



*EL632/G+/48*



# **INSTALLER MANUAL**

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## 1. SAFETY, CAUTIONS AND WARNINGS

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- The installation and setup of this equipment must be done by an authorized installer in a suitable surface and following the current regulations.
- Do not touch the device with wet hands, or using cleaning liquids or aerosols.
- Install the device in a dry and secure area, protected against water drops or sprays.
- Avoid placing the device close to heating/cooling sources, humid or dusty areas.
- Do not cover the device ventilation openings to assure air flow circulation.
- Do not open the device cover or manipulate the monitor's electric circuit.
- Danger of electric shock.

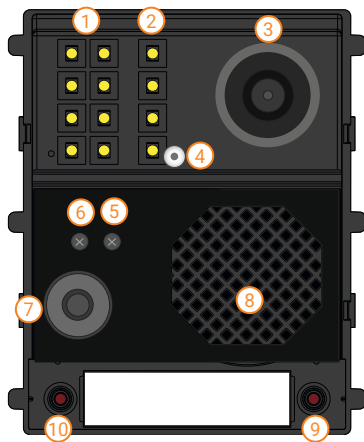
## 2. IP G+ SYSTEM SPECIFICATIONS

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- TCP/IP video intercom system with technology IP G+.
- Installation over ethernet network.
- Up to 98 blocks in one system.
- Up to 99 entry panels at each block.
- Up to 99 general panels at each installation.
- Up to 799 flats per each block.
- Up to 19 guard units for the general compound and 9 guard units at each block.
- Up to 256 ONVIF cameras and 30 SIP servers.

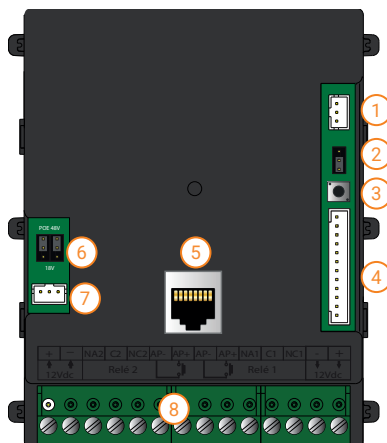
### 3. MODULE DESCRIPTION

A. Front:



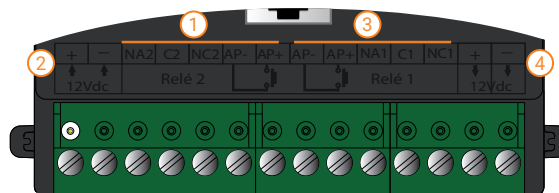
- ① Illumination leds
- ② Panel status leds
- ③ Wide angle camera
- ④ Light sensor
- ⑤ Not used
- ⑥ Speaker adjustments
- ⑦ Microphone
- ⑧ Speaker
- ⑨ P1 push button
- ⑩ P2 push button

B. Back:



- ① External microphone and speaker connector
- ② External audio source selection jumper
- ③ Tact programming button
- ④ EL610D push buttons module connector
- ⑤ RJ-45 LAN connector
- ⑥ Supply voltage selector jumper
- ⑦ Removable terminals
- ⑧ ILA connector (Inductive loop amplifier)

### 4. CONNECTION TERMINALS DESCRIPTION



- ① NA2: normally open dry contact (relay 2).  
C2: common terminal (relay 2).  
NC2: normally closed dry contact (relay 2).  
AP-: exit button terminal (relay 2).  
AP+: exit button terminal (relay 2).
- ② +, -: 12Vdc door lock output
- ③ AP-: exit button terminal (relay 1).  
AP+: exit button terminal (relay 1).  
NA1: normally open dry contact (relay 1).  
C1: common terminal (relay 1).  
NC1: normally closed dry contact (relay 1).
- ④ +, -: local power supply (HRF-12/1.25A).

## 5. JUMPERS DESCRIPTION

This jumper on the right side of the module selects the audio source. In case would like to use an existing external microphone and speaker, the position of the jumper should be as follows:



- Position 1-2 (default).  
Internal built-in microphone and speaker



- Position 2-3.  
External microphone and speaker.

The jumper on the left side of the module selects the supply voltage for the proper operation of the device. It has to change its location as follows:



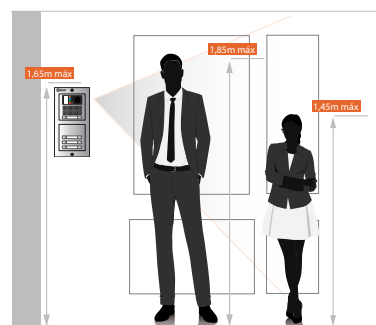
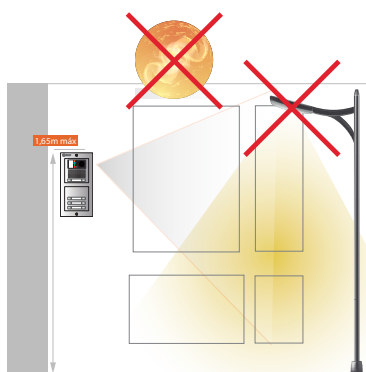
- Position 48V (default).  
The device is ready to be supplied at 48V from a standard PoE switch.



- Position 18V.  
NOT USE

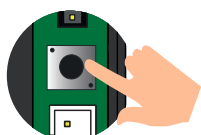
## 6. ENTRY PANEL LOCATION

1. Avoid exposing the panel to backlighting from light sources for optimal picture quality.
2. Place the top of the panel at a height of 1,65 m for a correct viewing of the screen.



## 7. MODULE CONFIGURATION

- The master panel (Block 1, Panel 1), can be set without the use of any computer through the TACT button.



To set the panel as master, press the TACT button 5 times. The module leds will blink. The new address of the module will change to 10.0.14.9.

- For other settings it will be necessary to get connected to the web server of the module as detailed in next section.
- In case it is necessary to reset the module to factory default settings:



Keep pressed for 5 seconds the TACT button, leds will blink. The module will boot and the address will be again the factory default 10.0.0.254.

- In both cases the module leds will blink three times to confirm that the process has been correctly completed.

**IMPORTANT:** these processes delete the module data base and configuration. In case that the module was previously set-up, it is strongly recommended to previously save the configuration and data base using the export option (through the Web Server).

## 7.1 Module registration by Web Server

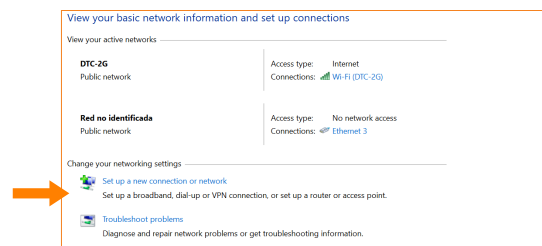
The EL632/G+ can only be set as a block panel (block 1 - 98), not being possible to set as general panel (block 99). When the number of block and panel needs to be different than 1 or it is required to adjust any other setting, it will be mandatory to use the web server.

The factory IP address of the panel is 10.0.0.254. Check that your computer network connection is in the same range. To change your computer network parameters perform the following step.

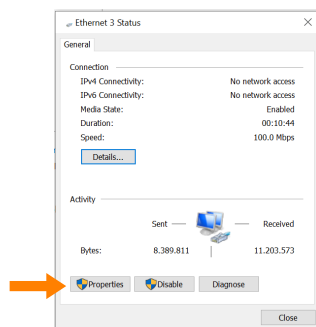
Go To network settings in control panel.



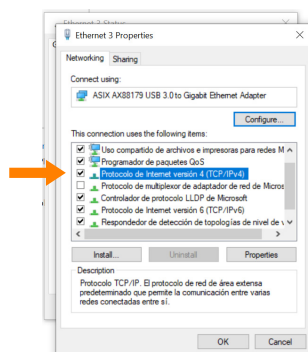
Change the active Ethernet network.



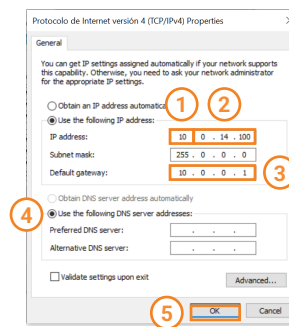
Enter into "properties".



Select Internet protocol IPv4.



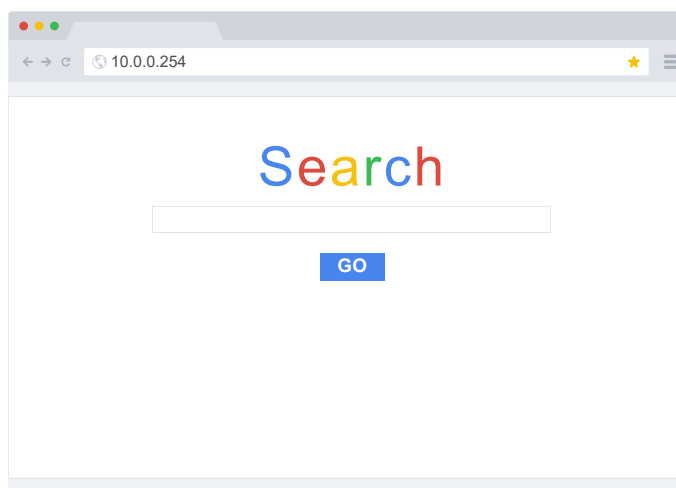
Enter into "properties".



- ① IP address should start by 10
- ② Next three numbers should have a value lower than 255
- ③ Assign 10.0.0.1 as Gateway
- ④ Do not assign DNS
- ⑤ Confirm settings

Now the computer is configured to work in the same IP range as the panel.

Type the IP in the browser: Factory IP is 10.0.0.254.



Log into the webserver.



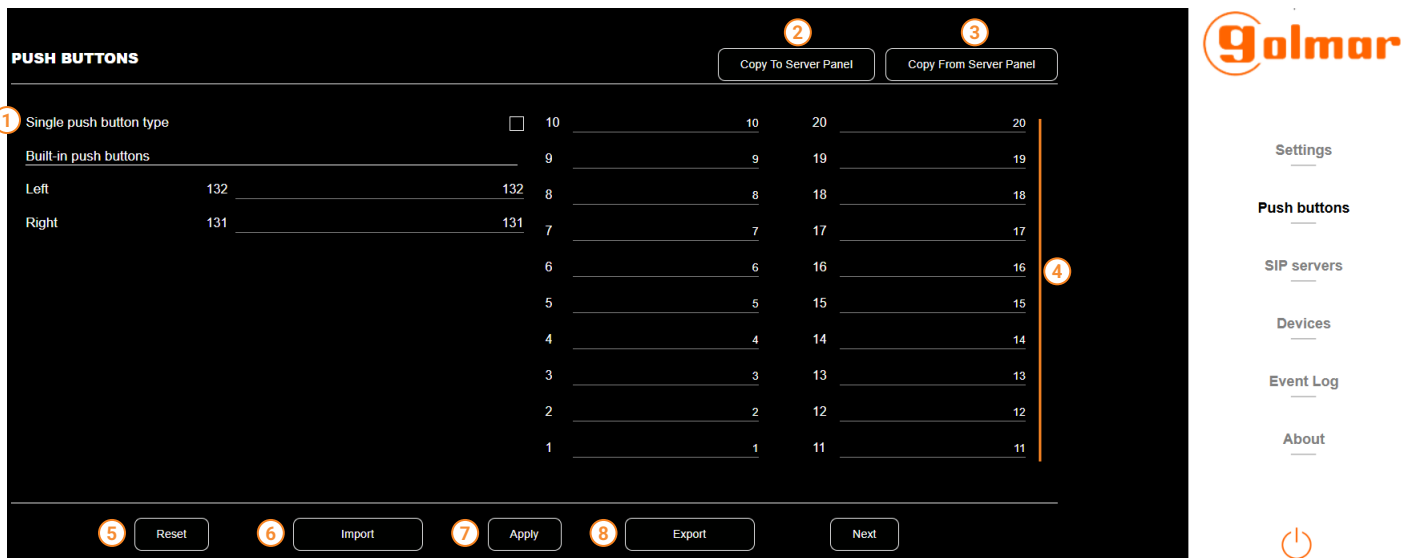
The default password is 2718.

## 7.2 Settings

- ① Language code
- ② Block number 1 to 98
- ③ Door panel number 1 to 99
- ④ Floor number 1 to 799
- ⑤ Time
- ⑥ Date
- ⑦ Allow devices edition: this option will allow the end user to edit the name from the monitor "User setting" screen
- ⑧ Language code list
- ⑨ Network parameters
- ⑩ Associate an IP Camera: this option will allow to stream the video from an external IP camera by ONVIF protocol. The camera needs to be added into the panel devices list first.
- ⑪ Enable to show this camera by default
- ⑫ Apply established settings
- ⑬ Go to the following

- ① Enables image capture on motion detection (requieres external push button or motion sensor images are sent to the indoor monitor)
- ② Make calls with an external push button
- ③ Video transmission using the SIP protocol
- ④ Video transmission using the VGA protocol
- ⑤ Configures the front night-vision LEDs (0: OFF, 1: ON, 2: Auto)
- ⑥ Acoustic message language code
- ⑦ Relay 1 unlock time 1 - 15s
- ⑧ Exit button mode (lock1)
- ⑨ Exit button operation delay time
- ⑩ Unlock modes

## 7.3 Push buttons



① By default the module is set as double button configuration, being both buttons at each row on EL610D enabled. It is possible to set the module as single push button. In that case, the operative buttons will be the ones marked as 1,3,5,7 and 9 at the module EL610D.

② Sends the current push-button configuration to the server panel.

③ Copy the current push-button configuration from the server panel

④ Default call addresses. The values for both single and double push buttons are modifiable. Allowing up to 6 different call addresses to be assigned to each push button, as well as assigning the same call address to multiple push buttons

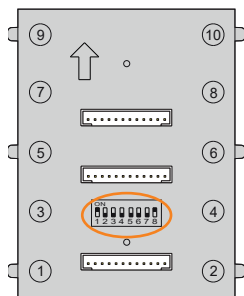
⑤ Reset, set the default values

⑥ Import configuration about push buttons

⑦ Apply modifications

⑧ Export configuration about push buttons

### 7.3.1 EL610D dip Switch configuration



The dip switch configuration of the EL610D module will be set as shown in the next table.

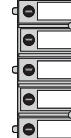
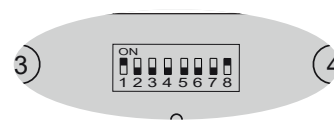
In the following table it is detailed the default address of each button and the corresponding EL610D dip switch configuration.

#### DOUBLE BUTTON

| EL610D DIP SWITCH |     |     |     |     |     |     |     | PUSH BUTTON CALLING ADDRESS |     |     |     |     |     |     |     |     |     |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1                 | 2   | 3   | 4   | 5   | 6   | 7   | 8   | P1                          | P2  | P3  | P4  | P5  | P6  | P7  | P8  | P9  | P10 |
| ON                | OFF | OFF | OFF | OFF | OFF | OFF | ON  | 1                           | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |
| OFF               | ON  | OFF | OFF | OFF | OFF | OFF | ON  | 11                          | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| OFF               | OFF | ON  | OFF | OFF | OFF | OFF | ON  | 21                          | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  |
| OFF               | OFF | OFF | ON  | OFF | OFF | OFF | ON  | 31                          | 32  | 33  | 34  | 35  | 36  | 37  | 38  | 39  | 40  |
| OFF               | OFF | OFF | OFF | ON  | OFF | OFF | ON  | 41                          | 42  | 43  | 44  | 45  | 46  | 47  | 48  | 49  | 50  |
| OFF               | OFF | OFF | OFF | OFF | ON  | OFF | ON  | 51                          | 52  | 53  | 54  | 55  | 56  | 57  | 58  | 59  | 60  |
| OFF               | OFF | OFF | OFF | OFF | OFF | ON  | ON  | 61                          | 62  | 63  | 64  | 65  | 66  | 67  | 68  | 69  | 70  |
| ON                | OFF | OFF | OFF | OFF | OFF | OFF | OFF | 71                          | 72  | 73  | 74  | 75  | 76  | 77  | 78  | 79  | 80  |
| OFF               | ON  | OFF | OFF | OFF | OFF | OFF | OFF | 81                          | 82  | 83  | 84  | 85  | 86  | 87  | 88  | 89  | 90  |
| OFF               | OFF | ON  | OFF | OFF | OFF | OFF | OFF | 91                          | 92  | 93  | 94  | 95  | 96  | 97  | 98  | 99  | 100 |
| OFF               | OFF | OFF | ON  | OFF | OFF | OFF | OFF | 101                         | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 |
| OFF               | OFF | OFF | OFF | ON  | OFF | OFF | OFF | 111                         | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
| OFF               | OFF | OFF | OFF | OFF | ON  | OFF | OFF | 121                         | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 |

#### SINGLE BUTTON

| EL610D DIP SWITCH |     |     |     |     |     |     |     | PUSH BUTTON CALLING ADDRESS |    |    |    |    |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----------------------------|----|----|----|----|
| 1                 | 2   | 3   | 4   | 5   | 6   | 7   | 8   | P1                          | P3 | P5 | P7 | P9 |
| ON                | OFF | OFF | OFF | OFF | OFF | OFF | ON  | 1                           | 2  | 3  | 4  | 5  |
| OFF               | ON  | OFF | OFF | OFF | OFF | OFF | ON  | 6                           | 7  | 8  | 9  | 10 |
| OFF               | OFF | ON  | OFF | OFF | OFF | OFF | ON  | 11                          | 12 | 13 | 14 | 15 |
| OFF               | OFF | OFF | ON  | OFF | OFF | OFF | ON  | 16                          | 17 | 18 | 19 | 20 |
| OFF               | OFF | OFF | OFF | ON  | OFF | OFF | ON  | 21                          | 22 | 23 | 24 | 25 |
| OFF               | OFF | OFF | OFF | OFF | ON  | OFF | ON  | 26                          | 27 | 28 | 29 | 30 |
| OFF               | OFF | OFF | OFF | OFF | OFF | ON  | ON  | 31                          | 32 | 33 | 34 | 35 |
| ON                | OFF | OFF | OFF | OFF | OFF | OFF | OFF | 36                          | 37 | 38 | 39 | 40 |
| OFF               | ON  | OFF | OFF | OFF | OFF | OFF | OFF | 41                          | 42 | 43 | 44 | 45 |
| OFF               | OFF | ON  | OFF | OFF | OFF | OFF | OFF | 46                          | 47 | 48 | 49 | 50 |
| OFF               | OFF | OFF | ON  | OFF | OFF | OFF | OFF | 51                          | 52 | 53 | 54 | 55 |
| OFF               | OFF | OFF | OFF | ON  | OFF | OFF | OFF | 56                          | 57 | 58 | 59 | 60 |
| OFF               | OFF | OFF | OFF | OFF | ON  | OFF | OFF | 61                          | 62 | 63 | 64 | 65 |

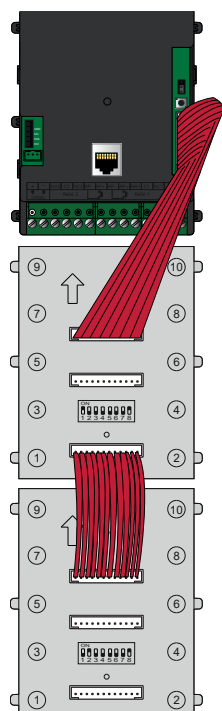




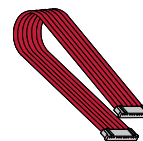


The built-in push buttons of the EL632/G+ module have the following call address: When set as double push button, 132 (left), 131 (right).  
In case of single button, the operative button will be the one on the right and its calling address is 66.

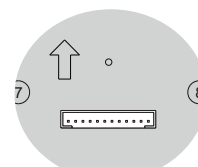
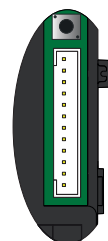
### 7.3.2 Connection of EL632/G+ to the push buttons module EL610D



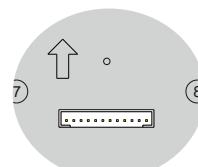
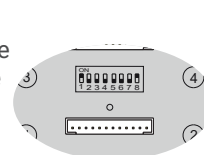
To connect the module EL632/G+ to the modules EL610D, use the ribbon cable RAP610D supplied with the buttons module.



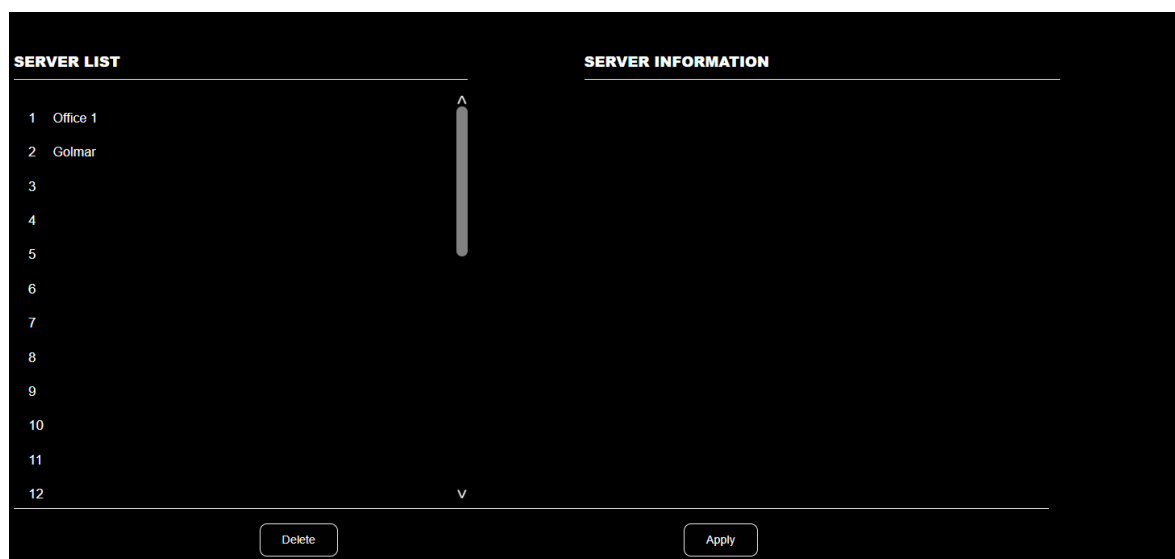
Connect one end at the 12 pin connector located at EL632/G+/48 and the other end at the EL610D push buttons module at the upper terminal.



Link all push buttons modules EL610D in daisy-chain, by connecting the bottom terminal to the upper terminal of the next push buttons module using the ribbon cable.



### 7.4 SIP servers



In the SIP Server section, we will be able to add the device in the SIP server or PABX switchboard registered in the master panel previously. If the registration is successful, the panel will be able to make calls from SIP devices included in the system using the extensions assigned to the monitor in the SIP server.

**SERVER INFORMATION**

① Enabled ☐

② Name \_\_\_\_\_

③ IP Address \_\_\_\_\_

④ Port \_\_\_\_\_

⑤ User \_\_\_\_\_

⑥ Password \_\_\_\_\_

⑦ Transmission mode \* \_\_\_\_\_

\* Transmission modes

0 UDP - 1 TCP

Apply

- ① Enable/Disable the SIP Server
- ② Name of the SIP Server
- ③ IP Address of the SIP Server
- ④ Communication port 5060 by default
- ⑤ Created extension for the door panel
- ⑥ Password of the created extension
- ⑦ Transmission mode (0-UDP - 1-TCP)

User and password created in the PABX switchboard

**Note:** Golmar does not guarantee the full compatibility with all SIP server platforms. If your server is not compatible, for further support, please contact Golmar technical service.

## 7.5 Devices

In the "Devices" section, it is possible to check which devices, such as monitors, panels or CCTV cameras are registered in the system and edit them.

**Note:** devices section is only visible in the master panel, since this is the one which manages the system devices registrations.

**DEVICES**

**DEVICE LIST**

- Block 1
  - ① 001
    - ② Panel 1
    - PARKING

**DEVICE INFORMATION**

Export Import Add Camera Add SIP Device

Settings  
Push buttons  
SIP servers  
**Devices**  
Event Log  
About

Power

### ① Monitor edition:

It is possible to modify the name of the monitors appearing on the panels namelist, check which IP address has been assigned, and set a floor number to which the monitor belongs, if there is any lift control unit in the system.

### ② Door panel edition:

It is possible to modify the names of the panel which appears in the devices list, check which IP address they have, and set a floor number, if there is any lift control unit in the system. It is also possible to manage the visibility, to set which apartments can preview the door panel images and which cannot.

### ③ Export devices list:

It is very important to make a backup of the panels device list configuration. In case the master panel is to be serviced, we can easily upload the devices configuration into the new panel using this file.

#### ④ CCTV camera:

It is possible to add CCTV cameras, which are connected into the network. The cameras need to be ONVIF compatible and they need to be in the same IP network range. Golmar only guarantees full compatibility with Golmar Cameras.

### ADD CAMERA

Name

IP Address

User

Password

Cancel

Add

- Name: set as name for the camera.

- IP Address: IP address of the IP CCTV camera.

- User: user of the CCTV camera webserver.

- Password: password to acces the camera webserver.

The CCTV camera needs to set the video parameters:

Stream channel: Substream

Resolution: 640x480 max

FPS: 25

Compression: H.264

Codification: Baseline

Biterate: CBR, 512

Frame interval: 20ms

## 7.6 Event log

| Event type                     | Address / Code |            | Time     | Date |
|--------------------------------|----------------|------------|----------|------|
| call end                       | 1001           | 2026-08-28 | 06:45:59 |      |
| Lock 1 activation              | 1001           | 2026-08-28 | 06:45:56 |      |
| Call Communication established | 1001           | 2026-08-28 | 06:45:54 |      |
| Call to                        | 1001           | 2026-08-28 | 06:45:46 |      |

Export

Settings

Push buttons

SIP servers

Devices

Event Log

About



In the "Event log" section it is possible to check the events in the installation, and which devices involve. It is possible to see the time and date when the event occurred and export the event log list into an txt file.

## 7.7 About

In the “About” section, it is possible to check the local information of the device as the physical address, and the network parameters. It is also possible to check the firmware and hardware version and modify the password to access to the settings.

| LOCAL INFORMATION |                      | UNIT VERSION |        |
|-------------------|----------------------|--------------|--------|
| Block number      | 1                    | Hardware     | ver. a |
| Apartment address | 1                    | Firmware     | 2.0.1  |
| Monitor unit      | 1                    |              |        |
| Local IP          | 10.0.7.105           |              |        |
| Subnet Mask       | 255.0.0.0            |              |        |
| Gateway           | 10.0.0.1             |              |        |
| Server IP         | 10.0.14.9            |              |        |
| Mac Address       | aa:bb:cc:dd:ee:ff:00 |              |        |

**1** **PASSWORD**

|               |      |
|---------------|------|
| Administrator | 2718 |
|---------------|------|

Apply

**2** Reboot

**3** Restore

**4** Update

Settings

Sip Server

About

① Modify password

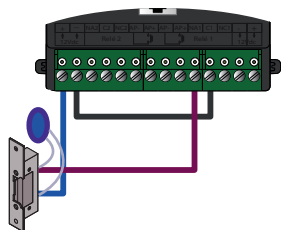
③ Restore

② Reboot

④ Update FW version

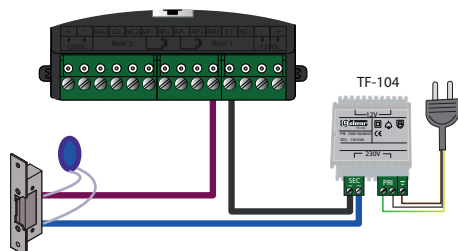
## 8. TYPICAL CONNECTION

### A. DC DOOR LOCK CONNECTION



Electric strike máx.  
12Vcc/270mA

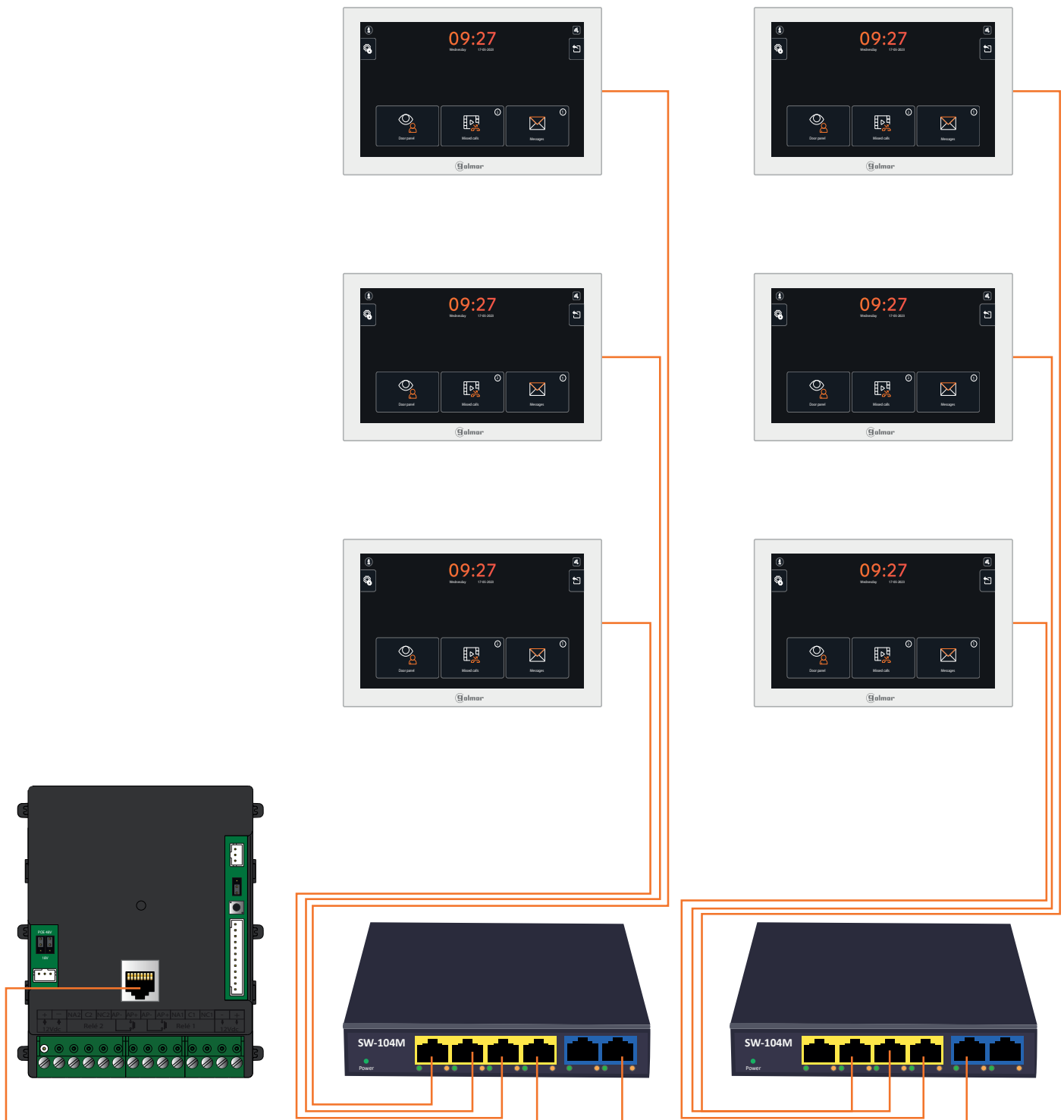
### B. AC DOOR LOCK CONNECTION



Electric strike máx.  
12Vca/850mA

## 9. TYPICAL NETWORK CONNECTION LAYOUT.

- This type of installation is done using PoE switches with compliance with IEE 802.3af. We strongly recommend to use Golmar PoE switches SW-104, SW-108, SW-116 and SW-124.
- In case of Golmar switches, do not use port #1 for panels. Reserve it for monitors or audio units.
- Network distances need to respect 100m between points.
- PoE switches need to be linked using the Up-Link, we recommend not to daisy-chain more than 14 PoE switches by the Up-Link port. Use another base switch instead as shown in the diagram.



## 10. DAISY-CHAIN IP G+ BUS CONNECTION

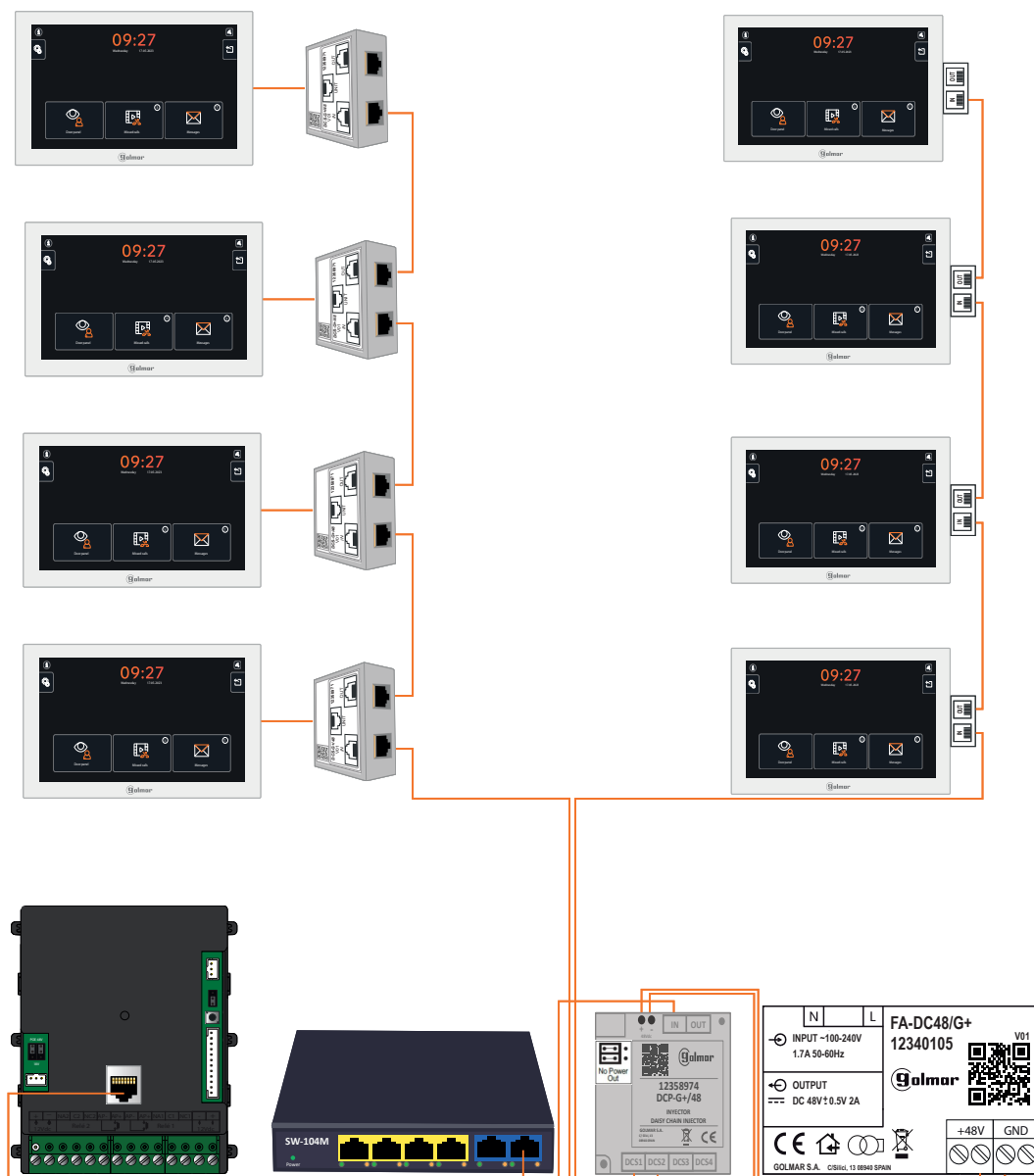
Golmar developed a BUS solution for IP installations, which makes more flexible the connectivity and layout of the installations as if it was a traditional BUS topology.

It is possible to make connections in daisy-chain (in-out) thanks to Golmar IP G+ BUS. To do so, use the DCP-G+/48 and DCS-G+/48 switches or use an Edge 7/IO/G+ monitor which has input and output LAN ports.

Necessary elements to complete an installation in daisy-chain (in-out):

- FA-DC48/G+ power supply for each DCP/G+ injector.
- Each DCP-G+/48 injector can power up to 19 EDGE monitors.
- Use a DCS-G+ units for each monitor in the connection chain of monitors.
- Choose Sixtys/G+ door panels, or a modular composition for the EL632/G+ panel or Clip/G+ panel to be able to register all the units in it and set a video intercom system as below.
- Power on the door panels through standard PoE switches or directly into the DCP-G+/48 output.
- It is possible to connect an other DCP-G+/48 at the output of a DCP-G+/48. Respect a limit of 40 devices connected through the in-out ports to avoid the latency of the system to become too high.

We recommend to use FA-DC48/G+ power supply (48Vdc 3 Amp). Other power supplies might be used to reach a higher number of monitors in the chain. Consult our customer service for such request.





**we take care of your** home

**Golmar Sistemas de Comunicación S.A.**

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