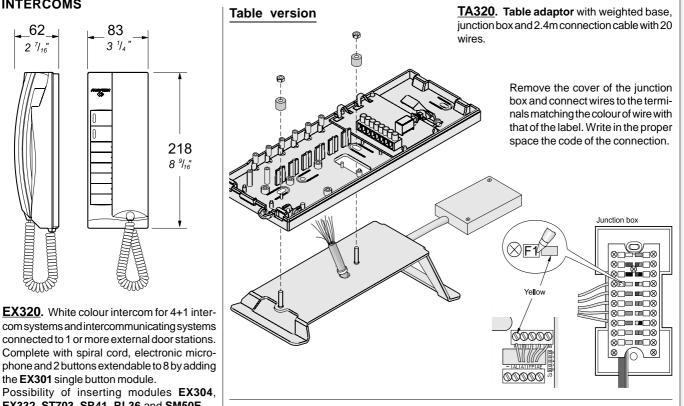




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EXHITO series

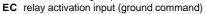




RL36. Relay module. When installed inside intercoms it allows to activate additional bells. Maximum switching current is 1A (24V).

Terminals

- common terminal of relay С
- NA normally open contact of relay
- NC normally closed contact of relay
 - ground
- 13Vac/dc voltage input



NA

č

Wires 9 electronic call in-

Electronic call input 9

3 with jumper W1)

Microphone

Ground

Loudspeaker

Р Service push-button (max 1A)

Door release button (max 1A)

Common contact for 1 push-button

the EX301 single button module.

EX332, ST703, SR41, RL36 and SM50E.

Wall-mountable with expansion plugs or wall

box or on the desk using the table adaptor

Common button - (connected to terminal

Installation

TA320.

1

2

3

5

0

С

Terminals

For wall installation of the intercom see to page 12

Accessories

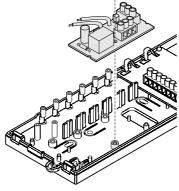
EX301. Single button module. See page 12.

EX304. Additional loudspeaker module. See page 13.

EX332. Module with 3 LED. See page 13.

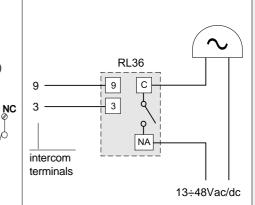
SR41. Electronic buzzer module. See page 13.

put without resistive load 3 ground 3 0 EC @

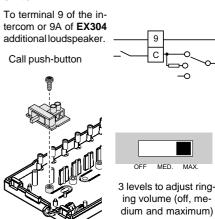


Additional bell connection

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.

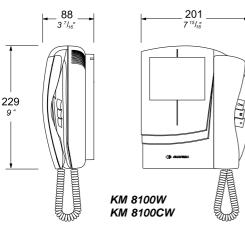


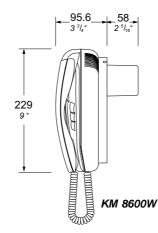
O

COMPACT series

VIDEOINTERCOMS

9





KM 8600W. White colour videointercom

with traditional cathode tube, audio-video pri-

vacy, electronic microphone and terminal board

for the connection to the wall-bracket. With

three buttons for door lock release, control

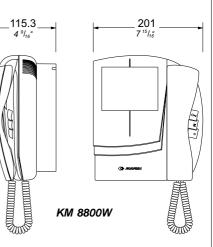
switch ON and auxiliary service. The maximum

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



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 Power supply Technical data Operating current 0.7A 18÷24Vdc Power supply Video tube 4.5-90 Video tube Operating current 0.5A CCIR-625 lines TV standard TV standard Video tube (KM8100W) 4" FLAT CRT Horizontal frequency 15625Hz Screen (KM8100CW) 4" LCD Vertical frequency 50÷60Hz TV standard (KM8100W) CCIR-625 lines Bandwidth >5MHz Bandwidth TV standard (KM8100CW) PAL 15625Hz Video signal on 75Ω 0.8÷1.5Vpp Horizontal frequency 5÷7 sec. Starting up time Vertical frequency 50Hz Bandwidth >5MHz Operating temperature 0°÷+50°C Video signal on 75Ω 0.8÷1.5Vpp Max. permissible humidity 90%RH Starting up time (KM8100W) Starting up time (KM8100CW) 2-4 seconds 1 second Operating temperature 0° \div +50°C Max. permissible humidity 90%RH

the back-box art.8083.

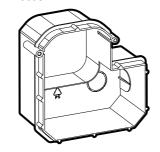
WB 8600. Plastic bracket to fix the video intercoms KM8100W, KM8600W and KM8800W to the wall. Complete with terminal board for connection to the system and connectors for connection to the video intercom.

Terminals

- Video signal input 0.8÷1.5Vpp
- м Video ground
- General ground
- н Positive power supply input 18÷24Vdc
- Microphone output
- Speaker and automatic switching OFF input 2 3 Audio around
- Control switching ON button •
- Door lock release button on intercom 5
- 8 Positive power supply output for video dis-
- tributors 12Vdc Call input from external door station (250mA) 9M
- 9R Intercommunicating or floor-call input
- Service button (symbol •)
- PC Common of service button



8083. Back-box for video intercom art.KM8600W



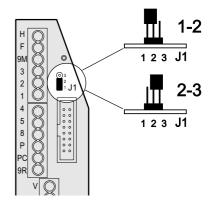
KM 8800W. White colour reflex videointercom, with audio-video privacy, electronic microphone and terminal board for the connection to the wall-bracket. With three buttons for door lock release, control switch ON and auxiliary service. The maximum acceptable current to the button terminals is 0.3A. For 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

Operating current Horizontal frequency Vertical frequency Video signal on 75Ω Starting up time Operating temperature Max. permissible humidity

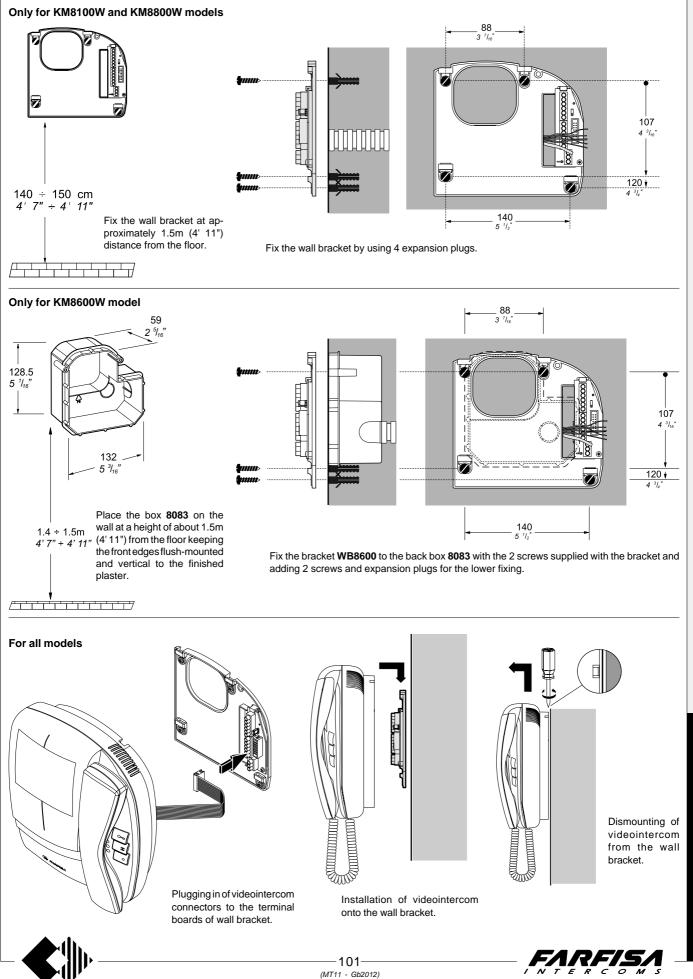
18÷24Vdc 0.7A 4.5-90° CCIR-625 lines 15625Hz 50÷60Hz >5MHz 0.8÷1.5Vpp 5÷7 sec. 0°÷+50°C 90%RH

Choosing the private conversation or intercommunicating service



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

Installation



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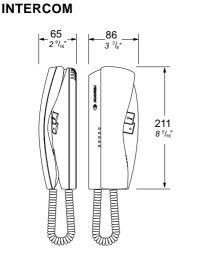
P A



COMPACT series

PROJECT series

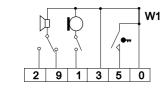
4+1 INTERCOMS 26 7+1 VIDEOINTERCOMS

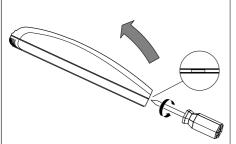


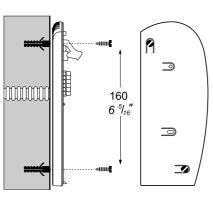
KM810W. White electronic intercom with 1 button, spiral cord, electronic microphone, and possibility of installation of SR41, SM50E modules and a ST701 additional push-button. Wall-mountable with expansion plugs or wall box.

Terminals

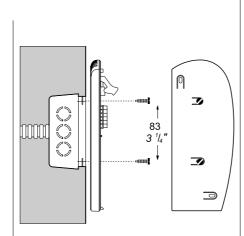
- microphone 1
- 2 speaker
- 3 ground
- 5 door release button (max 1A) 7
- common door release button (connected to terminal 3 with jumper W1)
- 9 electronic call input

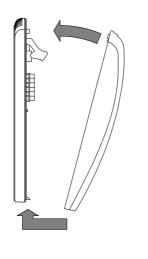




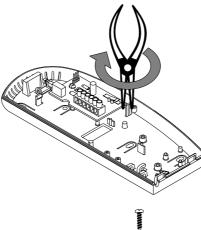


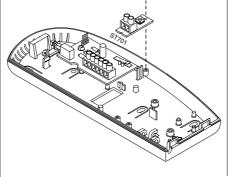




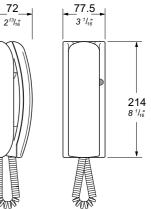


Mounting of the additional button ST701.





INTERCOM 72 2¹³/₁₆



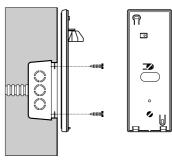
PT510EW. White electronic intercom with 1 button, spiral cord, electronic microphone, and possibility of installation of SR41 and SM50E modules. Wall-mountable with expansion plugs or wall box.

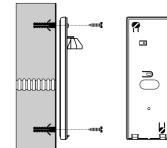
Terminals

- 1 microphone 2 speaker
- 3 ground 5
- door release button 2 9 1 3 5 7

W1

- (max 1A) 7 common door release button (connected to terminal 3 with jumper W1)
- 9 electronic call input







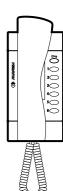


INTERNAL STATIONS COMPOSITION

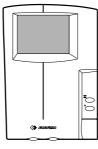
STUDIO series

COMPOSITION BOARD OF STUDIO SERIES INTERNAL STATIONS

Wall version

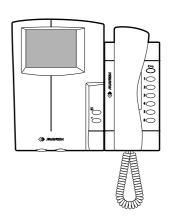


Intercom



Monitor

ST7100WB/W monitorST7100CWcolour monitorWB7100wall bracket for monitor

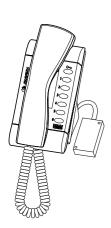


Videointercom

ST7100W	B/W monitor
ST7100CW	colour monitor
WB7100	wall bracket for monitor
ST720W	intercom
WB700	wall bracket for intercom

Table version

ST720W intercom



Intercom

ST720W	intercom
WB700	wall bracket for intercom
TA720	table adaptor for intercom

Monitor

/W monitor blour monitor all bracket for monitor
ble 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

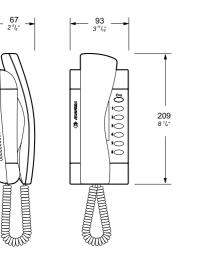




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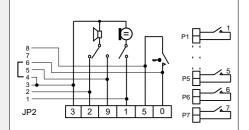
INTERCOM Studio series



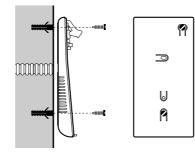
ST 720W. White colour intercom for 4+1 intercom systems and intercommunicating systems connected to 1 or more external door stations. Complete with spiral cord, electronic microphone and 1 button extendable to 7 by adding the ST 701 single button module. Wall-mountable with expansion plugs or wall box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

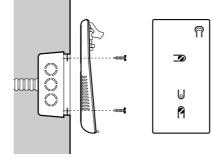
Terminals

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



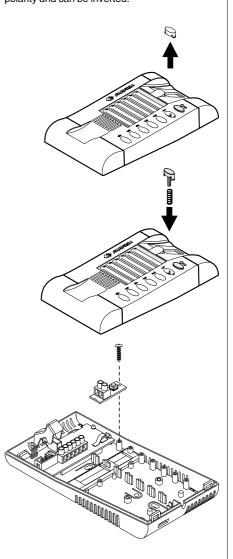
P 129 514 60 2 ³/8 83.5 28.5 1 1/8



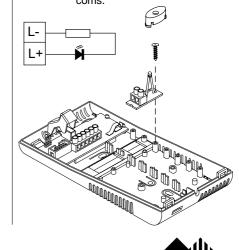


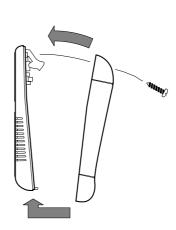
Accessories

ST 701. 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.

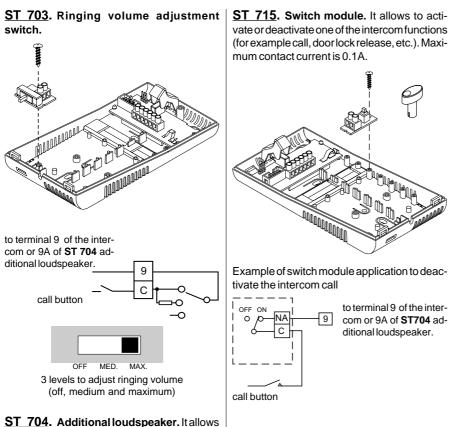


ST 702W. LED module for ST720W intercoms.



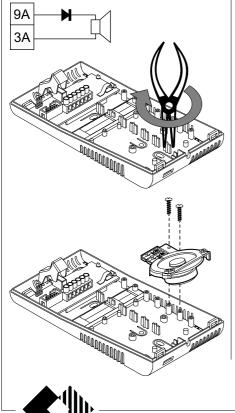


S T U D I

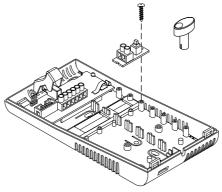


to receive calls with off-hook handset, or in systems with 2 calls, with 1 single call and 1 call in common to other intercoms.

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



vate or deactivate one of the intercom functions (for example call, door lock release, etc.). Maximum contact current is 0.1A.



Example of switch module application to deactivate the intercom call



to terminal 9 of the inter-9 com or 9A of ST704 additional loudspeaker.



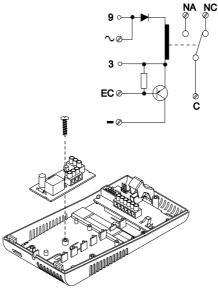
RL36. Relay module. When installed inside intercoms it allows to activate additional bells (see page 183). Maximum switching current is 1A (24V).

Terminals

- С 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)

Wires

electronic call input without resistive load 9 3 ground



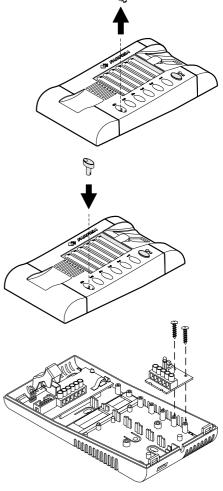
ST 716. Switch module with LED. It allows to activate/deactivate/divert one of the intercom functions (for example call, door lock release, etc.) with visual indication of the function. Maximum contact current of switch module is 0.1A.

4+1 INTERCOMS

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1 VIDEOINTERCOMS

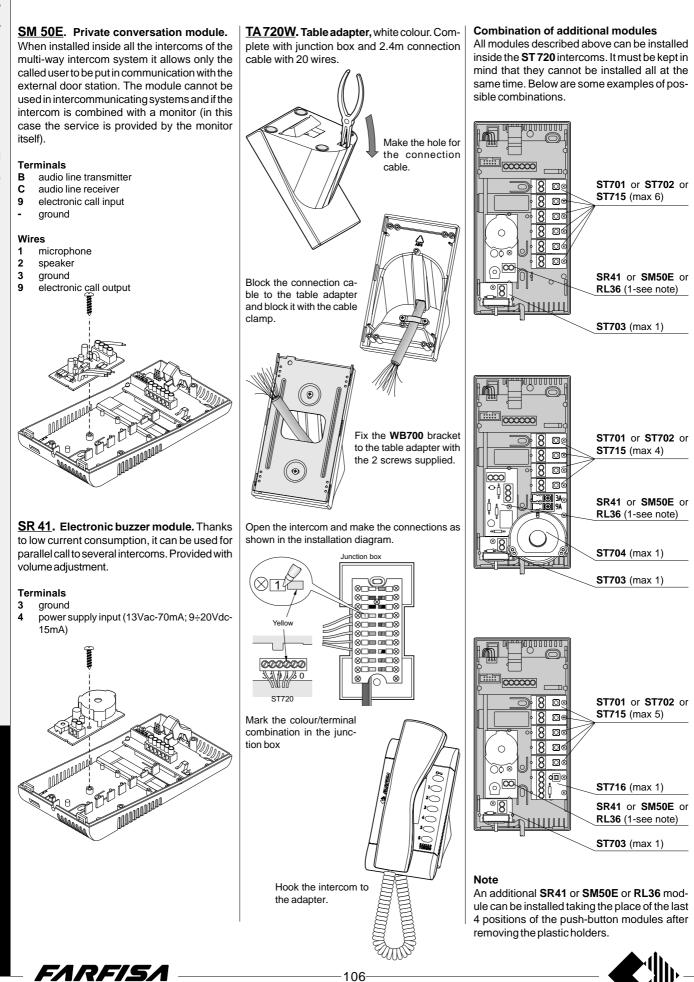
The article takes the space of 2 modules. It is recommended to install it in the last position in order to use the space in the bottom part of the intercom. 0



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

6÷21Vac/dc 1.4 L-NA call button NC to terminal 9 of the in-С tercom or 9A of ST704 additional loudspeaker.





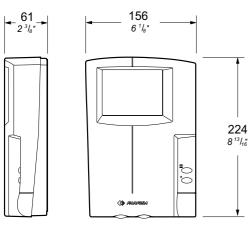
(MT11 - Gb2012)

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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

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

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

18-24Vdc

0.4A

PAL

50Hz

>5MHz

1 sec.

0.8÷1.5Vpp

0°÷+50°C

90%RH

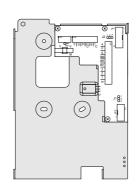
4" LCD

15625Hz

Technical data Р

Power supply	
Operating current	
Monitor	
TV standard	
Horizontal frequency	
Vertical frequency	
Bandwidth	
Video signal on 75 Ω	
Starting up time	
Operating temperature	
Max. permissible humidity	

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

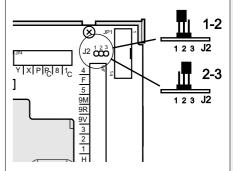
- Video signal input 0.8÷1.5Vpp v
- Video ground М
- F General ground
- Positive power supply input 18÷24Vdc н Х
- Negative balanced video signal input
- Positive balanced video signal input Microphone output
- 1 Speaker and automatic switching OFF 2 input
- Audio ground 3
- Control switching ON button 4
- 5 Door lock release - button - on intercom
- Positive power supply output for video 8 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) Common of buttons for control switch-1C ing ON
- Service button (symbol •) Р
- 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.

4+1 INTERCOMS

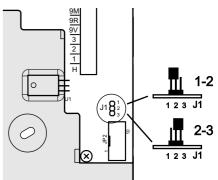
7+1 VIDEOINTERCOMS

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

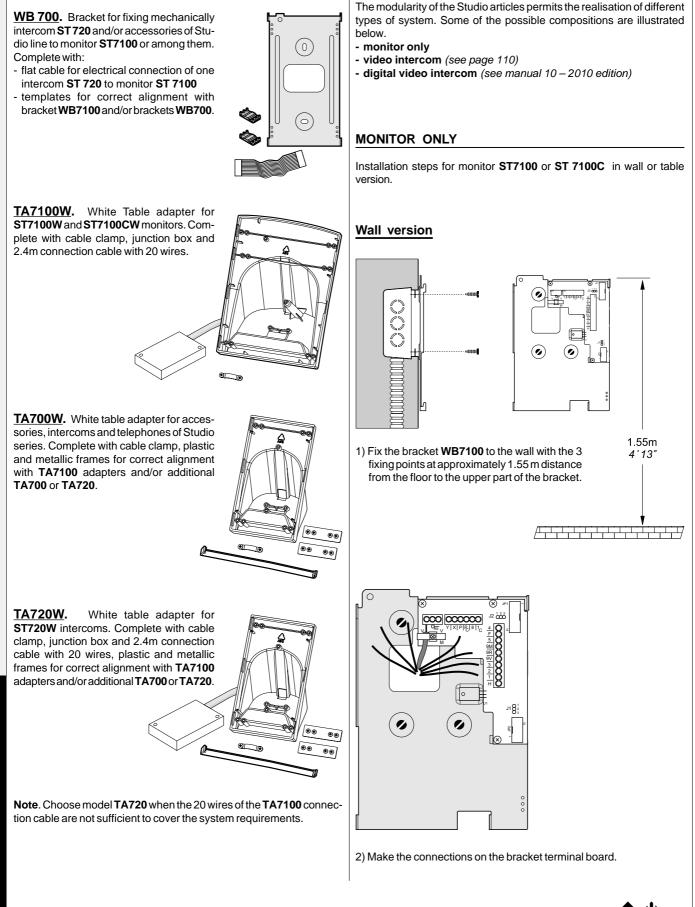




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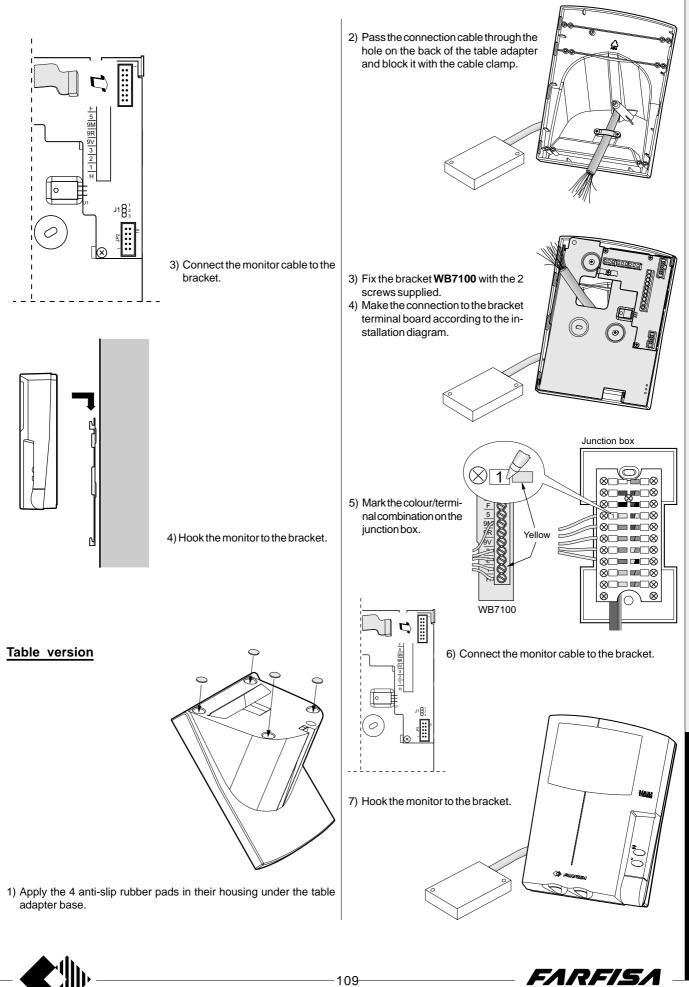
D



INSTALLATION



____108____ (MT11 - Gb2012)



(MT11 - Gb2012)

4+1 INTERCOMS * 7+1 VIDEOINTERCOMS

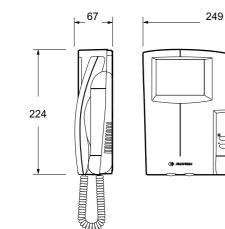
S T U D I O

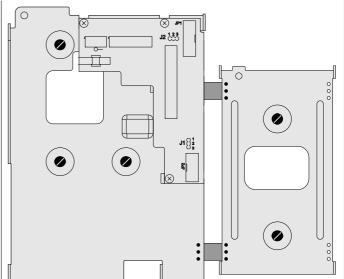
OMS

VIDEO INTERCOM

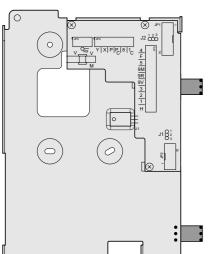
Installation steps for monitor ST7100 (or ST7100C), intercom ST720, brackets WB7100 and WB700 and table adapters (if required) for the realisation of an internal station with video intercom functions.

Wall version

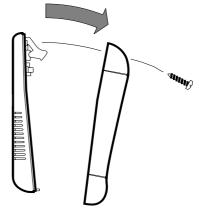




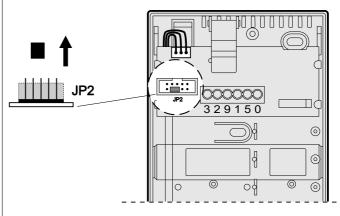
2) Fix the 2 brackets to the wall following the indications of drawing 1 on page 108.



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

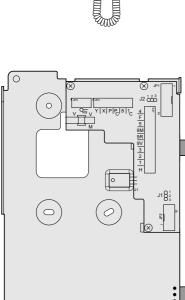


3) Remove the intercom cover.



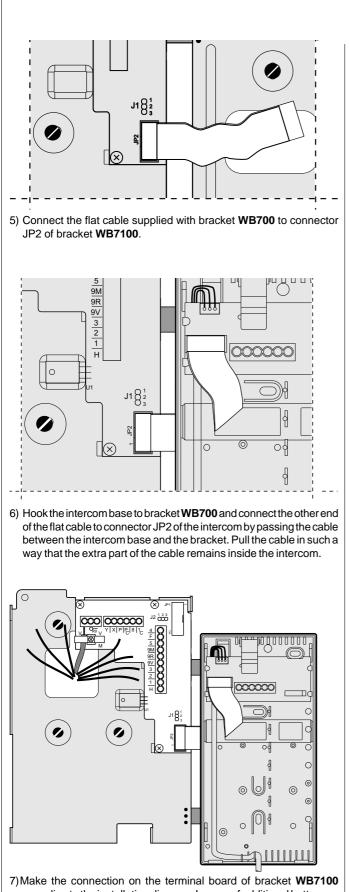
4) Remove the mobile jumper of connector JP2 of the intercom.



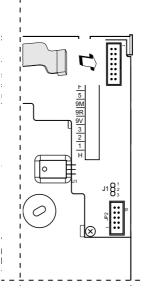




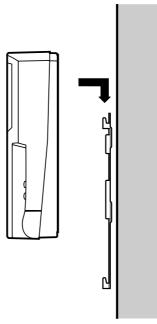




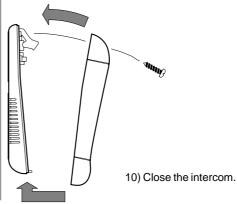
Make the connection on the terminal board of bracket **WB7100** according to the installation diagram. In case of additional buttons or modules, additional connections must be made inside the intercom.



8) Connect the monitor cable to the bracket.



9) Hook the monitor to the bracket.



(MT11 - Gb2012)



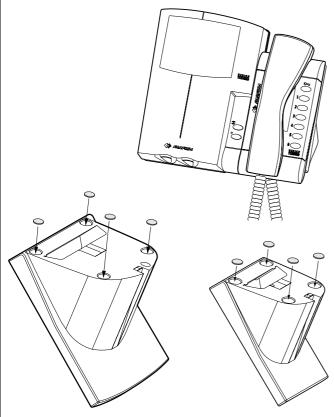
S T U D

Table version

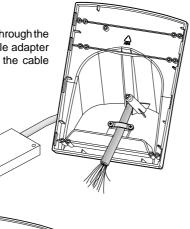
4+1 INTERCOMS

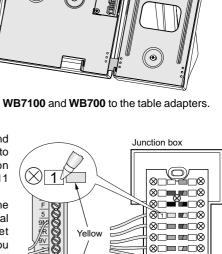
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7+1 VIDEOINTERCOMS

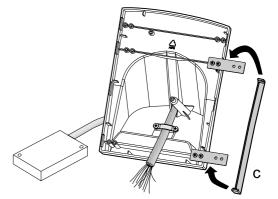


- 1) Apply the 8 anti-slip rubber pads in their housings under the base of table adapters TA7100 and TA700.
- 2) Pass the connection cable through the hole in the back of the table adapter TA7100 and block it with the cable clamp.

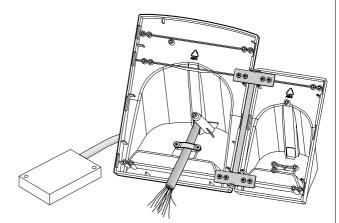




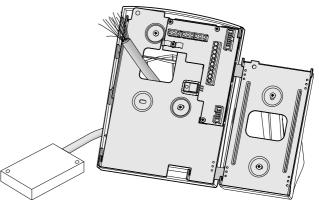
3) The arrows indicate the breaking points for the application of the metallic frames.



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.

WB7100

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.



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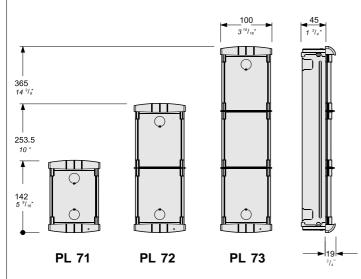
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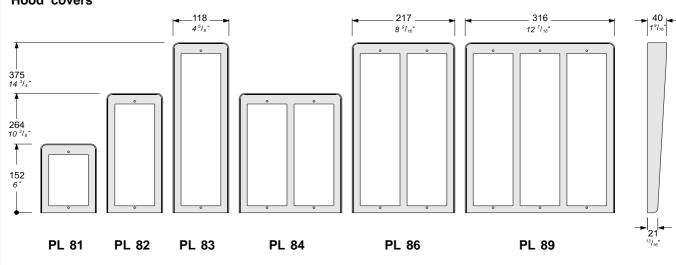
Module frames complete with back box

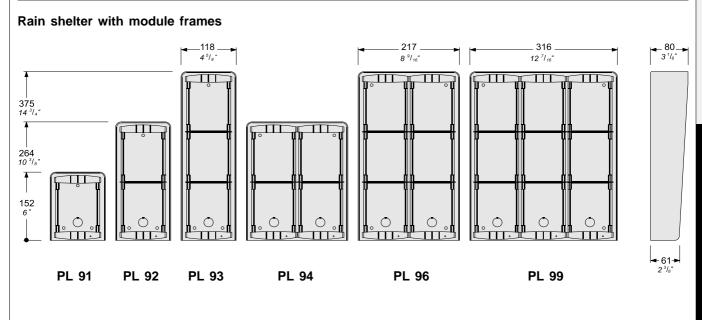


Push-button panels in extruded aluminium and steel push-buttons made up of modular elements. Suitable for the most diverse installation requirements. The careful selection of modules allows for multiple application opportunities; from one-way installations to blocks of flats; from intercom to video intercom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

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











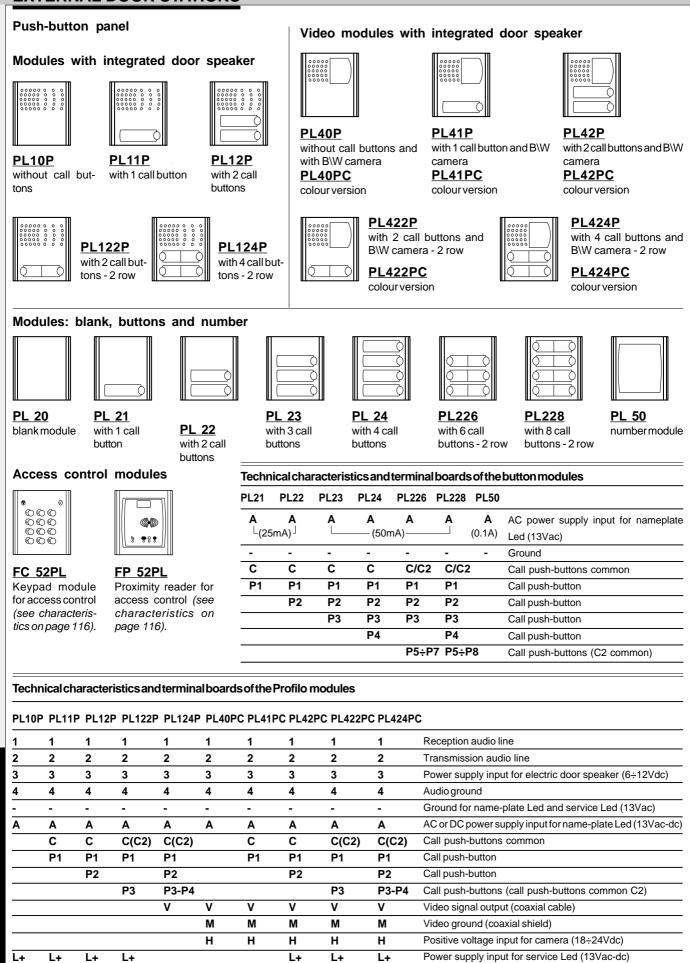
4+1 INTERCOMS

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7+1 VIDEOINTERCOMS



Ρ







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.

<u>PL41P.</u>

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 backlighting.

PL422PC. Colour version of the PL422P model.

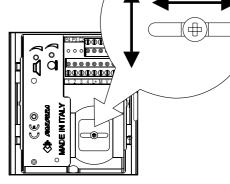
PL424P. Same as **PL40PED**, with 4 call buttons on 2 rows and name plate panel with transparent screen and green LED backlighting.

PL424PC. Colour version of the PL424P model.

Technical data	PL40P÷ PL424P	PL40PC÷ PL424PC
Camera power supply Operating current Audio power supply Video signal output sur 75Ω Video signal standard Minimum illumination Led's White balanced Sensor Number of pixels Horizontal frequency Vertical frequency Lens Focus Autoiris Horizontal adjustment Vertical adjustment Operating temperature Maximum permissible humidity	21±3Vdc 0.2A $6\div12Vdc-0.06A$ 1Vpp CCIR 2 Lux 6 infrared - CCD 1/4" B/W 291.000 15.625Hz 50Hz 3.6mm; F5 0.1m $\div \infty$ electronic $\pm 15^{\circ}$ $\pm 15^{\circ}$ $\div 10^{\circ}\div+40^{\circ}C$ (80%RH	21±3Vdc 0.4A $6\div12Vdc-0.06A$ 1Vpp PAL 2,5Lux 6 white auto CCD 1/3" colour 291,000 15,625Hz 50Hz 4mm; F4 0.6m $\div \infty$ electronic ± 15° ± 15° -10° \div +40°C 80%RH
maximumpermissiblemumum		0070111

Adjustments

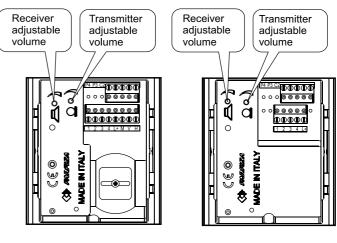
You can manually change the camera framing by unloosening and adjusting the horizontal and vertical screws in the desired direction.



± 15°

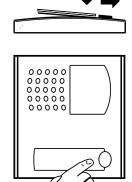
Audio adjustments

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



Terminals

- 1 Reception audio line
- 2 Transmission audio line3 Power supply input for electric door speaker
- (6÷12Vdc)
- 4 Audio ground
- Alternated power supply input or ground for name-plate Led
- A AC or DC power supply input for nameplate Led (12Vac-dc)
- C Call push-buttons common P1 Call push-button
- V Video signal output (coaxial cable)
- M Video ground (coaxial shield)
- H 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 la-

bel.

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4+1 INTERCOMS * 7+1 VIDEOINTERCOMS



FP52PL

4+1 INTERCOMS

7+1 VIDEOINTERCOMS

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

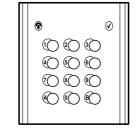
Power supply	12Vac/dc ±10% 0.1A
Stand-by current Maximum current consumption	
Contact ratings	24Vac - 2A
Max. number of cards	490
Max. number of Master cards	s 10
Number of relays	2
Relaytime	1 to 63 sec.
Minimum recognition distance	e 3 cm
Maximum recognition time	1 sec.
Operating temperature	0° ÷ +40°C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

Terminals

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



- Card recognition LED. It turns ON dur-3 ing 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 \bigotimes 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.

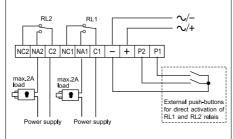
Technical data

Power supply:	12Vac/dc ±10%
Stand-by current:	0.06A
Maximum current consumpt	ion: 0.15A
Contact ratings:	12Vac-2A
Numbers of codes for relays	s 1: 12 or direct
	activation
Numbers of codes for relays	s 2: 12 or direct
	activation
Activation time for each relay	: from 1 to 99 sec.
(0	or bistable relay 1)
Operating temperature:	0° ÷ +40°C

Maximum permissible humidity: 85% RH

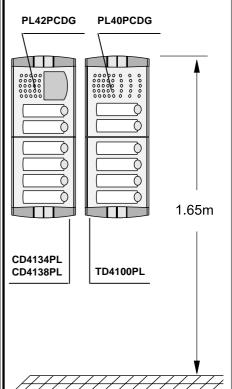
Terminals

- NC2 normally closed contact of relay 2
- 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
- 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



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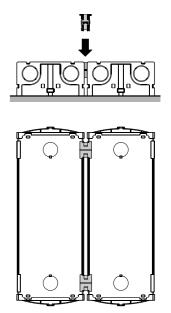
INSTALLATION



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.

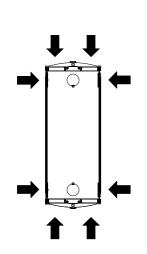
Assembling modules side by side



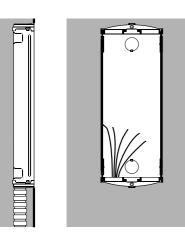
Insertion of spacers between back boxes. Spacers and cable bushing (not supplied with the products) must be inserted before brick work.



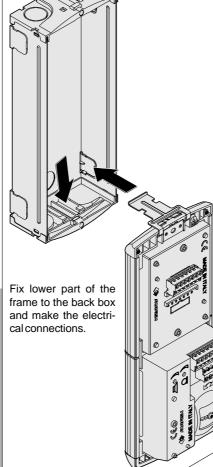




Openings for cables.



Flush mounting and cables placing.

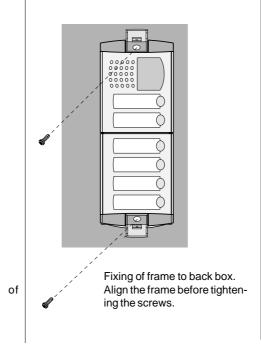


The lower part of the rame to the rain shelter and make the electrical connections.

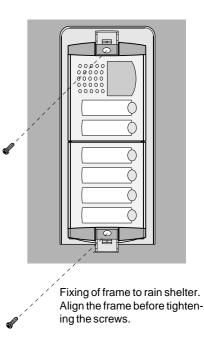
Rain shelter

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

Mounting module.



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



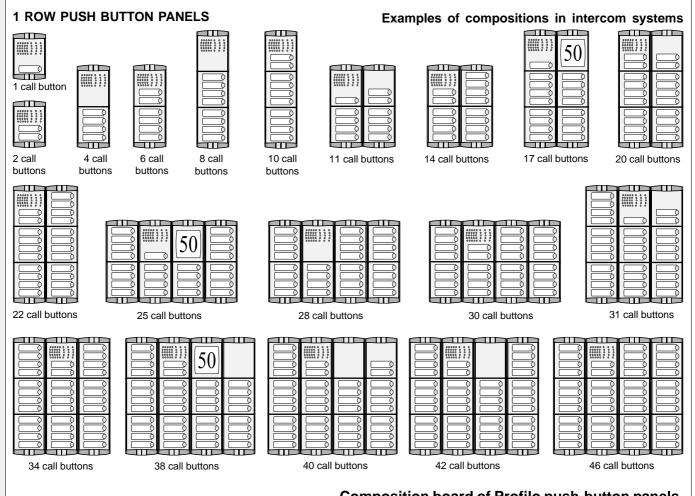


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O F L O

1 row push button



Composition board of Profilo push-button panels.

N° calls	Dimensions	Door speaker module (amplifier)	Buttor	n, blank or in modules (Back box and module frame (**)	Rain shelters
1	100x142x19	1 PL11P	-	-	-	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 " x 10" x ³ / ₄ ")	1 PL12P	1 PL24	-	-	1 PL72	1 PL92
8	100x365x19	1 PL10P	2 PL24	-	-	1 PL73	1 PL93
10	$(3^{15}/_{16}$ " x $14^{3}/_{8}$ " x $3^{3}/_{4}$ ")	1 PL12P	2 PL24	-	-	1 PL73	1 PL93
11	200x253,5x19	1 PL11P	2 PL24	1 PL22	-	2 PL72	1 PL94
14	$(7^{7}/_{8}$ " x 10" x $^{3}/_{4}$ ")	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		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	$(11 \frac{13}{16} \times 14^{3} \times 3^{3})$	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 " x 14 ³ / ₈ " x ³ / ₄ ")	1 PL12P	10 PL24	-	1 PL20	4 PL73	-
46		1 PL12P	11 PL24	-	-	4 PL73	-
) If rog	nunated the band source and	be added (see on page 113)			() or PL50)	It replaces

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

(*) or PL50



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4+1 INTERCOMS

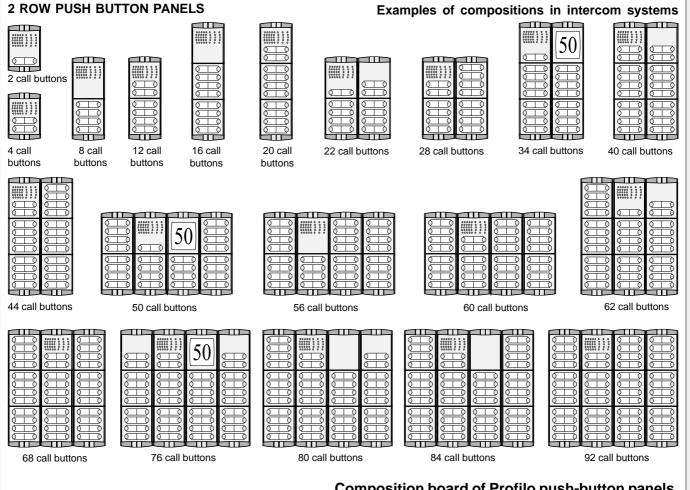
3E

7+1

VIDEOINTERCOMS



2 row push button



Composition board of Profilo push-button panels.

N° calls	Dimensions	Door speaker module (amplifier)	Buttor	n, blank or inf modules ('		Back box and module frame (**)	Rain shelters
2	100x142x19	1 PL122P	-	-	-	1 PL71	1 PL91
4	$(3^{15}/_{16}" \times 5^{9}/_{16}" \times 3^{7}/_{4}")$	1 PL124P	-	-	-	1 PL71	1 PL91
8	100x253,5x19	1 PL10P	1 PL228	-	-	1 PL72	1 PL92
12	(3 ¹⁵ / ₁₆ " x 10" x ³ / ₄ ")	1 PL124P	1 PL228	-	-	1 PL72	1 PL92
16	100x365x19	1 PL10P	2 PL228	-	-	1 PL73	1 PL93
20	$(3 \frac{15}{16} \times 14^{3} / \frac{3}{8} \times 3^{3} / \frac{3}{4})$	1 PL124P	2 PL228	-	-	1 PL73	1 PL93
22	200x253,5x19	1 PL122P	2 PL228	1 PL224	-	2 PL72	1 PL94
28	(7 ⁷ / ₈ " x 10" x 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		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	$(11^{13}/_{16}$ " x $14^{3}/_{8}$ " x $3^{3}/_{4}$ ")	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 " x 14 ³ / ₈ " x ³ / ₄ ")	1 PL124P	10 PL228	-	1 PL20	4 PL73	-
92		1 PL124P	11 PL228	-	-	4 PL73	-
) If req	uested the hood covers can	be added <i>(see on page 113)</i>			() or PL50)	It replaces

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(MT11 - Gb2012)





PL71, PL72 or PL73

4+1 INTERCOMS эŀ-7+1 VIDEOINTERCOMS

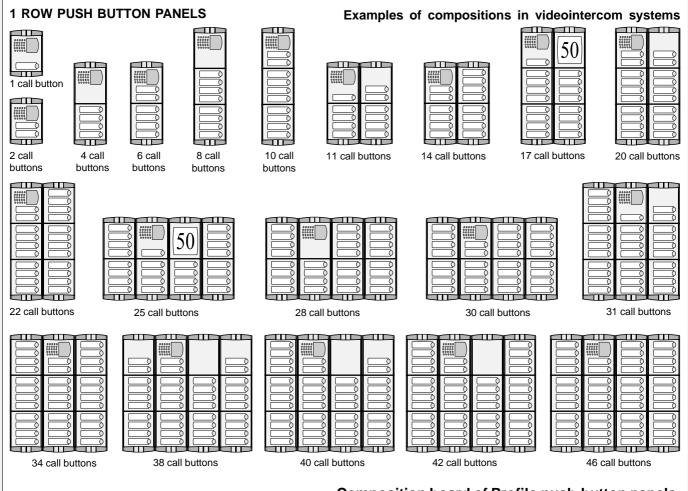
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1 row push button



Composition board of Profilo push-button panels.

N⁰ calls	Dimensions	Modules camera with door speaker	Buttor	on, blank or information modules (*)		Back box and module frame (**)	Rain shelters
1	100x142x19	1 PL41P	-	-	-	1 PL71	1 PL91
2	$(3^{15}/_{16}" \times 5^{9}/_{16}" \times 3^{7}/_{4}")$	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	$(3^{15}/_{16}" \times 14^{3}/_{8}" \times 3^{3}/_{4}")$	1 PL42P	2 PL24	-	-	1 PL73	1 PL93
11	200x253,5x19	1 PL41P	2 PL24	1 PL22	-	2 PL72	1 PL94
14	$(7^{7}/_{8}$ " x 10" x $^{3}/_{4}$ ")	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 " x 14 ³ / ₈ " x ³ / ₄ ")	1 PL42P	10 PL24	-	1 PL20	4 PL73	-
46		1 PL42P	11 PL24	-	-	4 PL73	-
) If roo	uested the bood covers can l	a added (acc on page 112)			(*) or PL50)	It replaces

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

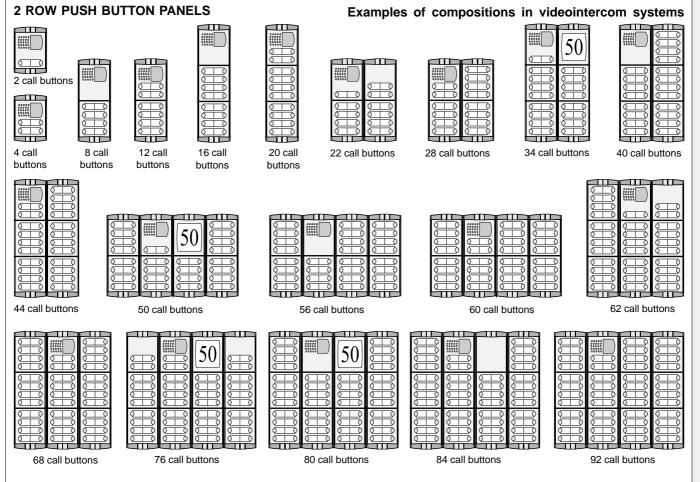
(*) or PL50







2 row push button



Composition board of Profilo push-button panels.

	Modules camera with door speaker	Buttor	Button, blank or informatio modules (*)		Back box and module frame (**)	Rain shelters
	· ·		-	,	,	1 PL91
						1 PL91
						1 PL92
		-		_		1 PL92
		-				1 PL93
100x365x19 (3 ¹⁵ /" x 14 ³ /." x ³ /.")		-				1 PL93
		-		-		1 PL94
200x253,5x19 (7 ⁻⁷ / ₈ " x 10" x ³ / ₄ ")			-	-		1 PL94
			-	1 PI 20		1 PL96
200x365x19			-	-		1 PL96
$(7^{7}/_{8}" \times 14^{3}/_{8}" \times 3^{3}/_{4}")$	1 PL424P	5 PL228	-	-	2 PL73	1 PL96
	1 PL422P	6 PL228		1 PL20	4 PL72	-
400x253,5x19	1 PL40P	7 PL228	-	-	4 PL72	-
$(137_4 \times 10 \times 7_4)$	1 PL424P	7 PL228	-	-	4 PL72	-
2002265210	1 PL422P	7 PL228	1 PL224		3 PL73	1 PL99
$(11^{13}/_{16} \times 14^{3}/_{8} \times 3/_{4})$	1 PL424P	8 PL228	-	-	3 PL73	1 PL99
	1 PL424P	8 PL228	2 PL224	1 PL20	4 PL73	-
400×365×19	1 PL40P	10 PL228	-	1 PL20	4 PL73	-
$(15^{3}/_{4}" \times 14^{3}/_{8}" \times 3^{3}/_{4}")$	1 PL424P	10 PL228	-	1 PL20	4 PL73	-
	1 PL424P	11 PL228	-	-	4 PL73	-
	$(3 \ {}^{15}\!{}^{+}_{/6} \ {}^{*}_{x} \ {}^{14}\!{}^{3}_{/6} \ {}^{*}_{x} \ {}^{3}\!{}^{\prime}_{4})$ $200x253,5x19$ $(7 \ {}^{7}\!{}^{\prime}_{/6} \ {}^{*}_{x} \ {}^{10} \ {}^{*}_{x} \ {}^{3}\!{}^{\prime}_{4})$ $200x365x19$ $(7 \ {}^{7}\!{}^{\prime}_{/6} \ {}^{*}_{x} \ {}^{14}\!{}^{3}\!{}^{\prime}_{/6} \ {}^{*}_{x} \ {}^{3}\!{}^{\prime}_{4})$ $400x253,5x19$ $(15 \ {}^{3}\!{}^{\prime}_{/6} \ {}^{*}_{x} \ {}^{10} \ {}^{*}_{/4} \ {}^{3}\!{}^{\prime}_{/6})$ $300x365x19$ $(11 \ {}^{13}\!{}^{\prime}_{/6} \ {}^{*}_{x} \ {}^{3}\!{}^{\prime}_{/4} \ {}^{\prime})$ $400x365x19$	$ \begin{array}{c c} (3 \ ^{15} \\ ^{16} \\ x \ 5^{9} \\ ^{10} \\ (3 \ ^{15} \\ ^{16} \\ x \ 10^{*} \\ x \ 3^{*} \\ x \ 3^{*} \\ x \ 10^{*} \\ x \ 3^{*} \\ x \ 3^{*} \\ x \ 10^{*} \\ x \ 3^{*} \\ x \ 3^{*} \\ x \ 10^{*} \\ x \ 3^{*} \\ x \ 3^{*} \\ x \ 3^{*} \\ x \ 10^{*} \\ x \ 3^{*} \\ x$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $





PL71, PL72 or PL73

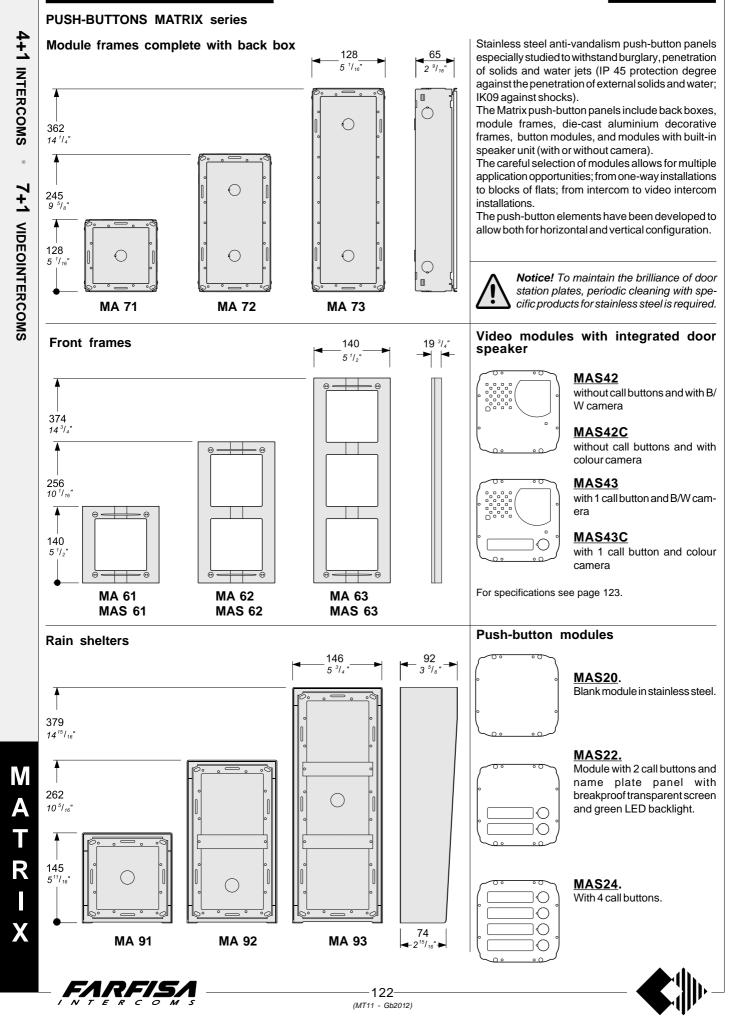
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MATRIX series



PUSH-BUTTONS MATRIX series

Video modules with integrated door Modules with integrated door speaker speaker





<u>MAS42</u>.

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.

<u>MAS43</u>.

Same as **MA 42**, with call button and name plate panel with breakproof transparent screen and green LED back-lighting.

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.

<u>MAS11P.</u> 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 75 Ω
Video signal standard	CCIR	PAL
Minimum illumination	2 Lux	2.5 Lux
White balance	-	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°
Operatingtemperature	-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 MAS42C	MAS4	-
1	1	1				1	1	Reception audio line
2	2	2				2	2	Transmission audio line
3	3	3				3	3	Power supply input for electric door speaker (6÷12Vdc)
4	4	4				4	4	Audioground
-	-	-	-	-	-	-	-	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
						V	۷	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)



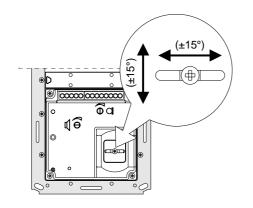


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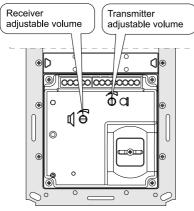
Adjustments

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

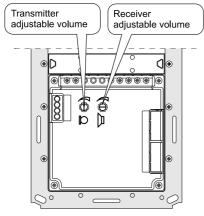


Audio adjustments

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

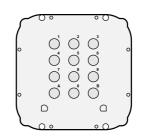


MAS42 MAS42C MAS43 MAS43C



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.

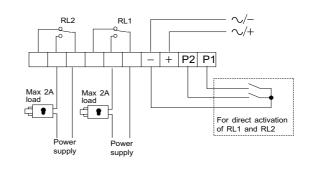
Technical data

Power supply: $12Vac/dc \pm 1$ Stand-by current:0.02AMax. current consumption:0.1AContact ratings:12Vac - 2ANumbers of codes for relay 1:12 + direct aNumbers of codes for relay 2:12 + direct aActivation time for each relay:from 1 to 99Operating temperature: $0^\circ \div +40^\circ C$ Maximum permissible humidity:85% RHDegree of protectionIP 45

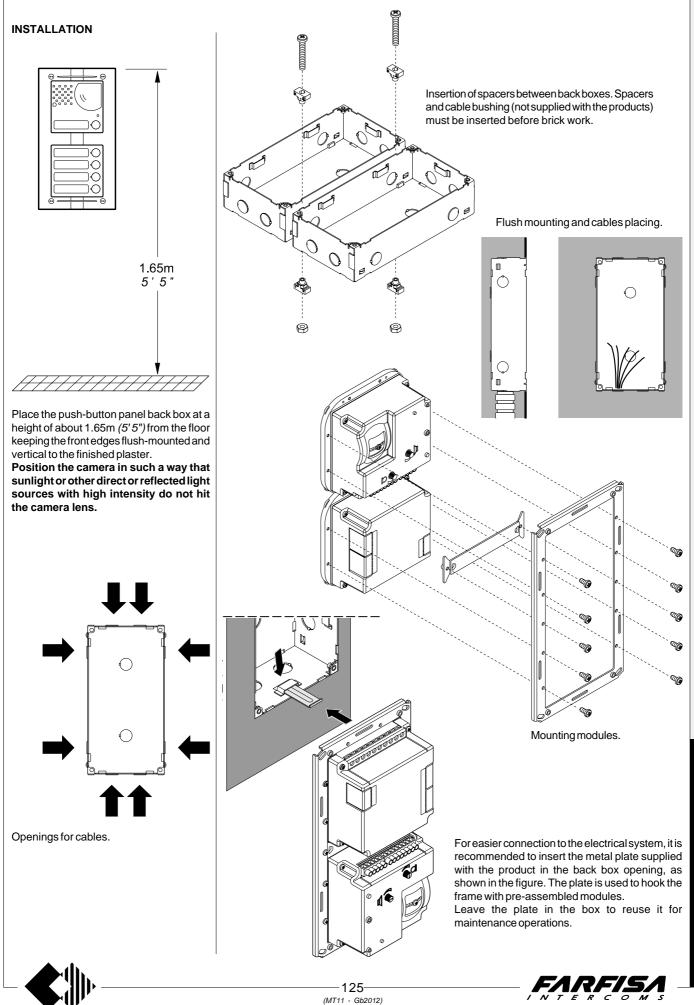
12Vac/dc \pm 10% 0.02A 0.1A 12Vac - 2A 12 + direct activation 12 + direct activation from 1 to 99 seconds (or bistable) 0° \div +40°C 85% RH

Terminals

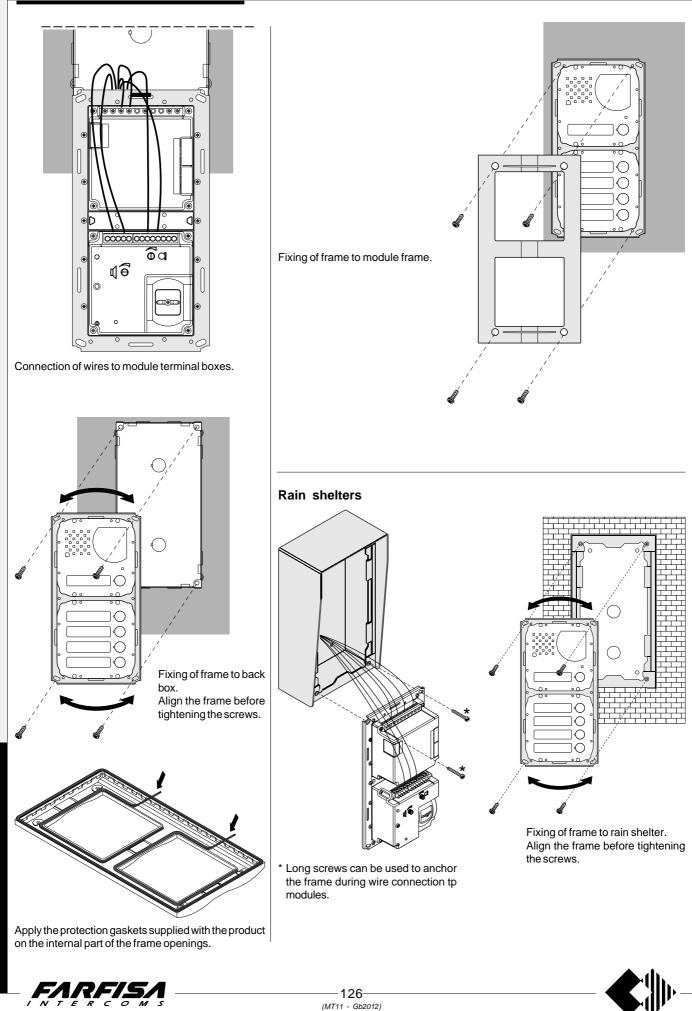
- **2** normally closed contact of relay 2 common contact of relay 2 common contact of relay 2
- normally closed contact of relay 1 $1 \int_{a}^{b}$ normally open contact of relay 1
- common contact of relay 1
- ground or alternating voltage input
- + positive or alternating voltage input
- P2 activation 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





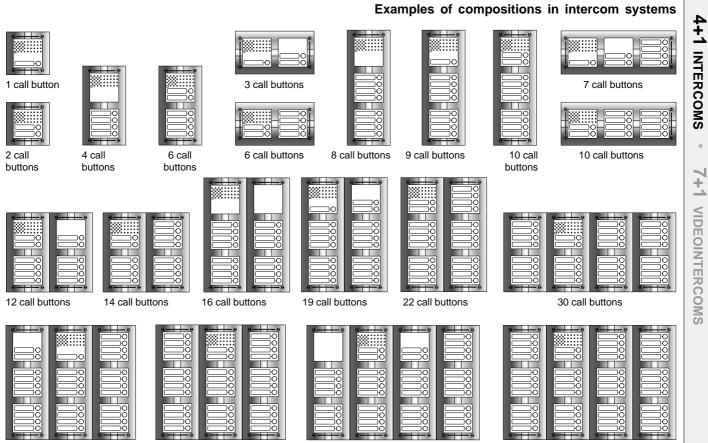


M A T R I X



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R



31 call buttons

34 call buttons

40 call buttons

46 call buttons

4+1 INTERCOMS

×

M

R

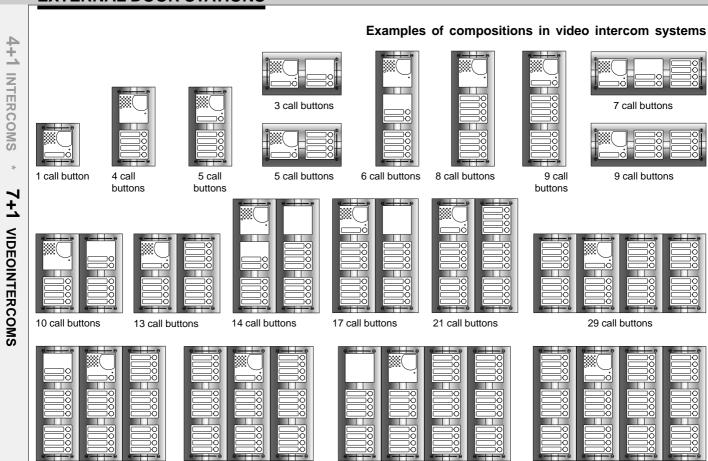
Х

Composition board of Matrix push-button panels.

N° collo	Dimensions	Module with door speaker	Button		Front frame	Back box and module frame	Rain shelter (*)
calls		· ·	blank mo	odules			.,
1	140x140x19	1 MAS11P	-	-	1 MAS61	1 MA71	1 MA91
2	$(5^{1}/_{2}" \times 5^{1}/_{2}" \times 3^{3}/_{4}")$	1 MAS12P	-	-	1 MAS61	1 MA71	1 MA91
3		1 MAS11P	1 MAS22	-	1 MAS62	1 MA72	1 MA92
4	140x256x19 (5 ¹ / ₂ " x 10 ¹ / ₁₆ " x ³ / ₄ ")	1 MAS10P	1 MAS24	-	1 MAS62	1 MA72	1 MA92
6	, <u>2</u> 10 4,	1 MAS12P	1 MAS24	-	1 MAS62	1 MA72	1 MA92
8		1 MAS10P	2 MAS24	-	1 MAS63	1 MA73	1 MA93
9	140x374x19 (5 ½ x 14¾ x ¾	1 MAS11P	2 MAS24	-	1 MAS63	1 MA73	1 MA93
10		1 MAS12P	2 MAS24	-	1 MAS63	1 MA73	1 MA93
12	280x256x19 (11" x 10 ¹ / ₁₆ " x ³ / ₄ ")	1 MAS12P	2 MAS24	1 MAS22	2 MAS62	2 MA72	-
14		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	4 4/	1 MAS12P	5 MAS24	-	2 MAS63	2 MA73	-
27	560x256x19	1 MAS11P	6 MAS24	1 MAS22	4 MAS62	4 MA72	-
30	$(22 \ {}^{1}/_{16}" x \ 10 \ {}^{1}/_{16}" x \ {}^{3}/_{4}")$	1 MAS12P	7 MAS24	-	4 MAS62	4 MA72	-
31	420x374x19	1 MAS11P	7 MAS24	1 MAS22	3 MAS63	3 MA73	-
34	$(16^{9/16} \times 14^{3/4} \times 3^{4/1})$	1 MAS12P	8 MAS24	-	3 MAS63	3 MA73	-
38		1 MAS10P	8 MAS24	3 MAS22	4 MAS63	4 MA73	-
40	560x374x19 (22 ¹ / ₁₆ " x 14 ³ / ₄ " x ³ / ₄ ")	1 MAS10P	9 MAS24	2 MAS22	4 MAS63	4 MA73	-
43		1 MAS11P	10 MAS24	1 MAS22	4 MAS63	4 MA73	-
46		1 MAS12P	11 MAS24	-	4 MAS63	4 MA73	-







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	$(5^{1}/_{2}" x 5^{1}/_{2}" x^{3}/_{4}") =$	1 MAS42	1 MAS22	1 MAS62	1 MA72	1 MA92
4	140x256x19 (5 ½ x 10 ½ x 3/4")	1 MAS42	1 MAS24	1 MAS62	1 MA72	1 MA92
5		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 " x 14 ³ / ₄ " x 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		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	$(22 \frac{1}{16} \times 10 \frac{1}{16} \times \frac{3}{4})$	1 MAS43	7 MAS24	4 MAS62	4 MA72	-
31	420x374x19	1 MAS43	7 MAS24 1 MAS22 -	3 MAS63	3 MA73	-
33	(16 ⁹ / ₁₆ " x 14 ³ / ₄ "x ³ / 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	$(22 \frac{1}{16} \times 14^{3} \times 14^{3})$	1 MAS43	10 MAS24 1 MAS22 -	4 MAS63	4 MA73	-
45		1 MAS43	11 MAS24	4 MAS63	4 MA73	-

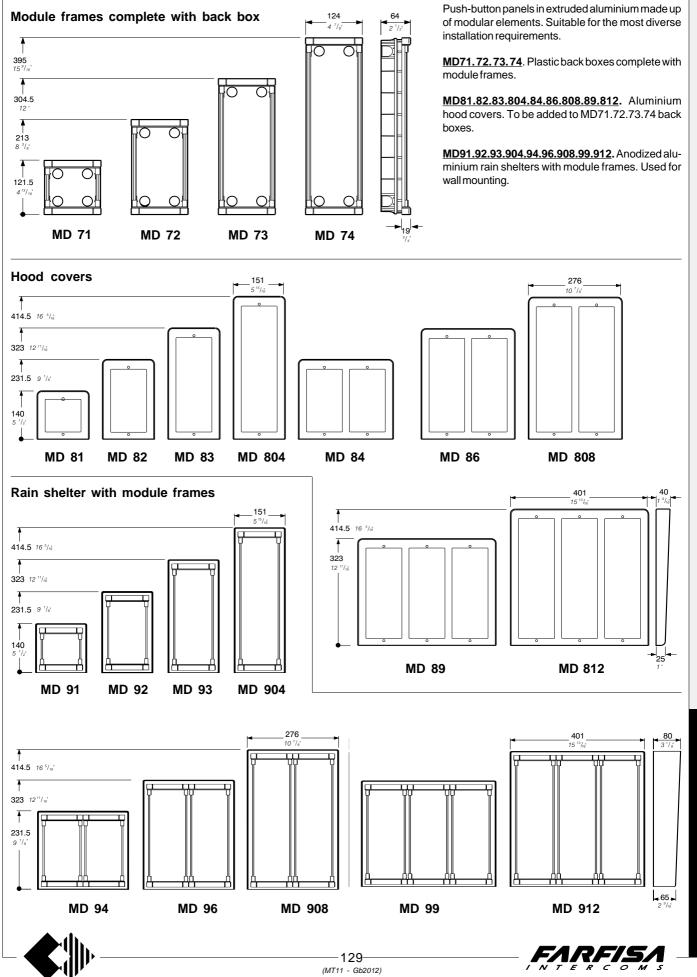
(*) Rain shelters are used in replacementof back boxes





MODY series

PUSH-BUTTONS



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PUSH-BUTTONS MODY series

1 row push-button modules

Modules for electric door speaker (amplifier)





without buttons

Button modules







MD 12

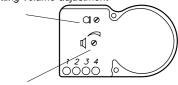
2 call buttons



MD 24 4 call buttons

stations by means of 299/1 adapter). Transmitting volume adjustment

MD 30.



Receiving volume adjustment

Terminals

- 1 audio receiver
- 2 audio transmitter
- 3 positive power supply 6 ÷ 8Vdc 60mA

ELECTRIC DOOR SPEAKER

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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

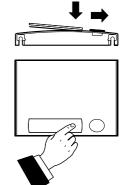
55 2 3/16

91

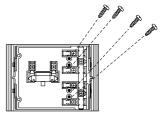
3 9/18

4 ground

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.



26 MD 21



MD 23

3 call buttons



1 call button 2 call buttons

2 row push-button modules

Modules for electric door speaker (amplifier)



MD 122

2 call buttons

Button modules



MD 222



MD 124

4 call buttons

2 call buttons



MD 226 6 call buttons

() \bigcirc



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 \bigcirc

Modules: blank, number, amplified door stations, access control and cameras



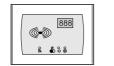




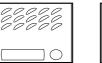
FC52P. Keypad module for access control (see characteristics on page 132).



MD50 number module



FP52. Proximity reader for access control (see characteristics on page 132).

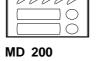


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MD 100 Amplified door station with 1 call button (see page 132)



MD41. MD41D. Black and white cameras. MD41C. Colour cameras (see characteristics on page 131).



Amplified door station with 2 call buttons (see page 132)



130-(MT11 - Gb2012)

CAMERAS

For the realisation of video intercom systems you must select the camera according to the type of installation:

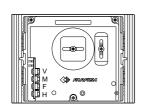
- Video intercom system with coaxial cable - Video intercom system with twisted pair

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.

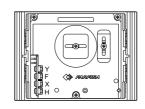


Terminals

- Video signal output ν
- Ground м
- F Not connected
- н 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

- Positive video signal output Υ
- F Ground
- Х Negative video signal output н
- Power supply input

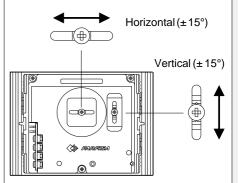
Note

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.



Technical data	MD41	MD41C	MD41D
Powersupply	21±3Vdc	21±3Vdc	15÷21Vdc
Operatingcurrent	0.3A	0.4A	0.3A
Video signal output	1Vpp on 75 Ω	1Vpp on 75 Ω	1Vpp balanced
Video signal standard	CCIR	PAL	CCIR
Minimumillumination	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
Horizontal frequency	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°
Operatingtemperature	-10°÷+40°C	-10°÷+40°C	-10°÷+40°C
Max. permissible humidity	80%RH	80%RH	80%RH

Note

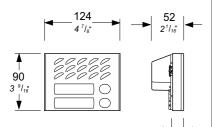
MD40, MD40C and MD40D cameras have the same specifications as models MD41, MD41C and MD41D, except that they have not horizontal and vertical adjustment.





PUSH-BUTTONS MODY series

AMPLIFIED DOOR STATIONS



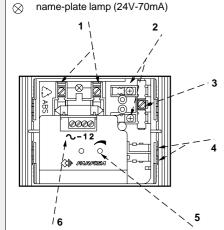
MD 100. 1 button module.

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
- \sim supply 13Vac/ 12-21Vdc-60mA
- 1 audio receiver
- 2 audio transmitter
- C call push-buttons common
- call push-buttons

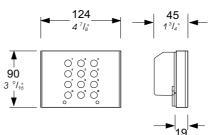


- 1 Lamp terminals
- 2 Push-button terminal board
- 3 Common contact of call push-buttons
- 1 Terminals on stair light push-button
- 5 External volume adjustment
- 6 Terminal board for connection to the system

Installation diagrams

For the installation of the **MD100** and **MD200** modules see the installation diagrams for systems with one entrance.

ACCESS CONTROL KEYPAD



31:

<u>FC52P</u>.

19

3/4

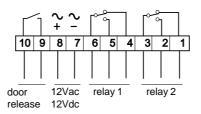
Access control keypad with 12 digits and 2 relays for lock release. 4 programmable access codes for each relay. Programmable door opening time from 1 up 99 sec. for each relay (or bistable operation of relay 1). Acoustic and visual confirmation for entered keys, accepted programming and for wrong codes.

Technical data

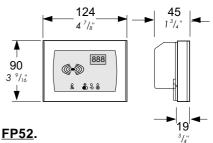
Power supply:	12Vac/dc±10%
Stand-by current:	0.015A
Maximum current consumption:	0.1A
Contact ratings:	12Vac-5A.
Numbers of codes for relays 1:	4
Numbers of codes for relays 2:	4 or direct
	activation
Activation time for each relay:	from 1 to 99sec.
(or	bistable relay 1)
Operating temperature:	0° ÷ +40°C
Maximum permissible humidity:	85% RH
Terminals	

Terminals 1 normally

- normally closed contact of relay 2
- 2 normally open contact of relay 2
- 3 common contact of relay 2
- 4 normally closed contact of relay 1
- 5 normally open contact of relay 1
- 6 common contact of relay 1
- 7 ground or alternate voltage input
- 8 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.

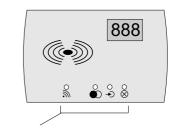
Programmable activation time from 1 to 63 seconds for every relay. 4 user cards and 1 master card supplied with the product. Acoustic and visual control signals and 3-digit display to view numbers and codes during set-up and operation.

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
- -/A ground or alternate current input
- PB 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

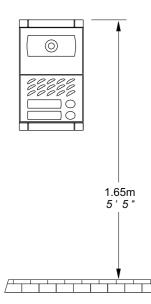


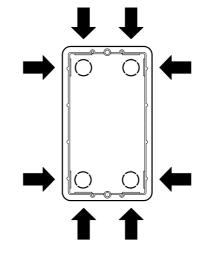
- **Card recognition LED**. It turns ON during card recognition.
- Relay activation LED. It indicates relay deactivation (red) or activation (green).
- Program LED. It turns ON during system programming.
- Card cancellation and system setup LED. It turns ON during Master or user card cancellation and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





PUSH-BUTTONS MODY series

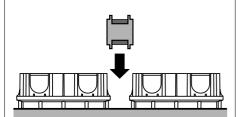


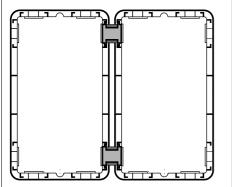


Openings for cables.

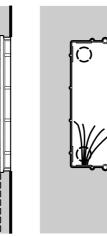
Place the push-button panel back box at a height of about 1.65m from the floor keeping the front edges flush-mounted and vertical to the finished plaster.

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.

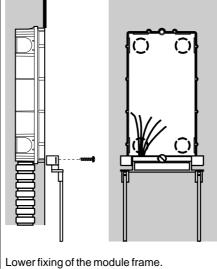




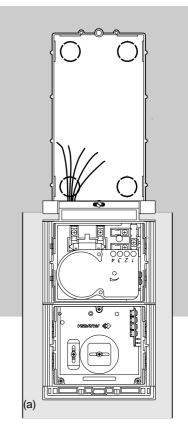
Insertion of cable bush between back boxes. The cable bushes must be inserted before brickwork.



Flush mounting and cables placing.



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.



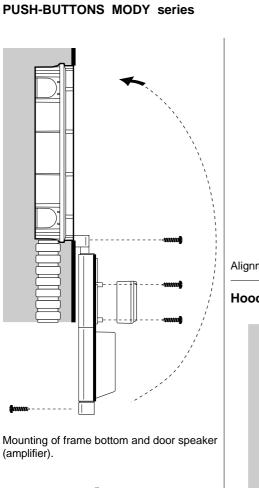
Y

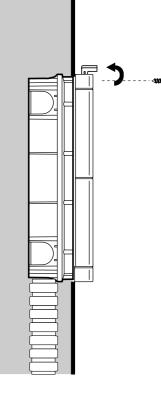






4+1 INTERCOMS * 7+1 VIDEOINTERCOMS





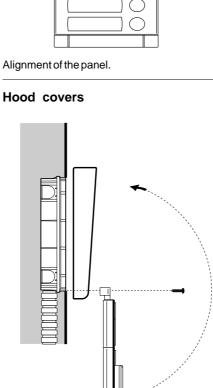
Top fixing of the panel.

M

0

D

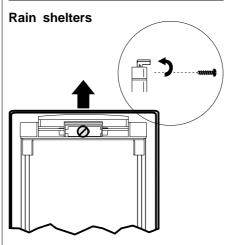
Y



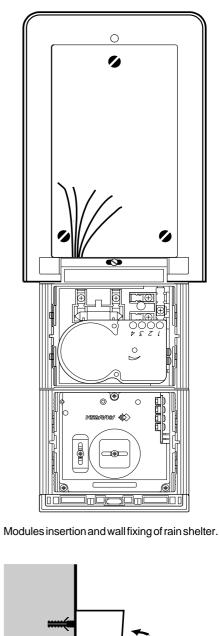
0

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



Dismounting of the frame top side from the rain shelter.



Mounting of the frame top to the rain shelter.





F

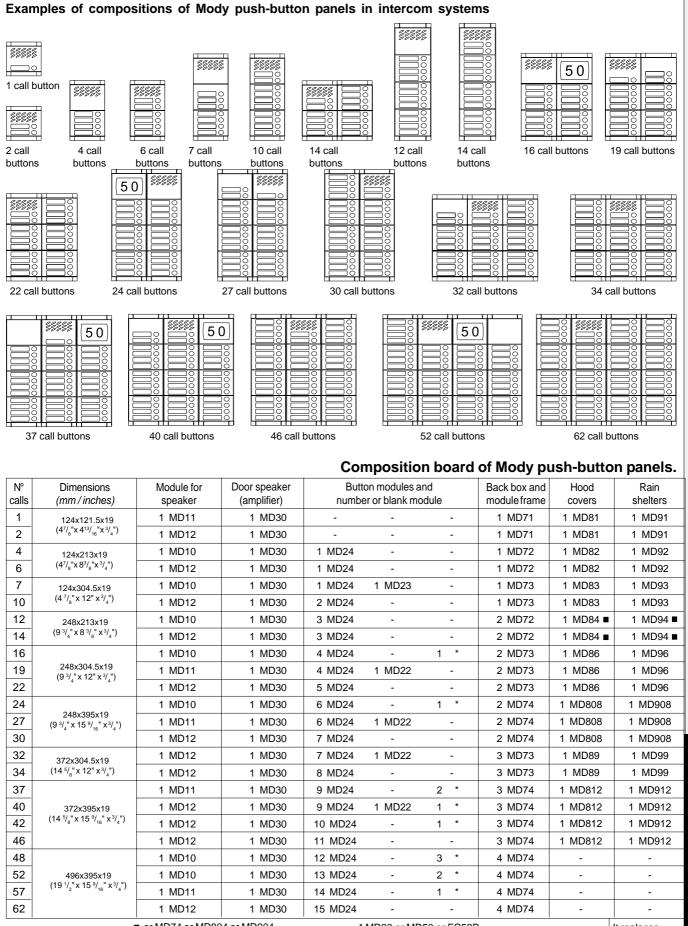
R

C

o



1 row push-button

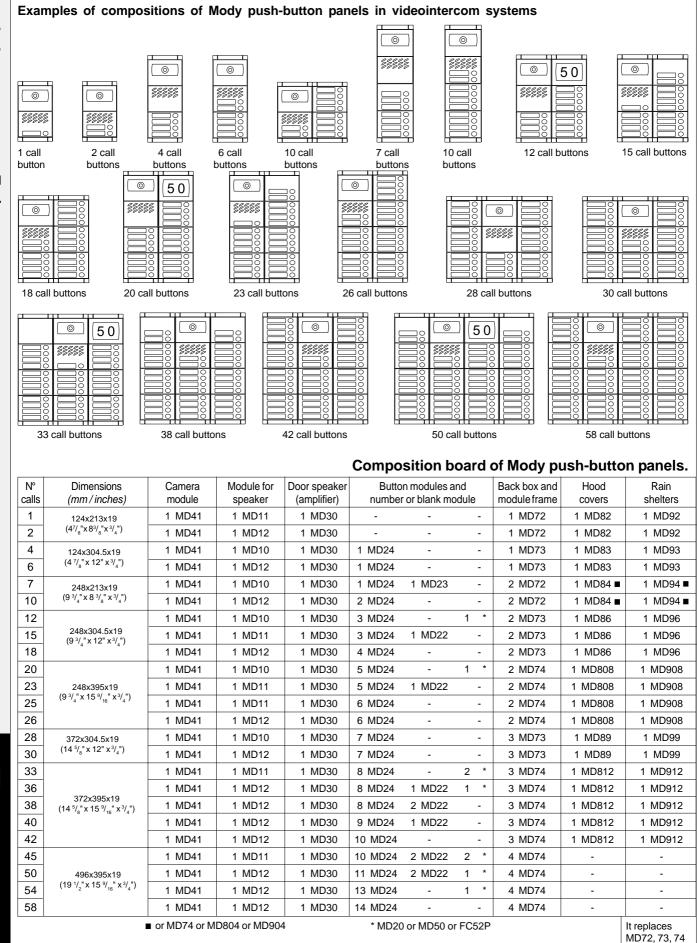


or MD74 or MD804 or MD904

* MD20 or MD50 or FC52P

____135____ (MT11 - Gb2012) It replaces MD71,72,73,74 Μ





____136____ (MT11 - Gb2012)





4 call

N٥

calls

2

4

8

12

14

20

24

28

32

38

44

48

54

60

64

68

74

80

84

92

96

104

114

124

2 row push-button

Examples of compositions of Mody push-button panels in intercom systems 66666 66666 50 2 call 66666 buttons 20 call 8 call 12 call 14 call 28 call 24 call 28 call 32 call buttons 38 call buttons buttons buttons buttons buttons buttons buttons buttons buttons 66666 50 6666 44 call buttons 48 call buttons 54 call buttons 60 call buttons 64 call buttons 68 call buttons 66666 50 50 50 104 call buttons 74 call buttons 84 call buttons 92 call buttons 124 call buttons Composition board of Mody push-button panels. Dimensions Module for Door speaker Button modules and Back box and Hood (mm/inches) (amplifier) number or blank module module frame shelters speaker covers 1 MD122 1 MD30 _ 1 MD71 1 MD81 1 MD91 _ 124x121.5x19 $(4^{7}/_{8}x 4^{13}/_{16}x^{3}/_{4})$ 1 MD124 1 MD30 1 MD71 1 MD81 1 MD91 _ -1 MD10 1 MD30 1 MD72 1 MD82 1 MD92 1 MD228 --124x213x19 $(4^{7}/_{8}$ "x $8^{3}/_{8}$ "x $3^{3}/_{4}$ ") 1 MD124 1 MD30 1 MD228 1 MD72 1 MD82 1 MD92 1 MD10 1 MD30 1 MD228 1 MD73 1 MD83 1 MD93 1 MD226 _ 124x304.5x19 $(4^{7}/_{8}$ " x 12" x $3'/_{4}$ ") 1 MD124 1 MD30 2 MD228 1 MD73 1 MD83 1 MD93 --1 MD10 1 MD30 3 MD228 --2 MD72 1 MD84 1 MD94 248x213x19 (9³/₄" x 8³/₈" x³/₄") 1 MD124 1 MD30 3 MD228 2 MD72 1 MD84 -_ * 1 MD10 1 MD30 4 MD228 1 2 MD73 1 MD86 _ 248x304.5x19 1 MD10 1 MD30 4 MD228 1 MD226 2 MD73 1 MD86 (9³/₄"x 12" x³/₄") 1 MD124 1 MD30 5 MD228 2 MD73 1 MD86 -_ * 2 MD74 1 MD808 1 MD10 1 MD30 6 MD228 1 248x395x19 1 MD224 2 MD74 1 MD808 1 MD122 1 MD30 6 MD228 (9³/₄"x 15⁹/₁₆"x³/₄") 1 MD124 7 MD228 2 MD74 1 MD808 1 MD30 --8 MD228 1 MD30 3 MD73 1 MD89 1 MD10 --372x304.5x19 (14⁵/₈" x 12" x ³/₄") 3 MD73 1 MD89 1 MD124 1 MD30 8 MD228 * 1 MD122 1 MD30 9 MD228 3 MD74 1 MD812 2 1 MD124 1 MD30 9 MD228 1 MD224 1 * 3 MD74 1 MD812 372x395x19 $(14 \frac{5}{8} \times 15 \frac{9}{16} \times \frac{3}{4})$ 10 MD228 1 * 3 MD74 1 MD812 1 MD124 1 MD30 _ 1 MD124 1 MD30 11 MD228 3 MD74 1 MD812 . _ * 4 MD74 1 MD10 1 MD30 12 MD228 3 _ -13 MD228 2 * 4 MD74 496x395x19 1 MD10 1 MD30 _ _ $(19^{1/2} \times 15^{9/16} \times 3^{1/2})$ * 1 MD122 1 MD30 14 MD228 1 4 MD74 _ 4 MD74 1 MD124 1 MD30 15 MD228 or MD74 or MD804 or MD904 * MD20 or MD50 or FC52P It replaces MD71,72,73,74

137 (MT11 - Gb2012)





Rain

1 MD94 1 MD96 1 MD96 1 MD96 1 MD908 1 MD908 1 MD908 1 MD99 1 MD99 1 MD912 1 MD912 1 MD912 1 MD912

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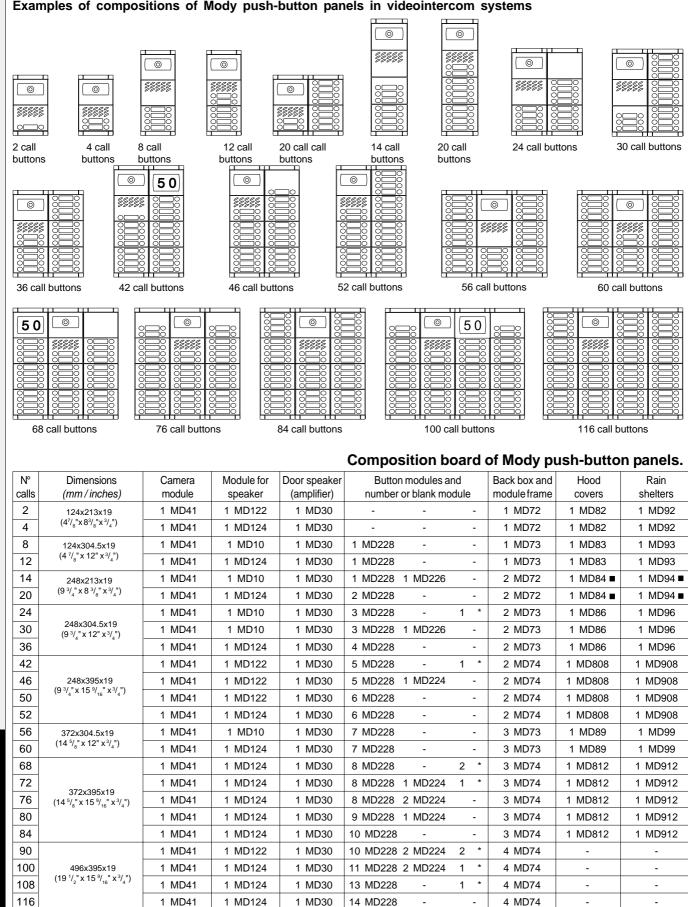
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M

D)





or MD74 or MD804 or MD904

* MD20 or MD50 or FC52P

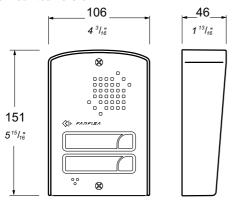
138 (MT11 - Gb2012)

It replaces MD72, 73, 74



PUSH-BUTTONS UP series

Surface mounted version

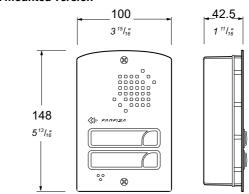


UP 100. Amplified push-button panel with 1 call button.

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.

Flush mounted version

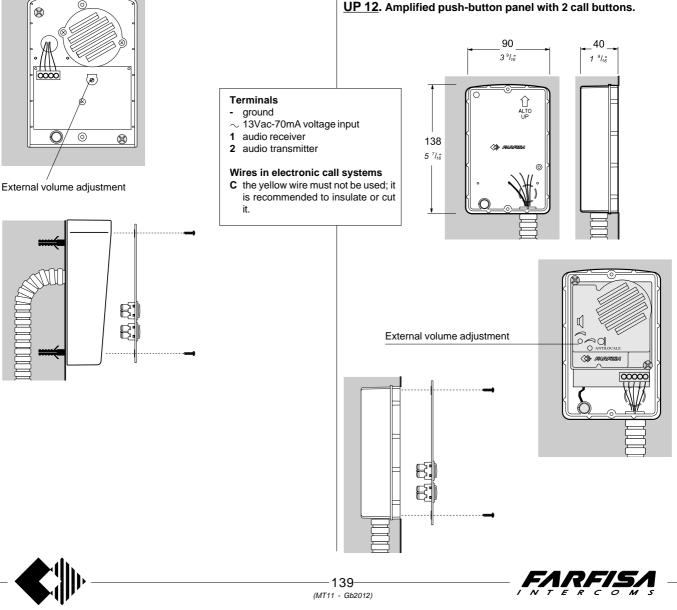


UP 11. Amplified push-button panel with 1 call button.

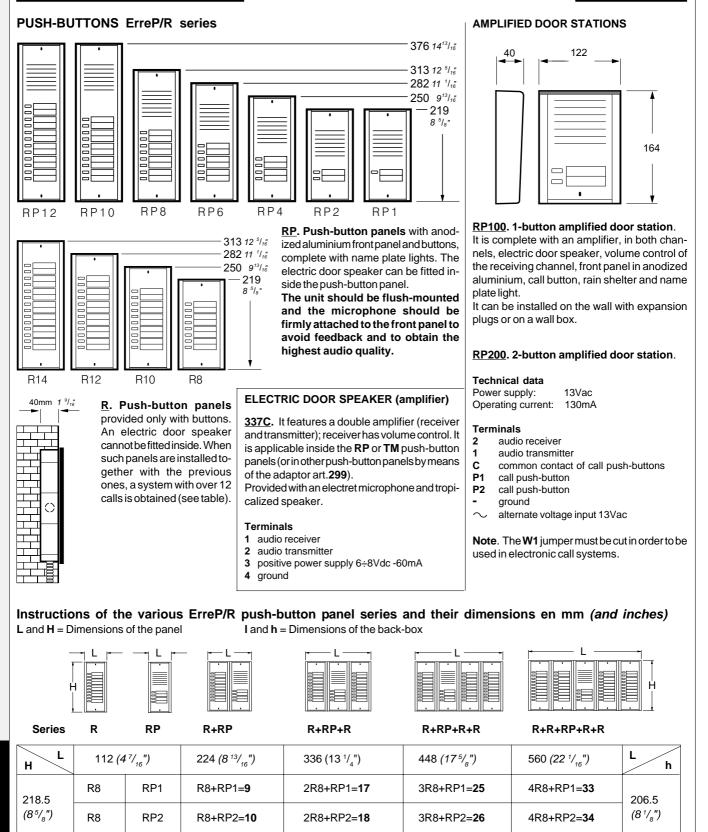
Be used in all 4+1 intercom and intercommunicating systems. Complete with electric door speaker amplifier in the two channels, volume control of the receiving channel, front panel in anodized aluminium with call button.

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.



D



250

(9¹³/₁₆")

281.5 (11¹/₁₆")

313 *(12⁵/₁₆")*

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4+1 INTERCOMS

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+1 VIDEOINTERCOMS



103 (4 1/16")

R10

R12

R14

RP4

RP6

RP8

R10+RP4=14

R12+RP6=18

R14+RP8=22

215 (87/16")



2R10+RP4=24

2R12+RP6=30

2R14+RP8=36

327 (12 7/8")

3R10+RP4=34

3R12+RP6=42

3R14+RP8=50

439 (17⁵/₁₆")



238

(9³/₈")

269.5 (10⁵/₈")

301 (11⁷/。")

h

4R10+RP4=44

4R12+RP6=54

4R14+RP8=64

551 (21 11/16")

POWER SUPPLIES

4+1 INTERCOMS * 7+1 VIDEOINTERCOMS

Power supplies are not provided with fuses, but they are protected against overloading or shortcircuiting 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.

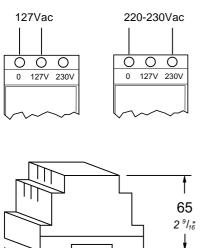
All power supplies can provide power for a maximum of **6 (24V-3W) lamps** for illuminating push-button panel name plates. If required add the necessary **PRS210** transformers (approx. 1 for 10 lamps).

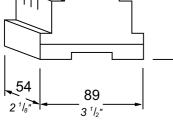
General technical data

Input voltage:127Vac or 220-230VacWorking temperature:0°÷+50°CMaximum of humidity:90%RH

Warning

All power supplies in this manual can work either 127Vac or 220-230Vac. **Check carefully the right connection.**



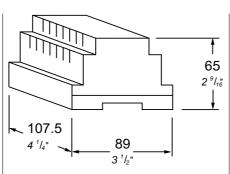


PRS 210. TRANSFORMER.

Used to power 13Vac 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 inte	rmittent load: 1A
Housing:	DIN 3 modules A
Weight:	0.42 Kg. <i>(0.93lb)</i>
Approved by:	VDE according to the Safety
	Standard EN60065



<u>PRS 240</u>. STABILIZED POWER SUPPLY WITH 2 ELECTRONIC RINGING GENERA-TORS.

Power supply with two electronic ringing generators for calls. It supplies the voltages needed for the correct operation of intercom systems.

Technical data

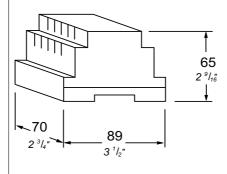
Power: Ringing frequency: Housing: Weight: Approved by:

18VA 450Hz modulated DIN 6 modules A 0.5 Kg. (1.1lb) 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
- 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 da	ata
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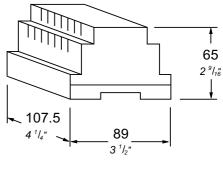
Power:	15VA
Housing:	DIN 4 modules A
Weight:	0.45 Kg. (0.99lb)
Approved by:	VDE-SASO according to the Safety
	Standard EN60065

Output terminals

Ground

- Audio line power supply 6Vdc-0.1A $_{\bigcirc}$ Power supply 13Vac for:
- Power supply 13Vac for:

 name plate lamps, exchangers (continuous load 0.6A)
 electric door lock and bells (intermittent load
 - electric door lock and bells (intermittent load 1A)



<u>PRS226E</u>. 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

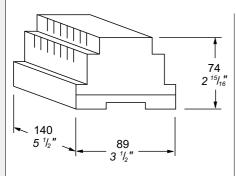
Output terminals

Ground

- 8Vdc-0.1A power supply for door speaker unit
 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 panelsA Output for alternate current calls from push-
- button panels 13Vca-0.15A G Audio line receiver from intercoms
- 2 Audio line transmitter to intercoms
- D 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



POWER SUPPLY AND CONTROL UNIT



1281E. AUDIO-VIDEO POWER SUPPLY-TIMER.

It allows to power in timed way (about 100 seconds) a videointercom installation 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

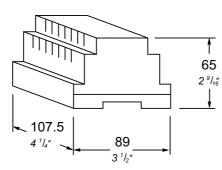
recinical uata				
Input voltage		127 or 220-2	30Vac	
Frequency		50/60Hz		
Power		48VA		
Operating temperature 0°÷+40°C				
Maximum permissible humidity 90%RH				
Housing		DIN 8 modul	es A	
Weight		0.95Kg.		
Approved	VDE accor	ding to safety	/ stan-	
	dard EN600	065		

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
- н Timed positive voltage input-output 18÷21Vdc-1A max.
- F Ground
- Auxiliary voltage output 12Vdc-0.2A Х
- Control switching ON input from the monitors 4 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	
Input voltage	
Frequency	

roominour autu		
Input voltage		127 or 220-230Vac
Frequency		50/60Hz
Power		48VA
Operating tempe	erature	0°÷+40°C
Maximum permis	lity 90%RH	
Housing		DIN 8 modules A
Weight		0.95Kg.
Approved	VDE accor dard EN60	ding to safety stan- 065

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 opera-+ tion)
- Т 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

65 2 ⁹/₁₆ .70 89 2 3/4 3 ¹/₂"

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
- х Auxiliary voltage output 12Vdc-0.2A
- Alternate voltage input-output 13Vac-1.6A F Ground
- н 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
- Electronic ringing generator for intercommunicating calls 12Vpp-0.25A
- Transmitter audio channel output 5Vdc-20mA
- Receiver audio channel output 1.5Vdc-20mA 2
- 3+ Positive voltage output 8Vdc-0.1A

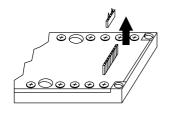


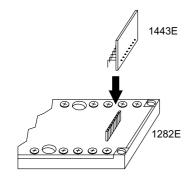


SERVICE MODULES

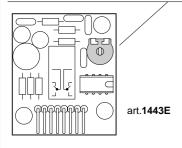
1443E. INTERCOMMUNICATING MOD-ULE.

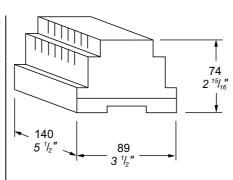
Added inside the timer art.1282E, it allows for the intercommunicating service with privacy towards the external station.





Use the trimmer to adjust the intercommunicating volume.





1473. 4-CONTACT ANALOG EX-CHANGER.

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.

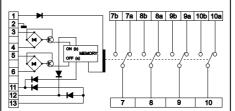
Technical data

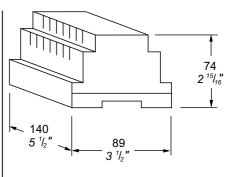
Power supply: 13Vac; 15÷21Vdc Current consumption: 0.1A Number of exchanges: 4 Max. switching current: 5A (50V) Housing: DIN 8 modules A

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





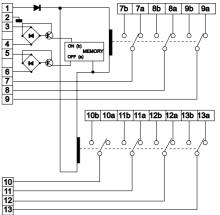
7-CONTACT ANALOG EX-1273TV. CHANGER.

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" position - ON 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

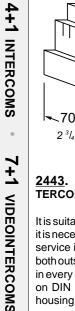
7b,8b,9b,10b,11b,12b, 13b ON position of relay contacts







SERVICE MODULES





89

3 1/2"

65

2 º/16

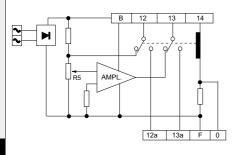
It is suitable for video intercom systems where it is necessary to have the intercommunicating service in different flats with privacy towards both outside and other users. Use one art.**2443** in every intercommunicating flat. Can be fixed on DIN bar or with two expansion plugs. In housing DIN 4 modules A.

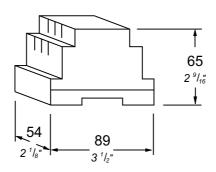
Terminals

- F General ground
- B Power supply 8Vdc-60mA
- \sim 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
- 0 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 GENERA-TOR WITH 3 DIFFERENT SOUNDS.

It allows for differentiating calls from external door stations or from door station and floorcalls. 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

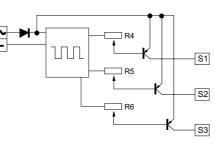
Operating temperature: $0^{\circ} \div 50^{\circ}C$

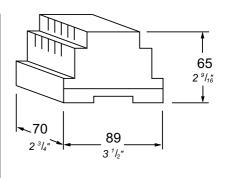
Maximum permissible humidity: 90% RH

Terminals

- \sim Alternate current input
- Ground
- **S1** 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.

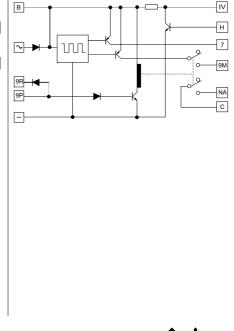
Can be fixed on DIN bar or screwed to the wall with 2 expansion plugs.

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

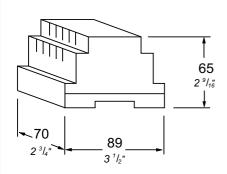
- \sim Alternate current input
- Ground
- H Timed continuous current input 21Vdc
- IV Additional power supply activation
- **C** Common contact of relay
- NA Normally open contact of relay
- 9P Electronic call input
- **9M** Regenerated electronic call output activated by terminal 9P
- 9R Direct electronic call output from terminal 9PB 8Vdc voltage output







SERVICE MODULES



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)

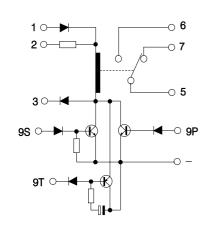
 Housing:
 DIN 4 modules A

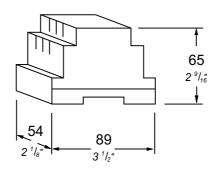
 Operating temperature:
 0° ÷ 50°C

 Maximum permissible humidity:
 90% RH

Terminals

- 1 Alternate current input 13Vac-dc
- 2 Continuous current input 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)

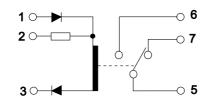
 Housing:
 DIN 3 modules A

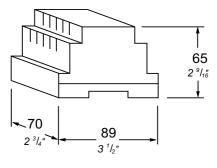
 Operating temperature:
 0° ÷ 50°C

 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)

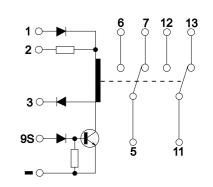
 Housing:
 DIN 4 modules A

 Operating temperature:
 0° ÷ 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 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 213 Normally closed contact of exchange
- 13 Normally closed contact of exchange 295 Electronic call input with resistive load
- Ground







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

- 1) For the correct operation of the intercom system you must choose the correct type of cable.
- 2) 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.

WIRE CROSS-SECTION

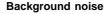
Intercom system

Distar	nce	Audio a	and calls			k and groun bold face type	
 -	►						
m.	feet	mm² S	mm Ø	AWG	mm² S	mm Ø	AWG
50 100 200 300 400	165 330 660 990 1300	0,35 0,35 0,5 0,75 1	0,6 0,6 0,8 1 1,2	22 22 20 18 16	0,75 1 2 2,5 -	1 1,2 1,4 1,8 -	18 16 14 13 -

Videointercom system

Distan	nce - I		D.2D.3D A.C+.9M	.4.5		. 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).



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

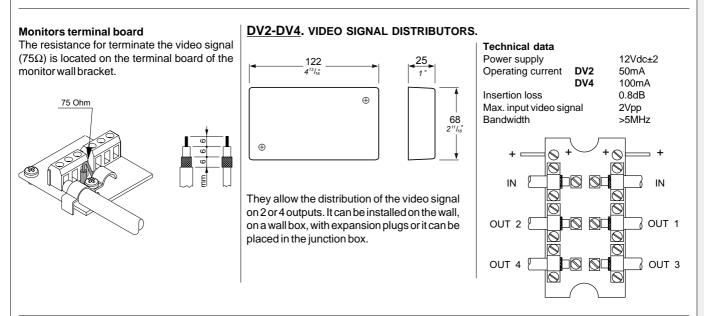
- 5) not to lay intercom or telephone cables in the same runaway as the wires used to power alternate current loads;
- 6) to avoid using the same multi-core cable to transmit audio signals and alternate current power supplies (lamps, amplified external door stations, electrical door locks). Always use 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).





VIDEO SIGNAL DISTRIBUTION WITH COAXIAL CABLE

For the video signal use a TV 75 Ω low loss coaxial cable.



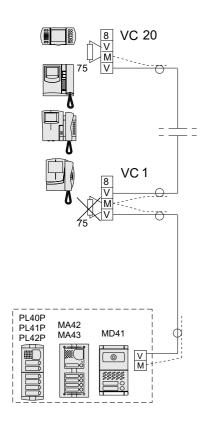
Serial connection of the coaxial cable (input and output from monitor)

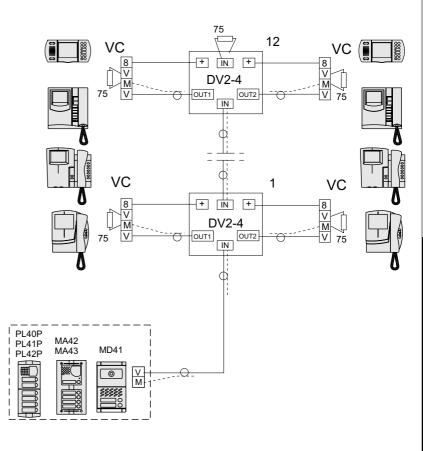
To carry out the video connection in a serial mode it is necessary to cut the resistance of 75Ω located on the wall-bracket terminal board. Leave it only on the last monitor. The monitors serially connectable are max. 20.

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.











INSTALLATION INSTRUCTIONS

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

14

IN

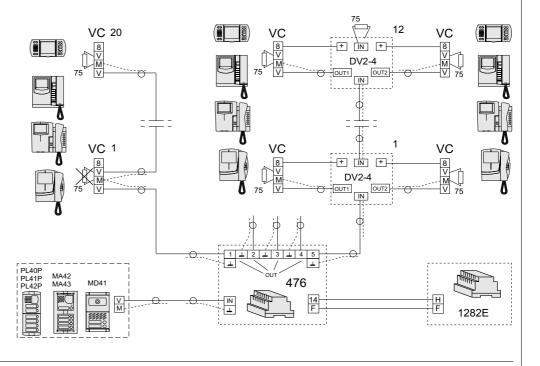
- General ground
- Positive power supply
- Video signal input
- 1-2-3-4-5
- Video signal outputs Video ground (shield of the coaxial _____ cable)

Technical data Power supply 21 ± 3Vdc Operating current at max. load 250mA Gain at max. load from 0 to 3.5dB (adjustable) Gain with one output terminated to 75Ω from 0 to 9dB (adjustable) Bandwidth >5MHz Operating temperature 0°÷+50°C 90% RH Maximum permissible humidity DIN 8 modules A Housing

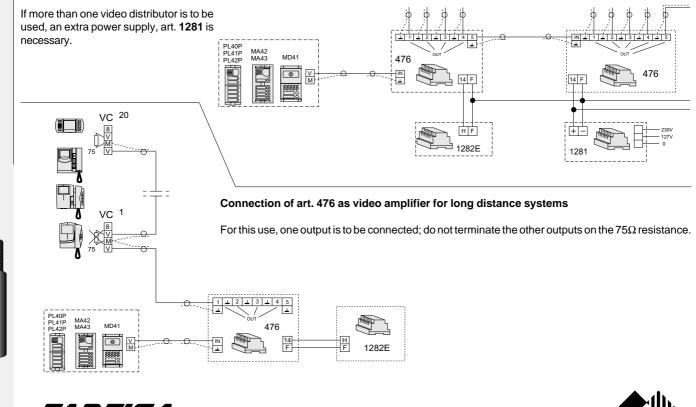
Connection of the coaxial cable with distribution on maximum 5 column rising (serial and/or with video distributors)

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 75Ω resistance.



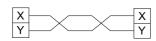
Connection of the coaxial cable with video signal distribution on more than 5 risers





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 $2x0.35mm^2$ wires (Ø=0,6mm) instead of the coaxial cable. For distances from 100m to 200m a twisted pair must be used.



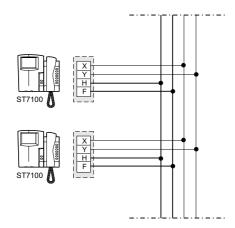
For the connection of the video signal you can choose from:

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

CONNECTION WITH JUNCTION BOX

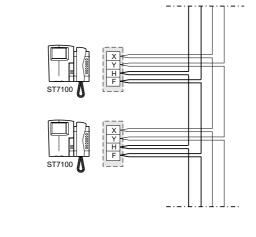
All wires are distributed in the floor junction box.

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 75 Ω resistances must be inserted between X and F and between Y and F in the last video intercom.



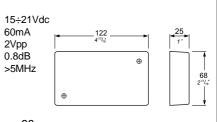
CONNECTION WITH FLOOR DISTRIBUTOR

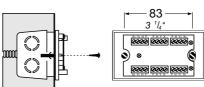
The video wires of each video intercom are insulated from the riser. Connections are made on the **DV2D** or **DV4D** floor video signal distributor box.

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.

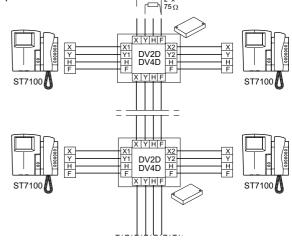






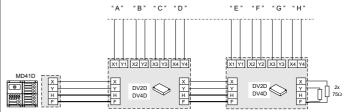
Connection of the video signal on a single riser

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 Ω resistances supplied with the article. It is not necessary to terminate the unused outputs.



Example of connection on 8 risers









INSTALLATION INSTRUCTIONS

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).

<u>CV 01</u>.

Video signal converter from coaxial cable to balanced line (twisted pairs).

Wires

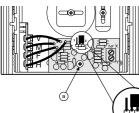
- V (white) video signal input
 M (green) video ground
 -F (black) ground
 +H (red) 12÷21Vdc power supply input (according to the position of jumper J1)
 Terminals
 X negative balanced video signal output
 Y positive balanced video signal output
- SYSTEMS WITH MODY, MATRIX OR PROFILO CAM-ERAS

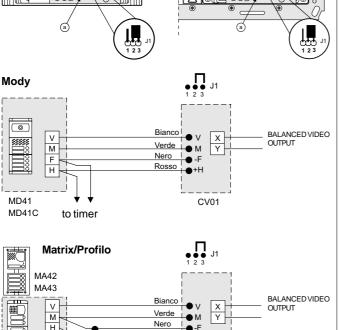
Installation

- 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





Rosso

CV01

SYSTEMS WITH CCTV CAMERAS

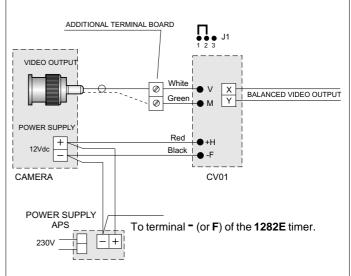
Installation

- 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

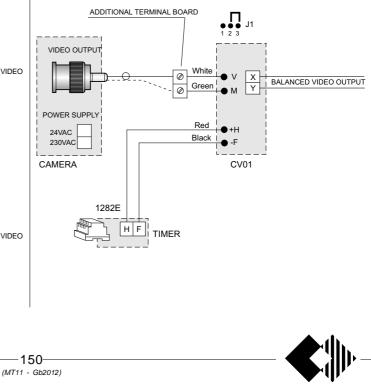
This type of connection allows for powering the board with the camera power supply.

- 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 timer

PI 40P÷42P

INTERCOMS

Edition 2012

Installation diagrams

INDEX		Page
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- Fortherea	lisation of one-way intercommunicating services in apartment building systems. External call on electronic buzzer	182
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Si 21MO/1

• EXTERNAL DOOF	NNECTED TO 1 EXTERNAL DOOF	STATION	Floor call This work diagram allows for differ- entiating the floor-call from the call
PROFILO series	MATRIX series	<u>MODY</u> series	from the push-button panel.
PL71÷PL73 1 PL81÷PL89 1 PL91÷PL99 * 1 PL10P÷PL12F PL21÷PL228 PL20, PL50	MA71÷MA73 1 MAS61÷MAS63 (1) 1 MA91÷MA93* 1 MAS10P÷MAS12P MAS22-MAS24 MAS20	MD71÷MD74 1 MD81÷MD812 1 MD91÷MD912 * 1 MD10÷MD124 MD21÷MD228 MD20, MD50 1 MD30	FP Floor-button " EX320 EX320
INTERNAL STATE	ONS		FP FP FP
EX310 EX320 KM810W ST720W PT510EW	Exhito series intercom with 2 call buttor Exhito series modular intercom Compact series intercom with 1 call but Studio series modular intercom Project series intercom with 1 call butto	iton	Floor-button
VARIOUS ARTICL	-		
1 PRS240 1 PA ** 1 SE **	Power supply with electronic ringing gel Door release push-button (<i>optional</i>) Electric door lock (12VAC-1A)	nerator	
Refers to number of	of users.		
covers.	used instead of back boxes and hood		PRS240
** Articles not supplie	ed by ACI Farfisa.		activation by means of an additional relay
Working instruction	s. See page 183.	to terminal 5 of the intercom	1471
of the installation ins	f name-plate lamps, read notes 6, 7 and 8 tructions on page 146. ing refer to the installation recommenda- age 146.	additional relay	intercom power supply in the installation PRS240
		SE	PA

Application diagram

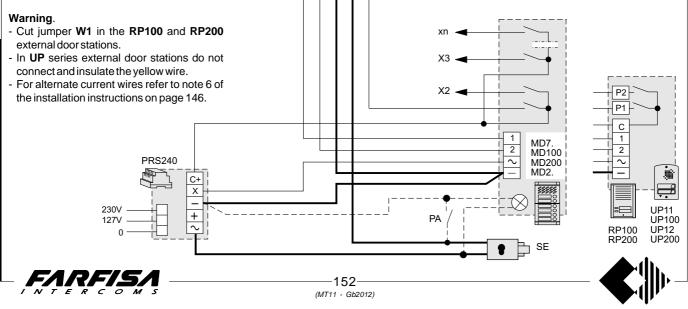
When using MD100, MD200, RP100, RP200 and UP amplified external door stations, place this diagram on the diagram on page 153 and line it up with the riser.

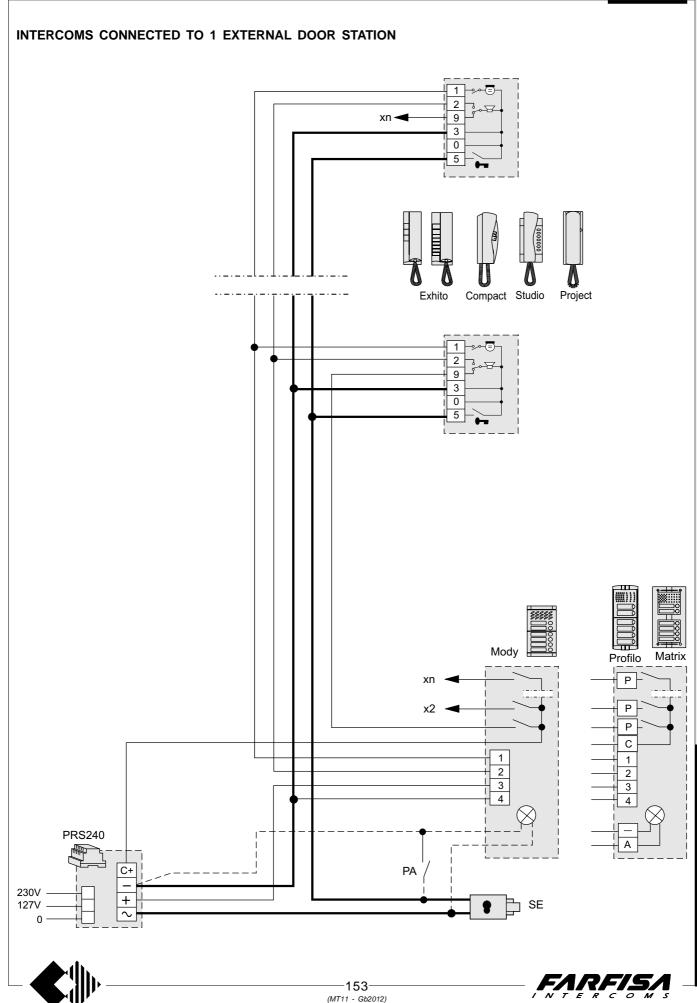
đ

•

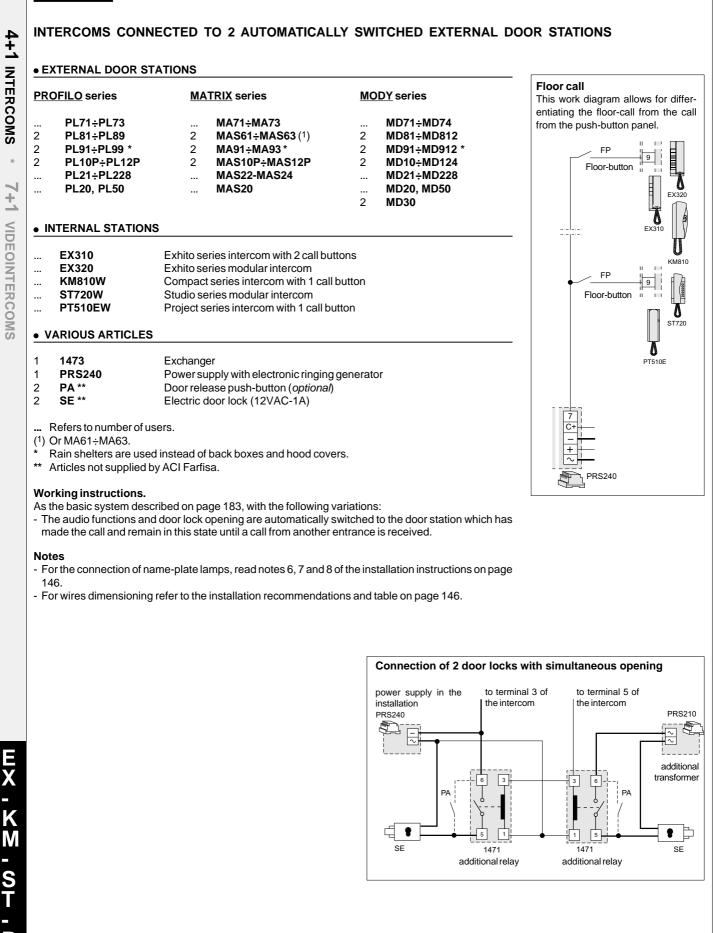
ζ

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.





Si 22MO/1



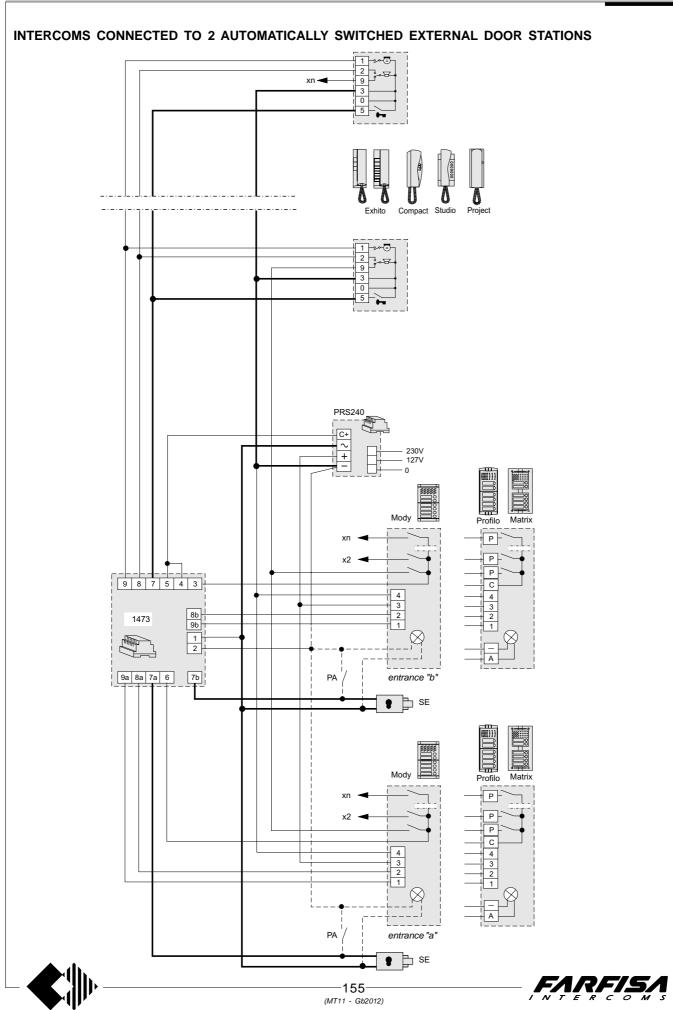
154 (MT11 - Gb2012)



P T



Si 22MO/1

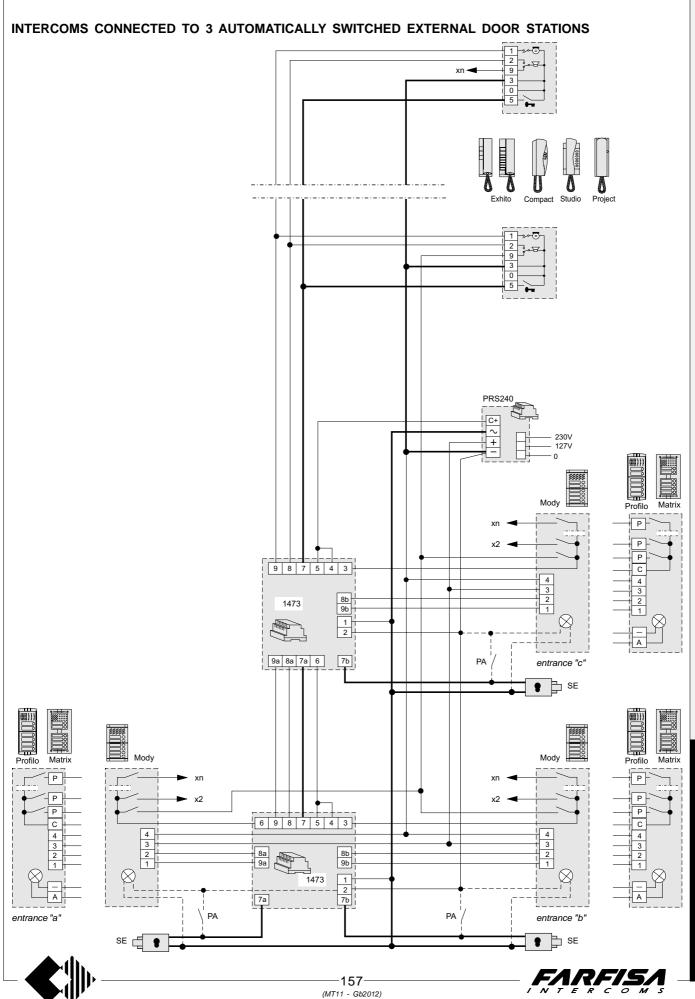


Si 23MO/1

INTERCOMS CONNECTED TO 3 AUTOMATICALLY SWITCHED EXTERNAL DOOR STATIONS • EXTERNAL DOOR STATIONS Floor call **PROFILO** series **MATRIX** series **MODY** series This work diagram allows for differentiating the floor-call from the call MD71÷MD74 PL71÷PL73 MA71÷MA73 from the push-button panel. ... 3 PL81÷PL89 3 MAS61÷MAS63(1) 3 MD81÷MD812 PL91+PL99 * MD91÷MD912 * 3 3 MA91÷MA93* 3 FP 9 3 PL10P÷PL12P 3 MAS10P+MAS12P 3 MD10÷MD124 Floor-button PL21÷PL228 MAS22-MAS24 MD21÷MD228 PL20, PL50 MD20, MD50 MAS20 3 **MD30** ۵ • INTERNAL STATIONS EX3 EX310 Exhito series intercom with 2 call buttons ... KM810 Exhito series modular intercom EX320 ... FP KM810W Compact series intercom with 1 call button ... 9 **ST720W** Studio series modular intercom Floor-button ... **PT510EW** Project series intercom with 1 call button ... ۵ ST720 • VARIOUS ARTICLES Λ 2 1473 Exchanger PT510E 1 **PRS240** Power supply with electronic ringing generator PA ** Door release push-button (optional) 3 SE ** 3 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. PRS240 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.





Si 26MO/1 INTERCOM SYSTEM WITH SECONDARY DOOR STATIONS AND 1 MAIN COMMON STATION (multiple entrance) • EXTERNAL DOOR STATIONS Floor call **MATRIX** series **MODY** series **PROFILO** series This work diagram allows for differentiating the floor-call from the call MD71÷MD74 PL71÷PL73 MA71÷MA73 from the push-button panel. 1+X PL81÷PL89 1+X MAS61÷MAS63 (1) 1+X MD81÷MD812 PL91+PL99 * 1+X MA91÷MA93* 1+X MD91÷MD912 * 1+X FP 9 1+X PL10P+PL12P 1+X MAS10P÷MAS12P 1+X MD10÷MD124 Floor-button PL21+PL228 MAS22-MAS24 MD21÷MD228 ... PL20, PL50 MAS20 MD20, MD50 ... 1+X MD30 ۵ • INTERNAL STATIONS EX: EX310 Exhito series intercom with 2 call buttons ... KM810 Exhito series modular intercom EX320 ... FF KM810W Compact series intercom with 1 call button ... 9 Studio series modular intercom **ST720W** Floor-button ... **PT510EW** Project series intercom with 1 call button Δ ... ST720 • VARIOUS ARTICLES Λ Х 1473 Exchanger PT510E 1+X PRS240 Power supply with electronic ringing generator **PRS220** Power supply 1 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.

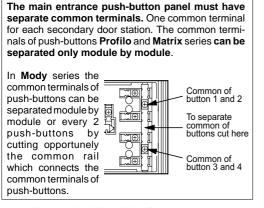
Working instructions.

As the basic system described on page 183, with the following variations:

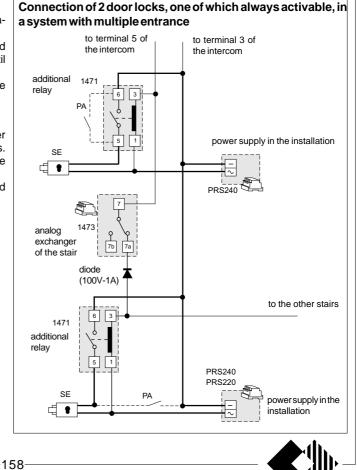
- The audio functions and door lock opening are automatically switched to the door station which has made the call and remain in this state until a call from another entrance is received.
- Services to secondary door stations are independent and can be operated at the same time.

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.

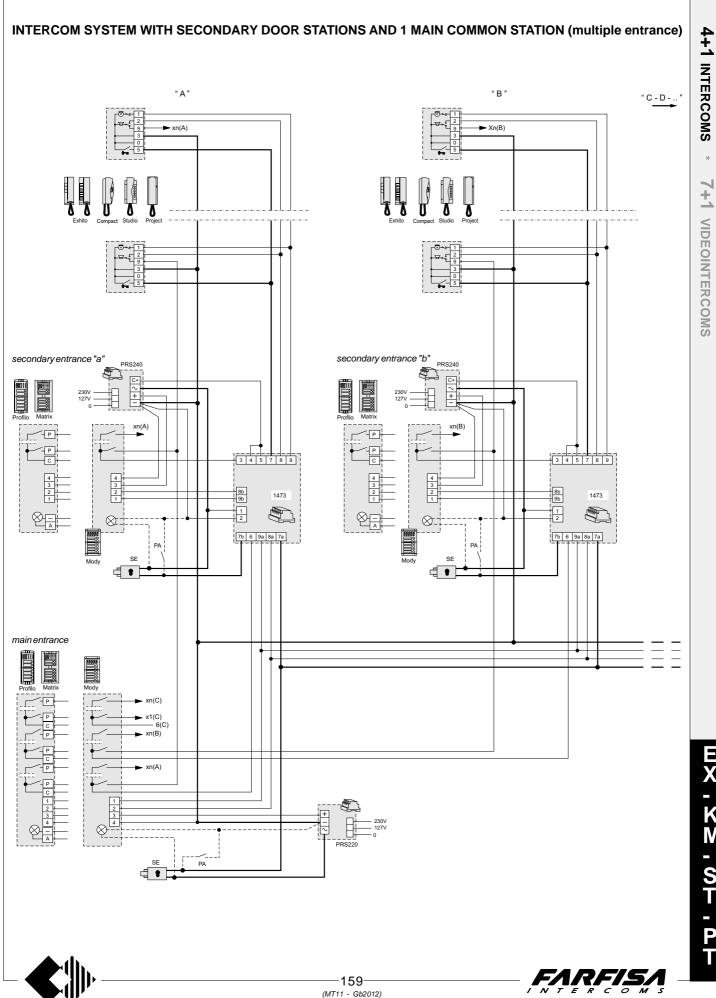






(MT11 - Gb2012)

Si 26MO/1



4+1 INTERCOMS

×-

Si 26MO/2

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

Main DOOR STATION

PRO	FILO series	MA	ATRIX series	MO	<u>DY</u> 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	

Secondary DOOR STATIONS

PF	OFILO series	MAT	TRIX series	MO	DY series	Application diagram
X X X X	PL71 PL81 PL91 * PL11P	X X X X	MA71 MAS61 (¹) MA91 * MA11P	X X X X X	MD71 MD81 MD91 * MD11 MD30	When using MD100 , RP100 , UP11 and UP100 amplified external door stations as one-way second- ary door stations, place this diagram on the diagram on page 161 and line it up with the riser. Warning .

• INTERNAL STATIONS

EX310	Exhito series intercom with 2 call buttons
EX320	Exhito series modular intercom
KM810W	Compact series intercom with 1 call butto
ST720W	Studio series modular intercom
PT510EW	Project series intercom with 1 call button
KM810W	Compact series intercom with 1 call bu
ST720W	Studio series modular intercom

• VARIOUS ARTICLES

X 1473	Exchanger
1+X PRS240	Power supply with electronic ringing generator
1+X PA **	Door release push-button (<i>optional</i>)
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

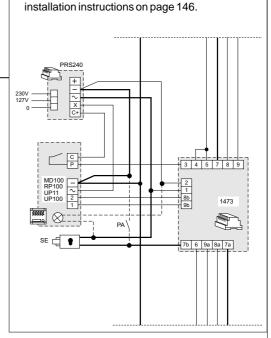
E X

- KM - ST -

P T

- 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.

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- Cut jumper W1 in the RP100 external door stations.

- For alternate current wires refer to note 6 of the

and insulate the yellow wire.

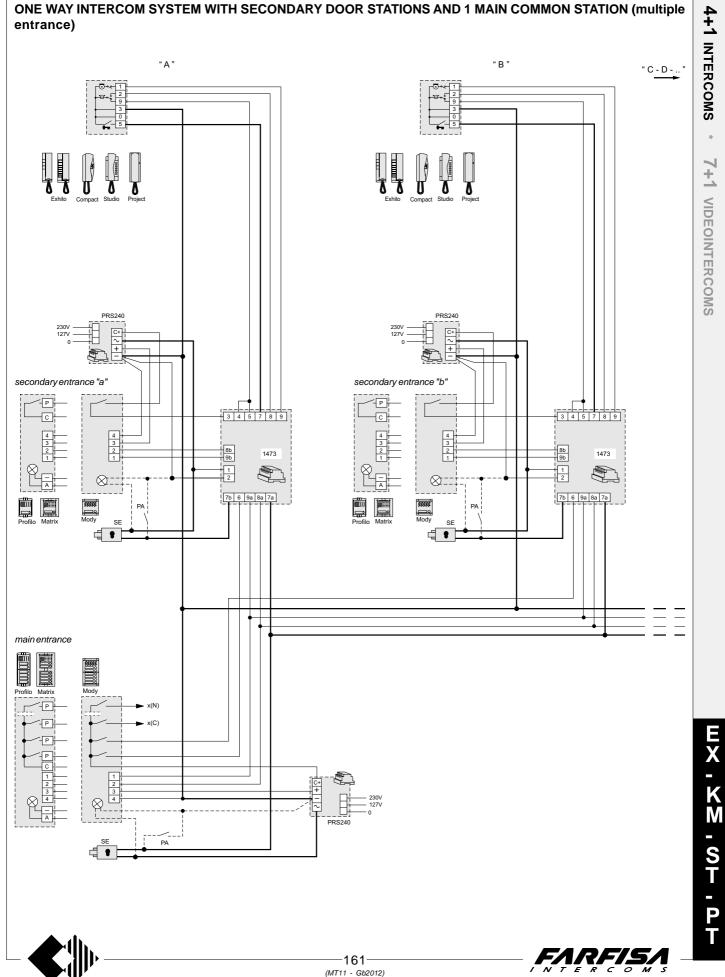
In UP series external door stations do not connect







Si 26MO/2



4+1 INTERCOMS ×-7+1 VIDEOINTERCOMS

Si 27MO/1

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

• EXTERNAL DOOR STATIONS

PROFILO series	MATRIX series	MODY series
PL71÷PL73	MA71÷MA73	MD71÷MD74
2+X PL81÷PL89	2+X MAS61÷MAS63 (1)	2+X MD81÷MD812
2+X PL91÷PL99 *	2+X MA91÷MA93*	2+X MD91÷MD912 *
2+X PL10P÷PL12P	2+X MAS10P÷MAS12P	2+X MD10÷MD124
PL21÷PL228	MAS22-MAS24	MD21÷MD228
PL20, PL50	MAS20	MD20, MD50
-		2+X MD30

• INTERNAL STATIONS

 EX310 EX320 KM810W	Exhito series intercom with 2 call buttons Exhito series modular intercom 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
Х	PRS240	Power supply with electronic ringing generator
1	PRS220	Powersupply
2+X	PA **	Door release push-button (optional)
2+X	SE **	Electric door lock (12VAC-1A)

... Refers to number of users.

- ${f X}$ 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-buttons Profilo and Matrix series can be separated only module by module.

Floor call

This work diagram allows for differentiating the floor-call from the call from the push-button panel.

Floor-button

FP

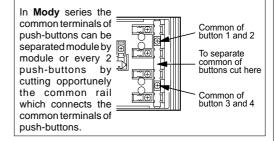
Floor-button

PRS240

0 ST720

9

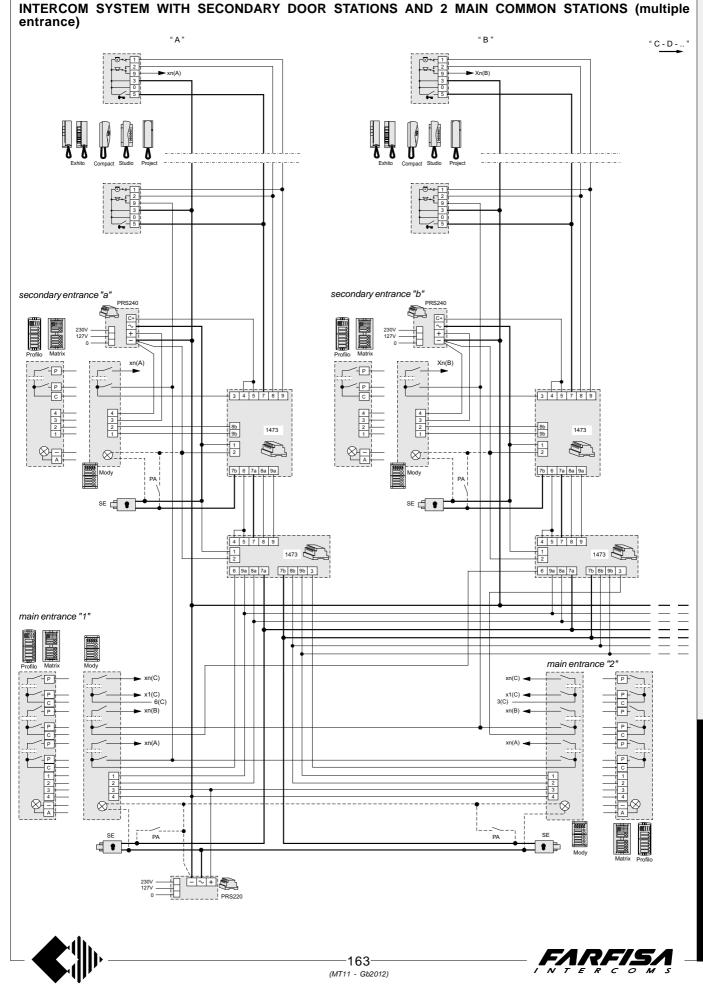
PT510F







Si 27MO/1



Si 200L/7

STUDI ers)	O series INTERC	OMMUNICATING INTERCOMS (2 to 7 us-	COMPA 2 users		RCOMMUNICATING INTERCOMS (max
Q.ty	Article	Description	Q.ty	Article	Description
 1	ST 720W ST 701 PRS226E	Studio series modular intercom Single button module Power supply-switcher	2 2 1	KM810W ST 701 PRS226E	Compact series intercom Single button module Power supply-switcher
Refe	ers to number of us	ers.	Workin	g instructions.	See page 183.
Notes · Do no · Do no	ot use KEY buttor rires dimensioning r	all terminals C of the additional buttons. In for intercommunication calls (5 terminal). efer to the installation instructions and table on	- For wi		n for intercommunication calls (5 terminal) g refer to the installation instructions and
Si 20	00L/8				
EXHIT(ers)	O series INTERC	OMMUNICATING INTERCOMS (2 to 8 us-	users)		COMMUNICATING INTERCOMS (max.
EXHIT(ers) Q.ty		OMMUNICATING INTERCOMS (2 to 8 us- Description Exhito series modular intercom Single button module Power supply-switcher		O series INTERC Article EX310 EX301 PRS226E	COMMUNICATING INTERCOMS (max. Description Exhito series intercom Single button module Power supply-switcher
EXHIT(ers) Q. <i>ty</i> 1	O series INTERC Article EX320 EX301	Description Exhito series modular intercom Single button module Power supply-switcher	users) <u>Q.ty</u> 1	Article EX310 EX301	Description Exhito series intercom Single button module Power supply-switcher
EXHIT(ers) Q.ty 1 Refe	O series INTERC Article EX320 EX301 PRS226E	Description Exhito series modular intercom Single button module Power supply-switcher ers.	users) Q.ty 1 Refe	Article EX310 EX301 PRS226E	Description Exhito series intercom Single button module Power supply-switcher

Table for choosing intercoms and accessories for the required type of installation

Number of inter-	per of inter- Exhito		E	chito	Studi	D	Com	Compact		
communicating	EX320	EX301	EX310	EX301	ST 720W	ST 720W ST 701		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								

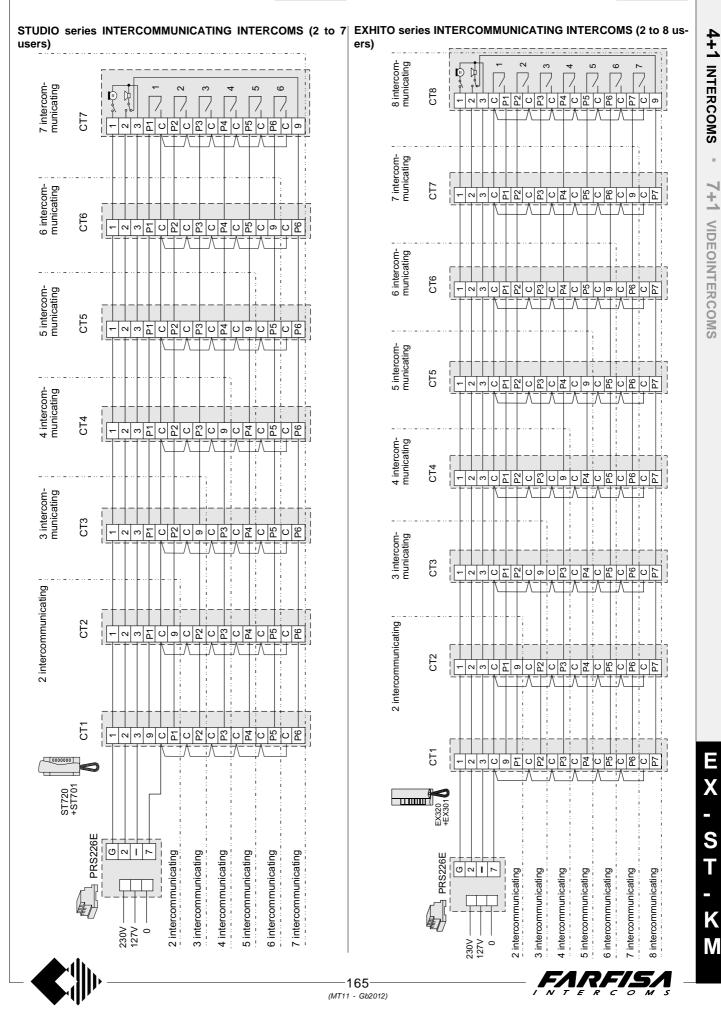


EX-ST-KM



₿₩

Si 200L/7



Si 215L/5

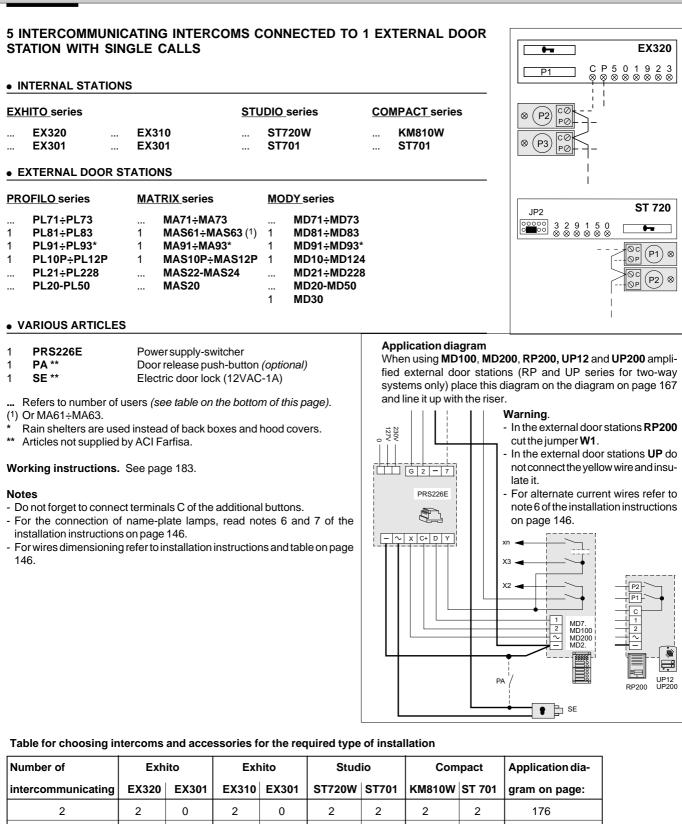
4+1 INTERCOMS

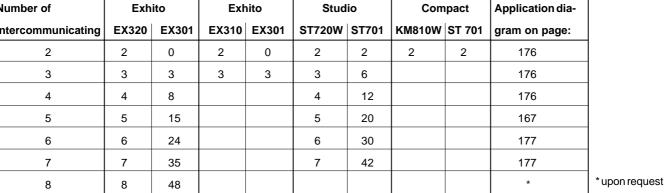
+

VIDEOINTERCOMS

EXHIFO

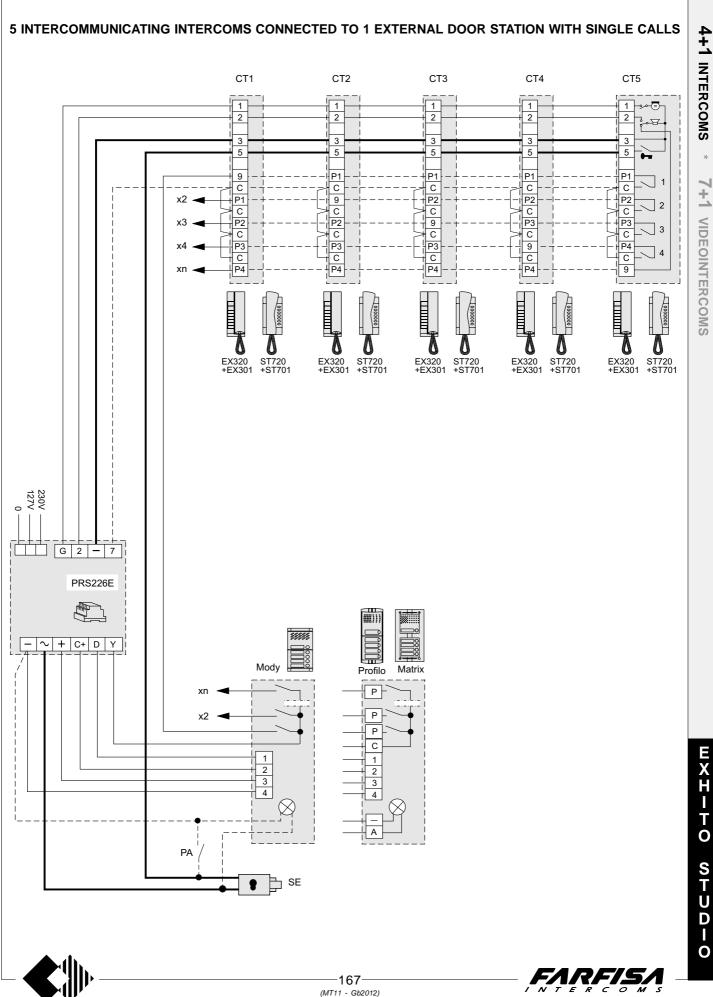
STUDI







Si 215L/5



7+1 VIDEOINTERCOMS

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Si 211L/5

• INTERNAL STATIONS

EXI	<u>HITO</u> series		<u>STI</u>	JDIO series	CO	MPACT series
	EX320	 EX310		ST720W		KM810W
	EX301	 EX301		ST701		ST701
	SR41	 SR41		SR41		SR41

EXTERNAL DOOR STATIONS

Articles not supplied by ACI Farfisa.

Working instructions. See page 183.

installation instructions on page 146.

SR41 electronic buzzer in each intercom.

• VARIOUS ARTICLES

PRS226E

PA **

SE **

(1) Or MA61.

1

1

1

**

Notes

146

PR	OFILO series	MA	ATRIX series	MO	<u>DY</u> 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

Power supply-switcher

... Refers to number of users (see table on the bottom of this page).

Rain shelters are used instead of back boxes and hood covers.

Door release push-button (optional)

Electric door lock (12VAC-1A)

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.

-

P1

0 P3

> JP2

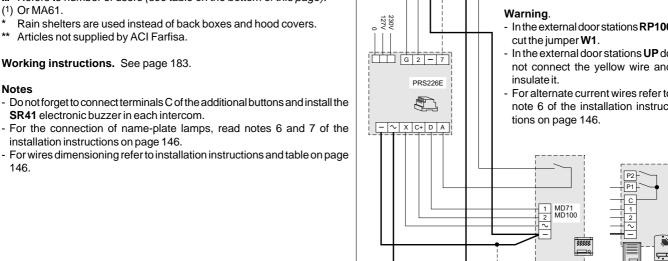
> > Ø 4 Ø 3 SR4

cØ (P2) \otimes

РØ

ce

 $\begin{array}{c} 3 \ 2 \ 9 \ 1 \ 5 \ 0 \\ \otimes \ \otimes \ \otimes \ \otimes \ \otimes \ \otimes \ \end{array}$



- In the external door stations RP100

EX320

 $\begin{array}{c} \otimes \otimes \\ 4 & 3 \end{array}$

SR41

ST 720

(P1) ⊗

-

ØР QС (P2) ⊗

C P 5 0 1 9 2 3 ⊗ ⊗ ⊗ ⊗ ⊗ ⊗ ⊗ ⊗ ⊗

- In the external door stations UP do not connect the yellow wire and
- For alternate current wires refer to note 6 of the installation instruc-

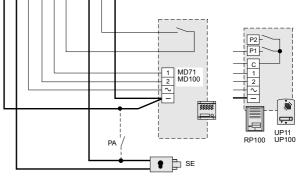
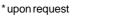
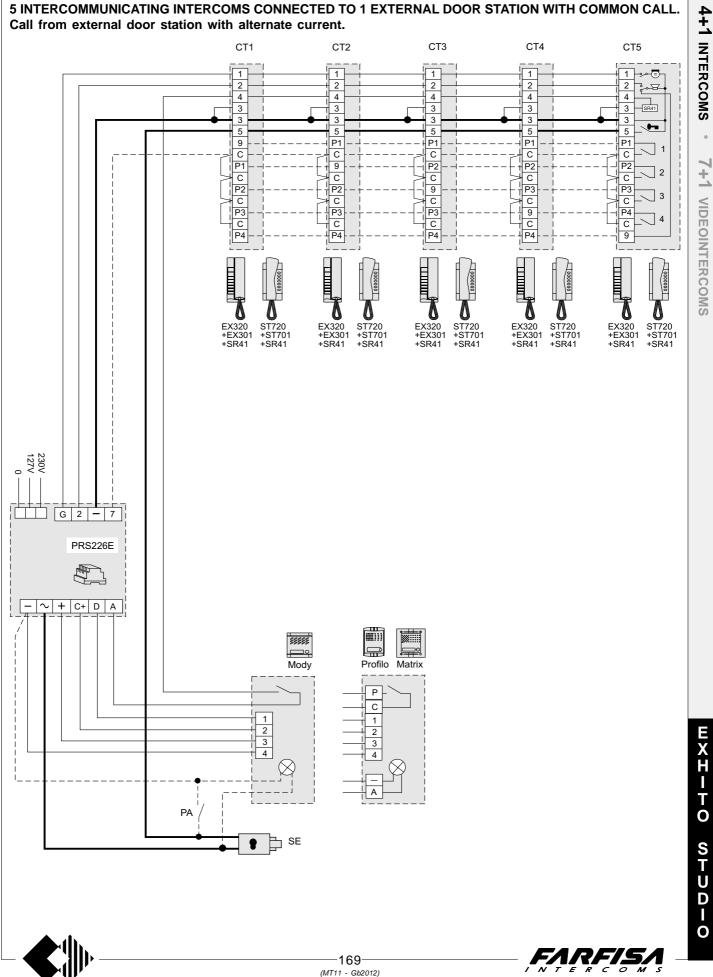


Table for choosing intercoms and accessories for the required type of installation

						•	, , , , , , , , , , , , , , , , , , ,						
N. of interco		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										*







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EXHITO STUDIO

Si 211L/5S

5 INTERCOMMUNICATING INTERCOMS CONNECTED TO 1 EXTERNAL DOOR STATION WITH COMMON CALL

• INTERNAL STATIONS

<u>EX</u> F	<u>IITO</u> series		STU	<u>IDIO</u> series
	EX320	 EX310		ST720W
	EX301	 EX301		ST701
	ST704	 ST704		ST704

• EXTERNAL DOOR STATIONS

PROFILO series 1 PL71 1 PL81 1 PL91 *		MA	TRIX series	MODY 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		



1 1	PRS226E PRS210 RL 37 PA **	Power supply-switcher Transformer Relay module Door release push-button <i>(optional)</i>
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.

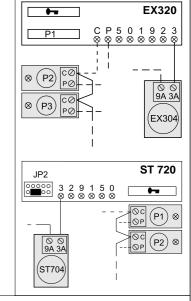
** Articles not supplied by ACI Farfisa.

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.

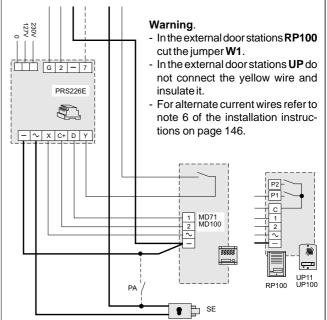


Table for choosing intercoms and accessories for the required type of installation

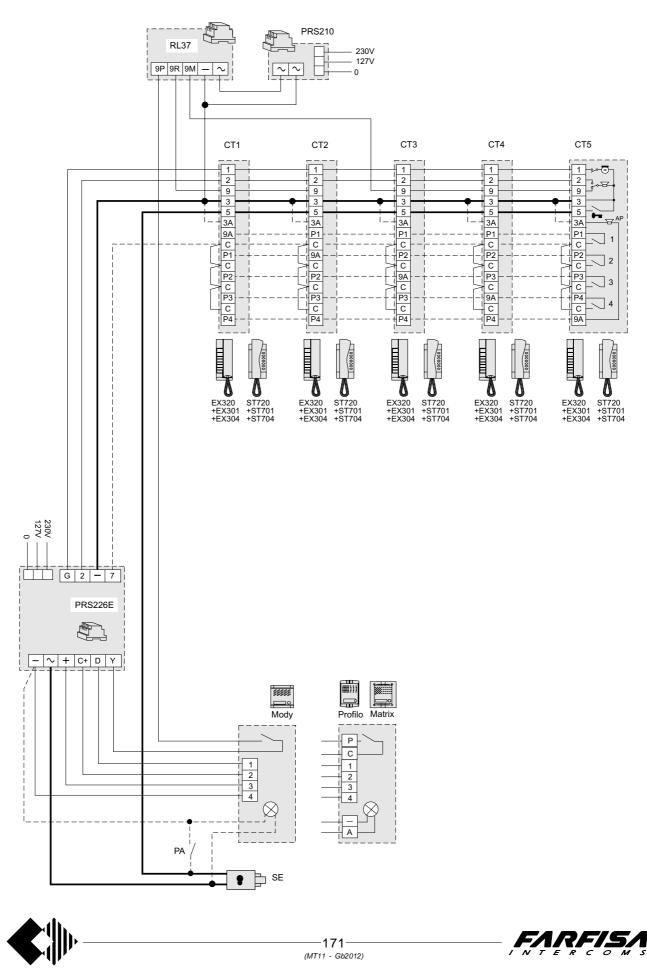
N. of intercom- Exhito			Exhito			Studio			ssories	Application dia-		
municating	EX320	EX301	EX304	EX310	EX301	EX304	ST720W	ST701	ST704	RL37	PRS210	gram on page:
2	2	0	2	2	0	2	2	2	2	0	0	180
3	3	3	3	3	3	3	3	6	3	0	0	180
4	4	8	4				4	12	4	1	1	180
5	5	15	5				5	20	5	1	1	171





Si 211L/5S

5 INTERCOMMUNICATING INTERCOMS CONNECTED TO 1 EXTERNAL DOOR STATION WITH COMMON CALL



EXHITO

STUDIO

Si 221L/5S

5 INTERCOMMUNICATING INTERCOMS CONNECTED TO 2 EXTERNAL DOOR STATIONS WITH COMMON CALL

• INTERNAL STATIONS

<u>EXHI</u>	<u>TO</u> series		<u>STI</u>	JDIO series
	EX320	 EX310		ST720W
	EX301	 EX301		ST701
	ST704	 ST704		ST704

• EXTERNAL DOOR STATIONS

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

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.

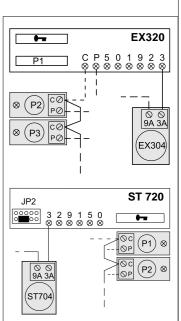
Notes

- 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.

N. of intercom- Exhito			Exhito				Studio			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

Table for choosing intercoms and accessories for the required type of installation

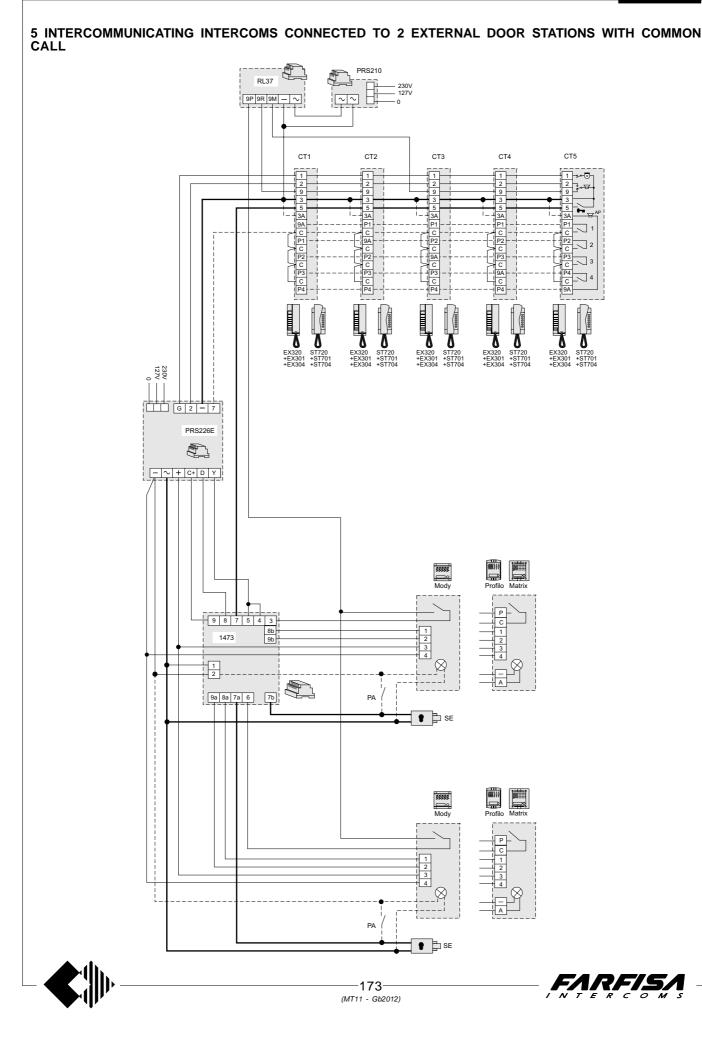




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7+1 VIDEOINTERCOMS

Si 221L/5S



UNTINO ONDIO

Si 261L/1S

PROFILO series

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

• INTERNAL STATIONS

<u>EXH</u>	IITO series		<u>STL</u>	<u>IDIO</u> series
	EX320	 EX310		ST720W
	EX301	 EX301		ST701
	ST704	 ST704		ST704

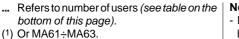
Main EXTERNAL DOOR STATIONS

MATRIX series MODY series ... MA71÷MA73 ... MD71÷MD74

	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				
Secondary EXTERNAL DOOR STATIONS									
PRO	<u>DFILO</u> series	MA	TRIX series	MO	<u>DY</u> series				
				.,					
Х	PL71	Х	MA71	Х	MD71				
X X	PL71 PL81	X X	MA71 MAS61 (¹)	X X	MD71 MD81				
Х	PL81	X	MAS61 (¹)	X	MD81				

VARIOUS ARTICLES

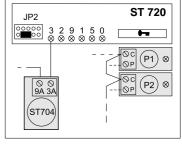
Х	PRS226E	Power supply-switcher
1	PRS220	Powersupply
Х	1473	Exchanger
	PRS210	Transformer
	RL 37	Relaymodule
1+X	PA **	Door release push-button (optional)
1+X	SE **	Electric door lock (12VAC-1A)



- 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 instruc-
- tions 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.



P 5 0 ⊗ ⊗ ⊗ EX320

 $\begin{smallmatrix}1&9&2&3\\\otimes&\otimes&\otimes&\otimes\end{smallmatrix}$

© 0 9A 3A EX304

Working instructions

-

⊗ (P2

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
 - services to secondary door stations are independent and can be operated at the same time.

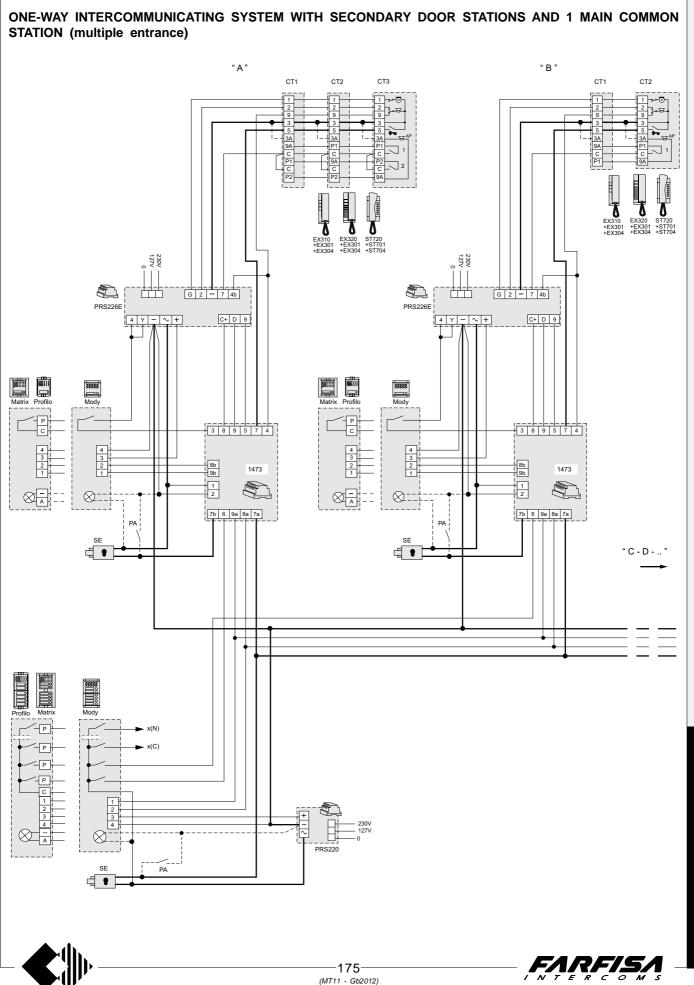
Table for choosing intercoms and accessories for the required type of installation

N. of 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	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





Si 261L/1S



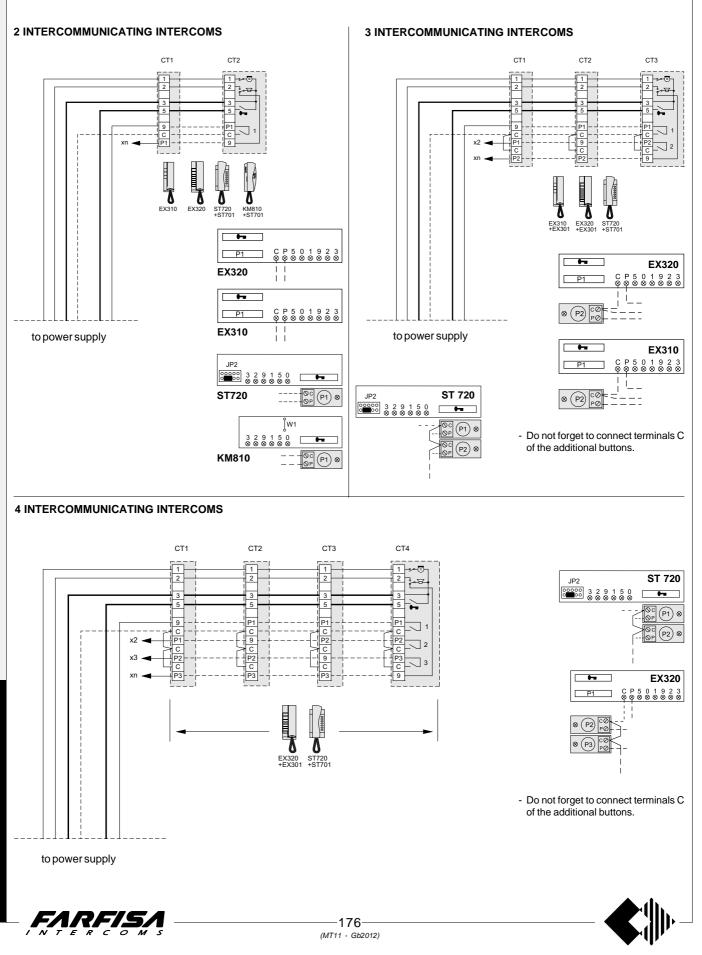
EXHIFO

STUDIO

Application diagrams

APPLICATION DIAGRAMS FOR INTERCOMMUNICATING SYSTEM WITH SINGLE CALL FROM EXTERNAL STATION

- To match with diagrams: Si 215L/5



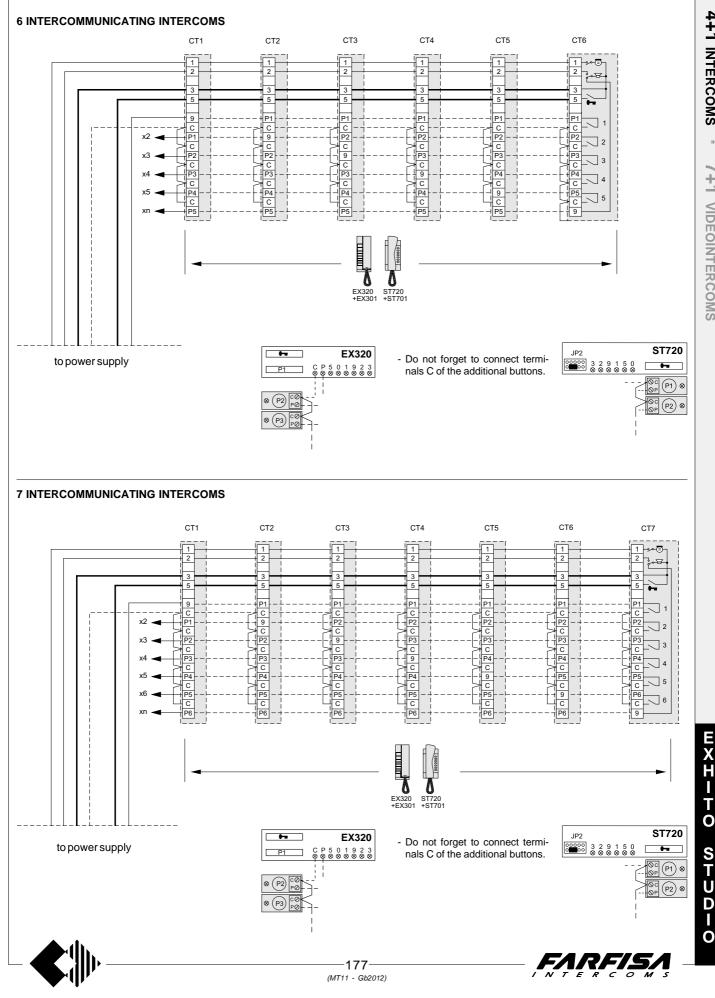
E X

S T

K

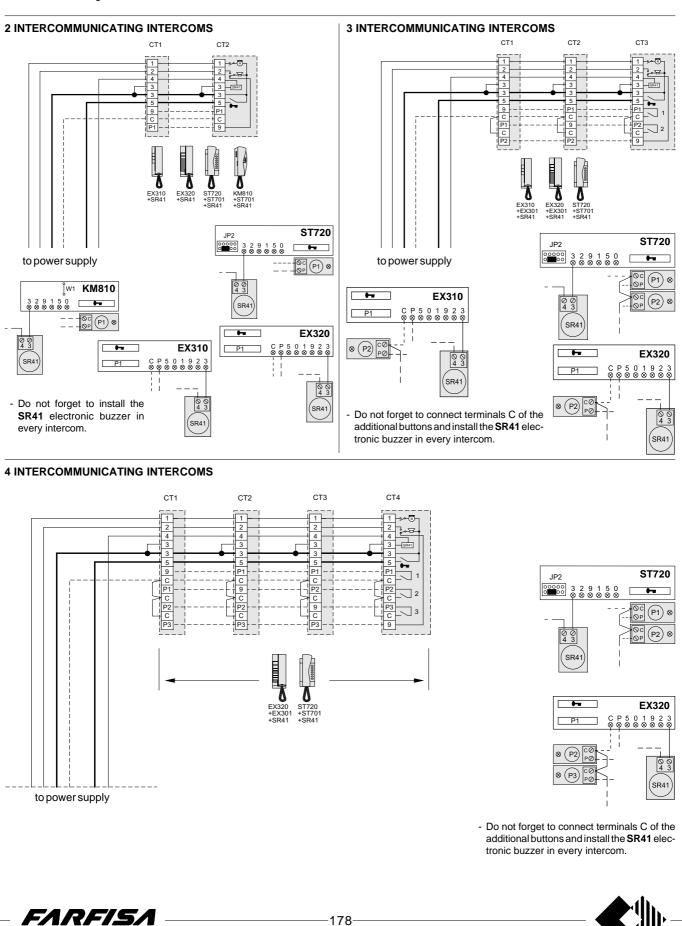
M

Application diagrams



Application diagrams

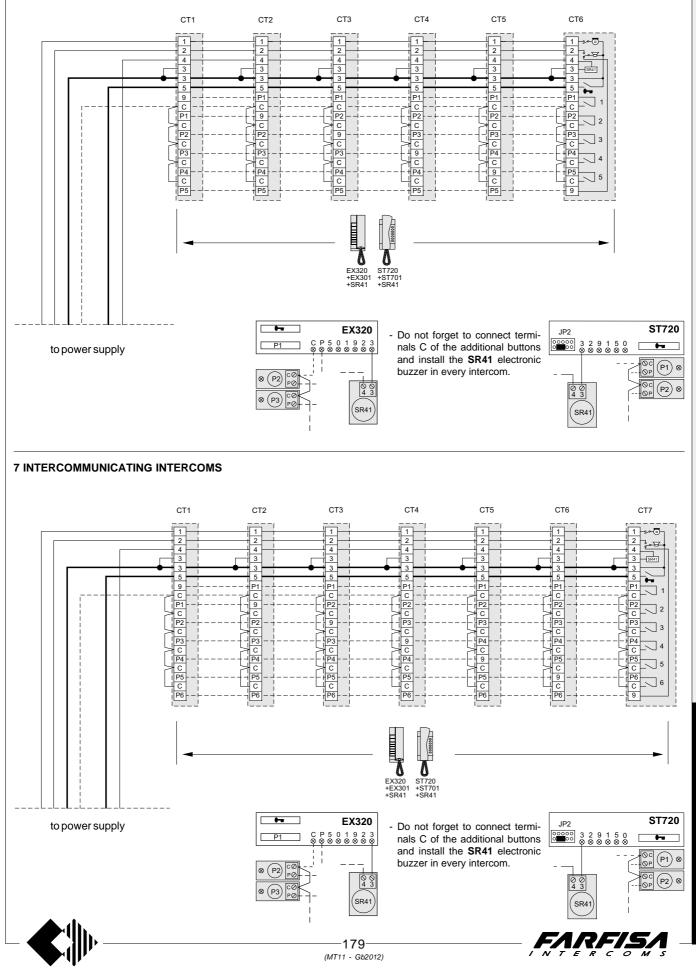
APPLICATION DIAGRAMS FOR INTERCOMMUNICATING SYSTEMS WITH COMMON ALTERNATE CURRENT CALL FROM EXTER-NAL STATION AND ELECTRONIC CALL FOR EXTENSIONS - To match with diagrams Si 211L/5



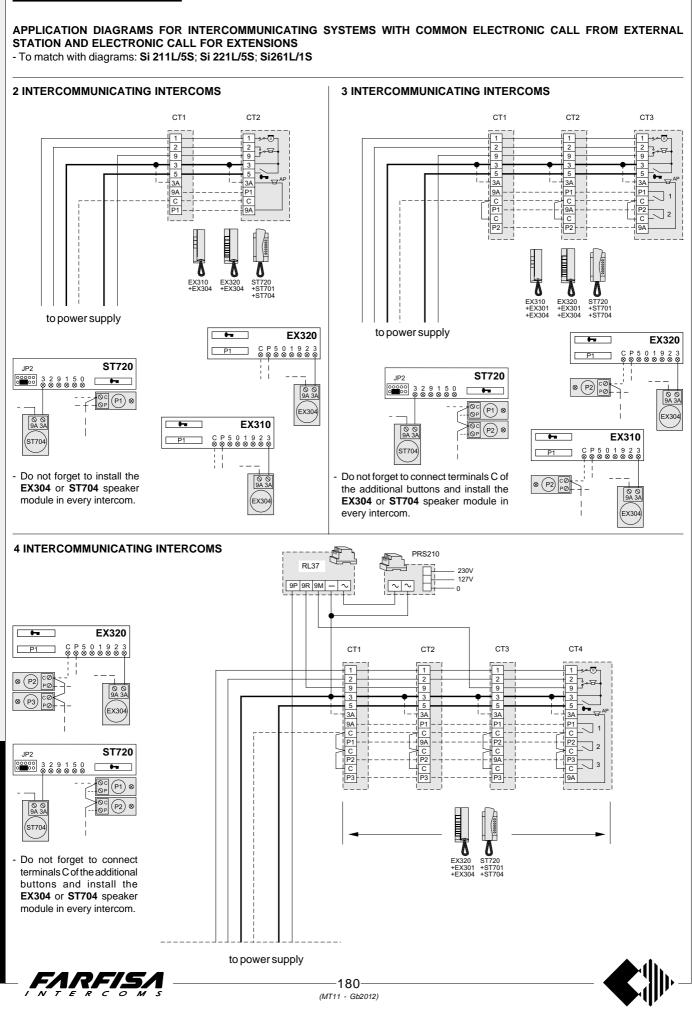
(MT11 - Gb2012)

EX-ST-KE

6 INTERCOMMUNICATING INTERCOMS

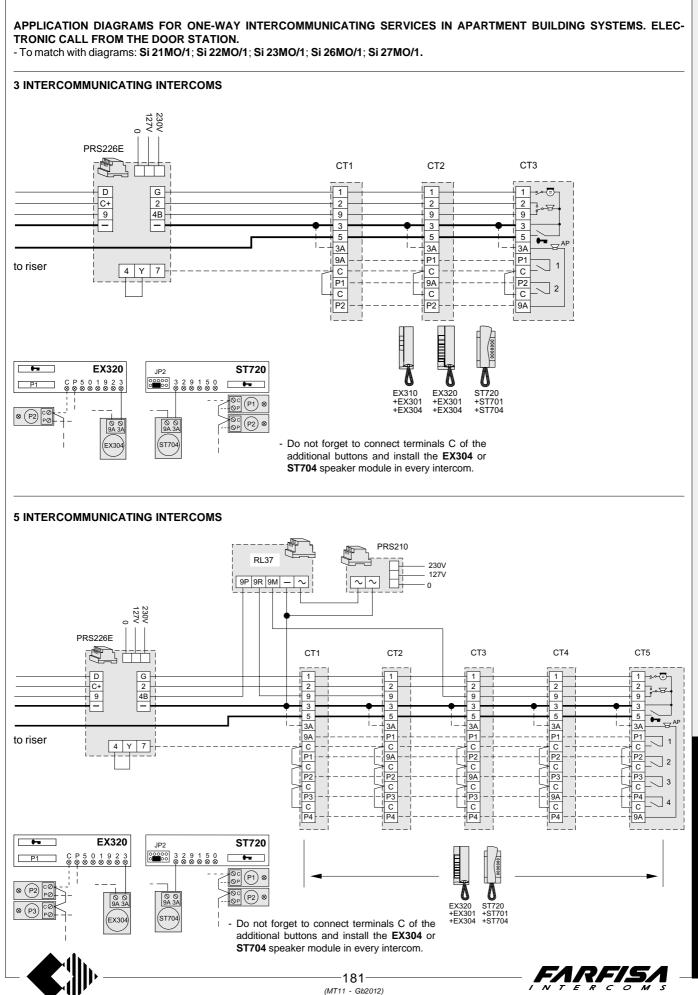


MXI-FO SFJD-O



EXHITO

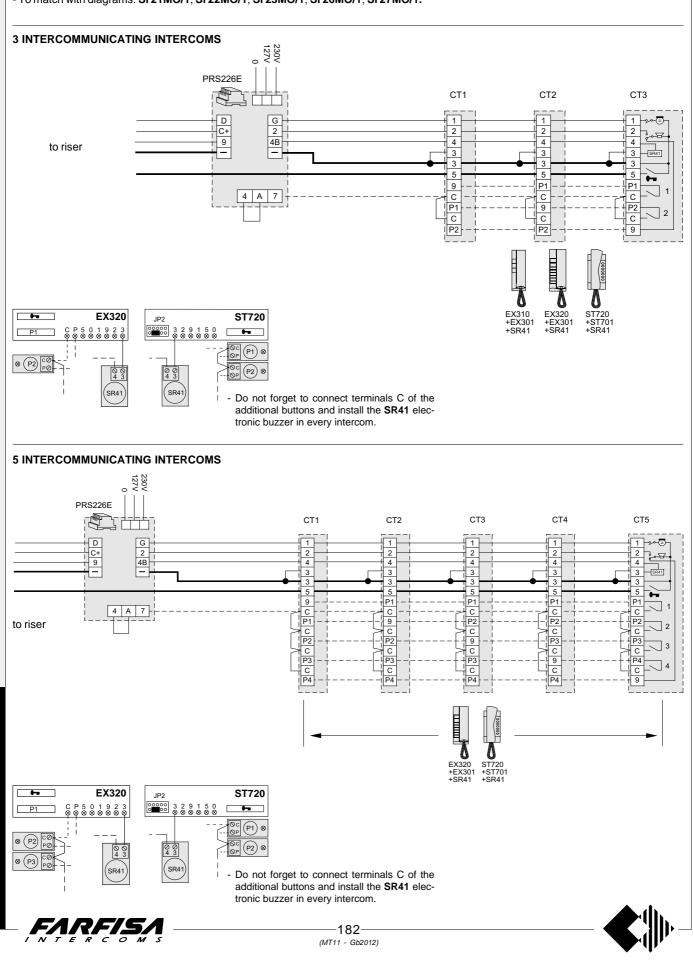
STUDIO



UTTLO OLDTO

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.



EXHITO

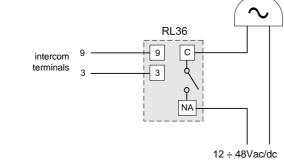
STUDIO

WORKING INSTRUCTIONS

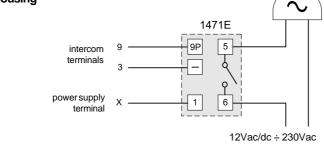
ADDITIONALBELL

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

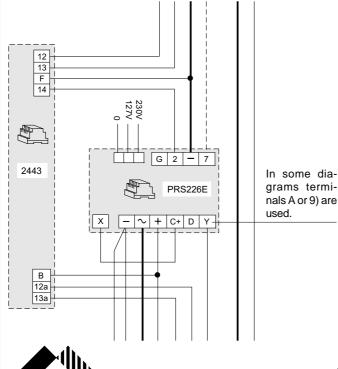


Additional bell enabled by a relay in a DIN housing



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-

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 3(+) and 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 station

Connection 1 from the intercoms to the electric door-speaker has been interrupted or shortcircuited. 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. 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

A whistle is heard at the external door

The electric door-speaker (amplifier) is badly

housed in the push-button panel. The micro-

phone hole of the external door station might be

The defect can occur when there is a transmit-

ter working in the proximity. Apply a capacitor

from 0.1µF between terminals 1 and 3 of the

No audio in both channels. Intercommuni-

Short-circuit between + and - of the power

Calls from the door station work. No audio

in both channels. Intercommunicating ser-

No power supply between 3 (+) and 4 (-) of the

electric door-speaker (8Vdc). Faulty power

No audio from the intercoms to the door

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 inter-

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 door-

The intercommunicating calls work, but

The intercommunicating calls do not work

Check that cable 7 is connected to 7 of the

No audio in the intercommunicating ser-

speaker (amplifier). Faulty power supply.

the door station is still connected

power supply. Faulty power supply.

Faulty power supply.

Faulty power supply.

Radio reception on the door station

INTERCOMMUNICATING SYSTEMS

electric door speaker (amplifier).

cating service is not working

supply. Faulty power supply.

vice is working

supply.

station

coms

vice

station (Larsen effect)

clogged. Lower the volume.

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.

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).

FARFISA -

VIDEO INTERCOM

Installation diagrams

INDEX

Page

Basic install	ation diagrams	186							
- Si 4110/1 One-way video intercom system connected to one external door station (coaxial cable)									
- Si 4110/2	4110/2 One-way video intercom system connected to one external door station (twisted pair)								
- Si 4110/3	Si 4110/3 One-way video intercom system with long distance between video intercom and main power supply (coaxial cable)								
- Si 41MO/1	- 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)	191							
- Si 41MO/3	Mixed intercom and video intercom system connected to one external door station (coaxial cable)	193							
- Si 41MO/5	Video intercom system connected to one external door station with surveillance camera (coaxial cable)	195							
- Si 42MO/1	Video intercom system connected to two external door stations (coaxial cable)	197							
- Si 42MO/2	Video intercom system connected to two external door stations (twisted pair)	199							
- Si 42MO/3	Video intercom system connected to two external door stations, one of which only audio (coaxial cable)	201							
- Si 43MO/1	Video intercom system connected to three external door stations (coaxial cable)	203							
- Si 46MO/1	Video intercom system with secondary video stations and 1 main common video station (coaxial cable)	205							
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- Si 46MO/3	Video intercom system with secondary door stations only audio and 1 main common video station (coaxial cable)	209							
- Si 46MO/5	Video intercom system with secondary video stations and 1 main common station only audio (coaxial cable)	211							
- Si 46MO/7	Video intercom system with one-way secondary door stations only audio and 1 main common video station (coaxial cable)	213							
- Si 46MO/8	Video intercom system with one-way secondary door stations only audio and 1 main common video station (twisted pair)	215							
- Si 47MO/1	Video intercom system with secondary video stations and 2 main common video stations (coaxial cable)	217							
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- additional diagrams for Compact series 2									
- additional diagrams for one-way Exhito series 22									
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- additional diagrams for one-way Studio series 226									
- additional diagrams for multi-way Studio series 228									



Si 4110/1

4+1 INTERCOMS × 7+1 VIDEOINTERCOMS

	th coaxial cable.	TERCO	OM SYSTEM CO	ONNECT	ED TO ONE EX	IERNAL	. DOOR STATION. Video connec
•	NTERNAL STATIONS	;					
ECHOS series EXHITO series		<u>HITO</u> series	COMPACT series		<u>STI</u>	<u>JDIO</u> series	
1	EH9100CT/CW EH9160CT/CW 9083	1	EX3100C EX3160C EX3160	1	KM8100W KM8600W KM8800W	1 1	ST7100CW ST7100W ST720W
1 1	WA9100T/W TA9160	1 1	WB3160 TA3160	1 1	WB8600 8083	1 1 1	WB7100 WB700 TA7100

PR	<u>OFILO</u> series	MA	<u>TRIX</u> series	MO	DY series		power supply-timer instead of
 1 1 1	PL71 PL81 PL91 * PL41PC-PL41P	 1 1	MA71 MAS61 (¹) MA91 * MAS43C-MAS43	 1 1 1	MD72 MD82 MD92 * MD11 MD41	1281 plus 1282E.	By adding 1281E to the sche- matics on pages 186 and 187 (si411O/1, si411O/2 and si411O/3) instead of 1281
• V 1	ARIOUS ARTICLES	3 Powersu Timer	pply	1	MD30		plus 1282E, the installation will be switched OFF at the end of the timing only.

1

1

PA **

SE **

* The rain shelter is used in the place of the back box and hood cover.

Door release button (optional)

Electric door lock (12Vac-1A)

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

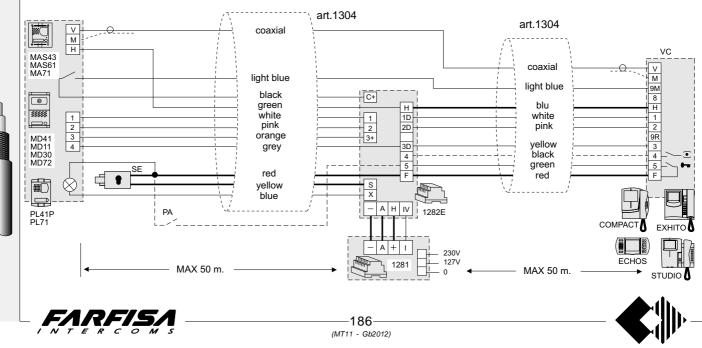
Colour	Cross-s (mm²)	ection AWG			
Red	1	16	White	0.25	23
Yellow	0.5	20	Pink	0.25	23
Blue	0.5	20	Light blue	0.25	23
Black	0.35	21	Grev	0.25	23
Green	0.35	21	75Ω low los	s coaxia	l cable.
Orange	0.35	21			

1281F

230V

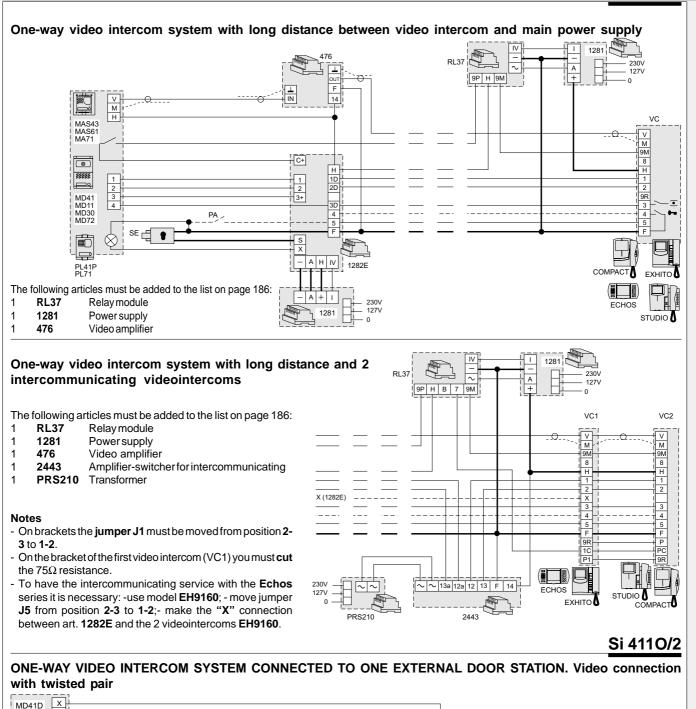
127

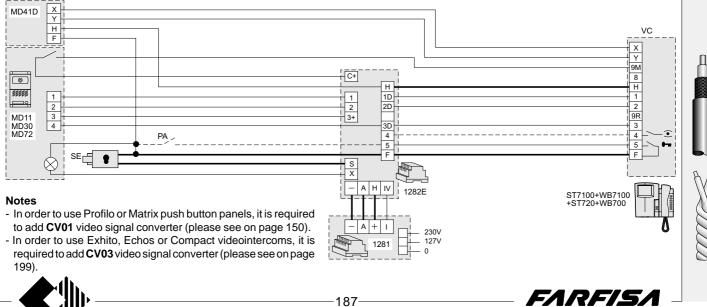
ONE-WAY VIDEO INTERCOM CONNECTION WITH MULTI-CORE CABLE art. 1304



4+1 INTERCOMS

7+1 VIDEOINTERCOMS





(MT11 - Gb2012)

VIDEO INTERCOM SYSTEM CONNECTED TO ONE EXTERNAL DOOR STATION

INTERNAL STATIONS

E	CHOS series	<u>EX</u> F	<u>IITO</u> series	<u>CO</u>	MPACT series	STU	IDIO 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 TA7100 TA700	

• EXTERNAL DOOR STATIONS

PROFILO series			<u>[RIX</u> series	MODY 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	
					MD20, MD50	

• VARIOUS ARTICLES

	DV2-DV4	Video distributors
1	1281	Powersupply
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.

Connection of 1281E power supply-timer

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.

1281E

3+ A

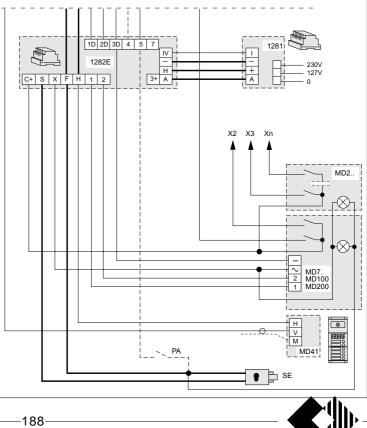
Forsi41mo1 only

- 4 5

instead of 1281 plus 1282E.

230V 127V 0

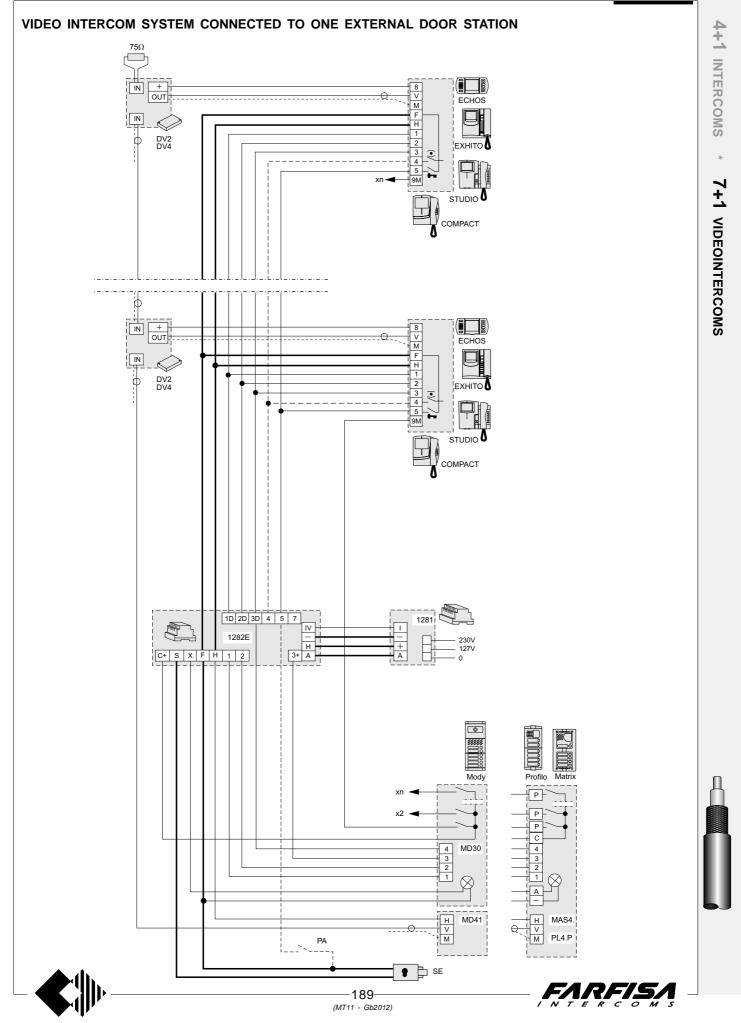
C+SX





INTERCOMS * 7+1 VIDEOINTERCOMS

4+1



VIDEO INTERCOM SYSTEM CONNECTED TO ONE EXTERNAL DOOR STATION

• INTERNAL STATIONS

ECH	IOS series	EXH	HITO series	<u>CO</u>	MPACT series	<u>STU</u>	I <u>DIO</u> series	
 	EH9100CT/CW EH9160CT/CW 9083 WA9100T/W TA9160 CV03		EX3100C EX3160C EX3160 WB3160 TA3160 CV03		KM8100W KM8600W KM8800W WB8600 8083 CV03	 	ST7100CW ST7100W ST720W WB7100 WB700 TA7100	
							TA700	

• EXTERNAL DOOR STATIONS

PROFILO series			<u>FRIX</u> series	MO	MODY 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	MD41D		
1	CV01	1	CV01	1	MD30		
	PL21÷PL228		MAS22-MAS24		MD21÷MD228		
	PL20, PL50		MAS20		MD20, MD50		

VARIOUS ARTICLES

	DV2D-DV4D	Video distributors
1	1281	Powersupply
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 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.

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.

Connection of 1281E power supply-timer

By adding 1281E to the schematics on pages

190 and 191 instead of 1281 plus 1282E, the

- switching-OFF at the end of the timing only - no control switch-ON interruption with the video

relay in order to interrupt conductor 4.

intercoms during external audio-video con-

nection. If the service is necessary, add 1471

system working will modify as follows:

1281E

3+ A

Forsi41mo2 only

- 4 5

instead of 1281 plus 1282E.

230V 127V 0

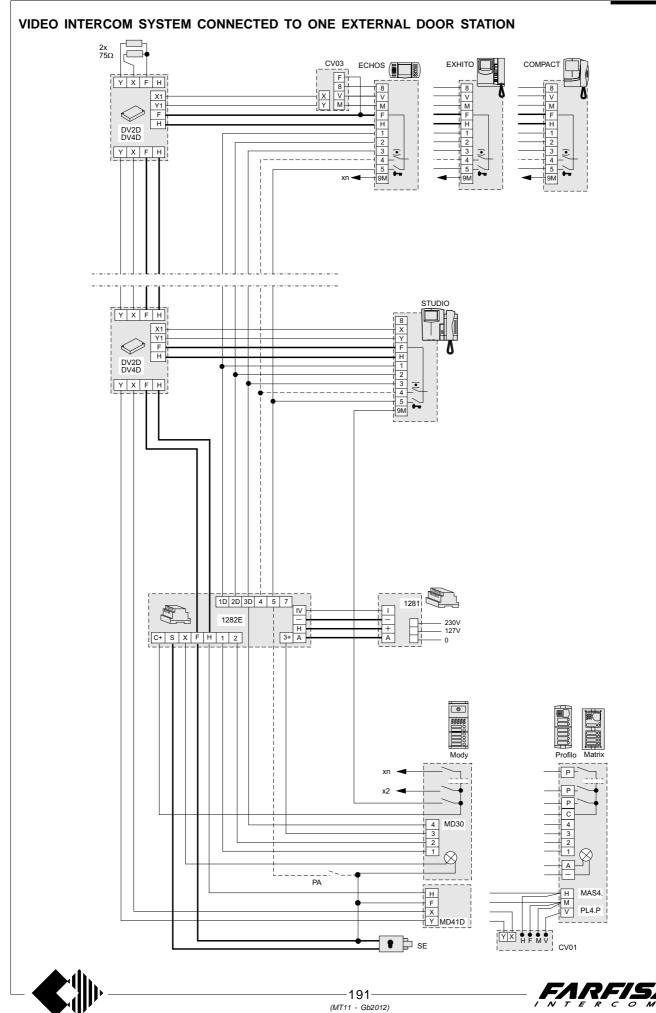
C+SXF

For AC powered wires refer to the indications on page 146.

1D 2D 3D 4 5 7 128 IV Ι 1282E C+ S X 3+ A H 1 2 Х3 Xn X2 MD2 -~ 2 1 MD7. MD100 MD200 ٥ **** H X F PA MD41D 🕈 🔁 SE







MIXED INTERCOM AND VIDEO INTERCOM SYSTEM CONNECTED TO ONE EXTERNAL DOOR STATION

• VIDEOINTERCOMS

	ECHOS series	EXHITO series	COMPACT series	STUDIO 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
1	INTERCOMS			
`	EXHITO series	EXHITO series	COMPACT series	STUDIO series
	EX310	EX320	KM810W	ST720W
	SM50E	SM50E	SM50E	SM50E
	EXTERNAL DOOR STAT	TIONS		
	ROFILO series MATRIX series		MODY 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	

MD41

MD30

MD21÷MD228 MD20, MD50

1

1

...

PL20, PL50VARIOUS ARTICLES

PL40P+PL42P

PL21÷PL228

1 1281 1 1282E 1 PA **	Video distributors Power supply Timer Door release button <i>(optional)</i> 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.

MAS42-MAS43

MAS22-MAS24

MAS20

** Articles not supplied by ACI Farfisa.

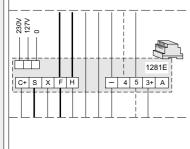
Working instructions. See page 218.

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:

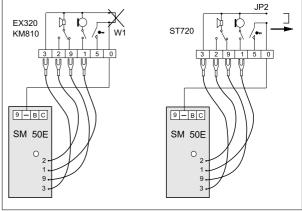
- switching-OFF at the end of the timing only

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.

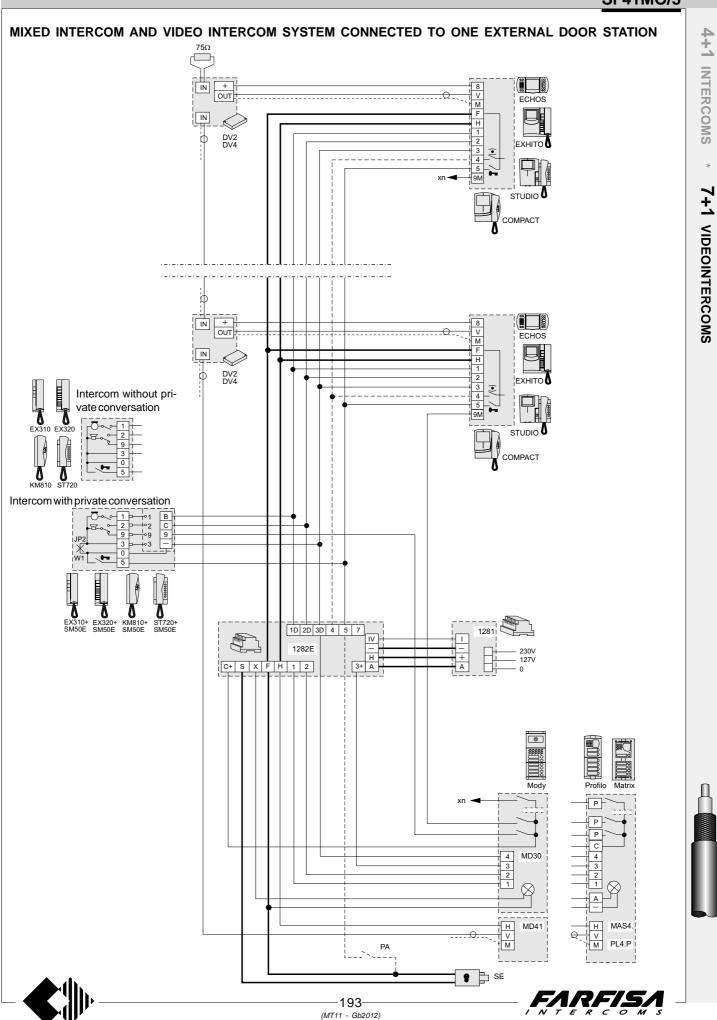
Private conversation

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.







4+1 INTERCOMS

*

4+1 INTERCOMS * 7+1 VIDEOINTERCOMS

VIDEO INTERCOM SYSTEM CONNECTED TO ONE EXTERNAL DOOR STATION WITH SURVEILLANCE CAMERA • INTERNAL STATIONS **ECHOS** series **EXHITO** series **COMPACT** series STUDIO series EH9100CT/CW EX3100C KM8100W ST7100CW ... • • • ... EH9160CT/CW EX3160C KM8600W ST7100W KM8800W **ST720W** 9083 FX3160 ... WA9100T/W **WB3160** WB8600 **WB7100** **TA9160** TA3160 8083 **WB700** TA7100 ... **TA700** ... EXTERNAL DOOR STATIONS **PROFILO** series **MATRIX** series MODY series PL71+PL73 MA71÷MA73 MD72÷MD74 ... PL81÷PL89 MAS61÷MAS63 (1) MD82÷MD812 1 1 PL91÷PL99 ' MA91÷MA93* MD92÷MD912 * 1 1 1 PL10P÷PL12P MAS10P+MAS12P MD10÷MD124 1 1 1 PL21÷PL228 MAS22-MAS24 1 **MD30** PL20, PL50 MAS20 MD21÷MD228 MD20, MD50 • VARIOUS ARTICLES 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 DV2-DV4 Video distributors with the riser. 1 1281 Power supply For AC powered wires refer to the indications on page 146. 1 1282E Timer **Relay unit** 1471 1 TVT. CCTV camera 1 Lens with or without autoiris 1 Н., 1 CU. Outdoor heated housing 1D 2D 3D 4 5 1281 1 AST.. Bracket for camera or housing IV 1282E APS. Power supply for camera 1 C+ S X 1 2 3+ A 1 LL** Lamp with maximum power 800W (optional) PA ** Door release button (optional) 1 SE ** 1 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 þ LL hood cover. ** Articles not supplied by ACI Farfisa. 1471 230\ Working instructions. See page 218. Notes X2 X3 Хп - 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 MD2. stations MODY series with internal devices ECHOS series. - For the connection of name plate lamps read notes 6, 7 and гØл 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. (\mathcal{A}) - For one-way systems connect the coaxial cable to the monitor bracket directly, without using the video distributor. MD7. MD10 MD20 For the selection of CCTV equipment or other types of push-2 button panels see the general catalogue. Connection of 1281E power supply-timer instead of 🕈 🗄 SE 1281 plus 1282E. 127/0 By adding 1281E to the schematics on pages 194 and 195 instead of 1281 plus 1282E, the system working will modify as follows: (FTT) - switching-OFF at the end of the timing only 1281F - 4 5 3+ A C+SX I H

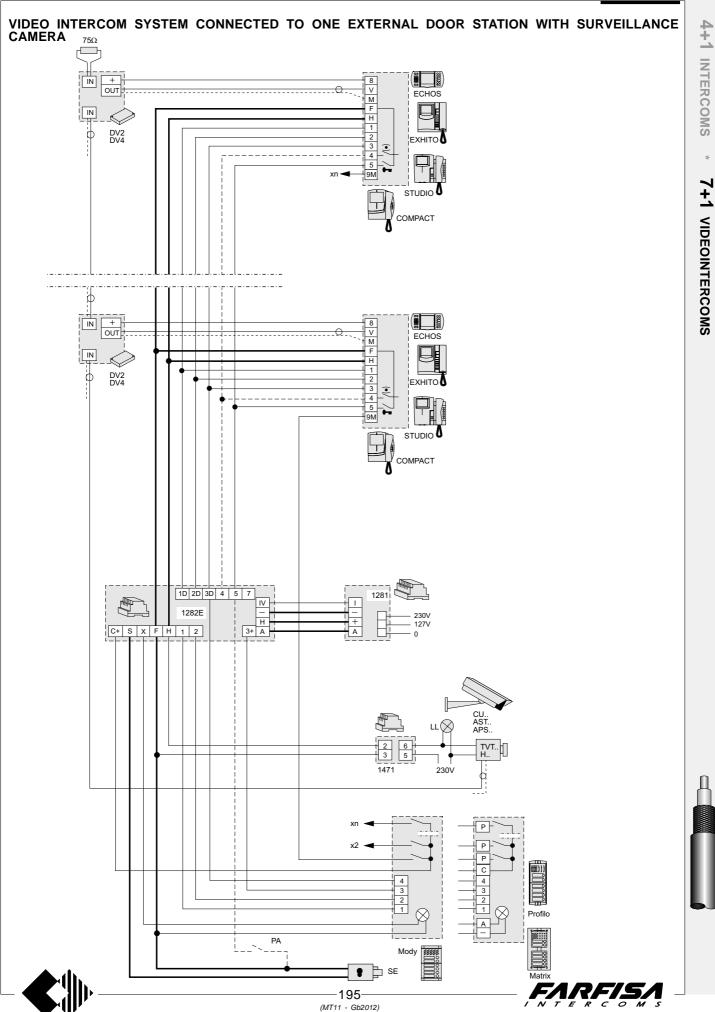
 no control switch-ON interruption with the video intercoms during external audio-video connection. If the service is necessary, add 1471 relay in order to interrupt conductor 4.



only for si41mo5







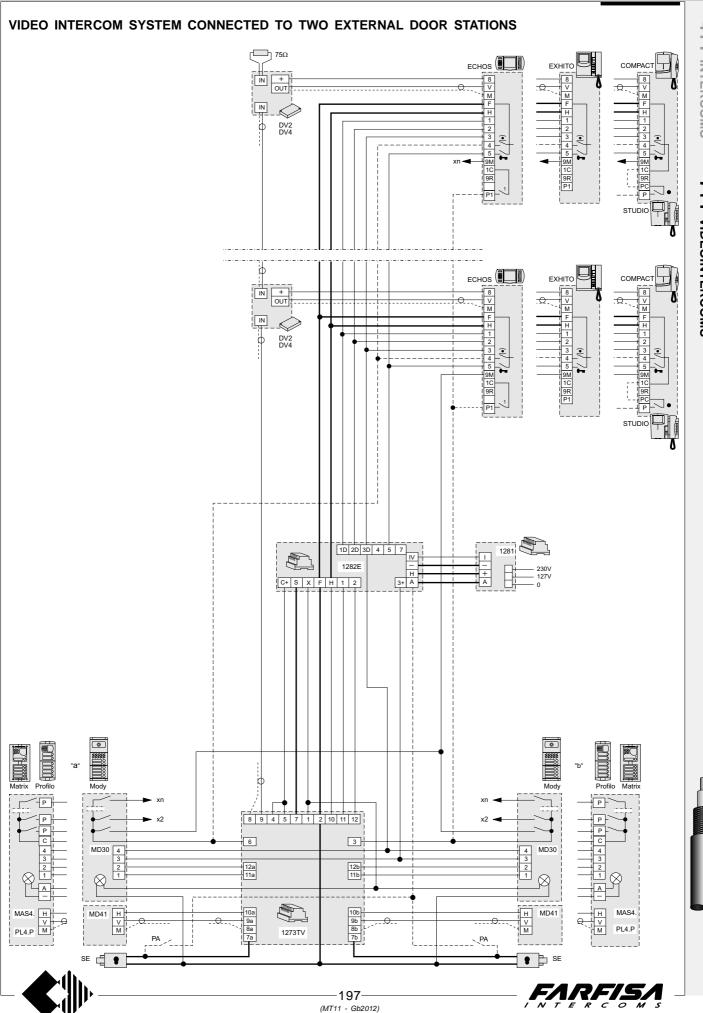
Π

<u>CHOS</u> series	EXHITO series	COMPACT series	STUDIO series
EH9100CT/CW EH9160CT/CW 9083 WA9100T/W TA9160	EX3100C EX3160C EX3160 WB3160 TA3160 STATIONS	KM8100W KM8600W KM8800W WB8600 8083	ST7100CW ST7100W ST720W WB7100 WB700 TA7100 TA700
PROFILO series	MATRIX series	MODY series	
PL71÷PL73 PL81÷PL89 PL91÷PL99 * PL40PC÷PL42P PL40P÷PL42P PL21÷PL228 PL20, PL50	MA71÷MA73 MAS61÷MAS6 2 MA91÷MA93*	MD72÷MD74 3 (1) 2 MD82÷MD812 2 MD92÷MD912 * 43C 2 MD10÷MD124 3 2 MD41 4 2 MD30 MD21÷MD228	Connection of 1281E power supply-time instead of 1281 plus 1282E.
VARIOUS ARTICLE	S	MD20, MD50	C+ S X F H - 4 5 3+ A
DV2-DV4 1281 1282E 1273TV PA ** SE ** Refers to number of Or MA61÷MA63. The rain shelter is us * Articles not supplied	ed in the place of the back bo	Aj	By adding 1281E to the schematics on pag 197 instead of 1281 plus 1282E, the syster working will modify as follows: - switching-OFF at the end of the timing only
	,		
Vorkina instructions			
as the basic system de The audio-video funct station which has mad call from another entr	scribed on page 218, with the ions and door lock opening are le the call (or control switching	following variations: automatically switched to the do (ON) and remain in this state until	a conversation and to keep it only when the system in standby, it is necessary to install a 2-exchan relay (type 1472) and connect it as shown on t
s the basic system de The audio-video funct station which has mad call from another entra lotes If monitoring function - <i>Echos</i> series - verify position 2-3;	scribed on page 218, with the ions and door lock opening are le the call (or control switching ance is received. s required it is necessary to co v that jumper J5 , located on t	a automatically switched to the do (ON) and remain in this state until onnect the dashed conductors an he back of videointercom, is in th	To deactivate the monitoring function during t conversation and to keep it only when the system in standby, it is necessary to install a 2-exchan relay (type 1472) and connect it as shown on t diagram.
s the basic system de The audio-video funct station which has mad call from another entra- lotes If monitoring function - Echos series - verify position 2-3; - Exhito series (possi - Compact series - com For audio compatibiliti internal devices ECH For the connection of	scribed on page 218, with the ions and door lock opening are le the call (or control switching ance is received. y that jumper J5 , located on t bility of monitoring only the "a innect together terminals 1C ect together terminals 1C and y we do not suggest to conne OS series. f name plate lamps read not	a automatically switched to the do (ON) and remain in this state until onnect the dashed conductors an he back of videointercom, is in th " entrance); and PC on the wall bracket;	To deactivate the monitoring function during t conversation and to keep it only when the system in standby, it is necessary to install a 2-exchan relay (type 1472) and connect it as shown on t diagram. d:
s the basic system de The audio-video funct station which has mad call from another entra- lotes If monitoring function - <i>Echos series</i> - verify position 2-3; - <i>Exhito series</i> - con - <i>Studio series</i> - con For audio compatibiliti internal devices ECH For the connection of instructions on page For wires dimensionin table on pages 146÷1 For one-way systems using the video distrib	scribed on page 218, with the ions and door lock opening are le the call (or control switching ance is received. s required it is necessary to co that jumper J5 , located on t bility of monitoring only the "a nnect together terminals 1C and y we do not suggest to conner OS series. If name plate lamps read no 46. ng and video connection refer 48. connect the coaxial cable to t utor.	e automatically switched to the do (ON) and remain in this state until onnect the dashed conductors an he back of videointercom, is in th " entrance); and PC on the wall bracket; d PC on the wall bracket; ct door stations MODY series wi otes 6, 7 and 8 of the installation to the installation instructions ar he monitor bracket directly, witho	To deactivate the monitoring function during t conversation and to keep it only when the system in standby, it is necessary to install a 2-exchan relay (type 1472) and connect it as shown on t diagram. d: ne th pn d
The audio-video funct station which has made call from another entra- lotes If monitoring function - <i>Echos series</i> - verify position 2-3; - <i>Exhito series</i> - con - <i>Studio series</i> - con For audio compatibiliti internal devices ECH For the connection of instructions on page For wires dimensioning table on pages 146÷1 For one-way systems using the video distribution	scribed on page 218, with the ions and door lock opening are le the call (or control switching ance is received. s required it is necessary to co that jumper J5 , located on t bility of monitoring only the "a nnect together terminals 1C and y we do not suggest to conner OS series. If name plate lamps read no 46. ng and video connection refer 48. connect the coaxial cable to t	e automatically switched to the do (ON) and remain in this state until onnect the dashed conductors an he back of videointercom, is in th " entrance); and PC on the wall bracket; d PC on the wall bracket. ct door stations MODY series wi otes 6, 7 and 8 of the installation to the installation instructions ar he monitor bracket directly, witho ral catalogue.	To deactivate the monitoring function during t conversation and to keep it only when the system in standby, it is necessary to install a 2-exchan relay (type 1472) and connect it as shown on t diagram. d: the th on th diagram. th





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4+1 INTERCOMS * 7+1 VIDEOINTERCOMS

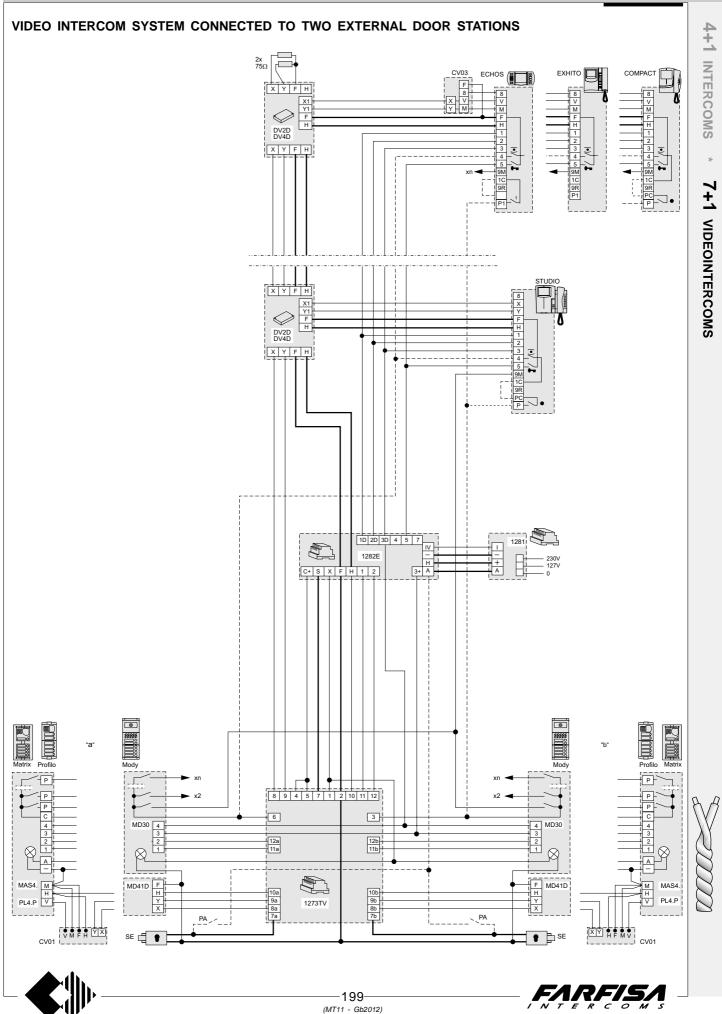
VIDEO INTERCOM SYSTEM CONNECTED TO TWO EXTERNAL DOOR STATIONS

	HOS series	<u>EX</u> H	ITO series	<u>CO</u> N	<u>IPACT</u> series	STUDIO series
 	EH9100CT/CW EH9160CT/CW 9083 WA9100T/W TA9160 CV03 XTERNAL DOOR S	 	EX3100C EX3160C EX3160 WB3160 TA3160 CV03	 	KM8100W KM8600W KM8800W WB8600 8083 CV03	ST7100CW ST7100W ST720W WB7100 WB700 TA7100 TA700
	OFILO series	МАТ	RIX series	мог	DY series	
	PL71÷PL73 PL81÷PL89 PL91÷PL99 * PL40PC÷PL42P PL40P÷PL42P PL21÷PL228 PL20, PL50 CV01 ARIOUS ARTICLE5	 2 2 	MA71÷MA73 MAS61÷MAS63 (¹) MA91÷MA93* MAS42C-MAS43C MAS42-MAS43 MAS22-MAS24 MAS20 CV01	 2 2 2 2 2 2 2 	MD72÷MD74 MD82÷MD812 MD92÷MD912 * MD10÷MD124 MD41 MD30 MD21÷MD228 MD20, MD50	Connection of 1281E power supply-time instead of 1281 plus 1282E.
-	DV2D-DV4D 1281 1282E 1273TV PA ** SE **	Video dist Power sup Timer Exchanger Door relea	ply			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.
sta Sta	ne audio-video functio	ons and doo e the call (or	bage 218, with the follow or lock opening are auto r control switching ON) a ived.	matical	ly switched to the door	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.
- E - E - C - C -	monitoring function is Echos series - verify bosition 2-3 ; Exhito series (possib Compact series - confect or audio compatibility ternal devices ECHC for the connection of structions on page 14 or wires dimensioning ble on pages 146 an	that jumpe illity of mon nect togethe v we do not OS series. name plat 46. g and video d 149.	is necessary to connec r J5, located on the ba- itoring only the "a" entra her terminals 1C and P r terminals 1C and PC of suggest to connect doo te lamps read notes 6 o connection refer to the nels see the general car	ck of vie ance); C on th on the v or static , 7 and e install	deointercom, is in the e wall bracket; vall bracket. ons MODY series with d 8 of the installation ation instructions and	$\begin{bmatrix} 13 & 7 & 3 \\ 13 & 7 & 3 \\ 0 & 0 & -1 \\ 11 & 5 & 2 \\ 11 & 5 & 2 \\ -1 & -1 & -1 \\ -1 & -1 & -1 \\ -1 & -1 &$
n lf o -	connection of 2 door eous opening it is necessary to ope f the system at the sa add a 12Vac trans power (type PRS21 add a 12Vac relay (t make the connection	erate the 2 ame time, yo former with 0) type 1471)	12 door locks 12 ou must: h suitable	82E - F 81E - F	s A 5	PRS210





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VIDEO INTERCOM SYSTEM CONNECTED TO TWO EXTERNAL DOOR STATIONS, ONE OF WHICH ONLY AUDIO

INTERCOMS	
*	
7+1	
VIDEOINTERCOMS	

4+

CHO	S series	EXH	ITO series	CON	IPACT series	STI	UDIO series
	EH9100CT/CW EH9160CT/CW 9083 WA9100T/W TA9160 ERNAL DOOR S	··· ···	EX3100C EX3160C EX3160 WB3160 TA3160	 	KM8100W KM8600W KM8800W WB8600 8083	 	ST7100CW ST7100W ST720W WB7100 WB700 TA7100 TA700
	ILO series		<u>RIX</u> series	MOE	<u>)Y</u> series		[
	PL71÷PL73 PL81÷PL89 PL91÷PL99 * PL40PC÷PL42P(PL40P÷PL42P MA10P÷12P PL21÷PL228 PL20, PL50	 2 C 1 1 	MA71÷MA73 MAS61÷MAS63 (¹) MA91÷MA93 * MAS42C-MAS43C MAS42-MAS43 MAS10P÷MAS12P MAS22-MAS24 MAS20	 2 2 2 1 2 	MD72÷MD74 MD82÷MD812 MD92÷MD912 * MD10÷MD124 MD41 MD30 MD21÷MD228 MD20, MD50		Connection of 1281E power supply-time instead of 1281 plus 1282E.
VAF	NOUS ARTICLES	5					C+ S X F H - 4 5 3+ A
. Ref	1281 1282E 1473 PA **	Electric do	ply				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
* Arti Vorki s the The a	cles not supplied b ng instructions. basic system desc audio-video functio	y ACI Farf cribed on p ons and doo	ace of the back box and isa. page 218, with the follow or lock opening are autor d remain in this state unti	ving va natical	riations: y switched to the door	To cor	ntrol switching ON deactivation deactivate the monitoring function during the oversation and to keep it only when the system standby, it is necessary to install a relay (type)
Is real lotes If the For a intern For t instru For v table using	ceived. control switching (audio compatibility nal devices ECHO the connection of uctions on page 14 vires dimensioning on pages 146÷14 one-way systems co g the video distribut	ON is nece we do not S series. name plat 6. g and video 8. onnect the tor.	ssary, connect terminal suggest to connect doo te lamps read notes 6, o connection refer to the coaxial cable to the mor nels see the general cat	4 of the r static 7 and install	e timer (dashed wire). ns MODY series with I 8 of the installation ation instructions and acket directly, without	147	71 or 1472) and connect it as shown on the s
neo	nnection of 2 door us opening s necessary to ope le system at the sa	erate the 2 (128 door locks	32E - F 31E - F	to 5 of the video	interco	PRS210

- make the connections as shown in the diagram below.

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SE

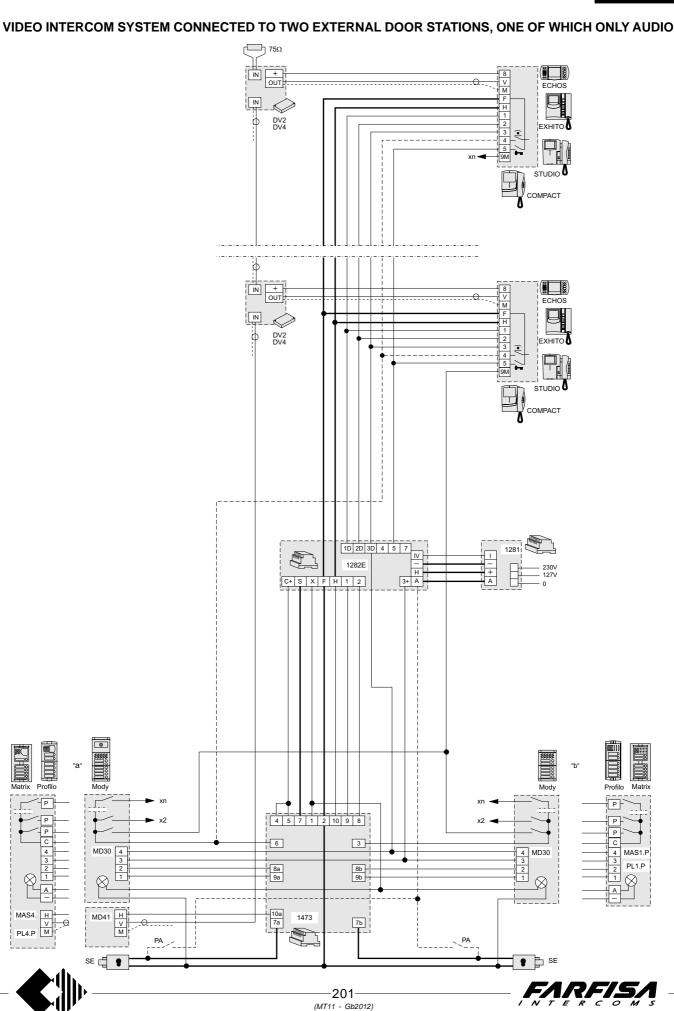


PA

1471

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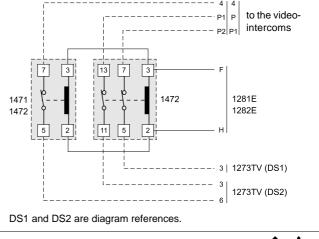
SE



Si 43MO/1

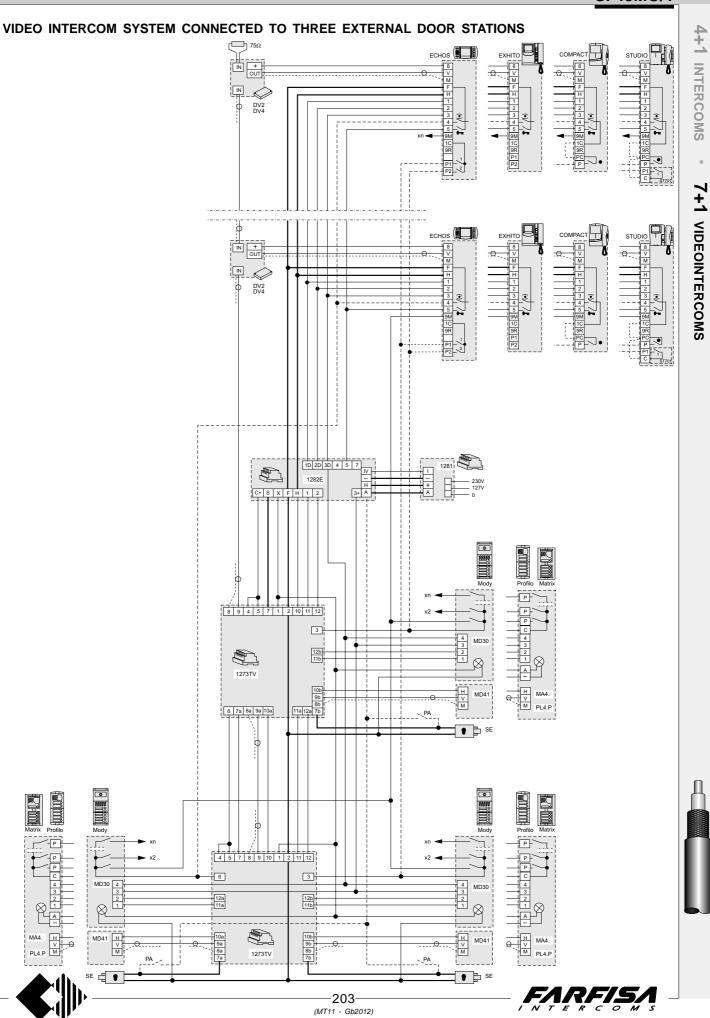
ECH	OS series	EXH	ITO series	CON	IPACT series	<u>STI</u>	<u>UDIO</u> series
 	EH9100CT/CW EH9160CT/CW 9083 WA9100T/W TA9160 (TERNAL DOOR ST	 	EX3100C EX3160C EX3160 WB3160 TA3160	 	KM8100W KM8600W KM8800W WB8600 8083	 	ST7100CW ST7100W ST720W WB7100 WB700 TA7100 TA700
	FILO series		RIX series	МОГ	Y series		
 3 3 3 	PL71÷PL73 PL81÷PL89 PL91÷PL99 * PL40PC÷PL42PC PL40P÷PL42P PL21÷PL228 PL20, PL50	 3 3 	MA71÷MA73 MAS61÷MAS63 (1) MA91÷MA93* MAS42C-MAS43C MAS42-MAS43 MAS22-MAS24 MAS20	 3 3 3 3 3 	MD72÷MD74 MD82÷MD812 MD92÷MD912 * MD10÷MD124 MD41 MD30 MD21÷MD228 MD20, MD50		
• V/	ARIOUS ARTICLES						
 1 2 3 3	1281 P 1282E T 1273TV E PA ** D		oply				Connection of 1281E power supply-time instead of 1281 plus 1282E.
(1) C * TI ** A Wor As th - Th wh ent	efers to number of use or MA61÷MA63. The rain shelter is used rticles not supplied by king instructions. The basic system descr the audio-video function ich has made the call (or trance is received.	ers. I in the pla ACI Farl ribed on p	ace of the back box and	ving va	riations: y switched to the dooi		By adding 1281E to the schematics on page 203 instead of 1281 plus 1282E, the system working will modify as follows:
da: - E - E - C - C - S	nonitoring function is shed conductors and: chos series - verify deointercom, is in the xhito series (possibiliti compact series (possibilities connect together term tudio series - connect to cacket.	that jum position ty of mon bility of m inals 1C together	itoring only the "a" entra onitoring the "a" and "b" e and PC on the wall brac terminals 1C, PC and C c	e back nce); entranc ket; on the w	of es all Control switc To deactivate keep it only wh	the moni en the sy	- switching-OFF at the end of the timing only N deactivation itoring function during the conversation and ystem is in standby, it is necessary to install a 1472) and connect it as shown on the diagram
MC - Fo ins - Fo ins	DDY series with intern r the connection of nar tallation instructions o r wires dimensioning a tructions and table on	al device me plate on page 1 ind video i pages 1	lamps read notes 6, 7 ar 46. connection refer to the in	nd 8 of t Istallati	he on	3 1 13	$\begin{array}{c c}$

- 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.





Si 43MO/1



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

INTERNAL STATIONS

ECI	HOS series	EX	<u>HITO</u> series	CO	MPACT series	<u>ST</u>	JDIO 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

EXTERNAL DOOR STATIONS

PRO	FILO series	MAT	<u>RIX</u> series	MOD	<u>Y</u> series
 1+X	PL71÷PL73 PL81÷PL89	 	MA71÷MA73 MAS61÷MAS63 (1)	 1+X	MD72÷MD74 MD82÷MD812
1+X	PL91÷PL99 *	1+X	MA91÷MA93*	1+X	MD92÷MD912 *
1+X	PL40PC÷PL42PC	1+X	MAS42C-MAS43C	1+X	MD10÷MD124
	PL40P÷PL42P		MAS42-MAS43	1+X	MD41
	PL21÷PL228		MAS22-MAS24	1+X	MD30
	PL20, PL50		MAS20		MD21÷MD228
					MD20, MD50

• VARIOUS ARTICLES

	DV2-DV4	Video distributors
1+X	1281	Power supply
1+X	1282E	Timer
Х	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.

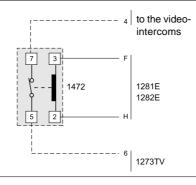
- As the basic system described on page 218, with the following variations:
- The audio-video functions and door lock opening are automatically switched to the door station which has made the call (or control switching ON) and remain in this state until a call from another entrance is received.
- Services 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.
- 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

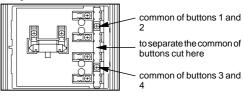
To deactivate the monitoring function during the conversation and to keep it only when the system is in standby, it is necessary to install a relay (type 1471 or 1472) and connect it as shown on the diagram.



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.

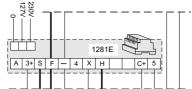
Mody series button module

TA700



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

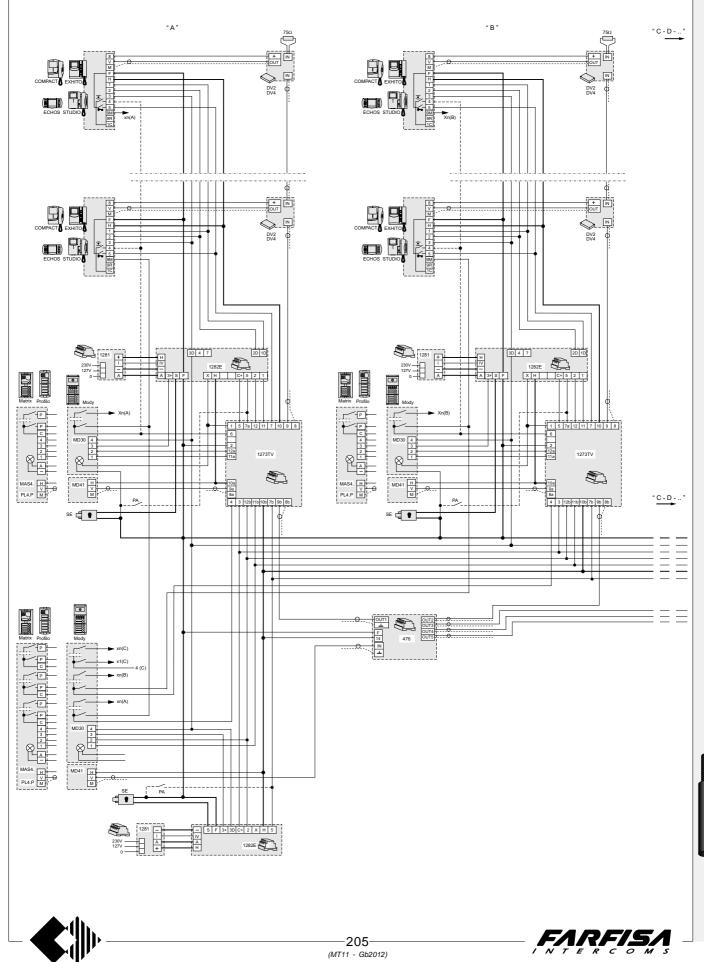


look of your own entrance when the door look of the main entrance is activated. On the contrary when the door lock of your own entrance is activated the door look of the main entrance is not activated.





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)

MODY series

1+X

1+X

1+X

1+X

1+X

MD72÷MD74

MD82÷MD812

MD10÷MD124

MD21÷MD228

MD20, MD50

MD41D

MD30

MD92+MD912 *

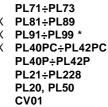
INTERNAL STATIONS

EC	HOS series	EX	HITO series	<u>CO</u>	MPACT series	<u>STI</u>	JDIO series
····	EH9100CT/CW EH9160CT/CW 9083 WA9100T/W TA9160 CV03		EX3100C EX3160C EX3160 WB3160 TA3160 CV03	 	KM8100W KM8600W KM8800W WB8600 8083 CV03	 	ST7100CW ST7100W ST720W WB7100 WB700 TA7100
							TA700

• EXTERNAL DOOR STATIONS

PROF
1+X
1+X
1+X

FILO series ...



VARIOUS ARTICLES

X 1+X	DV2D-DV4D 1281 1282E 1273TV PA **	Video distributors Power supply Timer Exchanger Door release button <i>(optional)</i>
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.

MATRIX series

...

...

...

1+X

1+X

MA71÷MA73

MA91+MA93*

MAS42-MAS43

MAS22-MAS24

MAS20

CV01

MAS61÷MAS63 (1)

MAS42C-MAS43C

** Articles not supplied by ACI Farfisa.

Working instructions.

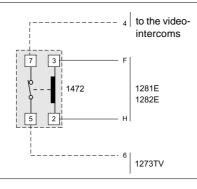
- As the basic system described on page 218, with the following variations:
- The audio-video functions and door lock opening are automatically switched to the door station which has made the call (or control switching ON) and remain in this state until a call from another entrance is received.
- Services 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 FCHOS 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.

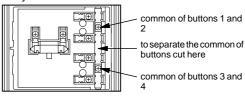
Control switching ON deactivation

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.



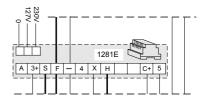
The main entrance push-button panel must have separate common terminals. One common terminal for each secondary door station. Buttons of the Mody series can be divided into 2-button groups. The common terminals of push-buttons Profilo and Matrix series can be separated only module by module.

Mody series button module

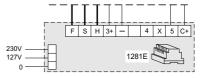


Connection of 1281E power supply-timer instead of 1281 plus 1282E.

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.

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 7a (cathode) and 7a (anode) of every secondary exchanger. The diode allows to activate also the door

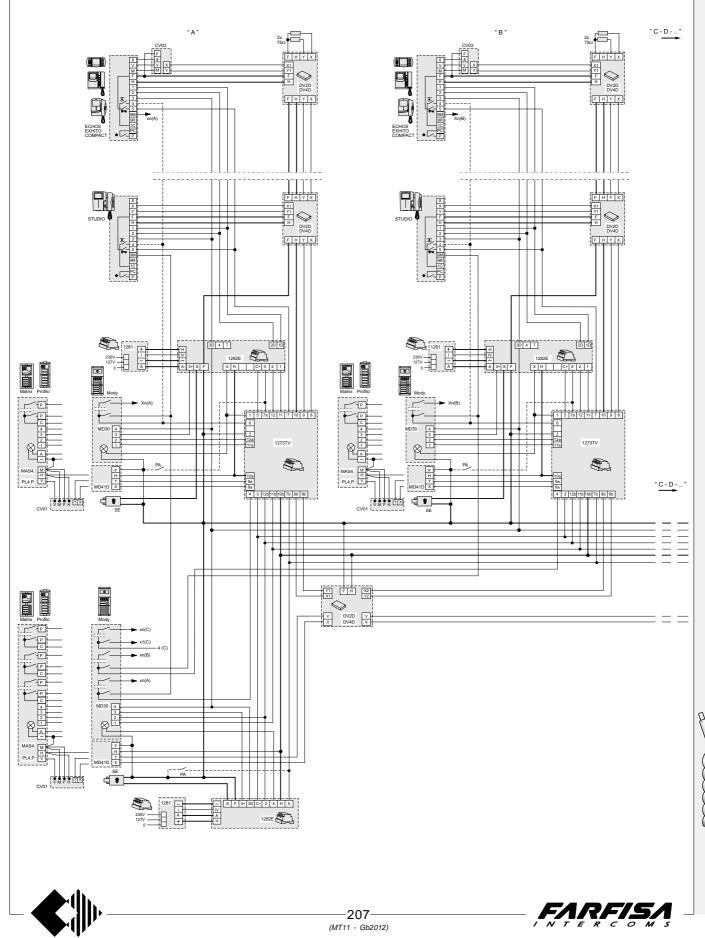
look of your own entrance when the door look of the main entrance is activated. On the contrary when the door lock of your own entrance is activated the door look of the main entrance is not activated.



1273TV

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



4+1 INTERCOMS * 7+1 VIDEOINTERCOMS

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INTERNAL STATION	S			
ECHOS series	EXHITO series	COMPACT series	STUDIO 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	
EXTERNAL DOOR S			The main entrance push-button panel mus	
PROFILO series PL71÷PL73 +X PL81÷PL89 +X PL91÷PL99 * PL40PC÷PL42PC PL40P÷PL42P PL10P÷PL124P PL21÷PL228 PL20, PL50	MATRIX seriesMA71÷MA73MAS61÷MAS63 (1)1+XMA91÷MA93*1MAS42C-MAS43C MAS42-MAS43XMAS10P÷MAS12P MAS22-MAS24 MAS20	MODY series MD72÷MD74 1+X MD82÷MD812 1+X MD92÷MD912 * 1+X MD10÷MD124 1 MD41 1+X MD30 MD21÷MD228 MD20, MD50	have separate common terminals. One common terminal for each secondary door station. Buttons of the Mody series can be divided into 2-button group. The common terminals of push-buttons Profile an Matrix series can be separated only module be module. Mody series button module Common of buttons 1 a	
VARIOUS ARTICLES	Video distributors		to separate the comm of buttons cut here	
+X 1282E (1273TV + 476	Power supply Timer Exchanger Video distributor-amplifier Door release button <i>(optional)</i>		Connection of 1281E power supply-timer in	
Refers to number of us Refers to number of se Or MA61÷MA63. The rain shelter is use * Articles not supplied b Norking instructions. As the basic system desc The audio-video function station which has made a call from another entra Services to secondary d time. Notes For audio compatibility internal devices ECHO For the connection of instructions on page 14	econdary door stations. d in the place of the back box and y ACI Farfisa. cribed on page 218, with the follo ns and door lock opening are auto the call (or control switching ON) ance is received. loor stations are independent and we do not suggest to connect doo S series. name plate lamps read notes 6 6. and video connection refer to the	owing variations: matically switched to the doo) and remain in this state unt d can be operated at the same for stations MODY series with 5, 7 and 8 of the installation	Power supply-timer of the main entrance $\begin{array}{c} \hline \\ 2300 \\ 1270 \\ 0 \end{array}$ By adding 1281E to the schematics on page 2 instead of 1281 plus 1282E the system working y	
⊢or other types of push-	button panels see the general ca	atalogue.	Connection of two door locks, of which the secondary is always activable, in a system with multiple entrance	

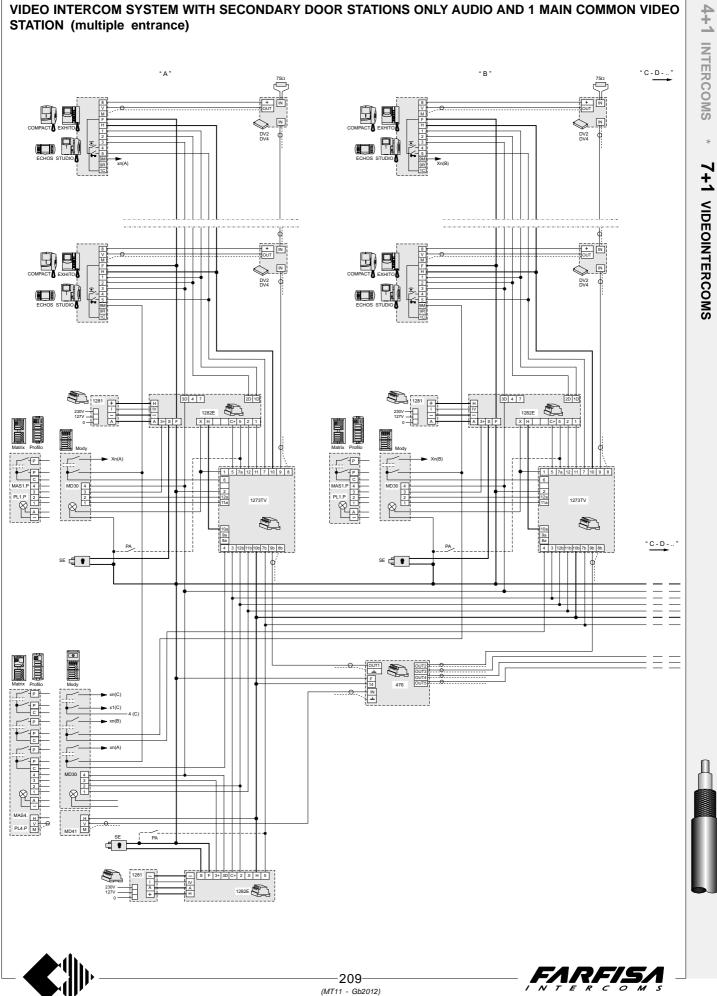
For this option it is necessary to install a diode (100V-1A; type 1N4007) between terminals 7 (cathode) and 7a (anode) of every secondary exchanger. The diode allows to activate also the door

7a 7 1273TV

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.







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VIDEO INTERCOM SYSTEM WITH SECONDARY VIDEO STATIONS AND 1 MAIN COMMON STATION ONLY AUDIO (multiple entrance)

	ECHOS series	EXHITO series	COM	PACT series	<u>STUDIO</u> 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
• EX	TERNAL DOOR STAT	TIONS			TA700
PRO	FILO series	MATRIX series	MOD	Y series	The main entrance push-button panel must
	PL71÷PL73 PL81÷PL89 PL91÷PL99 * PL40PC÷PL42PC PL40P÷PL42P PL10P÷PL124P PL21÷PL228 PL20, PL50	MA71÷MA73 MAS61÷MAS63 (¹) 1+X MA91÷MA93* X MAS42C-MAS43C MAS42-MAS43 1 MAS10P÷MAS12P MAS22-MAS24 MAS20		MD72÷MD74 MD82÷MD812 MD92÷MD912 * MD10÷MD124 MD41	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
	RIOUS ARTICLES				2 to separate the common
	1281 Pow 1282E Tim 1273TV Exc	hanger			of buttons cut here
		or release button <i>(optional)</i> ctric door lock (12Vac-1A)			Connection of 1281E power supply-timer in- stead of 1281 plus 1282E.
X Re (1) O * Th ** Ar Worl	ticles not supplied by A(ndary door stations. the place of the back box and CI Farfisa.	Power supply-timer of the secondary entrance		
- The stat	e audio-video functions a	ed on page 218, with the follow nd door lock opening are autom call (or control switching ON) a e is received	natically	switched to the door	
	vices to secondary door	stations are independent and o	can be c	perated at the same	Power supply-timer of the main entrance
inte	audio compatibility we c ernal devices ECHOS se	do not suggest to connect dool eries. s necessary, connect terminal			230V 127V 0 1281E
- For inst - For tabl	the connection of name tructions on page 146. wires dimensioning and le on pages 146÷148.	ne plate lamps read notes 6, d video connection refer to the ton panels see the general cat	7 and installa	8 of the installation tion instructions and	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.
То	ntrol switching ON dea deactivate the monitori	ng function		 4 to the video- intercoms 	Connection of two door locks, of which the secondary is always activable, in a system with multiple entrance
only nec 147	ing the conversation an when the system is in s essary to install a relay (2) and connect it as sh gram.	standby, it is 7 3	72	— F 1281Е 1282Е — Н	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

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.





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1273TV

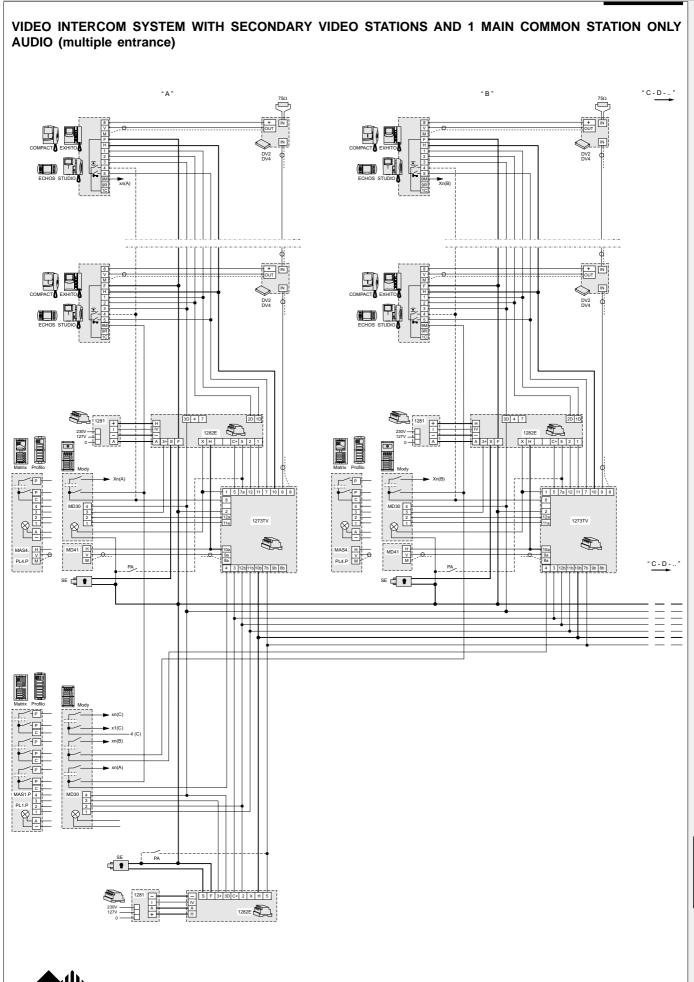
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4+1 INTERCOMS

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7+1 VIDEOINTERCOMS



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

INTERNAL STATIONS **ECHOS** series **EXHITO** series **STUDIO** series **COMPACT** series EH9100CT/CW EX3100C KM8100W ST7100CW ... EH9160CT/CW EX3160C KM8600W ST7100W KM8800W **ST720W** 9083 EX3160 WA9100T/W **WB3160** WB8600 **WB7100** ... **TA9160** TA3160 8083 **WB700** TA7100 ... **TA700** MAIN EXTERNAL DOOR STATION Connection of 1281E power supply-timer in-**PROFILO** series **MATRIX** series MODY series stead of 1281 plus 1282E. PL71÷PL73 MD72÷MD74 MA72÷MA73 PL81÷PL89 MAS62÷MAS63(1) 1 MD82÷MD812 ... MD92÷MD912 * Power supply-timer of the main entrance PL91+PL99 * 1 MA92÷MA93* 1 PL40PC÷PL42PC 1 MAS42C-MAS43C 1 MD10+MD124 PL40P÷PL42P MAS42-MAS43 **MD41** 1 **MD30** 1 PL21+PL228 MAS22-MAS24 MD21÷MD228 127V PL20, PL50 MAS20 MD20, MD50 0 • SECONDARY EXTERNAL DOOR STATIONS By adding 1281E to the schematics on page 213 instead of 1281 plus 1282E, the system working will MODY series **PROFILO** series **MATRIX** series modify as follows: - switching-OFF at the end of the timing only. **PL71 MA71 MD71** ... Х **PL81 MD81** MAS61 (1) Х MA91 * MD91 * PL91 * Х Х **MD11** Connection of two door locks, of which the Х **MD30** PL11P Х MA11P secondary is always activable, in a system with multiple entrance VARIOUS ARTICLES For this option it is necessary to DV2-DV4 Video distributors install a diode (100V-1A; type 1281 Power supply 1N4007) between terminals 7 1282E Timer (cathode) and 7a (anode) of every 1473 Exchanger secondary exchanger. The diode **PRS240** Power supply allows to activate also the door Relay unit 1471 look of your own entrance when the door look of the 1+... 476 Video distributor-amplifier main entrance is activated. On the contrary when the PA ** Door release button (optional) 1+X door lock of your own entrance is activated the door 1+X SE ** Electric door lock (12Vac-1A) look of the main entrance is not activated. . Refers to number of users. X Refers to number of secondary door stations. (1) Or MA61÷MA63. Connection of the MD100 amplified external door station to the secondary door station instead of electric The rain shelter is used in the place of the back box and hood cover. door speaker MD30 and module MD11. ** 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.





| F | S | H | 3+ |

4 X 5 C+

7a

1473

7 12 8 9 10

1473

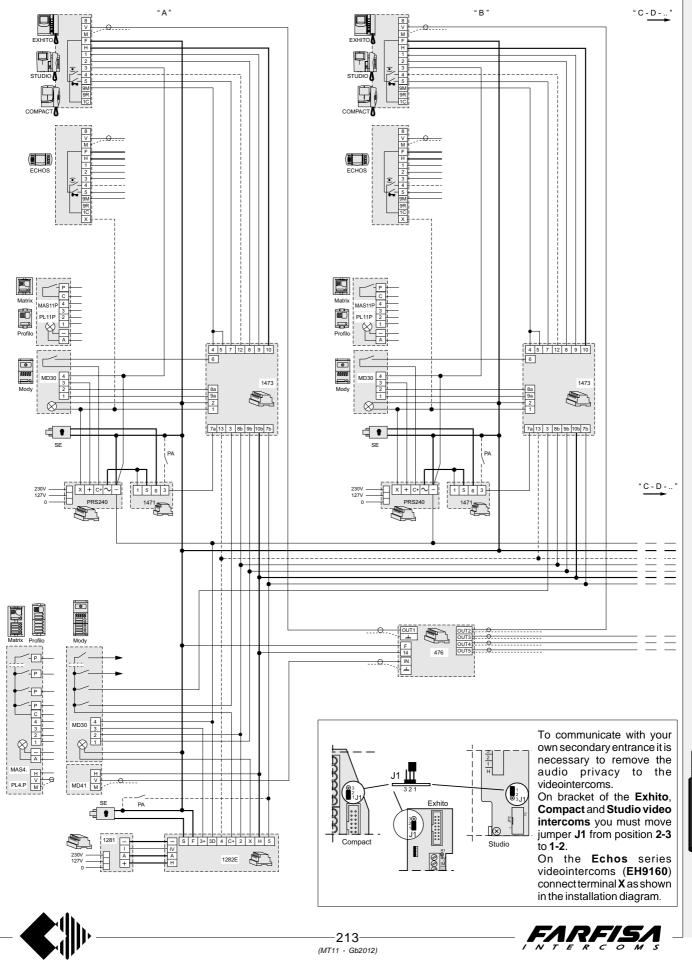
7a 13 3 8b 9b 10b 7b

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1281E

212 (MT11 - Gb2012)

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



4+1 INTERCOMS * 7+1 VIDEOINTERCOMS

••••		STATION	(multiple entranc	e)			
INT	ERNAL STATION	IS					
ECHOS series EXHITO series		COMPACT series		6	<u>STUDIO</u> series		
 	EH9100CT/CW EH9160CT/CW 9083 WA9100T/W TA9160 CV03	 	EX3100C EX3160C EX3160 WB3160 TA3160 CV03	 	KM8100W KM8600W KM8800W WB8600 8083 CV03		ST7100CW ST7100W ST720W WB7100 WB700 TA7100 TA700
	IN EXTERNAL DO						Connection of 1291E nowor supply timer in
PRO	PROFILO series <u>MATRIX</u> series		MODY series			Connection of 1281E power supply-timer in stead of 1281 plus 1282E.	
 1 1 1 1 	PL71÷PL73 PL81÷PL89 PL91÷PL99 * PL40PC÷PL42P PL40P÷PL42P CV01 PL21÷PL228 PL20, PL50	 1 C 1 1 	MA72÷MA73 MAS62÷MAS63 (1) MA92÷MA93 * MAS42C-MAS43C MAS42-MAS43 CV01 MAS22-MAS24 MAS20	MD72÷MD74 1 MD82÷MD812 1 MD92÷MD912 * 1 MD10÷MD124 1 MD41 1 MD30 MD21÷MD228 MD20, MD50		312 912 * 124 228	Power supply-timer of the main entrance F S H 3+ - 4 X 5 C+ 1270 1270 1281E 1281E
• SE	CONDARY EXTE	RNAL DO	OR STATIONS				By adding 1281E to the schematics on page 215
PRO	FILO series	MAT	<u>RIX</u> series	MOD	<u>Y</u> series		instead of 1281 plus 1282E, the system working windify as follows:
 X	PL71		MA71		MD71		- switching-OFF at the end of the timing only.
X	PL81 PL91 *	 X	MAS61 (¹) MA91 *	X X	MD81 MD91 *		
x	PL11P RIOUS ARTICLES	х	MA11P	X X	MD11 MD30		Connection of two door locks, of which the secondary is always activable, in a system with multiple entrance
	DV2D-DV4D 1281 1282E 1473 PRS240 1471 PA ** SE **	Electric do	pply r				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.
X Re (¹) Or * Th	fers to number of s MA61÷MA63.	econdary c ed in the pla	ace of the back box and	hood c	over.	tion to	ction of the MD100 amplified external door sta the secondary door station instead of electric peaker MD30 and module MD11.
Work As the - The to th rem - Sen the - By r rem Notes - For serie - If th (das - For insti	sing instructions. a basic system des audio-video function the door station whi ain in this state unt vices to secondary same time. making the call fro ains switched OFF s audio compatibility es with internal dev e control switching shed wire). the connection of na ructions on page 14	cribed on p ons and doo ch has ma il a call fron door station m the seco m the seco we do not rices ECHO g ON is ne ame plate la 46.	page 218, with the follow or lock opening are autor de the call (or control s n another entrance is re- ns are independent and ondary audio station, th suggest to connect door	matical witchin ceived. can be o ne vide or statio nal 4 o 8 of the	y switched g ON) and operated at o intercom ons MODY f the timer	MD71 MD100	

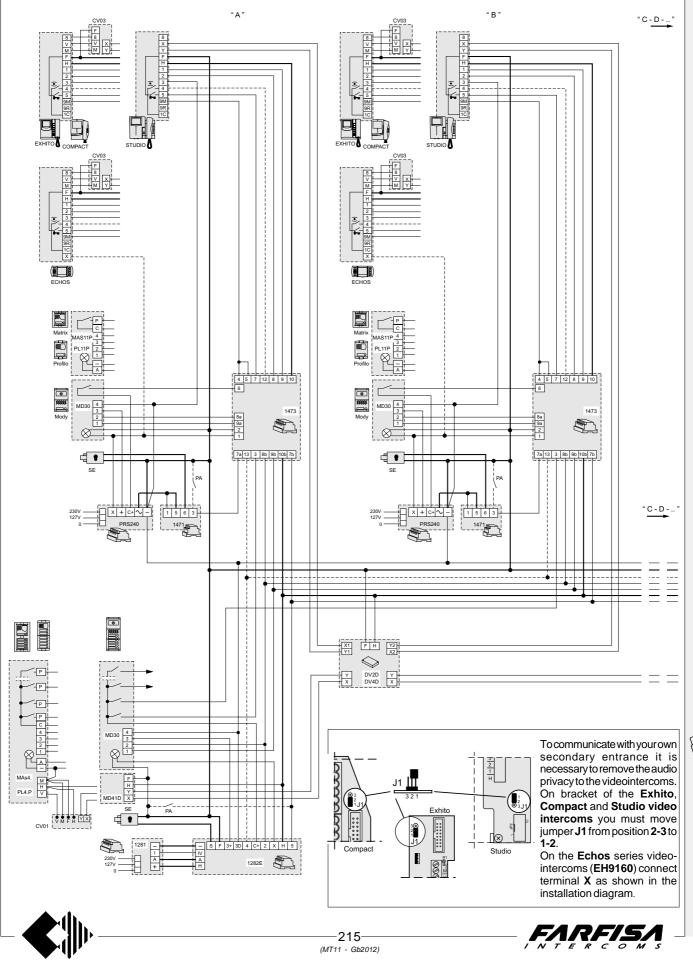


Sam



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Si 47MO/1

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

4+1 INTERCOMS * 7+1 VIDEOINTERCOMS

		S	To :	0.014		
	<u>DS</u> series EH9100CT/CW EH9160CT/CW 9083 WA9100T/W TA9160 TERNAL DOOR S	 	ITO series EX3100C EX3160C EX3160 WB3160 TA3160	<u>сом</u> 	PACT series KM8100W KM8600W KM8800W WB8600 8083	STUDIO series ST7100CW ST7100W ST720W WB7100 WB700 TA7100 TA7100
ROF	-ILO series	МАТ	RIX series	MOD	Y series	The main entrance push-button panels must
+X +X	PL71÷PL73 PL81÷PL89 PL91÷PL99 * PL40PC÷PL42P0 PL40P÷PL42P PL21÷PL228 PL20, PL50	 2+X	MA71÷MA73 MAS61÷MAS63 (¹) MA91÷MA93 *	 2+X 2+X 2+X 2+X 2+X 2+X 		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.
VA	RIOUS ARTICLES	;			MD20, MD30	common of buttons 1 and
+X xX	1281 1282E 1273TV 476		ply			to separate the common of buttons cut here common of buttons 3 and 4
	PA **	Relay unit Door relea	se button (optional)			Connection of 1281E power supply-timer in-
Х			or lock (12Vac-1A) liodes (type 1N4007)			stead of 1281 plus 1282E.
Art ork s the The stati a ca	icles not supplied b ing instructions. e basic system deso audio-video functio ion which has made Il from another entr vices to secondary o	y ACI Farfi cribed on p ns and doo the call (or ance is rec	age 218, with the follov r lock opening are autom r control switching ON) ;	ving var natically and rem	riations: switched to the door nain in this state until	Power supply-timer of the main entrance
otes For a		we do not s	suggest to connect door	rstation	s MODY series with	
lf the For instr For	the connection of ructions on page 14	DN is neces name plate 6. and video	ssary, connect terminal e lamps read notes 6, connection refer to the	7 and	8 of the installation	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.
			nels see the general cat	alogue.		Connection of two door locks, of which the secondary is always activable, in a system with
To c durir only nece 1472	trol switching ON deactivate the mon ng the conversation when the system is essary to install a rel. 2) and connect it a ram. is a diagram referer	itoring fun n and to ke s in standby ay (type 14 s shown o	iction bep it y, it is 7 3 71 or	······	 4 to the video-intercoms F 1281E 1282E H 1273TV 	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
)S1					(DS1)	activated.

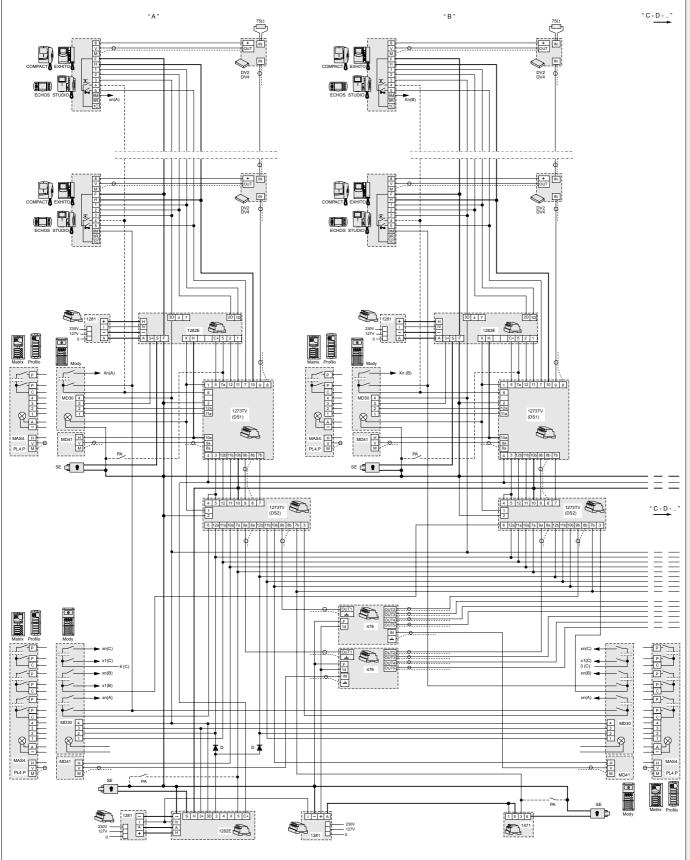
Si 47MO/1

4+1 INTERCOMS

3(÷

7+1 VIDEOINTERCOMS





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).





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 ^① 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 75 Ω . High distance system (use video amplifier art.**476**). Check the correct connection of the coaxial cable (see pages 147 and 148).

TROUBLESHOOTING

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; $17\div21Vdc$).





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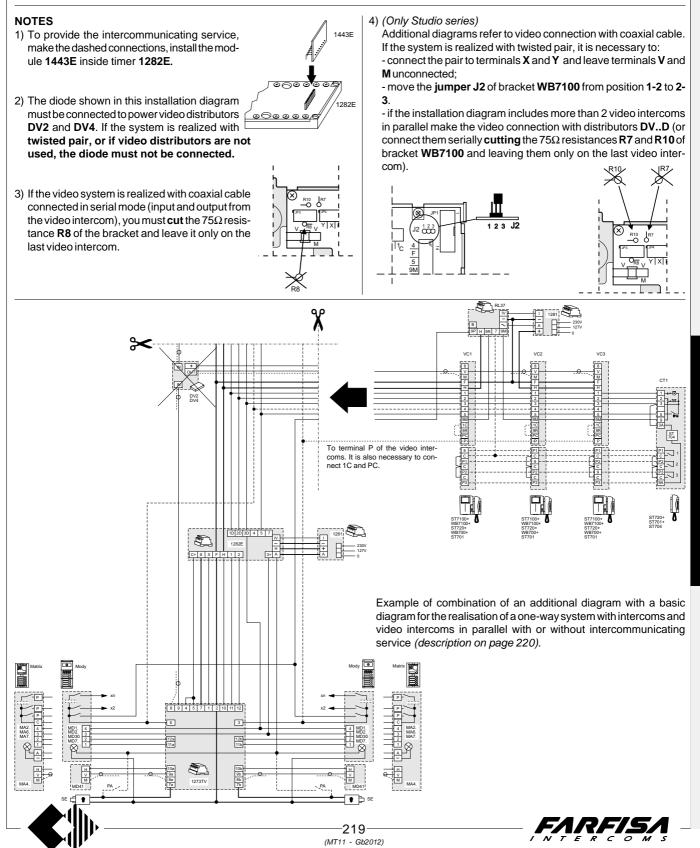
Additional diagrams

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 calls.

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.



EXTENSION OF VIDEO INTERCOM SYSTEM

Extension of ONE-WAY system

4+1

INTERCOMS

7+1 VIDEOINTERCOMS

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

Extension in one apartment of a MULTI-WAY system

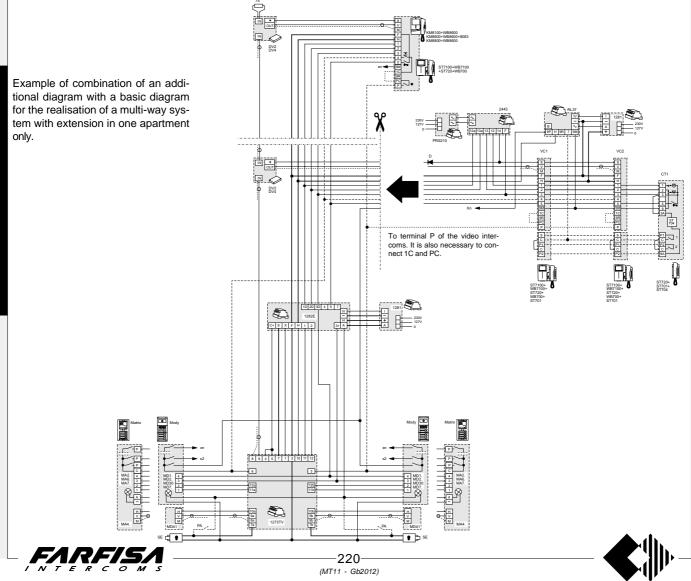
To realise a multi-way system with several video intercoms and/or intercoms in parallel in one apartment with or without intercommunicating service, you must proceed as follows:

- 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

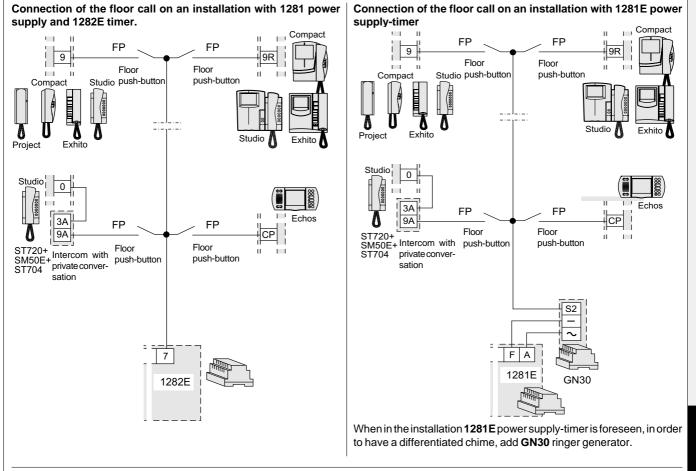
To realise a multi-way system with several video intercoms and/or intercoms in parallel in 2 or more apartments with or without intercommunicating service, you must repeat the operations described in the preceding section several times.



Additional diagrams

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.



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.

1281F

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В

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13a

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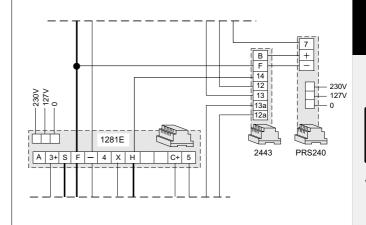
PRS240

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- 127V

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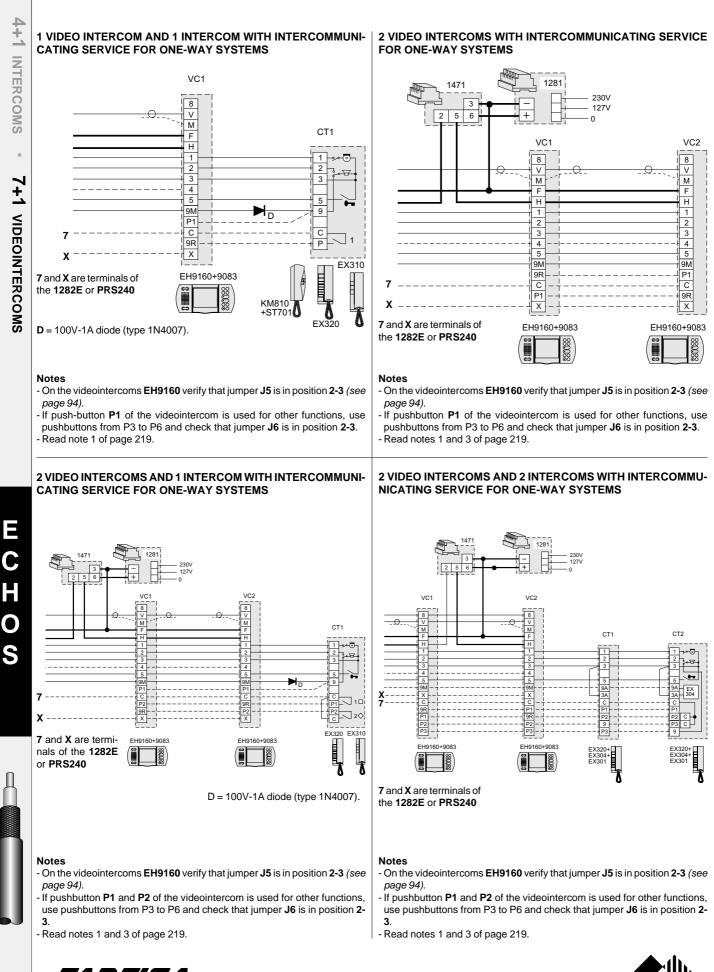
Application on all multi-way systems with main and secondary entrances. Schematics from page 205 to page 217.



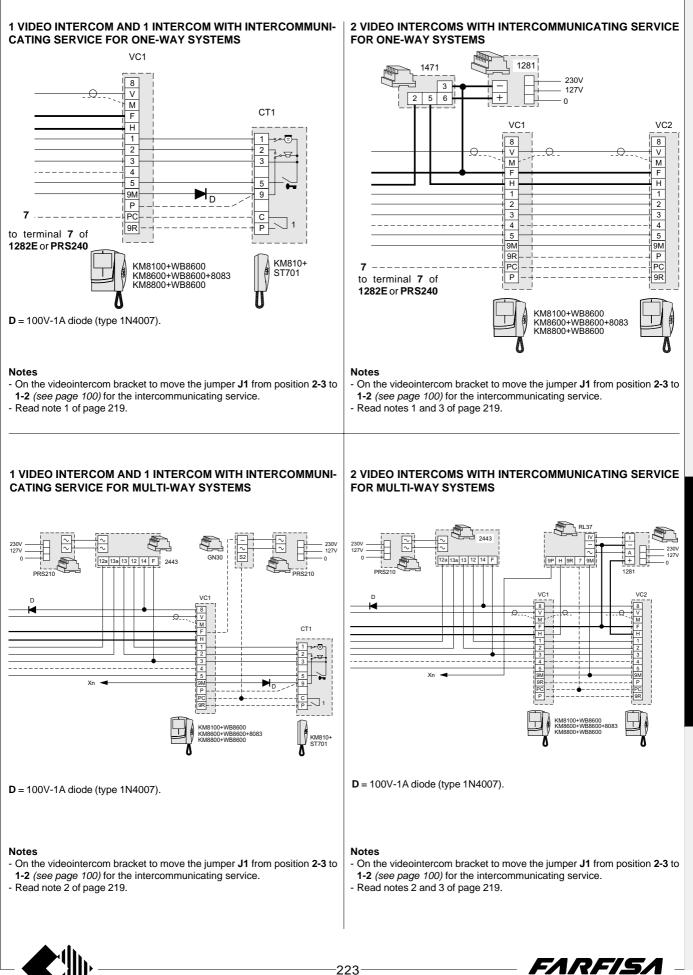
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ONE/MULTI-WAY additional diagrams



(MT11 - Gb2012)

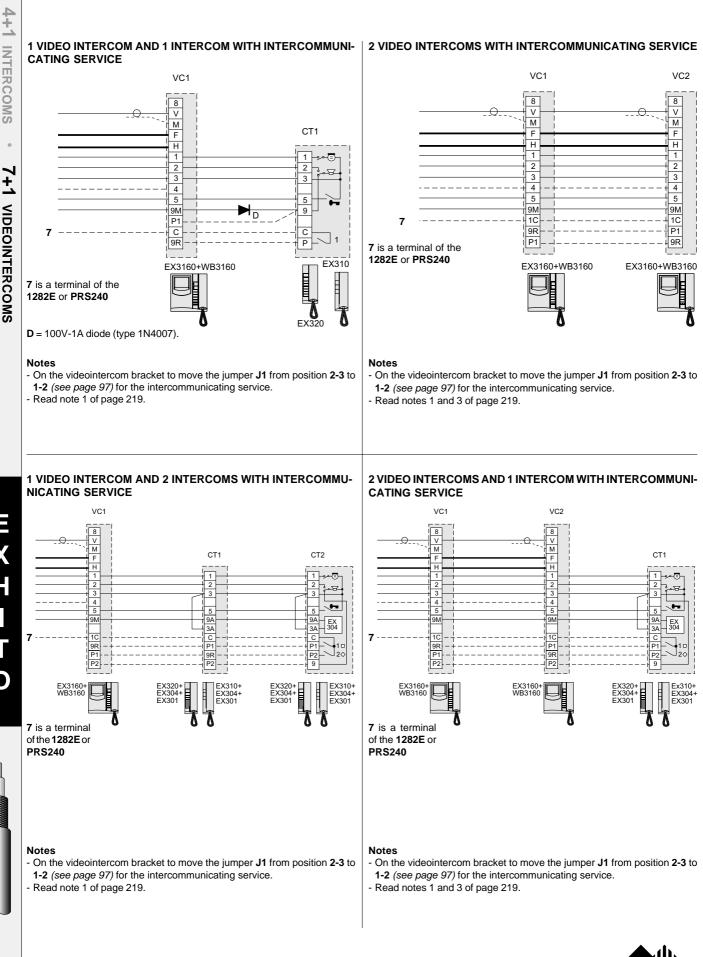
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4+1



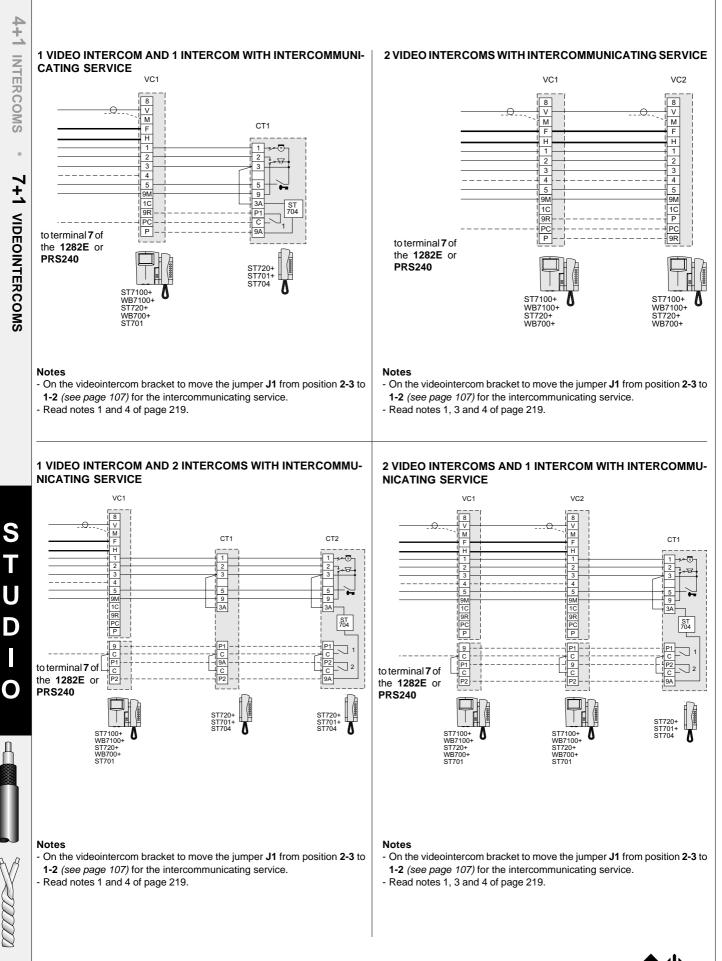
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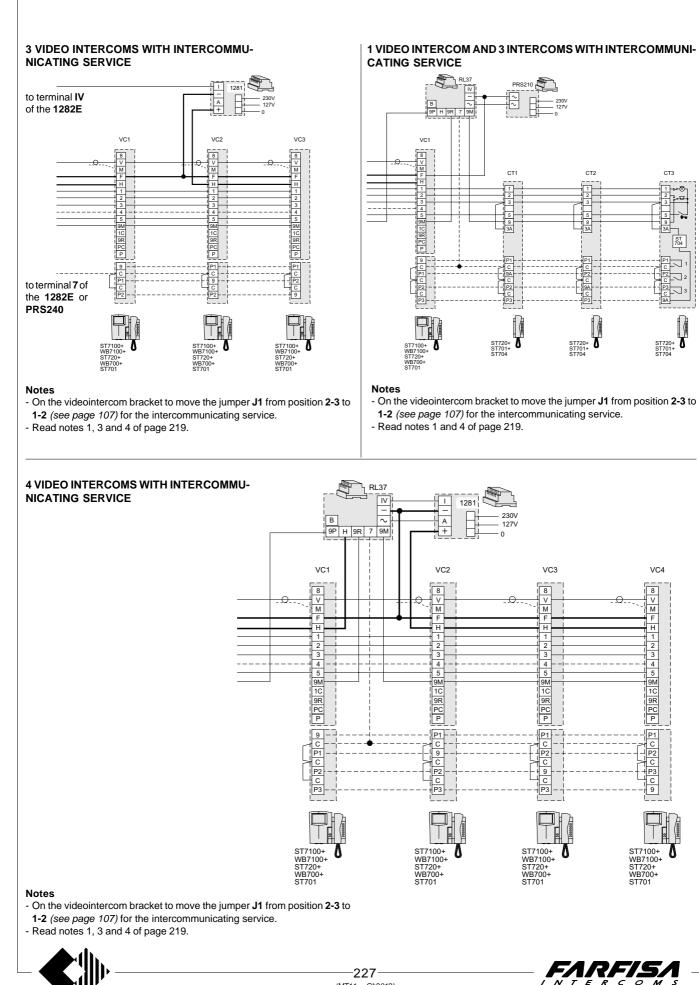
1 VIDEO INTERCOM AND 1 INTERCOM WITH INTERCOMMUNI-2 VIDEO INTERCOMS WITH INTERCOMMUNICATING SERVICE **CATING SERVICE** 2443 3 12 14 F vc 0 8 0 CT1 Xn . I. 9R P1 EX316 **D** = 100V-1A diode (type 1N4007). **D** = 100V-1A diode (type 1N4007). Notes Notes - On the videointercom bracket to move the jumper J1 from position 2-3 to - On the videointercom bracket to move the jumper J1 from position 2-3 to 1-2 (see page 97) for the intercommunicating service. 1-2 (see page 97) for the intercommunicating service. - Read note 2 of page 219. - Read notes 2 and 3 of page 219. 1 VIDEO INTERCOM AND 2 INTERCOMS WITH INTERCOMMU-2 VIDEO INTERCOMS AND 1 INTERCOM WITH INTERCOMMUNI-NICATING SERVICE CATING SERVICE ст CT1 СТ2 ÷ 504 304 Xn EX 304 EX3104 EX304 EX301 **D** = 100V-1A diode (type 1N4007). **D** = 100V-1A diode (type 1N4007). Notes Notes - On the videointercom bracket to move the jumper J1 from position 2-3 to - On the videointercom bracket to move the jumper J1 from position 2-3 to 1-2 (see page 97) for the intercommunicating service. 1-2 (see page 97) for the intercommunicating service. - Read note 2 of page 219. - Read notes 2 and 3 of page 219.

____225_____ (MT11 - Gb2012)







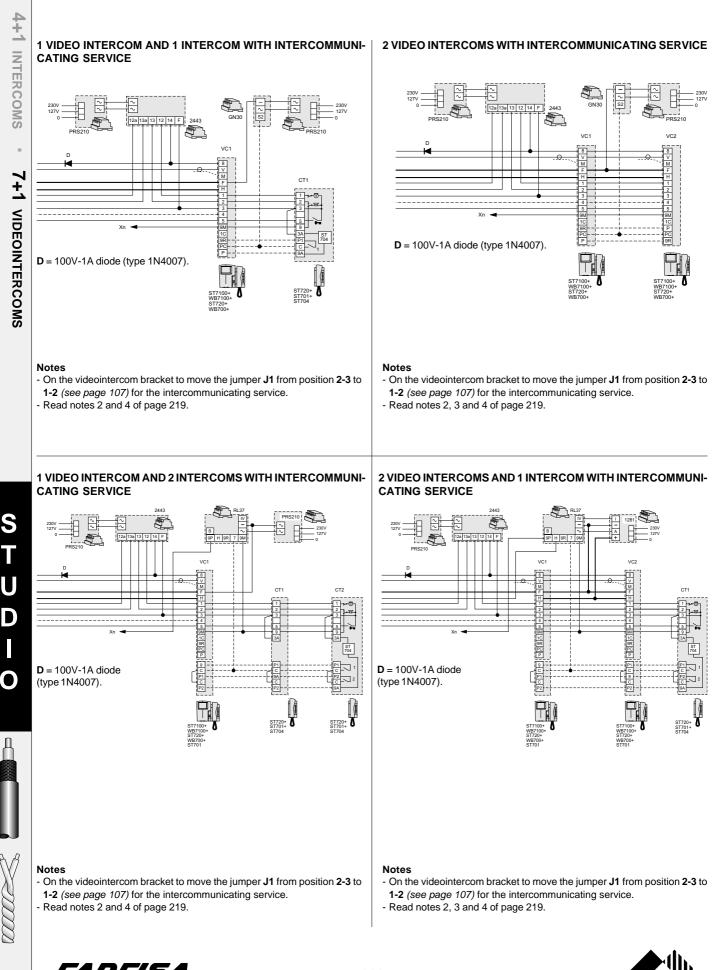


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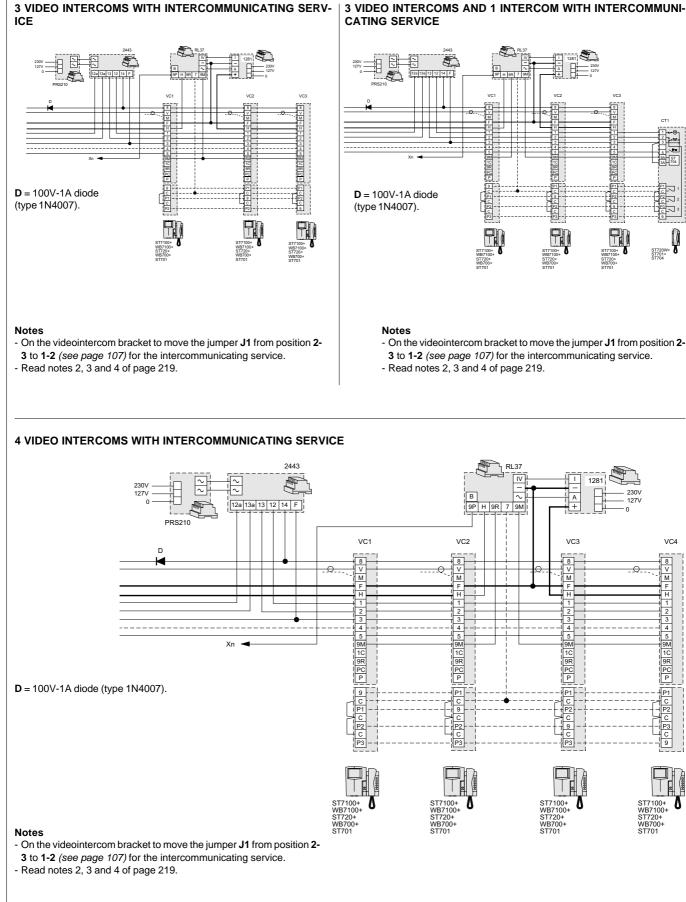
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MULTI-WAY additional diagrams



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228 (MT11 - Gb2012)



S T U

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VC4

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2 3 4 5 9M 1C 9R PC P

<u>Р1</u>

P2

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3 to 1-2 (see page 107) for the intercommunicating service.



-229 (MT11 - Gb2012) List of article that can be used in electronic call systems with page reference.

241DMA Mod 1181E Tim 1443ED Intra 1471 1-cr 1471E 1-cr 1472 2-cr 1473 4-cr 9083 Ba AG20 Bla AG21 Sin AG204 Do AG40CED Do AG40CED Do AG100A Intra AG100V Vico DV2D 2-cr DV4D 4-cr	ned power supply ercommunicating module contact relay unit contact relay unit contact relay unit contact exchanger uck-box for Echos videointercoms ank module for Agorà series ngle button module for Agorà series buble button unit for Agorà series boor speaker for Agorà series olour camera and door speaker for Agorà series ercom door station for Agorà series boor station additional buttons for Agorà series	40 4-33 47 48 49 49 49 49 49 48 5 16 16 16 16 16	MD74 MD81 MD82 MD83 MD84 MD804 MD808 MD808 MD89 MD812 MD91 MD92	Back box with frames for 4 modules. Mody series Hood cover for 1 module. Mody series Hood cover for 2 modules. Mody series Hood cover for 3 modules. Mody series Hood cover for 4 modules (2 frames with 2 modules) Hood cover for 4 modules (1 frame with 4 modules) Hood cover for 6 modules (2 frames with 3 modules) Hood cover for 8 modules (2 frames with 4 modules) Hood cover for 9 modules (3 frames with 3 modules) Hood cover for 12 modules (3 frames with 4 modules) Rain shelter for 1 module. Mody series	38 38 38 38 38 38 38 38 38 38 38
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ACI srl Via E. Vanoni, 3 60027 Osimo (An) Italy Tel. (+39) 071.7202038 Fax (+39) 071.7202037

> info@acifarfisa.it www.acifarfisa.it