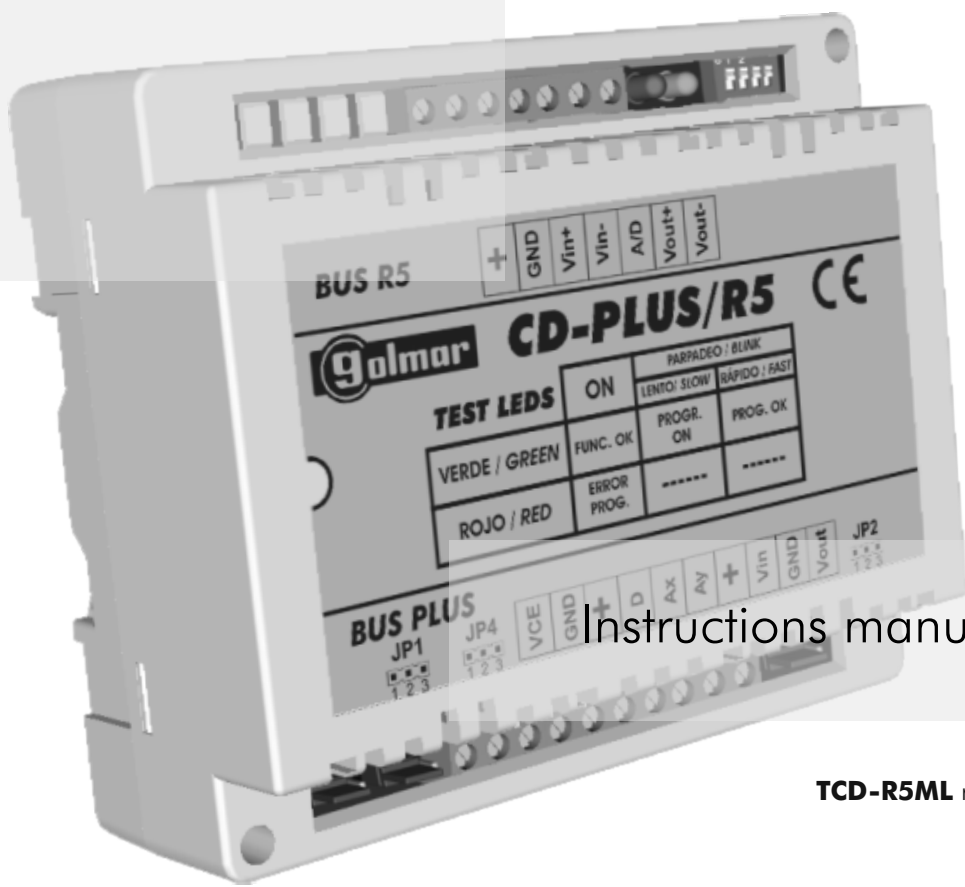




Cód. 50124572

# Protocol converter **CD-PLUS/R5**

**Vista Plus**



Instructions manual

**TCD-R5ML** rev.0114

# INTRODUCTION

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

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

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

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## STARTING RECOMMENDATIONS

- ☛ The installation and handling of this equipment must be performed by **authorised personnel**.
- ☛ Install or modify the equipment **without the power connected**.
- ☛ Do not use excessive force when tightening the converter connection block screws.
- ☛ The entire installation must be at least **40 cm.** away from any **other installation**.
- ☛ Before connecting the system, check the connections between door panel, converter, distributor, monitors, telephones and the power supply connection.
- ☛ When starting the equipment for the first time, or after a modification, the system will remain inactive for around 45 seconds due to the initial busy channel time.
- ☛ Do always follow the enclosed information.

- ⇨ Install or modify the equipment **without the power connected**.
- ⇨ The installation and handling of these equipments must be performed by **authorised personnel**.
- ⇨ The entire installation must be at least **40 cm.** away from any **other installation**.
- ⇨ Do not use excessive force when tightening the connector screws.
- ⇨ Install the unit in a dry and protected place without risk of drip or water projections.
- ⇨ Avoid to place it near to heating sources, dusty locations or humid environments.
- ⇨ Do not block ventilation holes of the unit so that air can circulate freely.
- ⇨ To avoid damage, the converter has to be firmly fixed.

## SYSTEM CHARACTERISTICS

- ⇨ Protocol converter for the **VISTA PLUS** system which permits the following combinations:

- ⇨ Permits installation of a Plus porter's exchange in a **VISTA PLUS** installation.
- ⇨ Permits installation of Plus general door panels with inner access in the **VISTA PLUS** System.
- ⇨ Permits installation of a Plus coded door panel with **VISTA PLUS** monitors.

- ⇨ Up to 250 converters per installation.
- ⇨ Up to 120 apartments per backbone with door panels with push buttons.
- ⇨ Up to 200 apartments per backbone with coded panel.
- ⇨ Up to 200 monitors/telephones per backbone.
- ⇨ Simple configuration through easy access dip switches.
- ⇨ Autodiagnostic LEDs that allow detecting installation and programming errors.

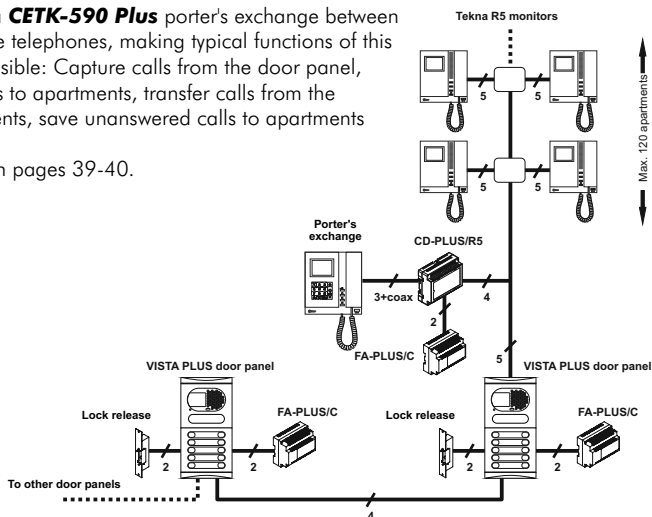
## OPERATION MODES

The **CD-PLUS/R5** converter has 3 possible operation modes:

### Porter's exchange interface

Permits placement of a **CETK-590 Plus** porter's exchange between the door panel and the telephones, making typical functions of this porter's exchange possible: Capture calls from the door panel, receive and make calls to apartments, transfer calls from the door panel to apartments, save unanswered calls to apartments in the memory, etc..

Installation diagram on pages 39-40.



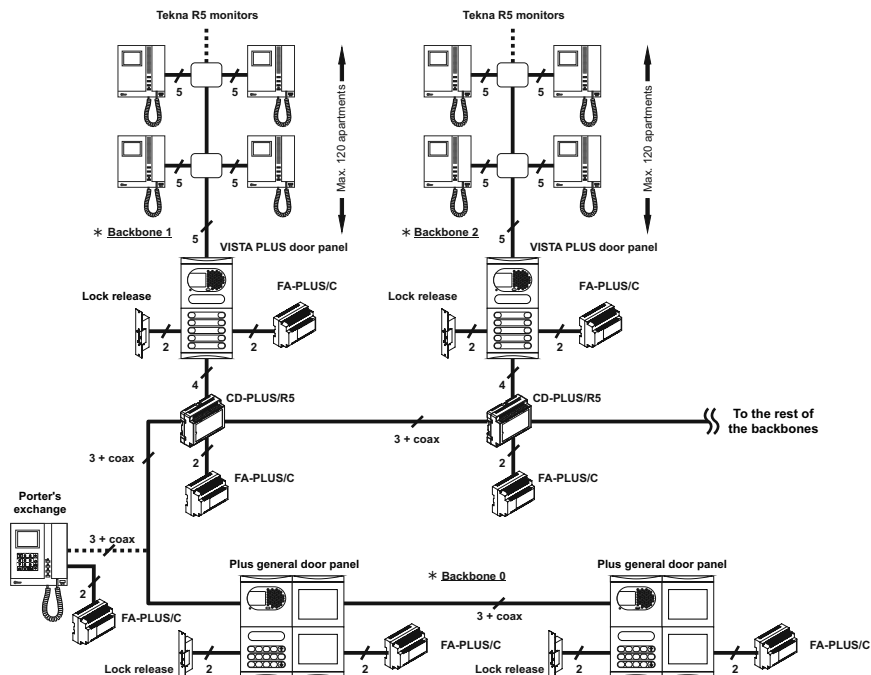
# OPERATION MODES

## Backbone encoder (general door panels)

Permits **Plus** general door panels with **VISTA PLUS** inner portals, allowing placement of a **CETK-590 Plus** porter's exchange between both elements as an option.

**This type of installation requires a converter for each inner backbone.**

Installation diagram on pages 41-42.



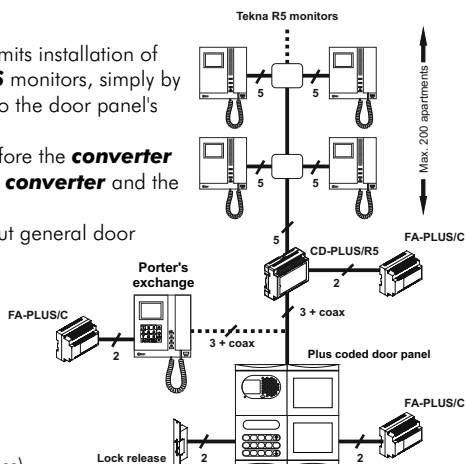
## Backbone encoder (Coded door panel)

This variation from the previous mode, permits installation of **Plus** coded door panels with **VISTA PLUS** monitors, simply by varying the converter's position, moving it to the door panel's output.

A porter's exchange can also be placed before the **converter** or a **VISTA PLUS** door panel between the **converter** and the monitors as options.

This variation can be applied with or without general door panels.

Installation diagram on pages 43-44.



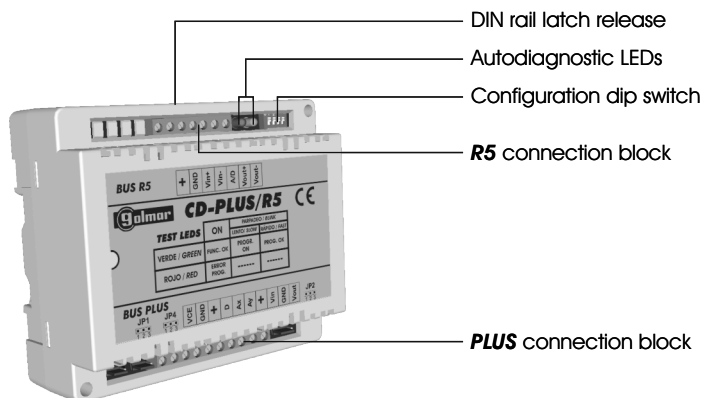
### \* Terms:

Backbone: Logical address.

Riser: Physical cabling of the installation

in the same backbone (logical address).

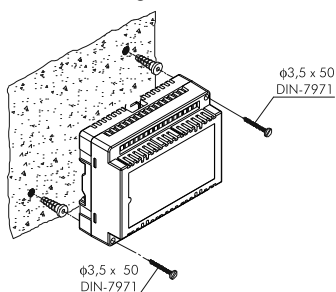
## Description of the converter.



## INSTALLATION

### Detail of the converter installation.

Install the converter in a dry and protected place free from the risk of drip or water projections. To avoid damage the converter must be firmly fixed.



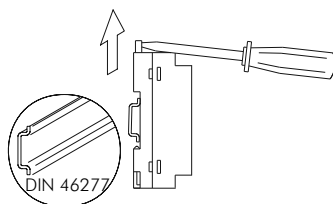
Install or modify the equipment **without the power connected.**

The installation and handling of this equipment must be performed by **authorised personnel.**

To install the converter directly on the wall, drill two holes of  $\varnothing 6\text{mm.}$  and insert the wallplugs. Fix the converter with the specified screws.

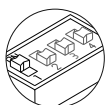
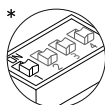
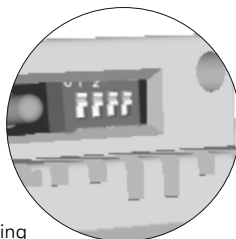
The converter can be installed on a DIN guide (6 elements), pressing it lightly.

To extract the converter from the DIN guide, use a plain screwdriver to lever the flange as shown in the picture.



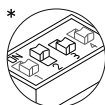
## Description of the configuration dip switch.

The **SW1** configuration dip switch is located in the upper right part of the module.



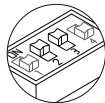
Loads the **VISTA PLUS** installation with a communications resistor.  
Set to **ON** position only if you do not have the **VISTA PLUS** door panel in the building or backbone.

The operation mode of the converter is defined according to the dip switch 2 and 3 combinations:



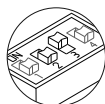
### **Backbone encoder (Master):**

Activate this mode if you have **PLUS** door panels before the **converter** and **VISTA PLUS** monitors (without door panel) after the **converter** (see page 35).



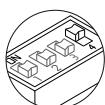
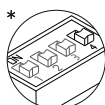
### **Backbone encoder (Slave):**

Activate this mode if you have **PLUS** door panels before the **converter** and **VISTA PLUS** monitors and door panels after the **converter**. (See page 35).



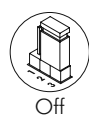
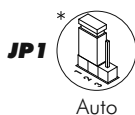
### **Exchange interface:**

Activate this mode if placing a **PLUS** porter's exchange in a **VISTA PLUS** installation (see page 34).



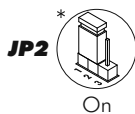
Set to ON to program the column.  
This function should only be used if the module is being used as backbone encoder (see page 35).  
Once the programming progress is finished return the switch to OFF position.  
The programming steps are described on page 38.

## Description of the configuration jumpers.



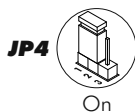
*End of line resistor (Only in porter's exchange interface mode).*

Set to AUTO if the porter's exchange is connected through a D4L-R5 or D4L-R5R video distributor (recommended), if doing without this element, set to the OFF position.



*End of line resistor (Only in backbone encoder mode).*

Set to Off in all converters except the last one (end of the coaxial cable).



To be handled exclusively by Golmar personnel.  
Set always to Off.

\* Factory default

Description of autodiagnostic LEDs.

### Green LED

Fixed: Correct operation.

Slow blinking: Programming activated.

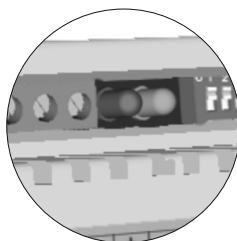
Quick blinking: Programming finished.

### Red LED

Fixed: Programming error, go through the steps from the beginning.

Off: Correct operation.

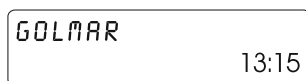
The autodiagnostic LEDs are placed next to the configuration dip switch.



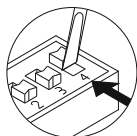
## PROGRAMMING

Programming the converter.

The converter must be programmed with a backbone code (see page 35), which must be different for each converter, following the steps set out below.

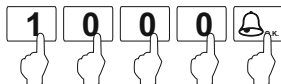


Access the door panel programming mode, pressing the key button followed by the installer secret code (factory default 1315), just as indicated in the door panel manual.

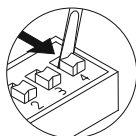


Activate the converter programming by setting the dip switch number 4 to ON.

The door panel will emit a tone and the green LED on the converter will begin to slow blinking, indicating that programming has begun.



Introduce the column code to program, followed by three zeros, then press the bell button.



To indicate that the equipment has been correctly programmed, the door panel will emit a tone and the green LED on the converter will begin to quick blinking, indicating that programming has begun.

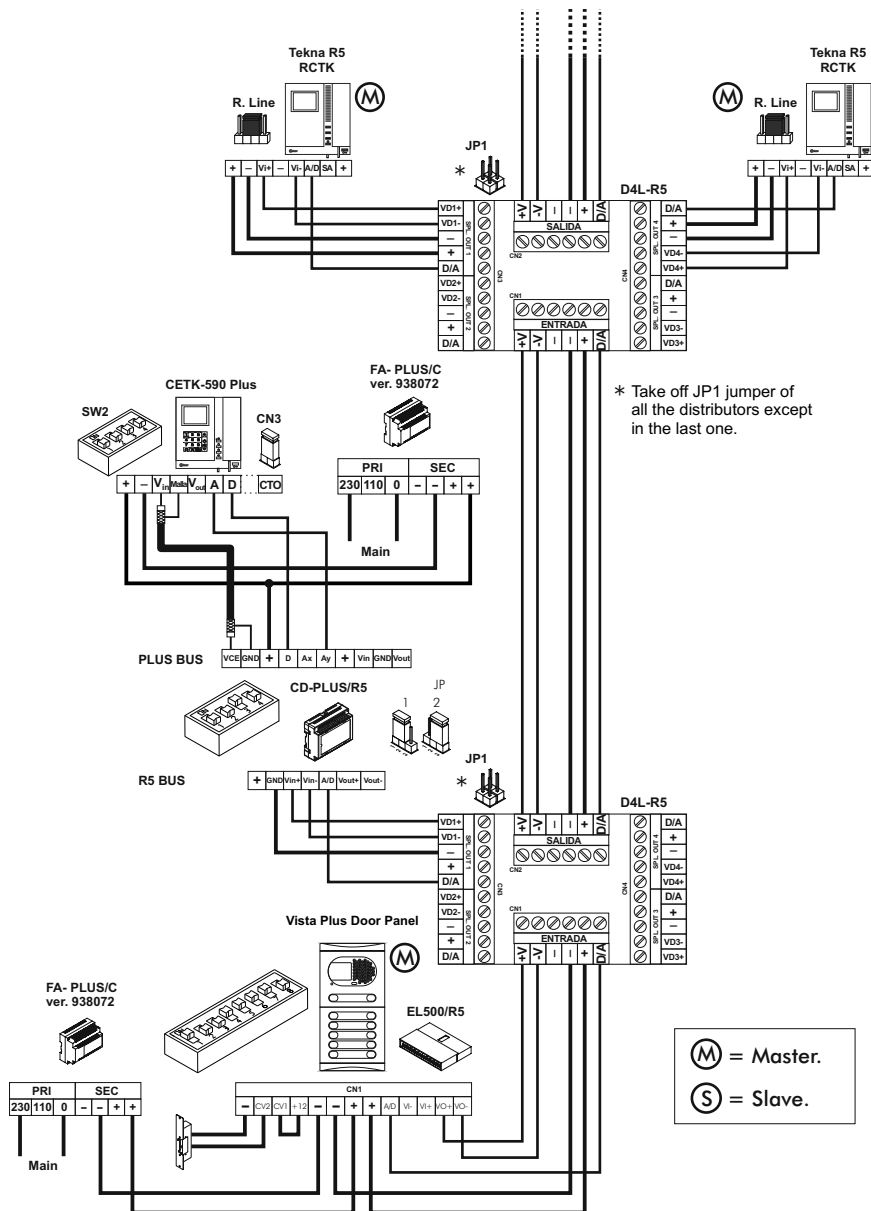
Exit programming by setting the dip switch number 4 to OFF and pressing the C button on the door panel.

If there are more converters, repeat the previous steps introducing a different backbone code for each of them.

If during one of these processes the red LED on the converter switches on, restart programming from the beginning.

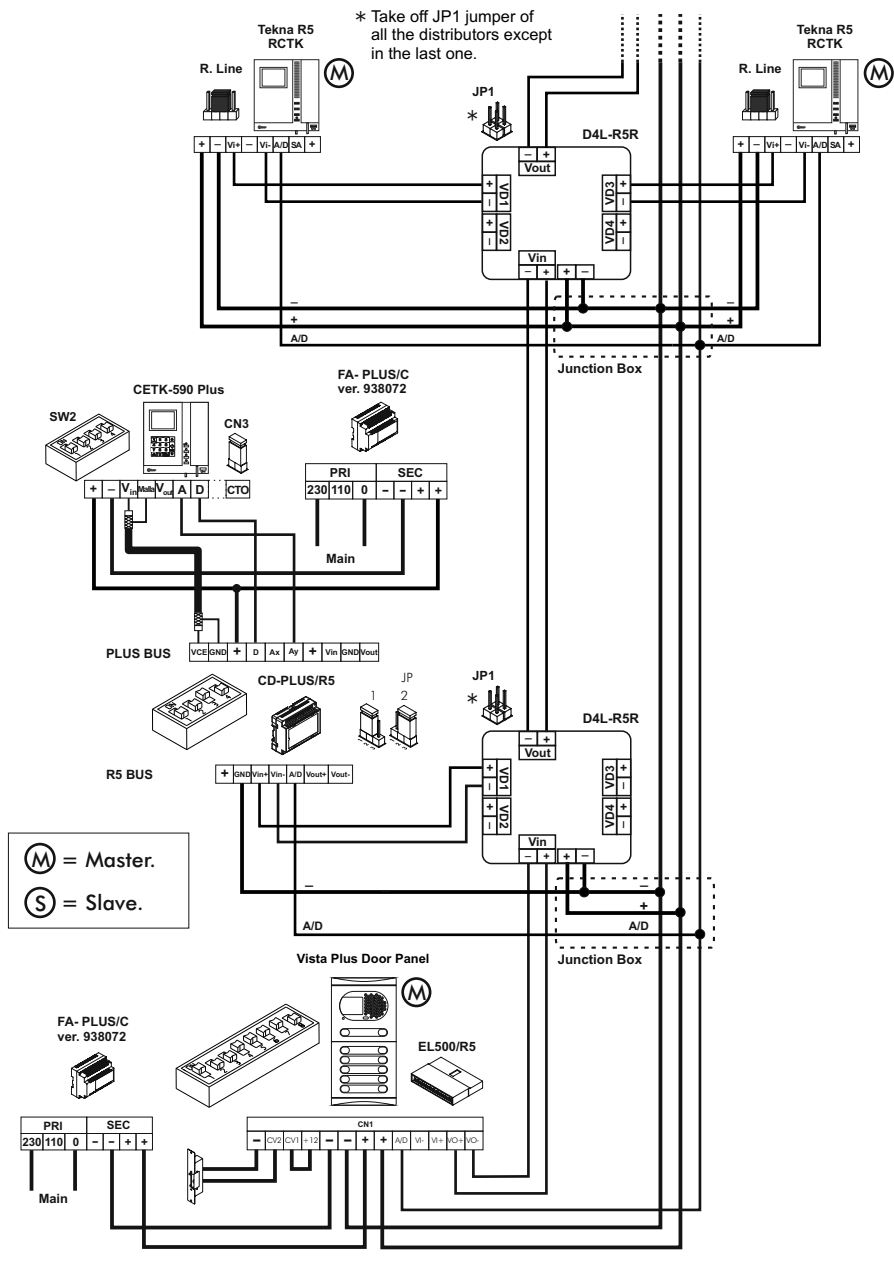
# INSTALLATION DIAGRAMS

Porter's exchange interface mode with D4L-R5 distributor.

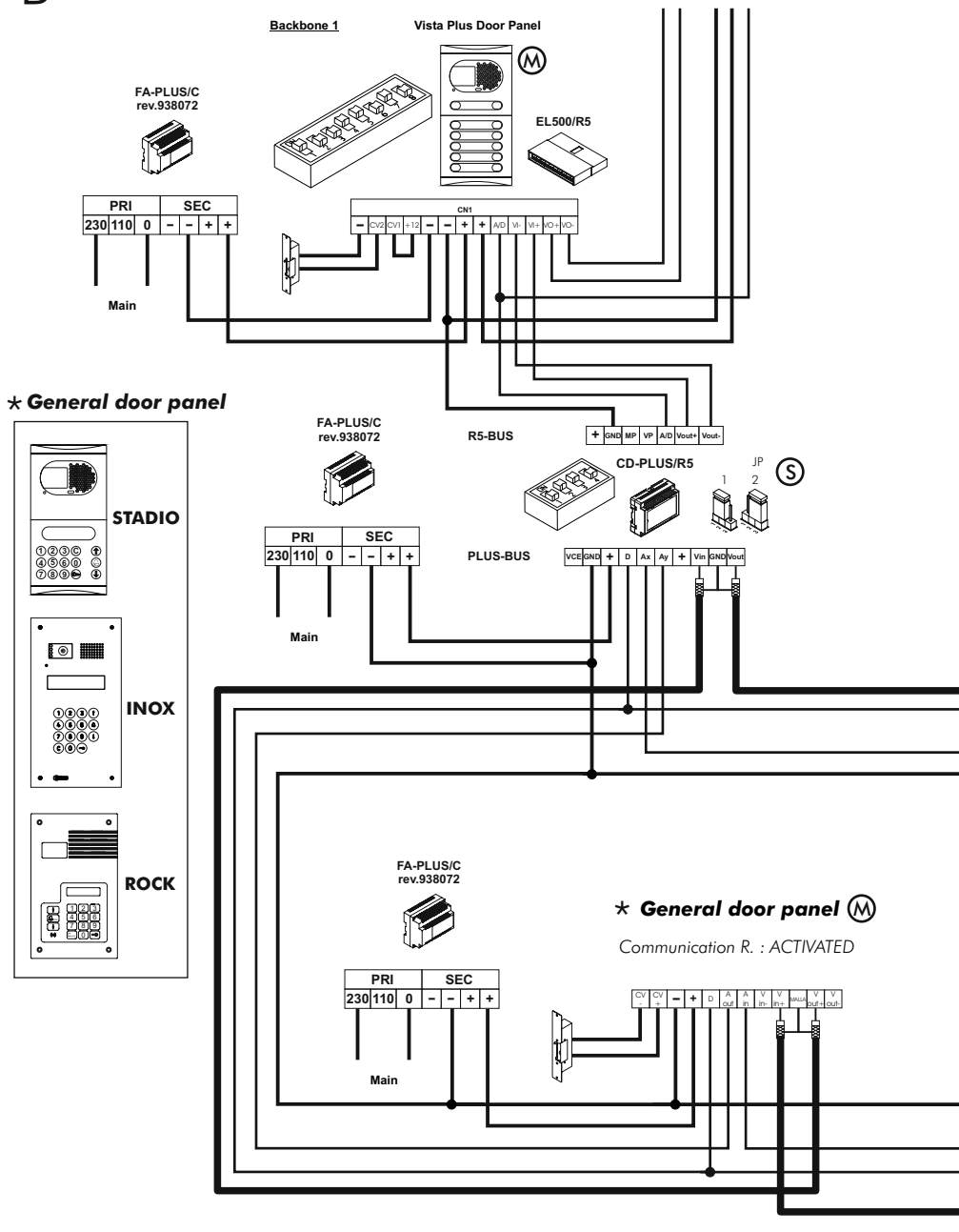




Porter's exchange interface mode with D4L-R5R distributor.

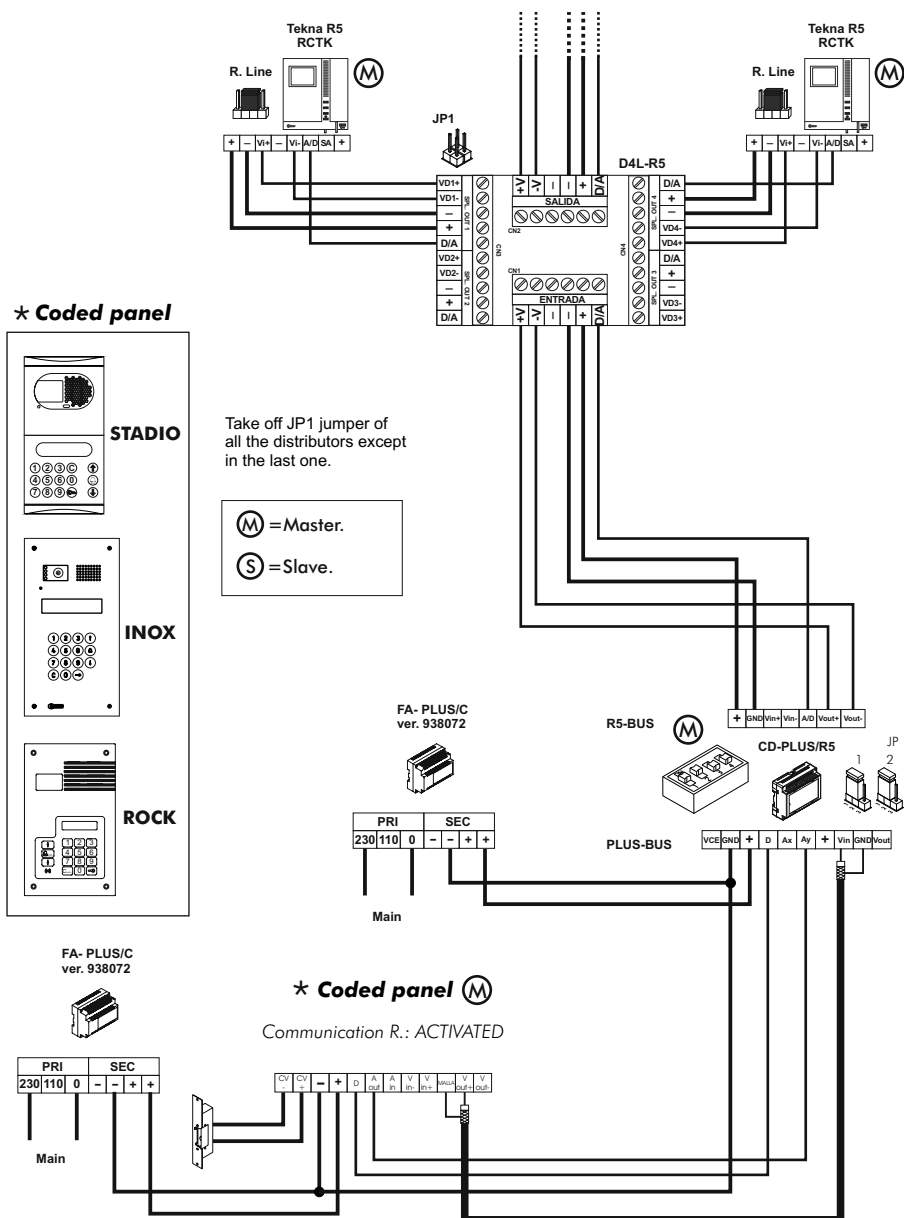


### Backbone encoder mode (general door panels)





Backbone encoder mode (coded panel) with D4L-R5 distributor.



Backbone encoder mode (coded panel) with D4L-R5R distributor.

★ **Coded Panel**

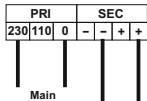


Take off JP1 jumper of all the distributors except in the last one.

(M) = Master.

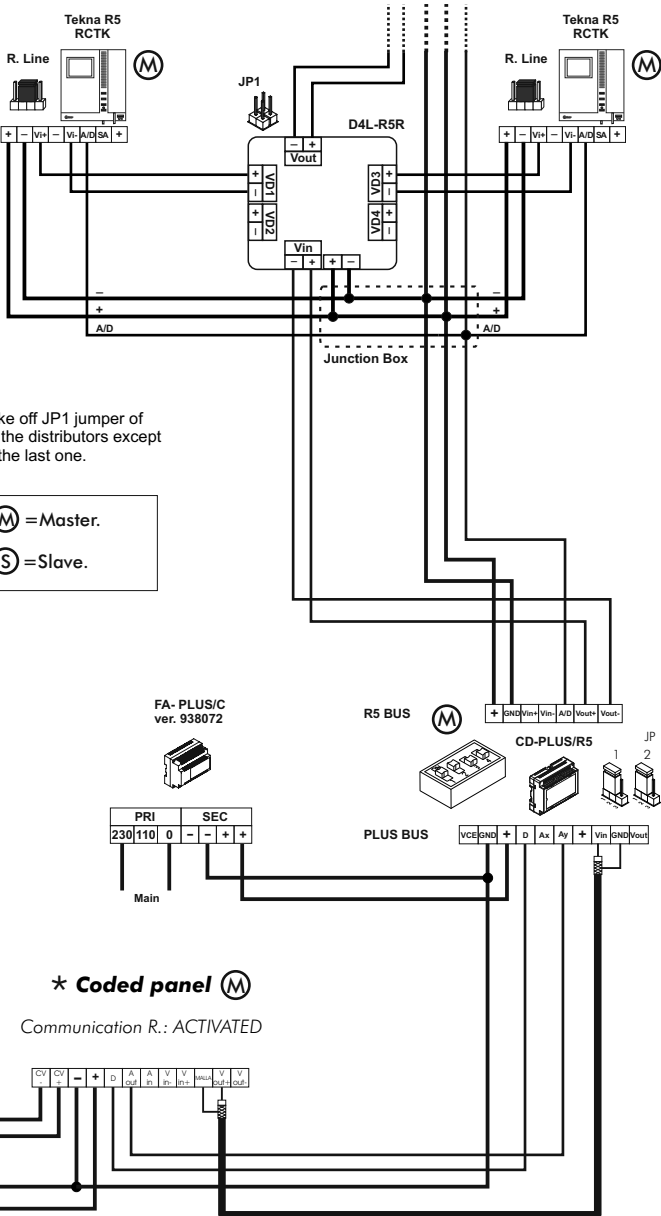
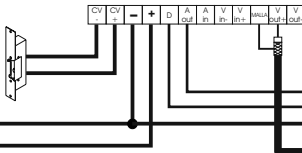
(S) = Slave.

FA- PLUS/C  
ver. 938072



★ **Coded panel** (M)

Communication R.: ACTIVATED



**Porter's exchange interface mode**

- ☞ The porter's exchange don't receive calls from the door panel.
  - ⌚ Check if it can receive calls from any other monitor (pressing the lock release button, with the handset off the hook)
  - ⌚ If so, check in the porter's exchange configuration that the option capture door panel is activated and that the door panel has dip switch number 6 set to ON
  - ⌚ If not, check that the porter's exchange is **not** off, see On-Off light indicator.
  - ⌚ Also check the connections (page 39-40) and configuration (page 37) of the converter.
- ☞ The image does not show in the porter's exchange.
  - ⌚ Remember that images are only shown from calls made from door panels with camera.
  - ⌚ Check that the voltage between the '-' and '+' terminals of the distributor is from 17.5 to 18.5Vc.c., if not, check the power supply and its connections.
  - ⌚ Check that you have used the correct output of the converter for the coaxial cable (VCE and GND) and that the number 2 dip switch is OFF and number 3 is ON.

**Backbone encoder mode (General door panels)**

- ☞ Calls cannot be made from the general door panels.
  - ⌚ Check if calls can be made from the inner door panels.
  - ⌚ If yes, make sure you have correctly programmed the backbone in the converters (page 38) and revise the connections (page 41-42) and configuration (page 37) of the converters, remember set to **ON** the number 1 dip switch only if you do not have the **VISTA PLUS** door panel in the building or backbone.
  - ⌚ If not, revise the monitor's programming (see door panel manual) and program it again if necessary.
  - ⌚ Check that the voltage between the '-' and '+' terminals of the different elements is from 17.5 to 18.5Vc.c., if not, check the power supply and its connections.
- ☞ No image is shown when receiving calls from the general door panels.
  - ⌚ Remember that images are only shown from calls made from door panels with camera.
  - ⌚ Check that the correct inputs and outputs have been used for this type of installation (see diagram on page 41-42), that the number 2 dip switch is ON and number 3 is OFF and that only the end of line resistor (JP2) of the last converter is activated.
- ☞ The converter cannot be programmed.
  - ⌚ Check that the coded panel is in configuration mode before setting the number 4 dip switch to ON (see page 37) and that the programming steps are correctly followed.
  - ⌚ Check that 'A/D' terminal is not shortcircuited with other terminals.

**Backbone encoder mode (Coded panel)**

- ☞ Calls cannot be made.
  - ⌚ Remember that the system remains inactive for 45 seconds after connecting the power supply, the same occurs upon connecting any unit to the installation.
  - ⌚ Make sure that the converter does not have any backbone programmed. To do this set dip switch number 2 to the OFF position and number 3 to the ON position, then set them again to the correct position (2 in ON and 3 in OFF), this resets the backbone programming.
  - ⌚ Revise the converter connections (page 43-44) and configuration (page 37), remember set to **ON** the number 1 dip switch only if you do not have the **VISTA PLUS** door panel in the building or backbone.
  - ⌚ Check that the voltage between the '-' and '+' terminals of the different elements is from 17.5 to 18.5Vc.c., if not, check the power supply and its connections.

☞ No image is shown when receiving calls from the door panel.

- ☞ Remember that images are only shown from calls made from door panels with camera.
- ☞ Check that the correct converter input and output have been used for this type of installation (see diagram on page 43-44), that the dip switches are in the correct position (2 in ON and 3 in OFF) and that the end of line resistor (JP2) is activated.

**Any mode**

☞ Nothing operates.

- ☞ Remember that the system remains inactive for 45 seconds after connecting the power supply, the same occurs upon connecting any unit to the installation.
- ☞ Check the output power supply voltage between '-' and '+' terminals: it should have 17,5 to 18,5Vd.c. If not, disconnect the power supply from the installation and measure again. If it's correct now, it means there is a short circuit in the installation: disconnect the power supply from mains and check the installation.
- ☞ Check that 'A/D' terminal is not shortcircuited with '-' or '+' terminals.

☞ Continuous audio feedback.

- ☞ Check that 'A/D' terminal is not shortcircuited with other terminals.

☞ There is no sound

- ☞ Check that you have used the correct terminals (see diagrams on pages 39 to 44).



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