



Sixty5 Coded Panel

**6502/G+**



# INSTALLER MANUAL

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## 1. SAFETY, CAUTIONS AND WARNINGS

- 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

- 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 19 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. PANEL DESCRIPTION

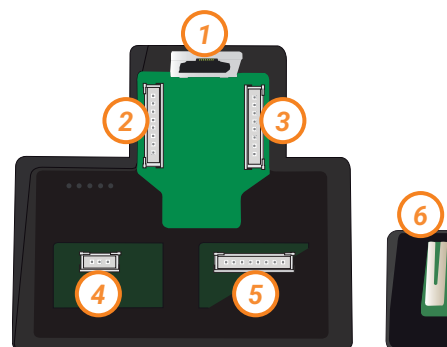
### A. Front:

- ① IK07 and IP65  
Working temperature: -40~60°C
- ② 130° wide angle camera
- ③ White LEDs for night vision  
IR sensor
- ④ 4,3" TFT LCD 480 x 272 px
- ⑤ Navigation menu
- ⑥ Numeric keypad
- ⑦ RFID Reader  
Light sensor
- ⑧ Board fixing screws
- ⑨ Header
- ⑩ Head fixing screw



### B. Connection terminal:

- ① RJ-45 LAN connectors
- ② 2SAFE connector (I)
- ③ Wiegand connector (I)
- ④ 12V connector (II)
- ⑤ Relays block
- ⑥ Anti-vandal tamper

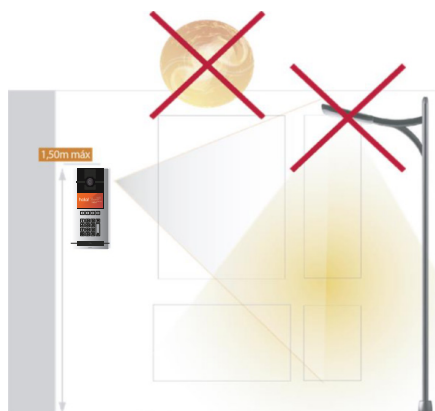


(I) Reffer to **IP Opener manuals** for Wiegand and 2SAFE connections.

(II) In case to power the panel with a local power supply, the ethernet cable cannot be connected to a PoE output of the switch.

## 4. PANEL INSTALLATION

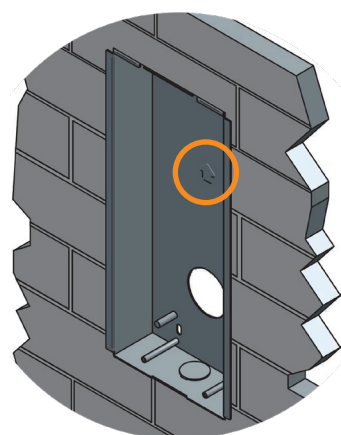
1. Avoid locating the panel exposed to direct sun light or external light sources like streetlamps, to get a good image.



2. Locate the top part of the entry panel at 1,65m height from ground.

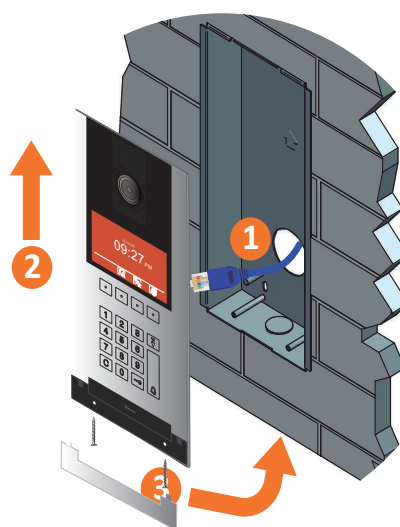


3. Make a hole in the wall where to fit the embedding box CE-6502/G+. The dimensions of the box are 132(W) x 308(H) x 45(D). Assure the box is fixed upside correctly.

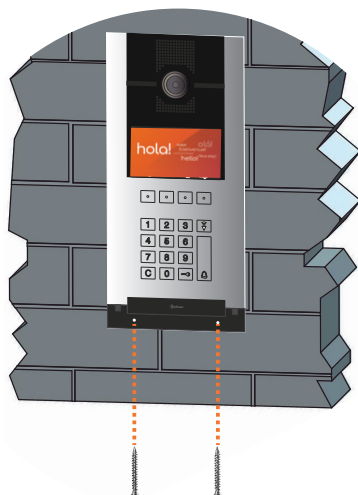


Mind the embedding box orientation.  
It is recommended to follow the instructions and tips mentioned in the embedding box mount guide.

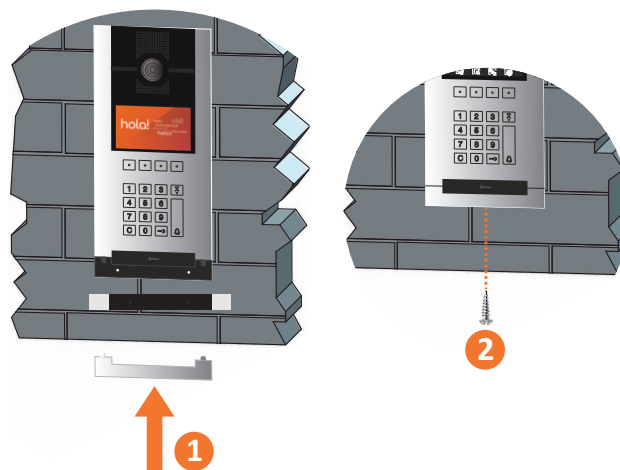
4. Connect the ethernet cable ① and hang the upper part of the panel in the nails which protrude out of the box ②, then tilt the panel to fit into the bottom part of the box ③.



5. Fix the bottom part of the panel using the screws supplied.



6. Slide up the header supplied, to cover the bottom part of the panel and tight the screws (III) underneath.



(III) Header screw should be tight using the supplied tool.



For a **manual assignment** of the IP parameters, follow the same process as described, but in step 3, choose the **Manual mode**, then follow the steps described below.

- 3**



- Enter the device IP address.
  - Enter the subnet mask.
  - Enter the gateway.
  - Server IP: It corresponds to the local IP address that has been set to the master panel. This IP address is the local IP address that has been set at the door panel number 1 of the building number 1. Then press validate.
  - Enter the DNS address and press validate.

#### C. About section & review the registered configuration:

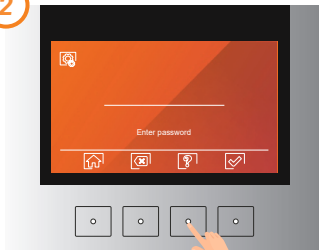
Review the network parameters and physical address set to this panel in the "About" page (V). To access follow this steps:

- 1**



From the home page; press 5 times in the first navigation push button.

**2**



Press over the navigation push button below the "?" icon.

**3**



In the about section you can check the door panel configuration parameters (V).

(V) In the about page you will find the UID of the panel for the remote management as described in the section 7 of this manual. In this page it can be changed the time and date. This is the way the end user can change the time without need to access the installer menus.

## 5.2 Installer configuration menus

To access the different configuration menus of the panel, from the home page follow the next steps:

- 1**



Press 5 times over the 1st navigation button and enter the **2718** password.

**2**



Navigate through the options by using the arrows and press validate to access to the option.

#### A. Door panel menu:

In the door panel section you will find the following options:

- 

- Address: You can change here the panel address and network settings.
  - Display: Change different screen parameters like;
    - Welcome page delay time.
    - Screen TFT brightness.
    - Adjust the time and date, as well the format (dd/mm/yyyy).
    - Native user interface language.

- Video: Select video source parameters;
  - Primary video source: chose between panel built-in camera or other associated camera. Needs to be added in the webserver.
  - Led illumination behaviour: Automatic, Always On or Off.
  - Local video: shows visitor on screen when calling.
- Audio: Set audio level, vocal messages parameters, beep tones enabled by pressing the keys and tamper alarms.
- Special calling modes: Change here the way of calling of the panel;
  - Set villa mode: The panel will automatically call to its building address 1 by pressing the bell button.
  - Guard button: Enables the guard button. It will call to the set guard if only one exists, or will show the available guards.
  - Second call list: Use a second relational table, for calling the monitor addresses, which needs to be edited from the webserver of the master panel.
  - Alphanumeric dialling method: Allows to use dialling codes containing numbers and letters. Second call list needs to be enabled first.
  - ABCD Keypad: Simplifies the search and dialling of alphanumeric codes limited to A, B, C, D letters.
  - Hide language icon: Hides the option to change the language by the end user at the home page.
  - Double security: It obliges the end user to set his own PIN code after showing the RFID access card.

#### B. Access menu:

In the access section you will find the following submenu:



- Lock 1: Set the door lock unlock time and exit button delay time for lock 1.
- Lock 2: Set the door lock unlock time and exit button delay time for lock 2.
- Access code: Set if need to open 1 or 2 door locks by the access codes and RFID access cards.
- Access cards: Allow to register or delete user and administrator RFID access cards.

#### C. Password menu:

The password menu allows the installer PIN code to be changed.



Take note about the PIN code if changed, if lost it will be necessary to contact Golmar customer service.

#### D. About menu:

In the about section you will find the following submenu:



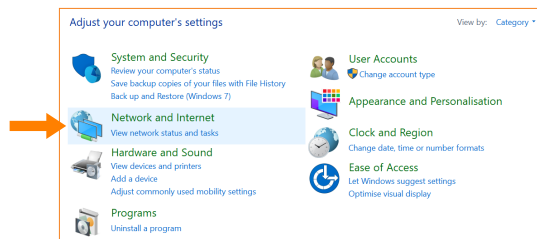
- Reset user settings: It returns the panel to the default user parameters.
- Reset all settings: It will boot the panel to factory default status.
- Instructions manual: Show the QR code with the panel manual URL.
- System info: Shows all panel address and network parameters as well the cloud ID to connect remotely when connected to Internet.

## 6. CONFIGURATION BY WEBSERVER

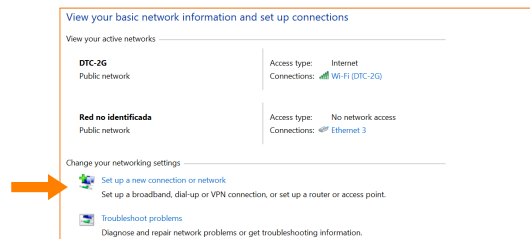
6502/G+ coded panel can be configured via its webserver. To do this, you need to connect your computer to the network.

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 steps:

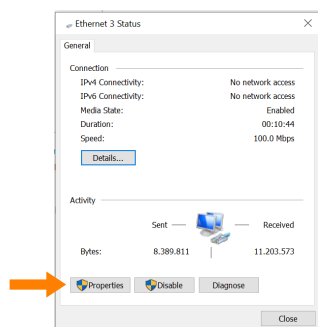
1. Go to network settings in control panel:



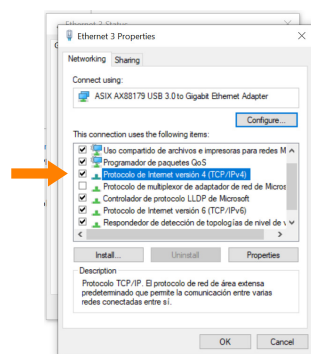
2. Change the active Ethernet network:



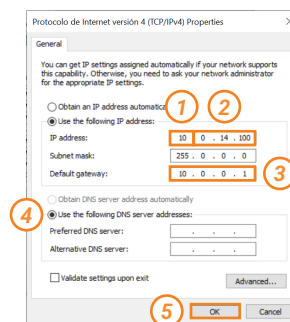
3. Enter into "properties":



4. Select Internet protocol IPv4:



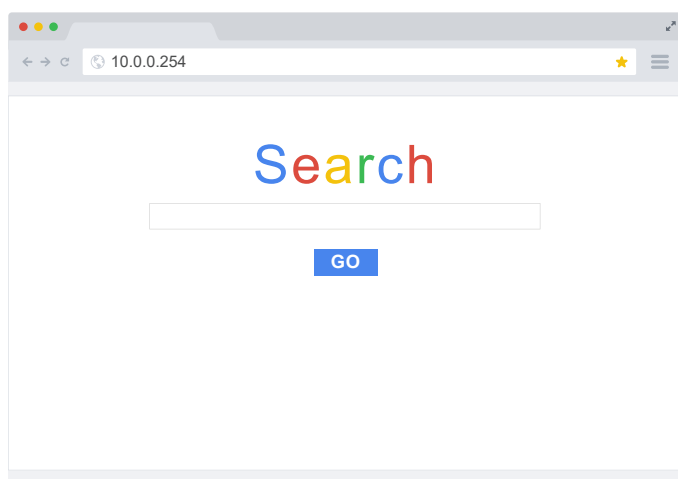
5. Set the IP range:



- 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: 10.0.0.254 (factory value)

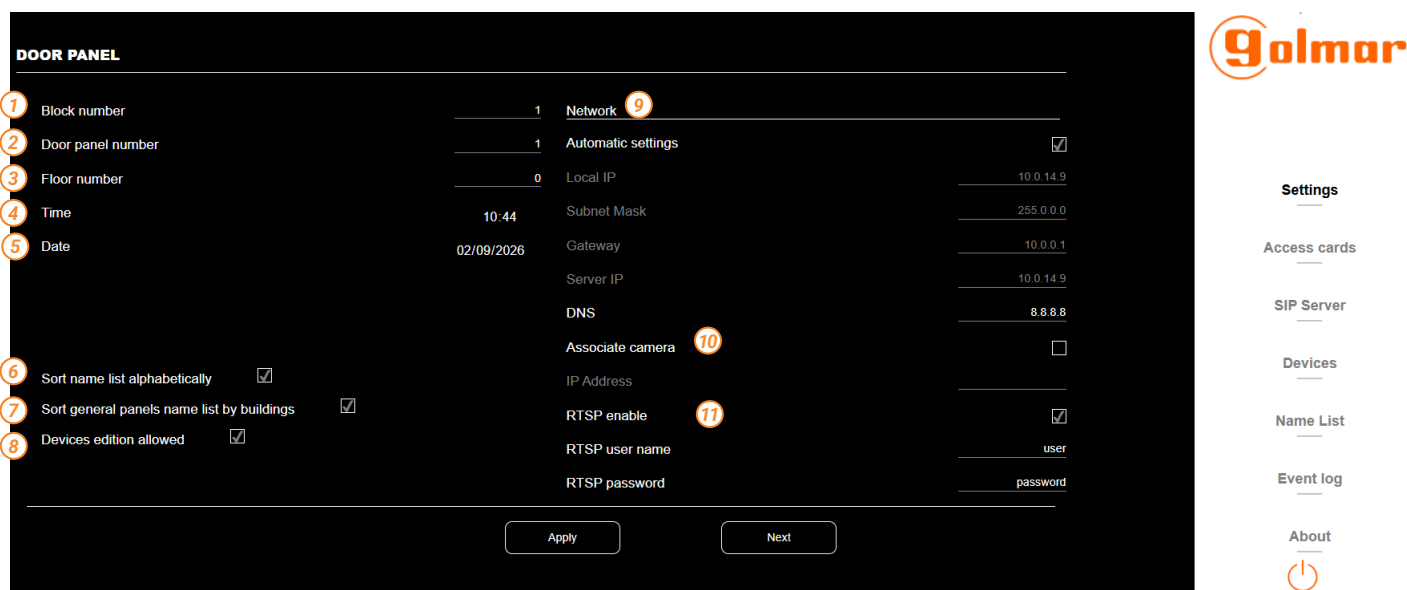


- Login to the webserver. The default password is 2718.



## 6.1 Settings

The initial screen of the web client is described below:



- ① Block number 1 to 98 (V)
- ② Door panel number 1 to 99
- ③ Floor number 1 to 799
- ④ Time
- ⑤ Date
- ⑥ Sort name list alphabetically
- ⑦ Separate general door panels' name list by buildings
- ⑧ Device edition by itself
- ⑨ Network parameters (VII)
- ⑩ Associate an IP Camera
- ⑪ RTSP protocol for integrate with NVR

(VI) In case of a general panel, set the block number field as 99.

(VII) If the automatic settings is enabled, it is not needed to assign any network parameter, the door panel will take them automatically.

**Note:** If you want to add your 6502 panel to an NVR, please note that it will occupy one channel and the RTSP protocol must be enabled.

The required RTSP URL is:

rtsp://ip:port/ch

rtsp://10.0.14.9:554/ch01

All panel parameters can be set from the webserver. Some are not available in the panels menu.

- Allow devices edition: This option will allow the end user to edit his own access code and name from the monitor "User setting" screen.
- Sort general panels namelist by buildings: This option will list all users from a site in one single list, unifying all buildings users.
- Associate 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.
- Villa mode: With this mode enabled, by pressing the bell button, the door panel will call the address number 1.
- RTSP enable: Allows that an NVR targets the panel video RTSP stream, so the audio and video from the panel camera can be recorded 24/7. To perform this action contact Golmar customer service. Golmar only grants full compatibility with Golmar CCTV NVR's.

**Settings**

Access cards

SIP Server

Devices

Name List

Event log

About

- |                                   |                                           |
|-----------------------------------|-------------------------------------------|
| ① Display Time & Date             | ⑨ Enable tamper alarm                     |
| ② Language                        | ⑩ Enable pressing confirmation tone       |
| ③ Illumination LEDs               | ⑪ Enable villa mode                       |
| ④ Local video enable              | ⑫ Guard button                            |
| ⑤ Audio communication level       | ⑬ Enable alphanumeric call code           |
| ⑥ Prompt messages volume level    | ⑭ ABCD keypad                             |
| ⑦ Screen brightness               | ⑮ Enable second call code                 |
| ⑧ Enable prompt messages or tones | ⑯ Hide language icon from the main screen |

- Double security: When this function is enabled, the door panel requests to enter the user own access PIN code when an RFIS access card is presented to the RFID reader to open the door.
- Trade button configuration: This function allows the panel to open the door lock selected, by simply pressing the key button. This action only is valid in the preset period of time.
- Access code 1 & 2: This is a generic access code, which can be used by the management of the building. Codes can be between 4 and 12 digits.
- Access cards: Sets if the panel is using or not RFID access cards.

DOOR PANEL

Lock 1

1

Unlock time

2,0

2

Exit button delay time

1,0

Lock 2

3

Unlock time

1,0

4

Exit button delay time

1,0

Access control

5

Double security

☐

6

Access code 1

Access code 2

Access cards

☒

Trade button configuration 7

Trade button activation time

Lock: Lock

1

00:00 to 00:00

Trade button activation days 8

Mon

Tue

Wed

Thu

Fri

Sat

Sun

Previous

Apply

Next

## Settings

Access cards

SIP Server

Devices

Name List

Event log

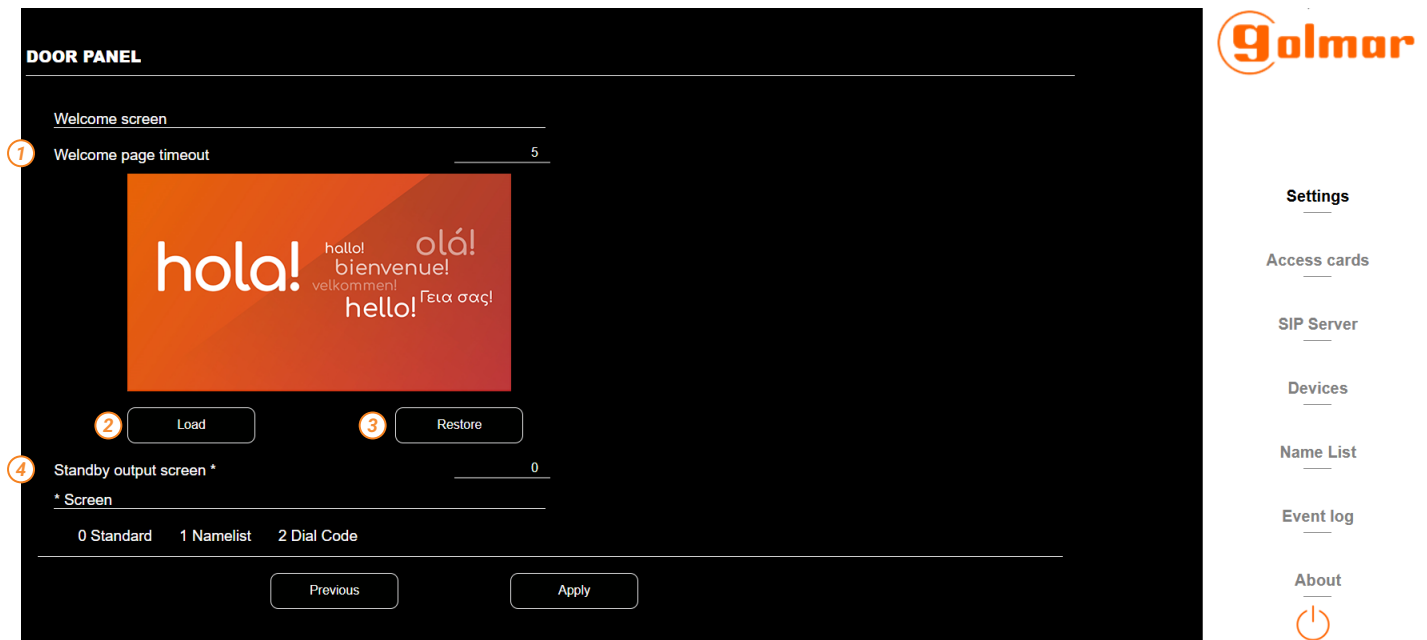
About



- |                                           |                                              |
|-------------------------------------------|----------------------------------------------|
| ① Lock 1 activation time                  | ⑤ Opening with double security               |
| ② Delay time of the Lock 1 AP push button | ⑥ Common access codes                        |
| ③ Lock 2 activation time                  | ⑦ Lock to be opened by the trade button      |
| ④ Delay time of the Lock 2 AP push button | ⑧ Set activation period for the trade button |

### Welcome screen:

Set the welcome page timeout to 0, to avoid showing it when the panel wakes up from idle state.



- ① Welcome screen duration
- ② Upload a new welcome screen (VIII)
- ③ Restore the welcome screen to factory default
- ④ Standby output screen

(VIII) The file must be in BMP format and 480 x 272px.

## 6.2 Access cards

In the "Access cards" section it is possible to check how many access credentials, cards or fobs, are registered in the door panel and to which apartment unit the access credential belongs. The door panel also shows the Card ID number of each access credential.

It is possible to export the access credential list and import an existing file from another door panel in the installation.

### ACCESS CARDS

| Address | Name          | CardID  |
|---------|---------------|---------|
| 1001    | Apartment 1   | 04F027  |
| 1002    | Apartment 2   | a8597c  |
| 1008    | Apartment 8   | 8b729c  |
| 1100    | Apartment 100 | a8be53  |
| 1101    | Apartment 101 | 4336452 |

Export 1

User List 2

Import 3



- Settings
- Access cards**
- SIP Server
- Devices
- Name List
- Event log
- About



- ① Export access credential list file
- ② Export device list Excel file
- ③ Import access credentials list file

## 6.3 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 device’s registrations.

- Monitor’s edition:

It is possible to modify the name of the monitors appearing on the panel’s 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. It is also possible to assign the access code for the monitor unit. It also applies to audio indoor units.

- ① Delete the apartment
- ② Apply changes
- ③ Delete the monitor

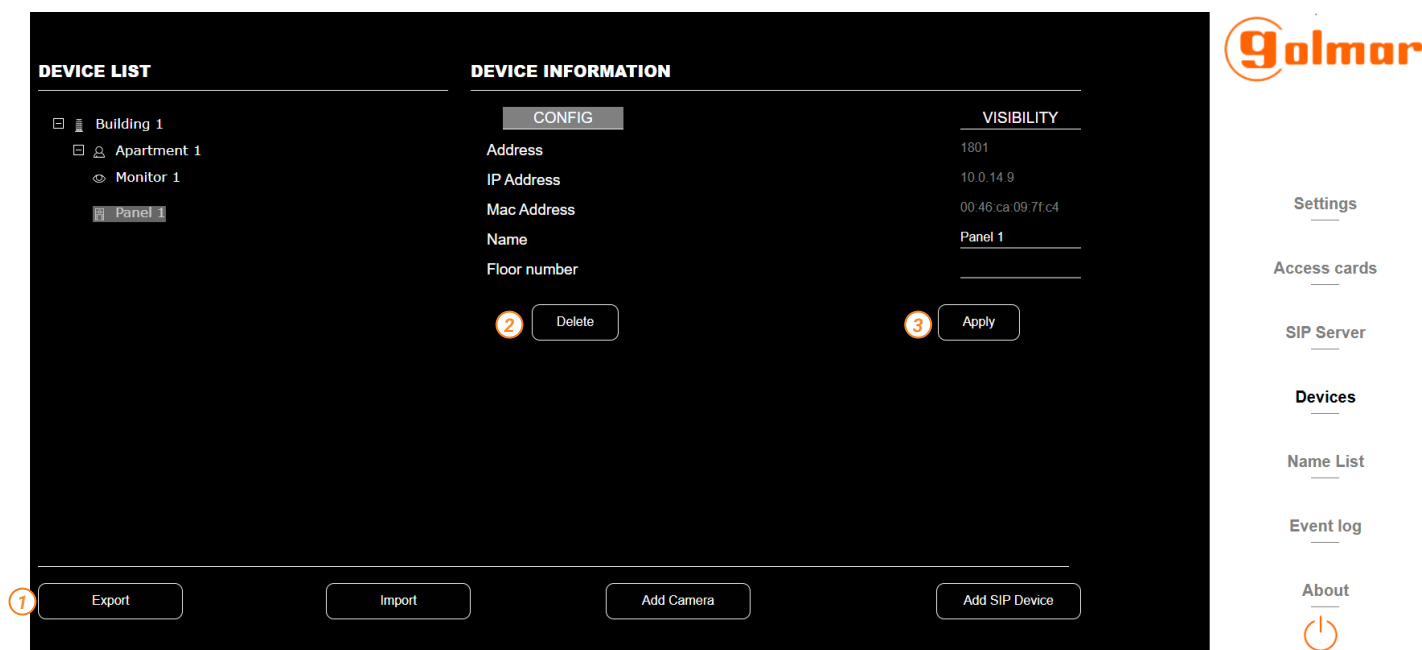
#### - Door panel's edition:

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. General panels are always visible by the monitors.

#### - Export the devices list:

It is very important to make a backup copy of the panel's 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.

A security copy is performed in the local microSD card supplied with the panel. It needs to be plugged into the SD card slot at the panel side. To upload the SD card information to the new panel, contact Golmar customer service.



**DEVICE LIST**

- Building 1
  - Apartment 1
    - Monitor 1
      - Panel 1

**DEVICE INFORMATION**

**CONFIG**

Address: 1801

IP Address: 10.0.14.9

Mac Address: 00:46:ca:09:7f:c4

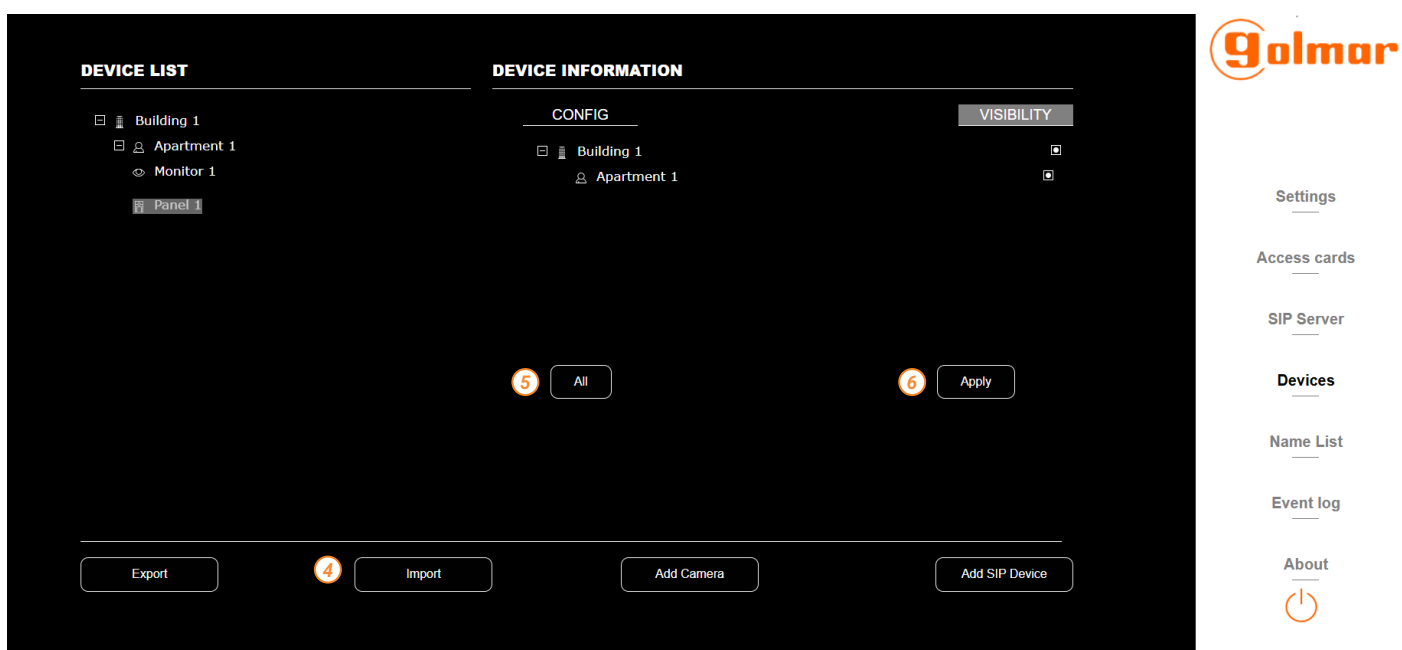
Name: Panel 1

Floor number:

**2** Delete **3** Apply

**1** Export Import Add Camera Add SIP Device

**Visibility:** set which monitors can preview the selected panel without being called.



**DEVICE LIST**

- Building 1
  - Apartment 1
    - Monitor 1
      - Panel 1

**DEVICE INFORMATION**

**CONFIG**

Address: 1801

IP Address: 10.0.14.9

Mac Address: 00:46:ca:09:7f:c4

Name: Panel 1

Floor number:

**5** All **6** Apply

Export **4** Import Add Camera Add SIP Device

**1** Export the device list

**2** Delete the door panel

**3** Apply changes

**4** Import a device list

**5** Select all

**6** Apply changes

- CCTV cameras:

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 grants 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: 640 x 480 max
- FPS: 25
- Compression: H.264
- Codification: Baseline
- Biterate: CBR, 512
- Frame interval: 20ms

## 6.4 SIP Servers and VoIP phones

From the "Devices" section it is possible to add SIP devices. SIP device need to be SIP 2.0 compatible.

### DEVICE LIST

☐

Building 1

☐

Apartment 1

☐

Monitor 1

☐

Panel 1

### ADD SIP DEVICE

1 Name

2 Block

3 Address

4 Connection

\* Connection options

0 IP - 1 to 30 SIP server

Cancel

Add

Settings

Access cards

SIP Server

Devices

Name List

Event log

About

⏻

Export

Import

Add Camera

Add SIP Device

1 Set a name for the SIP device

2 Block in which the VoIP device is to be registered (1-98)

3 System address for the VoIP device (1-799)

4 0 static IP - 1 to 30 from the different SIP servers (IX)

16

(IX) If the IP transmission mode is chosen 0, it is necessary to fill an additional field with the IP address of the target SIP device to be created. If the mode is 1-30 it will be necessary first to register the panel into the PABX server as explained underneath.

In the "SIP Servers" section, it is possible to check how many SIP Servers are registered in the door panel and create new ones. The maximum number of SIP Servers is 30. To get supported on how to register the panel into a SIP server contact Golmar customer service.



- |                                       |                                         |
|---------------------------------------|-----------------------------------------|
| ① Enable/Disable the SIP Server       | ⑥ Outbound Proxy (SBC) Port             |
| ② Name of the SIP Server              | ⑦ Created extension for the telephone   |
| ③ IP Address of the SIP Server        | ⑧ User of the created extensiones       |
| ④ Communication port. 5060 by default | ⑨ Password of the created extension     |
| ⑤ Outbound Proxy (SBC) Address        | ⑩ Transmission mode (0 - UDP - 1 - TCP) |

6.5 Name list Groups

The name list is used to create groups for apartments that have been previously registered. A maximum of 10 groups can be created, and the name of each group can be edited to make them easier to distinguish.

We also have the option to show or hide apartments that have already been selected. If this feature is disabled for an apartment, it will be hidden on all panels in the same building, including the general panels.

In addition, we can apply a specific order to the apartments to improve their visibility on the panel display.

NAME LIST

| Address | Visibility                          | Order | Group   | Group names      |
|---------|-------------------------------------|-------|---------|------------------|
| 1001    | <input checked="" type="checkbox"/> | 0     | Group 1 | Group 1 LEFT     |
| 1003    | <input checked="" type="checkbox"/> | 0     | Group 2 | Group 2 RIGHT    |
|         |                                     |       |         | Group 3 Group3   |
|         |                                     |       |         | Group 4 Group4   |
|         |                                     |       |         | Group 5 Group5   |
|         |                                     |       |         | Group 6 Group6   |
|         |                                     |       |         | Group 7 Group7   |
|         |                                     |       |         | Group 8 Group8   |
|         |                                     |       |         | Group 9 Group9   |
|         |                                     |       |         | Group 10 Group10 |

Export

Apply

Import

golmar

Settings

Access cards

SIP Server

Devices

Name List

Event log

About

- 1

Enable/Disable visibility
- 2

The display order
- 3

List of groups
- 4

Name of groups
- 5

Export name list
- 6

Import name list

## 6.6 Second call list

The second call list, allows the installer to set the dialling codes different than the system codes. It allows the dialling through any other code, even alphanumeric codes. The correlation of the monitor system address and dial code must be set through the webserver of the master panel.

The activation can be done though the panel menus or through the webserver of the master panel only.

**NOTE:** To use second call list the master panel must be a coded panel. Nexa panel does not implement such feature.

Below appears how to enable the second call list directly in the door panel menus:

**1**



Press 5 times over the 1st navigation button and enter the **2718** password.

**2**



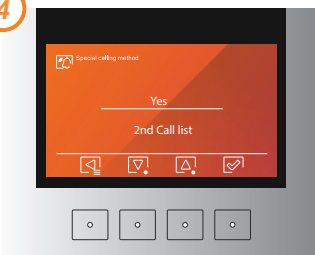
Press the "Door panel" option from the settings menu.

**3**



Choose the special calling methods settings.

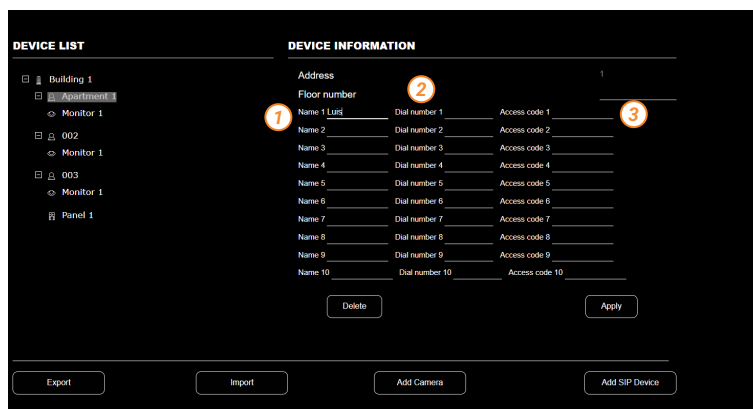
**4**



Set the different parameters values. In Second call list field, set: yes.

If the second call list is enabled in the door panel, it is possible to manage the dialling codes through the webserver devices section.

When the apartment is chosen, the fields in the picture below will appear. It is possible to assign up to 10 different names with 10 alternative call codes to the same apartment, for example two flat mates that live together and would like to appear both in the namelist.





- 1** Alternative names
- 2** Alternative call codes
- 3** Alternative access codes

**NOTE:** The event logs are associated to the system address, not being possible to know if it was called one or another from the users registered out of the 10 under the same system address apartment unit. As well, it is not possible to identify which user in the apartment unit did open the door by the access code.

## 6.7 Event log

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 Excel file.

| Event type                     | Address / Code | Time                | Date |
|--------------------------------|----------------|---------------------|------|
| Call end                       | 1001           | 2025-01-01 15:36:13 |      |
| Lock 2 activation              | 1001           | 2025-01-01 15:36:08 |      |
| Lock 1 activation              | 1001           | 2025-01-01 15:36:05 |      |
| Call communication established | 1001           | 2025-01-01 15:35:55 |      |
| Call to                        | 1001           | 2025-01-01 15:36:13 |      |
| Call connect fail              | 1003           | 2025-01-01 15:15:13 |      |
| RFID access door 1             | 1003           | 2025-01-01 10:16:13 |      |
| Lock 1 activation              | 1006           | 2025-01-01 08:36:05 |      |
| Call communication established | 1006           | 2025-01-01 08:35:55 |      |
| Call to                        | 1006           | 2025-01-01 08:36:13 |      |

- ① Go to the previous screen
- ② Export event log Excel file
- ③ Go to the next screen

## 6.8 About

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

- ① Restart the door panel
- ② Reset to factory default settings
- ③ Update the door panel firmware

- Update: It will update the FW version of the device. Choose the bin file to update the firmware version of the door panel.

**WARNING:** Do not remove the power or LAN connection during FW upgrade, it takes few minutes. If the upgrade is interrupted it may damage the panel.

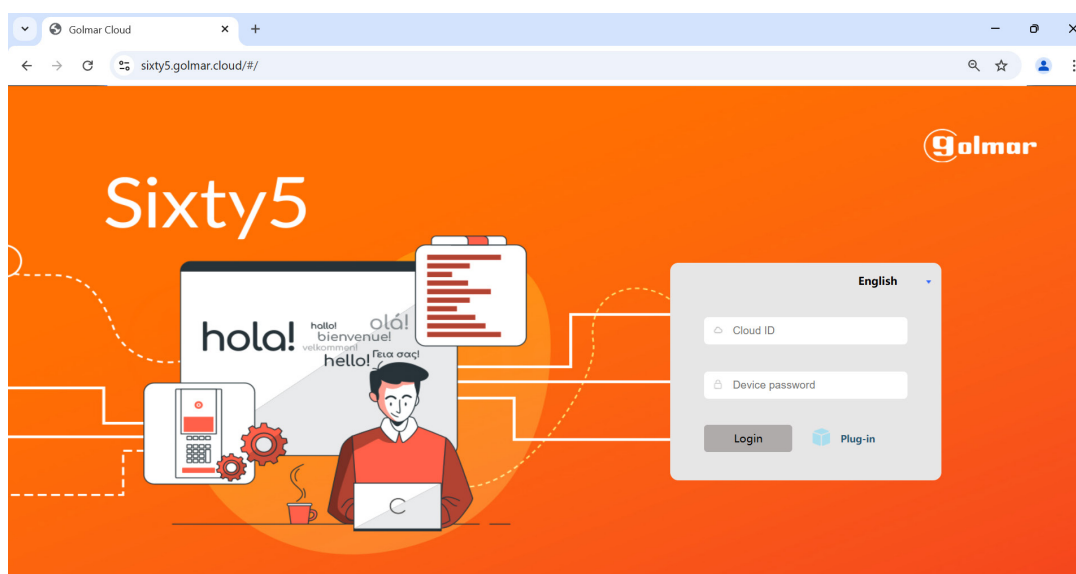
- Diagnosis: If you find an strange behaviour of the panel, you can export the log file of the panel and share with Golmar customer service.

## 7. REMOTE CONNECTION TO WEBSERVER

It is possible to remotely access the door panel's webserver, i.e. without connecting the computer directly into the same physical LAN.

To do this, you must give the door panel network parameters that allow it to access the Internet (Gateway and DNS). You will know that the panel is connected to the server, when the cloud icon appears in the main screen .

Open a web-browser in your computer and type the URL "sixty5.golmar.cloud" in the search bar of the browser. Once in the webpage enter the UID of the door panel in the "Cloud ID" field and the settings access password (2718 by default) in the "Device password" field to access the device's web client remotely.



**NOTE:** You may be asked to install the plugin. The plugin is necessary to perform the remote connection. We are constantly improving the security and performance of our systems. If one day the website seems not to work, remember to reinstall the pluggin as it might have been changed.

## 8. CONNECTION SCHEMAS

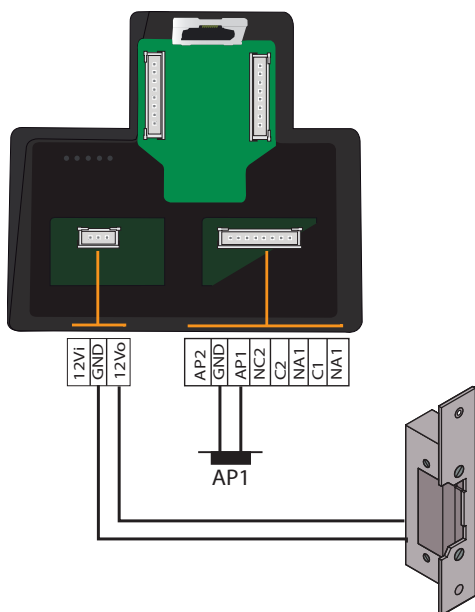
### 8.1 Connection of one door lock release

**NOTE:** Always remember to connect the protection baristor component supplied with the lock.

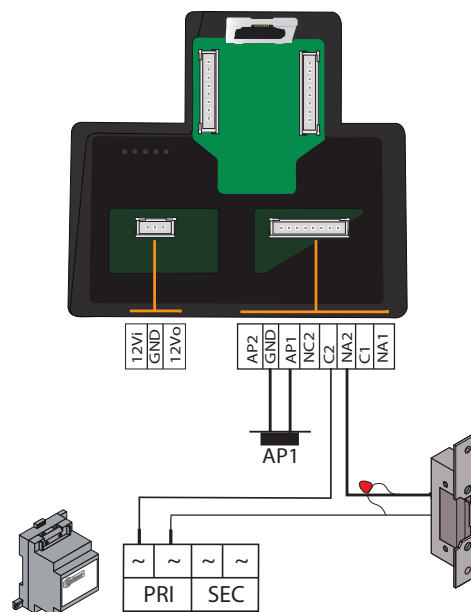
AP1 is an exit button.

We strongly recommend to use Golmar locks. The panel does not support more than 12Vdc-270mA.

The panel supply 12Vdc power. For AC locks it is necessary to add an external transformer.



DC door lock release



AC door lock release

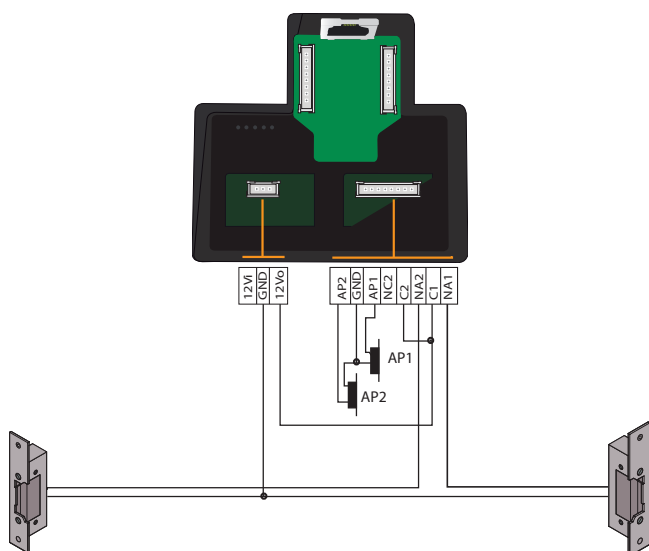
### 8.2 Connection of two door lock release

**NOTE:** Always remember to connect the protection baristor component supplied with the lock.

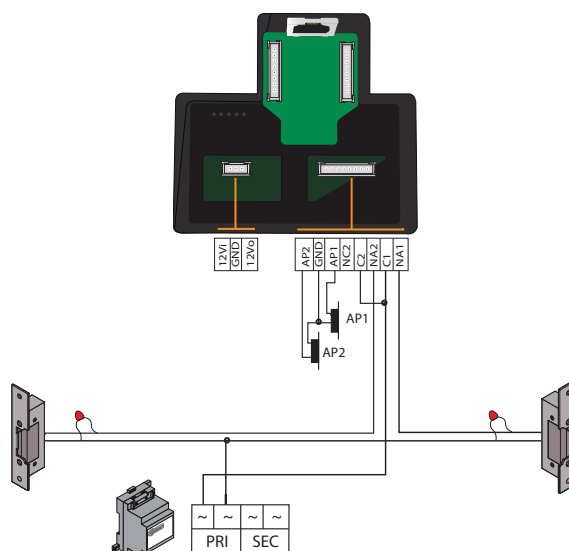
AP1 is an exit button.

We strongly recommend to use Golmar locks. The panel does not support more than 12Vdc-270mA.

The panel supply 12Vdc power. For AC locks it is necessary to add an external transformer.



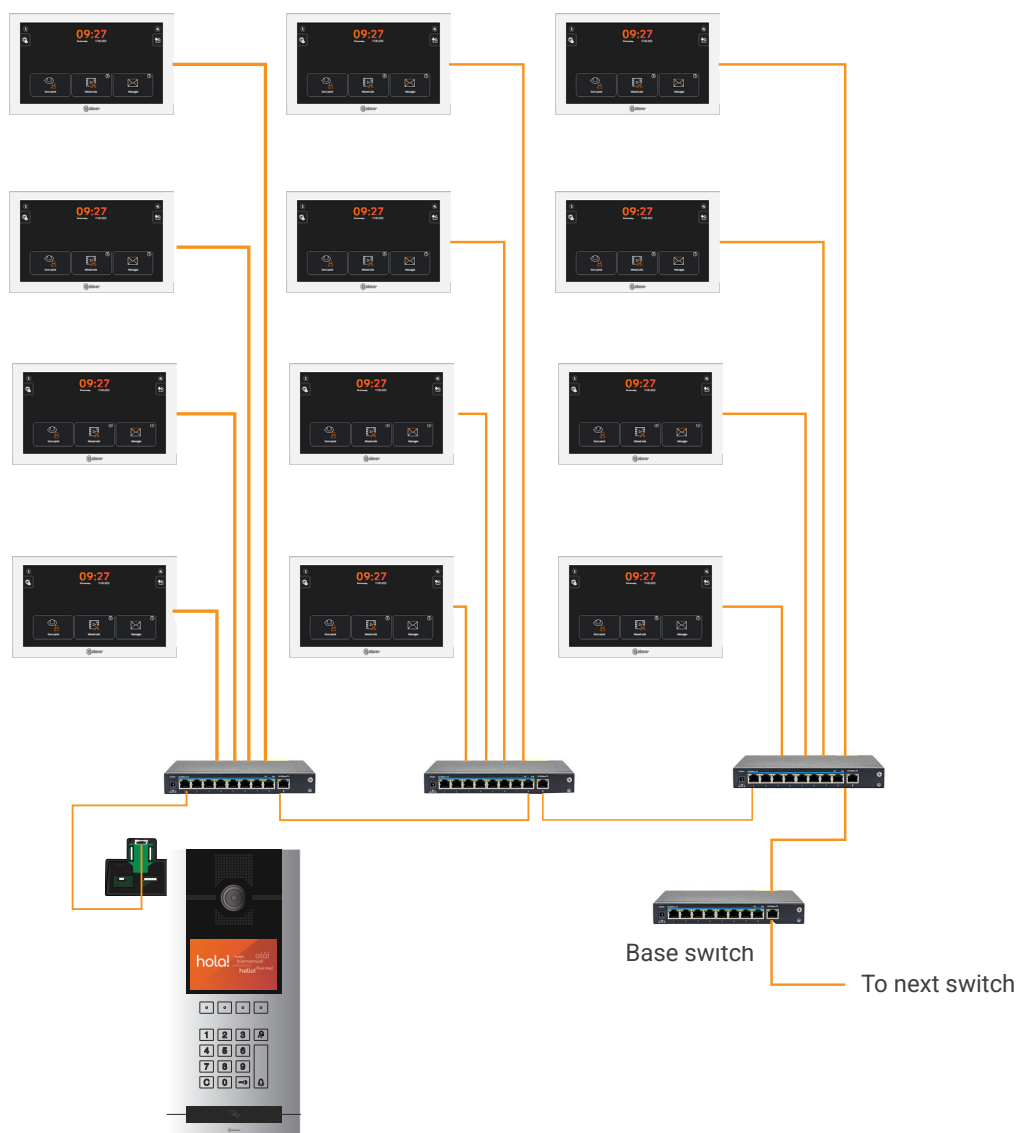
Two DC door lock release



Two AC door lock release

### 8.3 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-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.



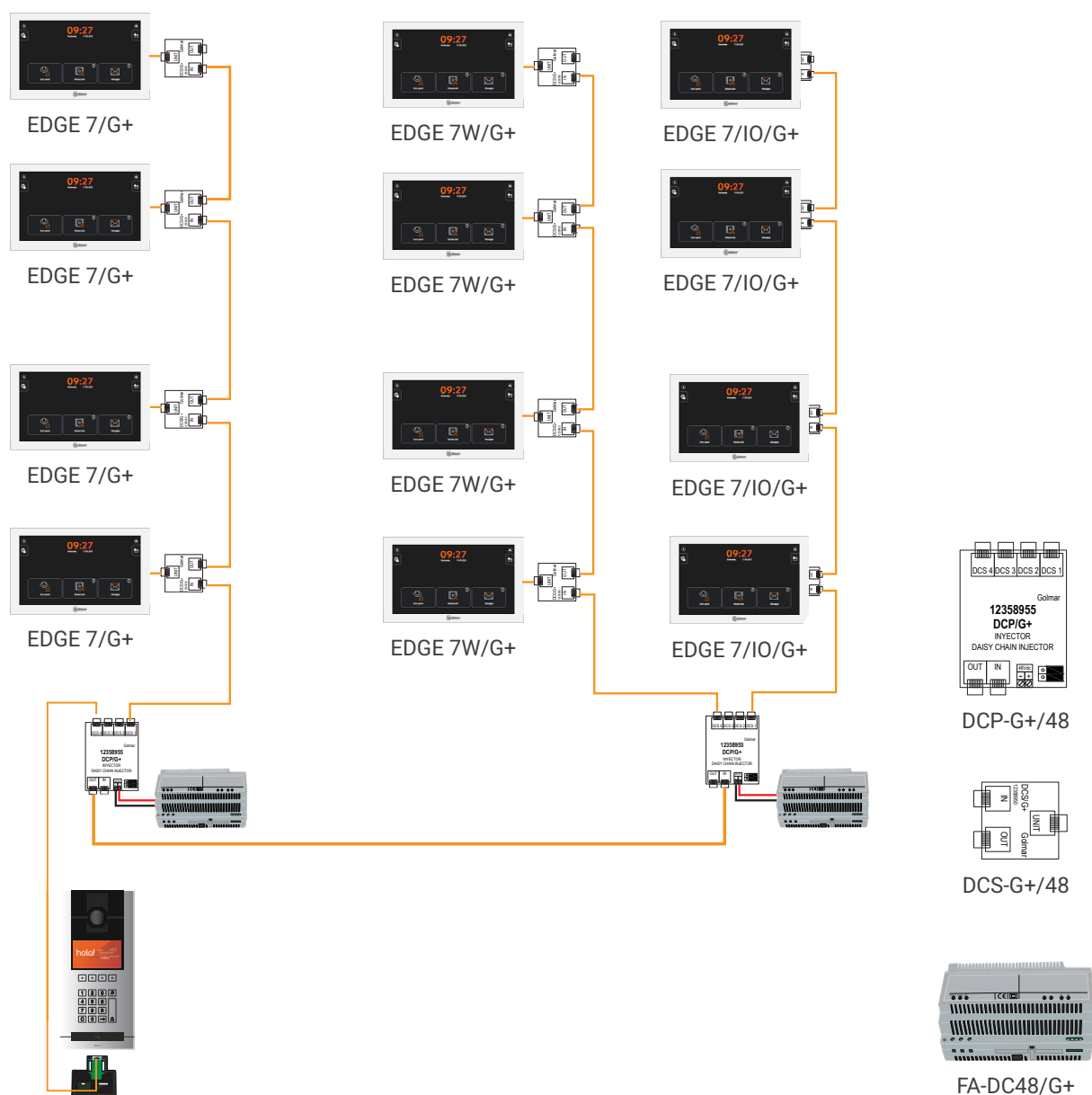
## 8.4 Daisy-chain IP G+ BUS connection

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 20 EDGE monitors.
- Use a DCS-G+ units for each monitor in the connection chain of monitors.
- Choose 6502/G+ door panels, or a modular composition for the Nexa 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.



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

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