iPG+

6502/G+

INSTALLER MANUAL



golmar

6502/G+ FW2.01 V01 REV.0125|ENGLISH

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1. SAFETY, CAUTIONS AND WARNINGS

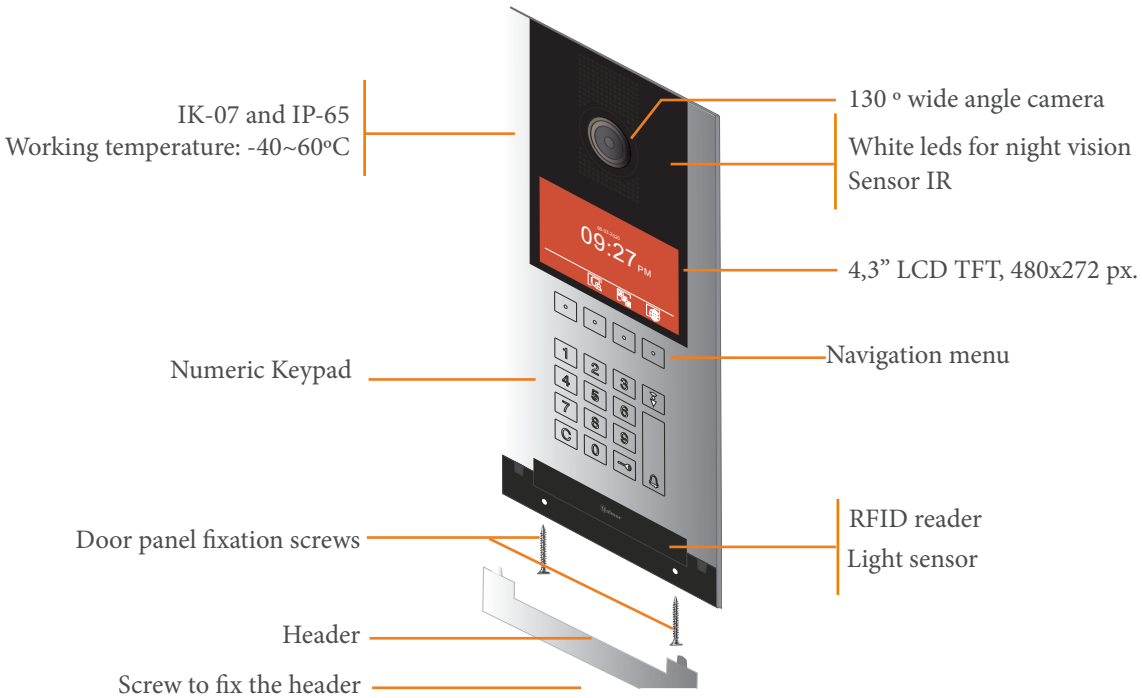
- The installation and setup of this equipment must be done by an authorized installer.
- The current regulations oblige to protect the power supply by means of a thermal magnetic circuit breaker.
- All the installation conduits must distance at least 40 cm from any other installation.

2. IP G+ SYSTEM SPECIFICATIONS

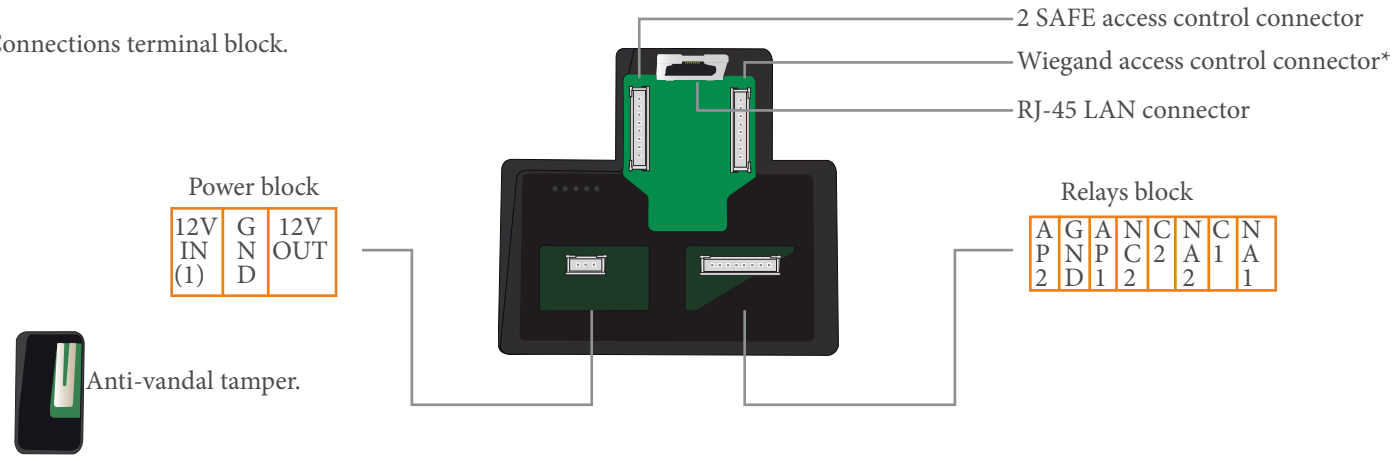
- TCP/IP video intercom system with technology IP-G+.
- Installation over ethernet network.
- Up to 98 blocks in one system.
- Up to 99 entry panels at each block.
- Up to 19 general panels at each installation.
- Up to 799 flats per each block.
- Up to 19 guard units for the general compound and 9 guard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

3. PANEL DESCRIPTION

- Front



- Connections terminal block.

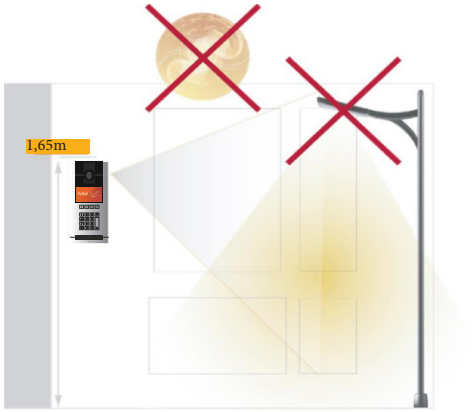


* Reffer to IP Opener manuals for Wiegand and 2SAFE connections.

(1) 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

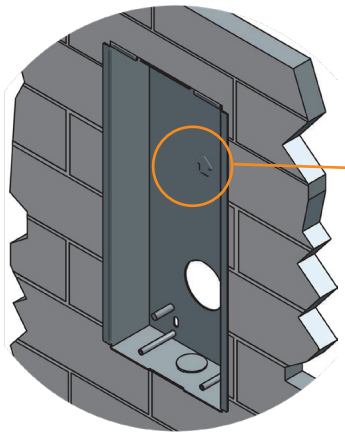
1 -Avoid locating the panel exposed to direct sun light or external light sources like streetlamps, to get a good image.



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

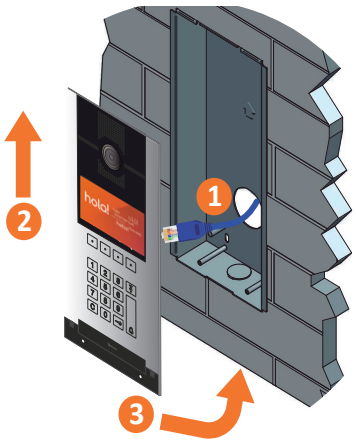


3- Make a hole in the wall where to fit the embedding box CE-6502/G+. The dimensions of the hole are 128(W) x 306 (H) x 44 (D). Assure the box is fixed upside correctly.



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

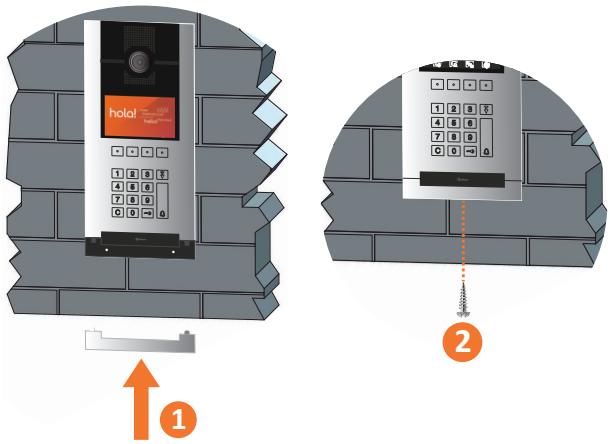
4- Connect the ethernet cable (1) and hang the upper part of the panel in the nails which protrude out of the box (2), then tilt the panel to fit into the bottom part of the box.



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* underneath.



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

5. CONFIGURATION BY PANEL MENUS

Important innitial configuration note: One of the door panels of the installation is in charge to manage the system, it must be registered and connected into the network along all the registration process of the different devices of the installation. When starting for the first time, the door panel will request the different registration parameters to be entered.

The panel can be configured in three ways:

- By the panel menus (detailed in this section)
- By the webserver (section 6)
- By using SCT software (download the software and its manual in the downloads area of the panel).

We strongly recommed to configure the system using the Software "System configuration Tool" .

5.1 Panel registration

When the panel is connected to the network and it boots for first time, it will start with the configuration screen which starts with the language selection screen.

Important: It is necessary that one panel is set as the master panel of the system. The master panel is set automatically on the panel which is set as panel number 1 at the block number 1. No further actions need to be performed. It is necessary first to register the master panel and to keep it connected into the network along all configuration process of the rest of the devices.

A- Building door panels configuration:



Set the desired language
If a language is greyed means that the language is not yet available.



Set the block number as block number 1 if it is the first block, or its corresponding block number.



Set the door panel number as number 1 if it is the first panel, or its corresponding panel number.



Choose "Automatic" network parameters assignement and the panel will reboot*.

**Unless a specific network conflict, always is recommended to chose the automatic assignement, then the system will set each device with its corresponding IP address automatically.*
The IP G+ system takes networks in the range 10.xxx.xxx.xxx in automatic IP assignement.

B- General door panels configuration:

If the panel is a **general door panel,** the assigned block number must be the **number 99**. The general door panel can call all the apartment units in the system, not only the ones in a single building as if it was a single building door panel.

For a **manual assignment** of the IP parameters, follow the same process as described, but in step 4 choose the **Manual** mode, then follow the steps described below:



Choose the manual network parameters assignement.



Enter the device IP address and press validate.



Enter the subnet mask and press validate.



Enter the gateway address and press validate.



Enter the IP address of 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.

Once all the steps have been completed, will appear the same confirmation screen as in automatic option.

Review the registered configuration.



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



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



In the about section you can check the door panel configuation parameters.*



Block and door panel number set.

**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:



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



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



Door panel menu

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

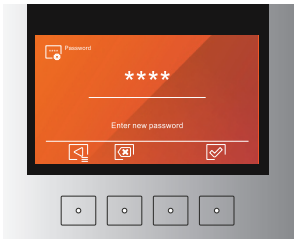
- Address: You can change here the panel address and network settings.
- Display: Change different screen parameters like;
  Welcome page delay time.
  Screen TFT brightness.
  Adjust the time and date, as well the format (dd/mm/yyyy).
  Native user interface language.
- Video: Select video source parameters: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



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.



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.



About menu

In the About section you will find the following submenu:

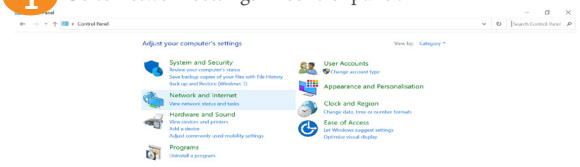
- *Reset user settings:* It returns the panel to the default user parameters.
- *Reset all settings:* It will boot the panel to factory default status.
- *Instructions manual:* Show the QR code with the panel manual URL.
- *System info:* Shows all panel address and network parameters as well the cloud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

6. CONFIGURATION BY WEBSERVER

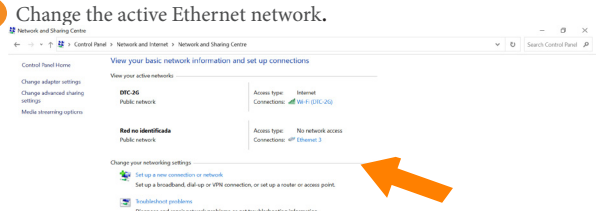
6502/G+ coded panel can be configured via its webserver. To do this, you need to connect your computer to the network.

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.

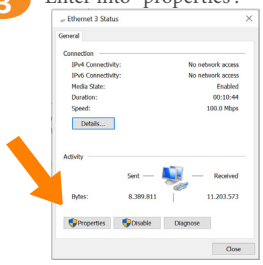


2 Change the active Ethernet network.

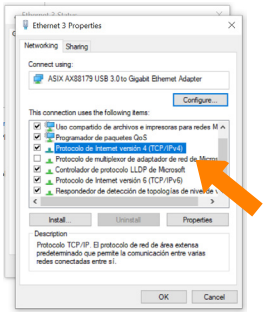




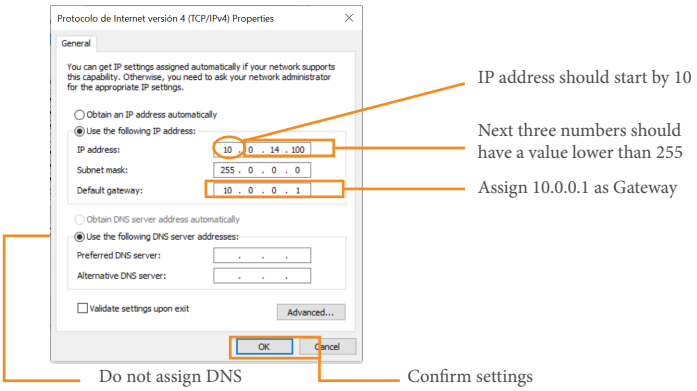
3 Enter into “properties”.



4 Select Internet protocol IPv4.

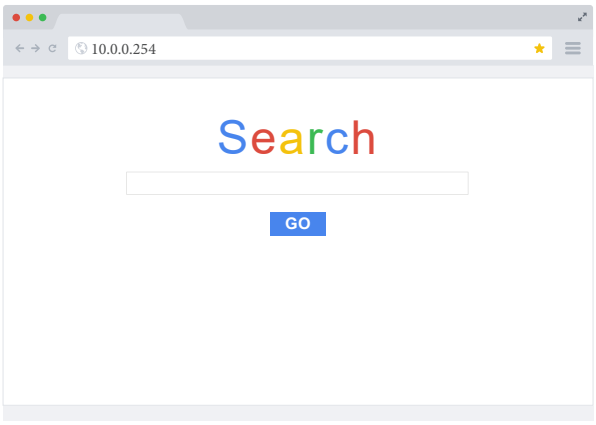


5 Set the IP range.



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

Type the IP in the browser: **Factory IP: 10.0.0.254**

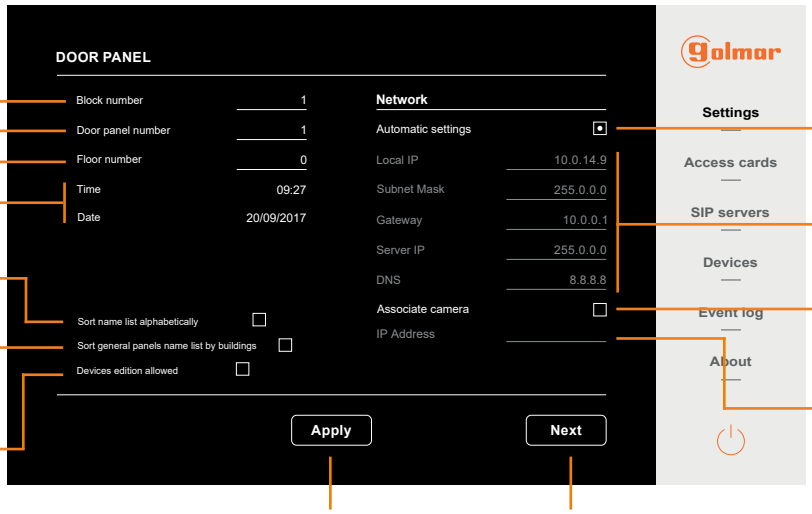


Log in to the webserver.



The default password is 2718.

6.1. Settings



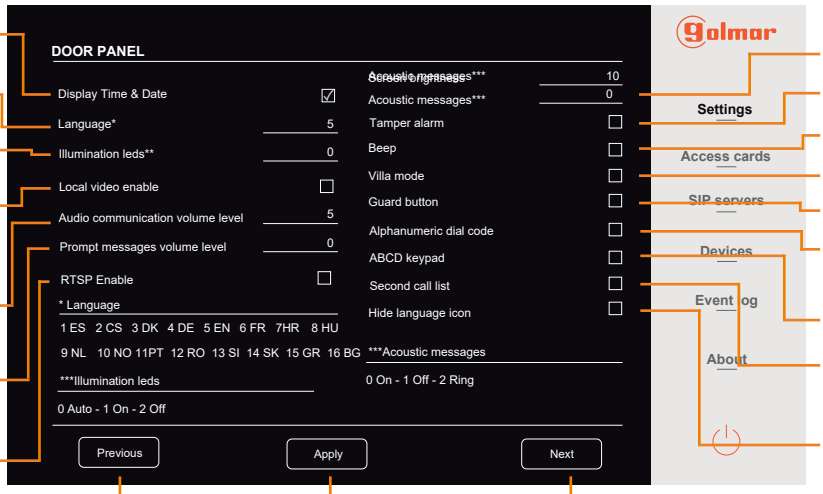
Block number (1-99).
Door panel number (1-99).
Floor number (1-96).
Time and date.
Sort the contact list alphabetically.
Separate the general door panels' contact list by buildings.
Allow system modifications.
Enable automatic IP parameters assignement.
Network settings.
Set an external IP CCTV camera as door panel camera.
External IP CCTV camera IP address.
Apply changes.
Next screen.

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.

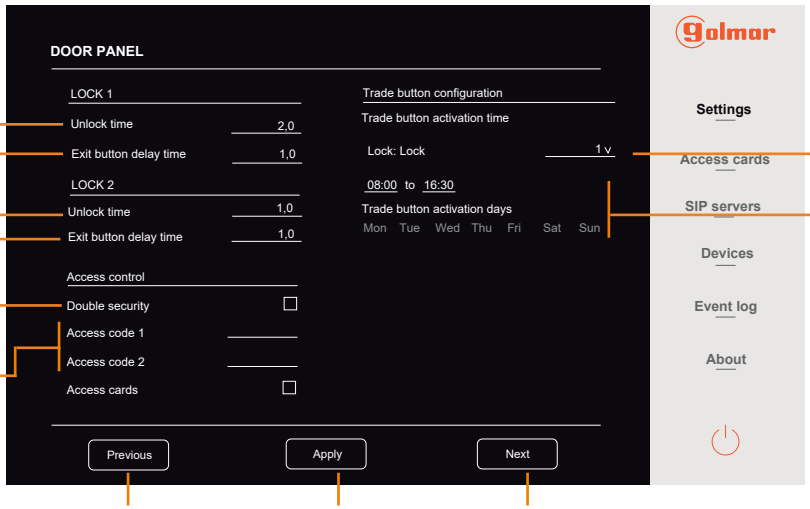
- Sort general panels namelist by buildings: This option will list all users from a site in one single list, unifying all buildings users.

- Associate camera: This option will allow to stream the video from an external IP camera by ONVIF protocol. The camera neeeds to be added into the panel devices list first.



Show time and date in screen.
Set door panel language.
Set illumination leds mode .
Display door panel camera images in the door panel screen .
Volume level of the audio communication .
Volume level of the prompt messages .
Enable the RTSP streming of the door panel images .
Acoustic messages mode.
Enable tamper alarm.
Enable tamper alarm.
Enable villa mode.
Activate guard button.
Enable alphanumeric call mode.
Enable second call list.
No function / Keep disabled.
Hide language icon from main screen.
Previous screen.
Apply changes.
Next screen.

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 cmpatibility with Golmar CCTV NVR's.



Lock 1 activation time.

Delay time of the Lock 1 AP push button.

Lock 2 activation time.

Delay time of the Lock 2 AP push button.

Openning with double security.

Common access codes.

Lock to be opened by the trade button.

Set activation period for the trade button.

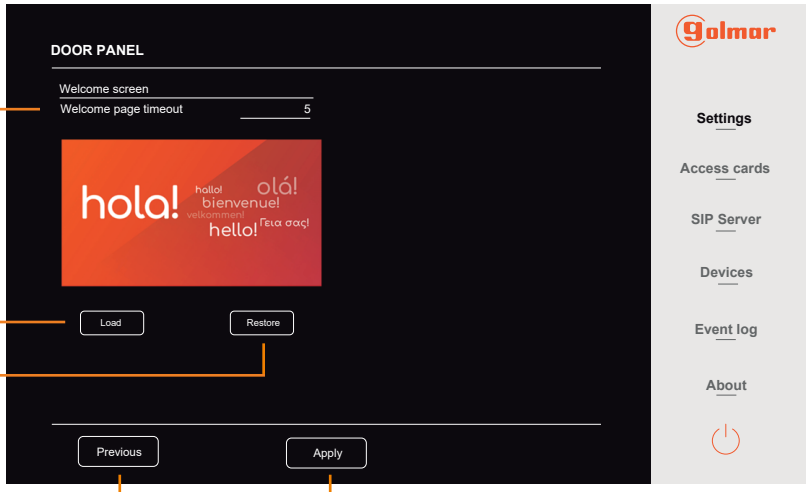
Previous screen. Apply changes. Next screen.

- 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 managment of the building. Codes can be between 4 and 12 digits.

Access cards: Sets if the panel is using or not RFID access card.s



Welcome screen duration.

(*) Update a welcome screen file.

Restore the welcome screen to the default one.

Previous screen. Apply changes.

*The file must be in BMP format and 480 x 272px.

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

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 other door panel in the installation.



Export access credential list file

Export device list Excel file.

Import access credentials list file.

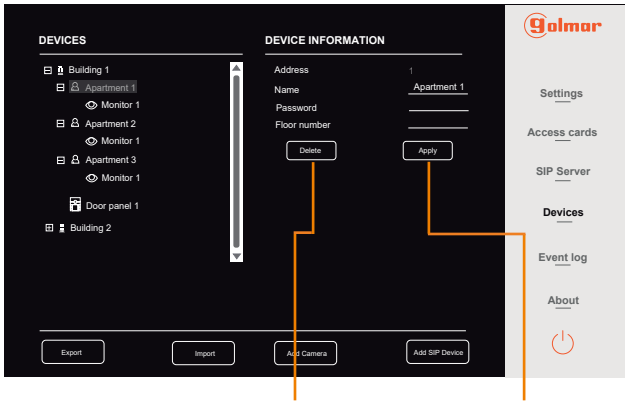
For remote management it is possible to edit the csv file and register new cards by using the USB reader USB-1356.

6.3. Devices

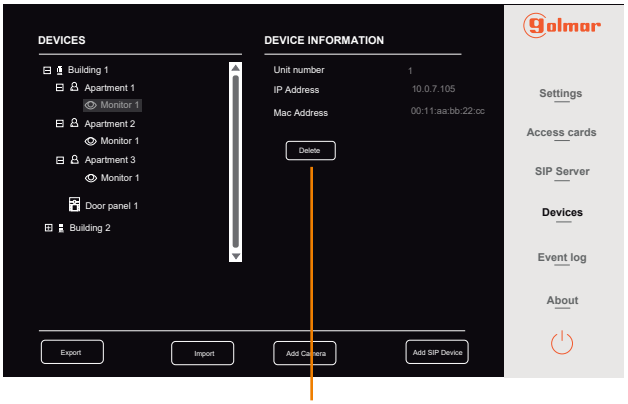
In the "Devices" section, it is possible to check which devices, such as monitors, panels or cctv cameras are registered in the system and edit them.

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.



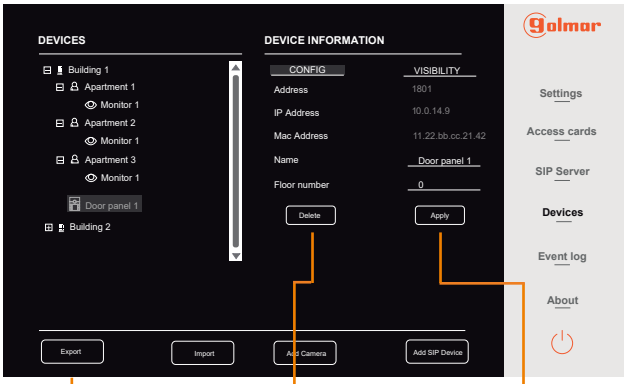
Delete the apartment. Apply changes.



Delete the monitor.

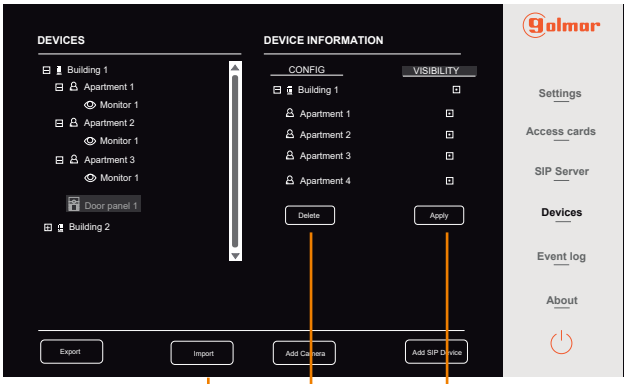
Door panel's edition:

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.



Delete the door panel. Apply changes.

Export the device list.



Delete the door panel. Apply changes.

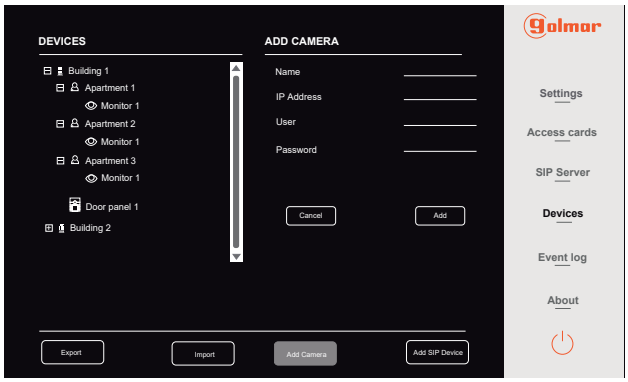
Import a device list.

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.

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.



Name: Set a name for the camera.
IP Address: IP address of the IP CCTV camera.
User: User of the CCTV camera webserver.
Password: Password to access 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

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.



Name: Set a name for the SIP device.
Block: Block in which the VoIP device is to be registered. (1-98).
Address: System address for the VoIP device . (1-799).
Connection: 0 static IP - 1 to 30 from the different SIP servers*.

(*) If the IP transmission mode is chosen 0, it is necessary to fill an addtional 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.



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

Delete the selected SIP Server.

Apply set parameters.

6.5. 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:



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

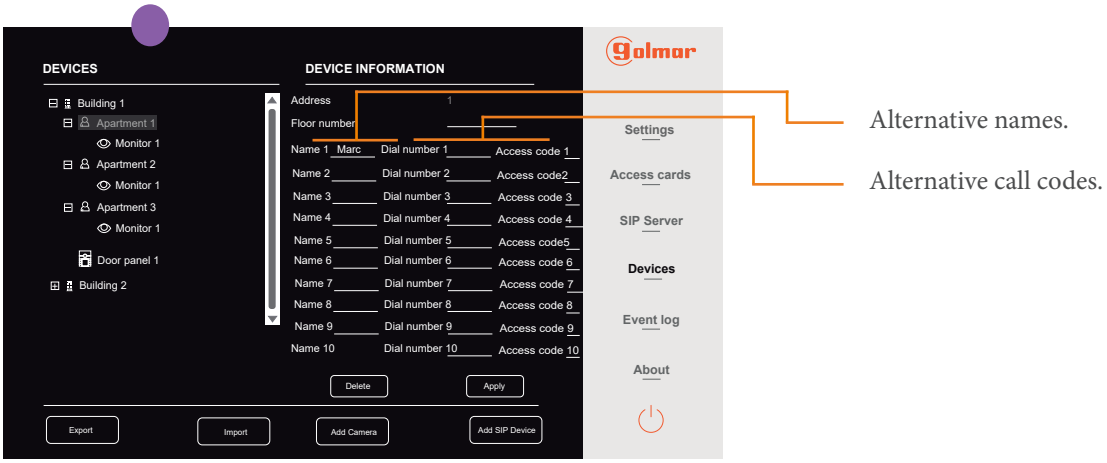
Press the “Door panel” option from the settings menu.

Choose the special calling methods settings.

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.

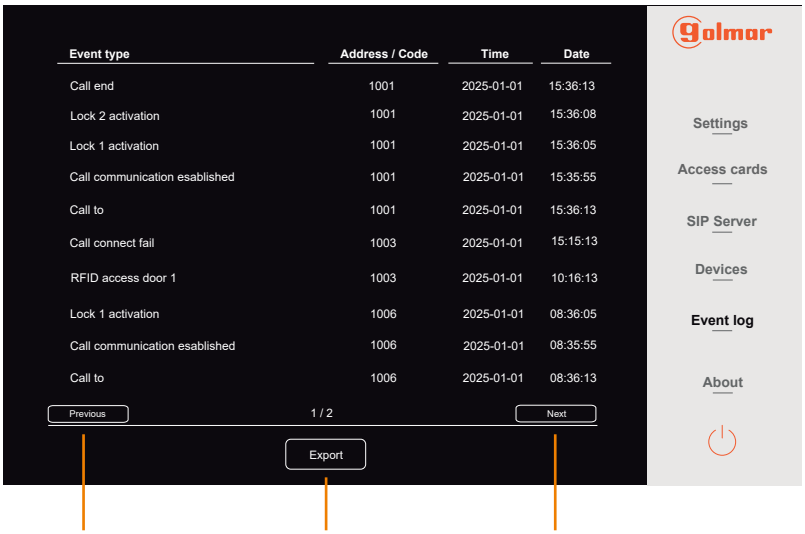
When the apartment is chosen, the fields in the picture below will appear. It is possible to assign up to 10 different names with 10 alternative call codes to the same apartment, for example two flat mates that live together and would like to appear both in the namelist. It is also possible to set a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



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.

6.6. 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 in an Excel file.



Go to the previous screen.

Export event log Excel file.

Go to the next screen.

6.7 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.



Reset to factory default settings.

Restart the door panel.

(*) Update the door panel firmware.

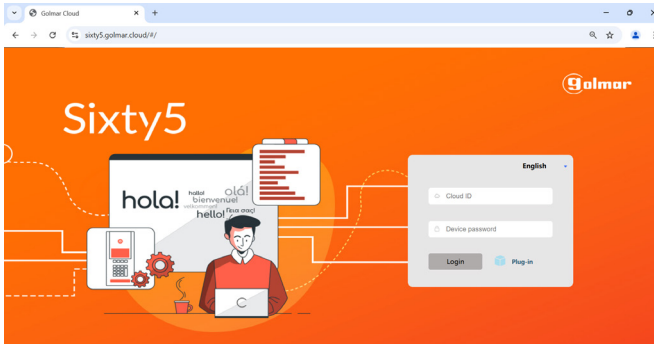
*Update: It will update the FW version of the device. Choose the .bin file to update the firmware version of the door panel.
Warning: Do not remove the power or LAN connection during FW upgrade, it takes few minutes. If the upgrade is interrumped it may damage the panel.
Diagnosis: If you find an strange 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.

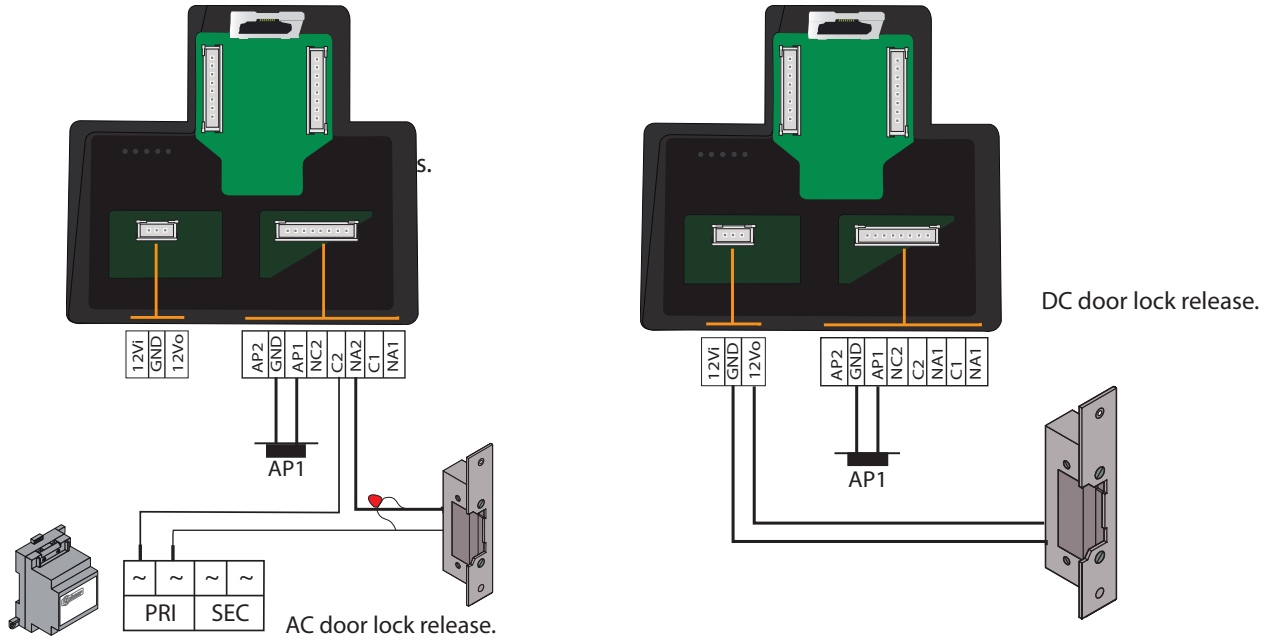


Note: You may be asked to install the plugin. The plugin is necessary to perform the remote connection. We are constantly improvng the security and performance of our systems. If one day the website seems not to work, remember to reinstall the pluggin as it might have been changed.

8. CONNECTION SCHEMAS

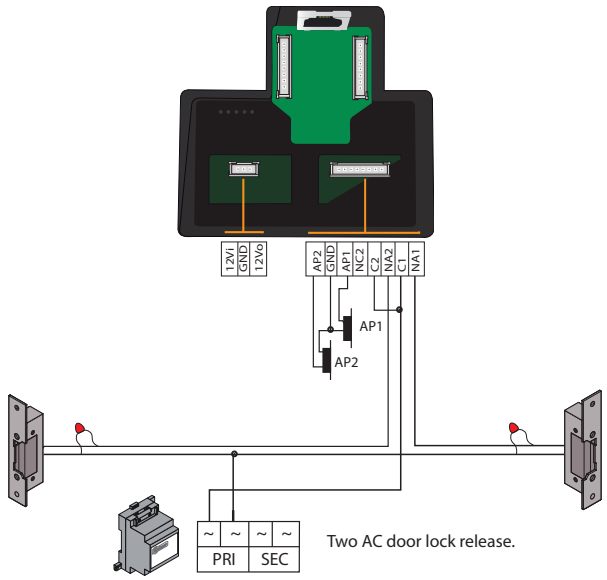
8.1 Connection of one door lock release

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 supplie 12Vdc power. For AC locks it is necessary to add an external transformer.

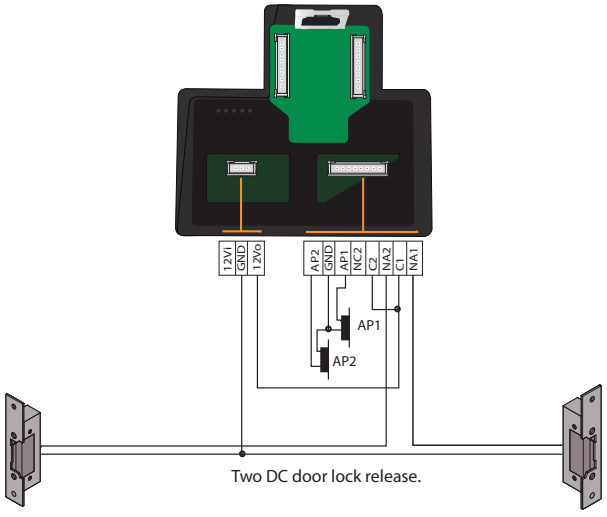


8.2 Connection of two door lock release

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 supplie 12Vdc power. For AC locks it is necessary to add an external transformer.



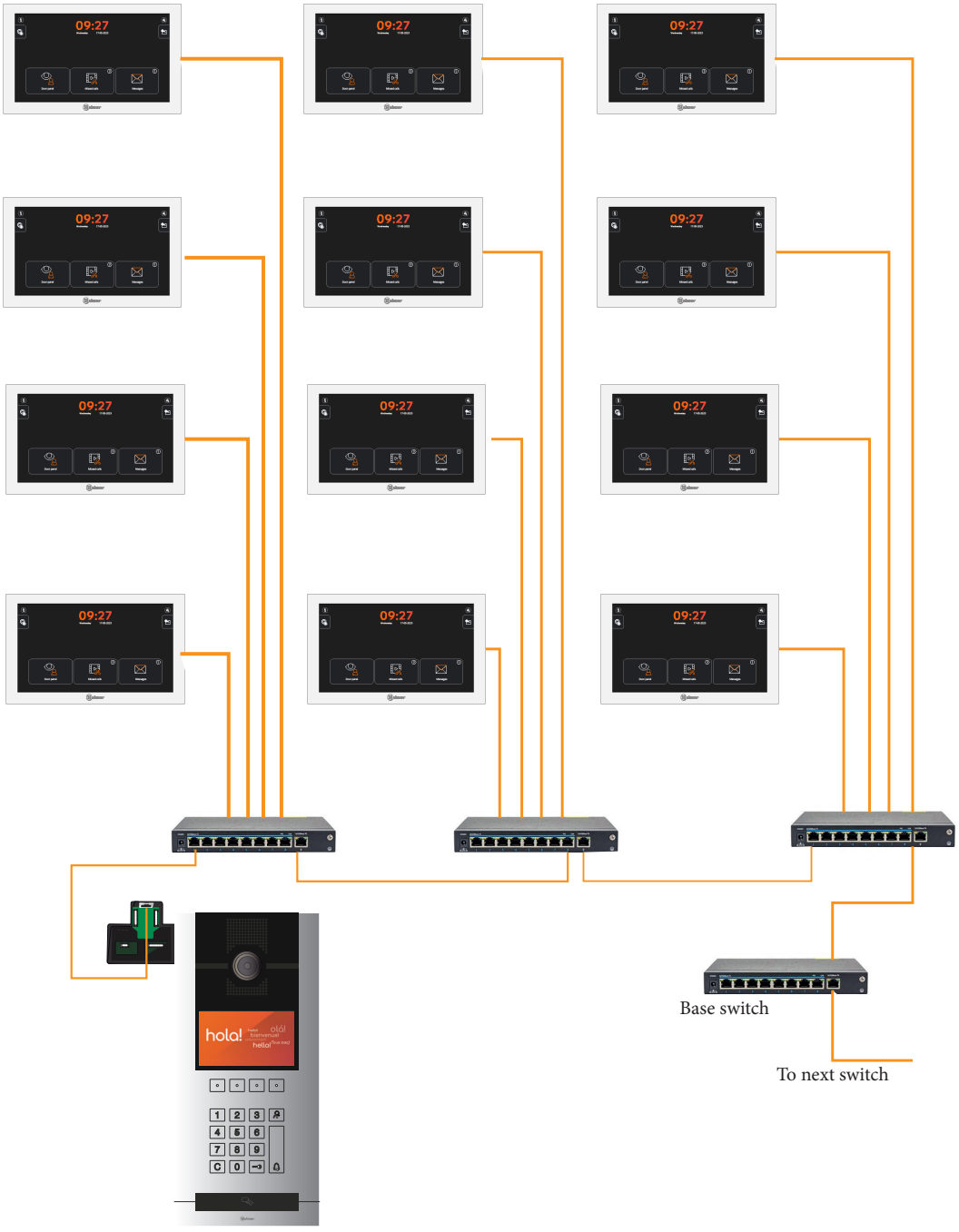
Two AC door lock release.



Two DC 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 user 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 tha 14 PoE switches by the Up-Link port. Use another base switch instead as shown in the diagram.

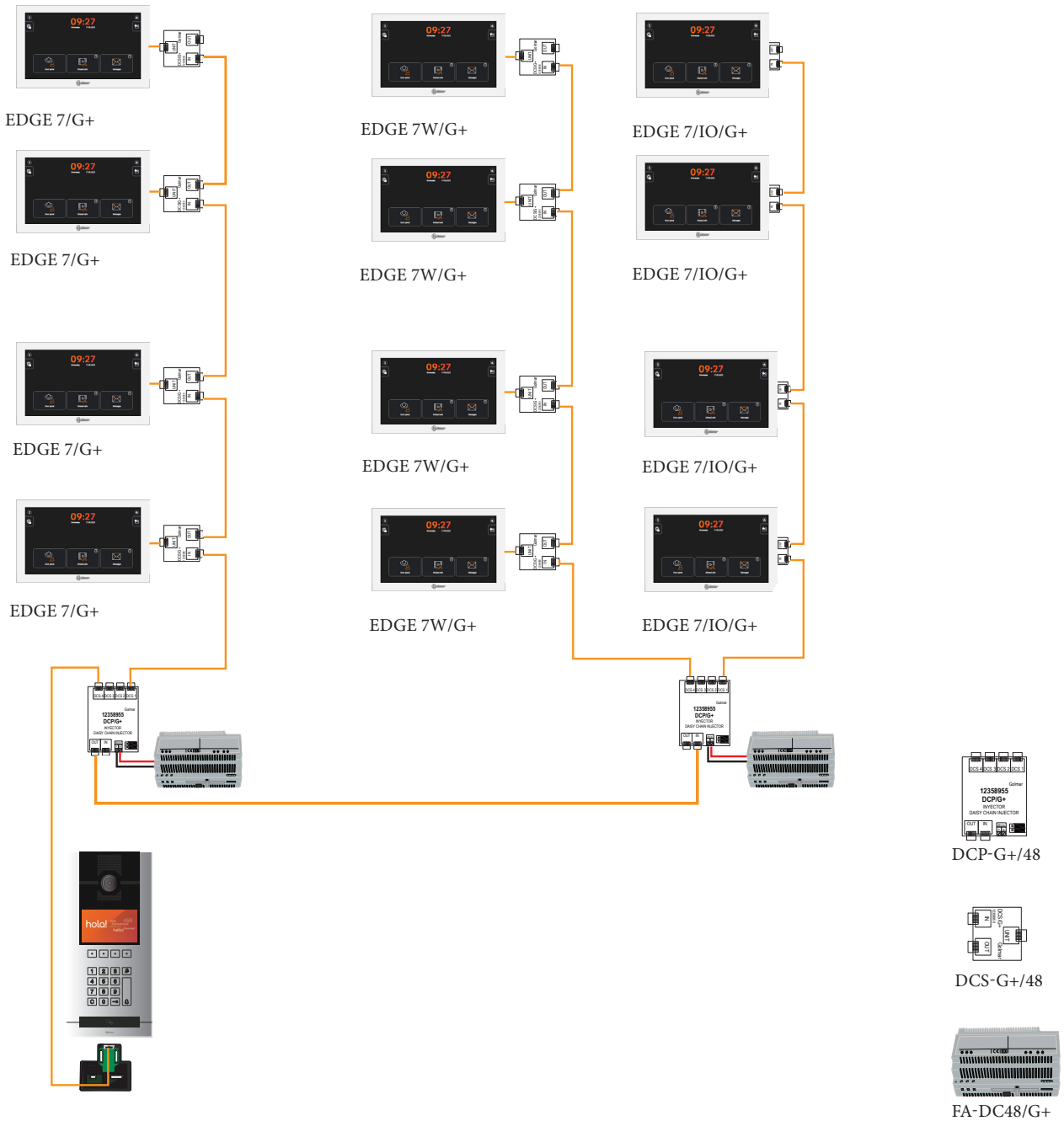


8.3 Daisy-chain IP G+ BUS connection

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. Respect a limit of 40 devices connected through the in-out ports to avoid the latency of the system to become too high.



We recomend 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.

iPG+

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