



CORA PANEL

MANUAL












CONGRATULATIONS ON PURCHASING THIS QUALITY PRODUCT!
Fermax Electrónica develops and manufactures premium equipment that meets the highest design and technology standards. We hope you will enjoy all its features.

*Technical publication for information purposes edited by FERMAX ELECTRÓNICA S.A.U.
FERMAX ELECTRÓNICA applies a continuous improvement policy, therefore it reserves the right to modify the contents of this document, as well as the product specifications referred to therein, at any time and without prior notice. Any modification will be reflected in subsequent editions of this document.*

*This product is protected by the following patents and utility models:
PATENTS: US 9215410, US 9762852, BE1023440, AU2014203706, GB2539741.
UTILITY MODELS: ES1187384U, ES1141495U, FR3038192, DE202016000632U1, CN205987229(U).*

INDEX

	1. INTRODUCTION	4
	2. INSTALLATION	5
	2.1. CONNECTION	5
	2.2. ASSEMBLY	6
	3. TECHNICAL SPECIFICATIONS	8
	4. DESCRIPTION	9
	4.1. SCREEN	9
	4.2. KEYPAD	9
	4.3. CAMERA	10
	4.4. CARD READER	10
	4.5. LIGHTING	10
	5. PROGRAMMING	11
	5.1. MAIN SCREEN	11
	5.1.1. Image Carousel	11
	5.1.2. Off mode	12
	5.1.3. Panel information	12
	5.2. PANEL CONFIGURATION	13
	5.2.1. Login	13
	5.2.2. General functions menu	14
	5.2.3. Panel information (connect only)	15
	5.2.4. DUOX parameters	15
	5.2.5. Access control	15
	5.2.6. Settings	18
	5.2.7. Users	29
	5.2.8. Maintenance	34
	5.3. CALL FUNCTIONS	43
	5.3.1. Calls to Apartments	43
	5.3.2. Restricted calls and filtered Users	49
	5.3.3. Calls to the Guard Unit	52
	5.3.4. Calls with Users registered in the Phonebook	54
	5.3.5. Retroview	55
	6. ANNEX I: MY CONNECT PORTAL	56
	7. ANNEX II: CORA EXTENDED	58
	7.1. EXPANDER MODULE	59
	7.1.1. Expander for the DUOX PLUS Panel	59
	7.2. FUNCTIONALITY DESCRIPTION FOR GRAPHICAL INTERFACE AND WEB SERVER IN HEXACT MODE	60
	7.2.1. Deactivate internal card reader	60



1. INTRODUCTION

The Cora Panel is a new design incorporating DUOX PLUS technology that includes audio, power and data via two non-polarized wires. These features now also include 4G connectivity (in Spain only) as well as WiFi and access control on the same Panel, without the need for external modules.

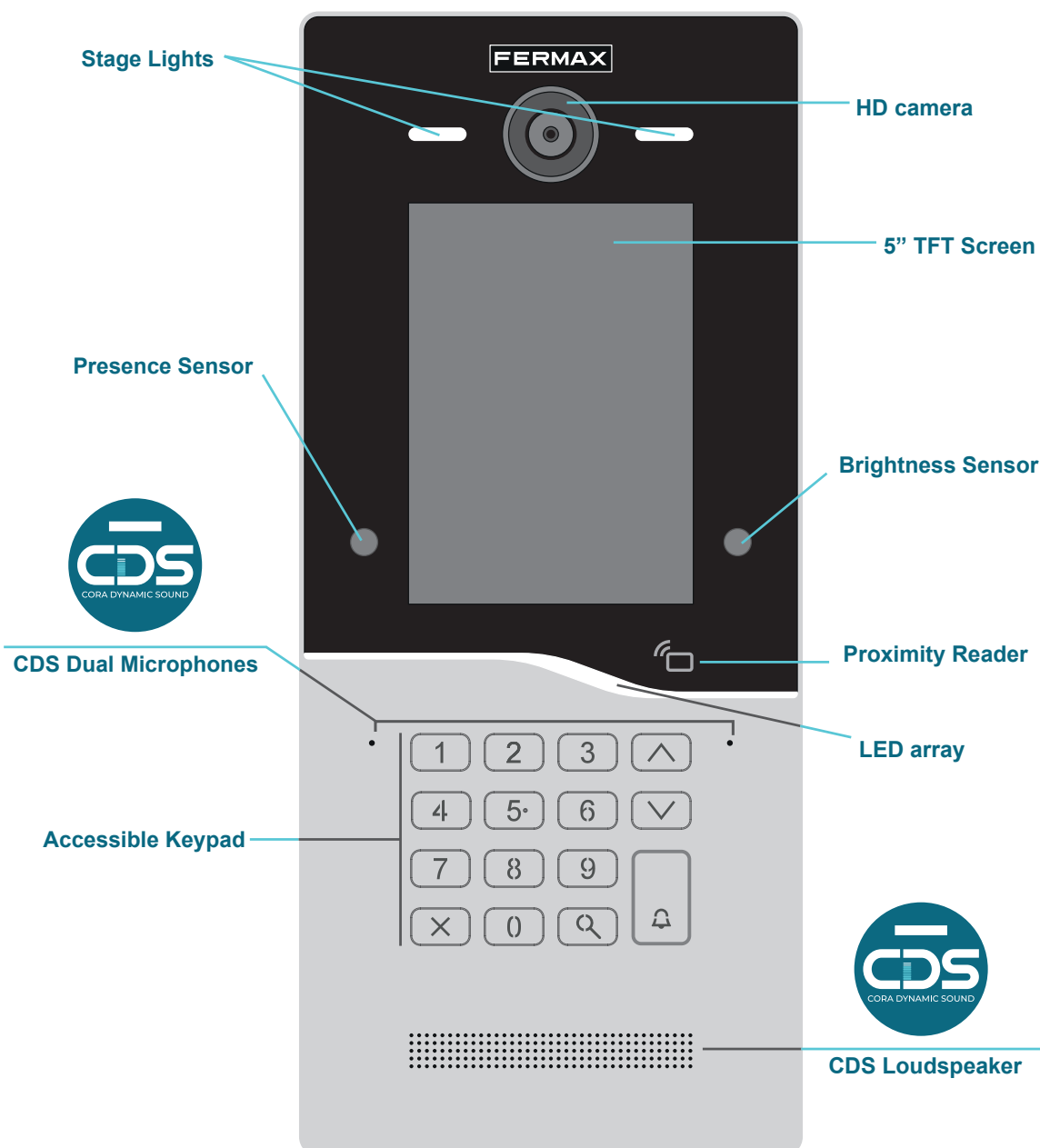
This monoblock Panel integrates a keypad with pushbuttons and a graphic display for User interaction. 4G available (in Spain only) for call divert to mobile phones.

The Panel incorporates a WiFi connection to allow connection via a browser to the internal web server, from which you can view and configure multiple parameters such as:

- Panel information (about block no., location, etc.)
- Configuration of Duox parameters (Panel type, block no., line adaptation, etc.)
- Master Mode
- Access control configuration (via keypad codes or RFID reader)
- Settings (for display texts and voice messages)
- User list
- Maintenance (FW version update and installation test)

The Cora Panel can be used for all types of DUOX PLUS installations, from the most basic (individual kits) to large installations with multiple monitors or telephones.

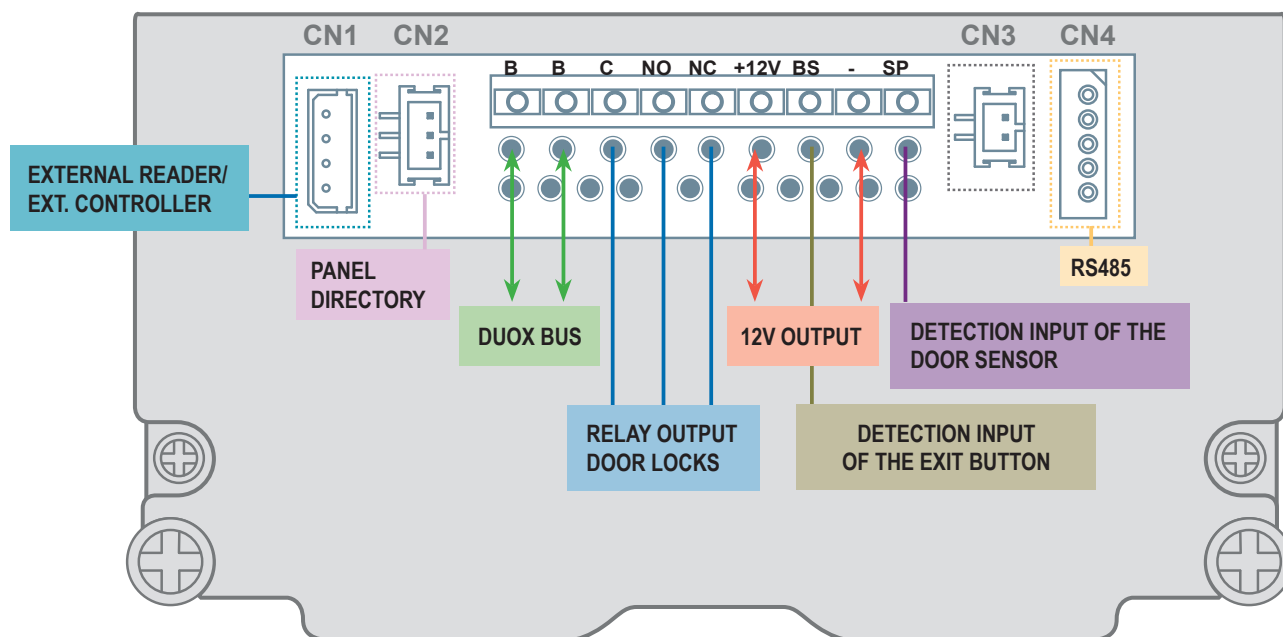
NOTE: The CORA Panel is not compatible with the iLOFT telephone in any of its current or future versions.





2. INSTALLATION

2.1 CONNECTION



B-B: Duox Plus Bus.

C, NO, NC: Door lock relay contacts. 2A Max – 12Vdc – 24Vac.

+12V: Output +12Vdc for low-consumption door lock power supply (Max 250mA). The power will only be live while the door lock release is active.

BS: Output pushbutton input. Connects to negative (-) to activate.

(-): Negative (0V) common to +12Vdc, BS and SP.

SP: Door sensor input. Connects to negative (-) to activate. When the circuit is opened, the alarm is triggered (“Door Forced” if there has been an unauthorised door release, or “Door Left Open” if it has not been properly closed after an authorised release).

CN1: Connection for external card reader / external controller.

CN2: Connection for directory Panel.

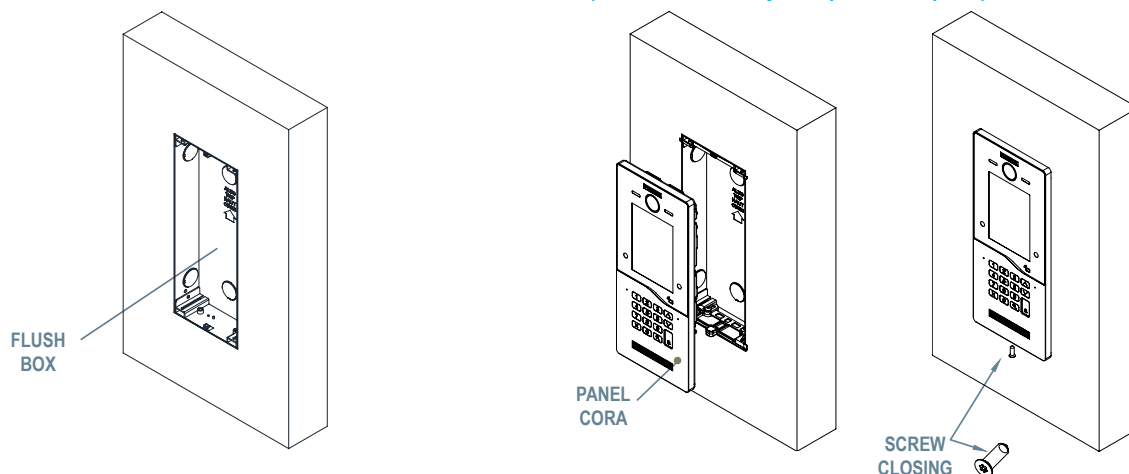
CN3: Not used.

CN4: RS485 connection.

2.2 MOUNTING

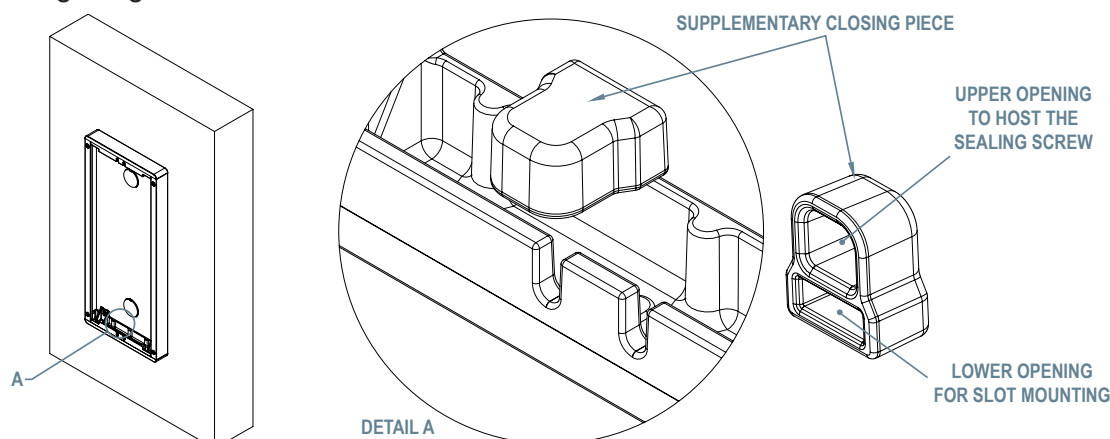
Installation in the flush box:

- ① Embed the F07703 box in the wall.
- ② The Panel is mounted on the flush box.
(See assembly sequence, p. 7)



Mounting in the surface box:

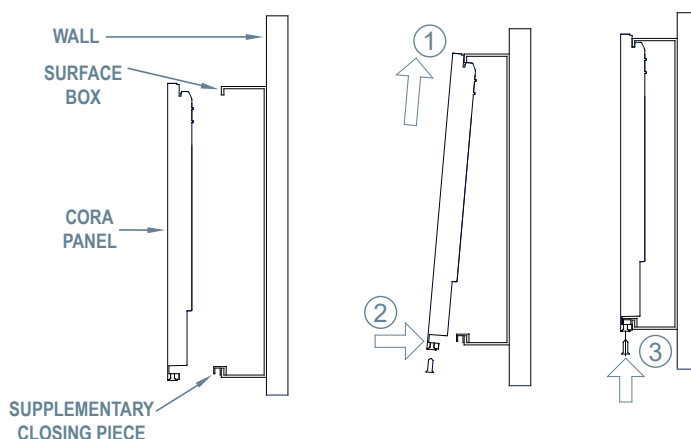
- ① Anchor and fix the surface box to the wall.
- ② Insert the SUPPLEMENTARY CLOSING PIECE at the bottom of the box as shown in the following image.



- ③ Mount the Panel on the flush box or surface box:

ASSEMBLY SEQUENCE

- ① Mount the Panel by inserting the upper part first, taking care not to drag the Panel too much on the surface box and not to deform the upper sealing gasket or weatherstrip.
- ② Once the upper part has been inserted, fold down the lower part until it stops against the surface box. If it does not fit properly, upward force can be applied to push the upper part further in so that the lower part fits better.
- ③ Once it is attached to the surface box, the lower screw can be tightened to close it. Due to its conical tip, no force needs to be exerted on the Panel - simply hold it against the surface box while inserting the screw with the locking tool.

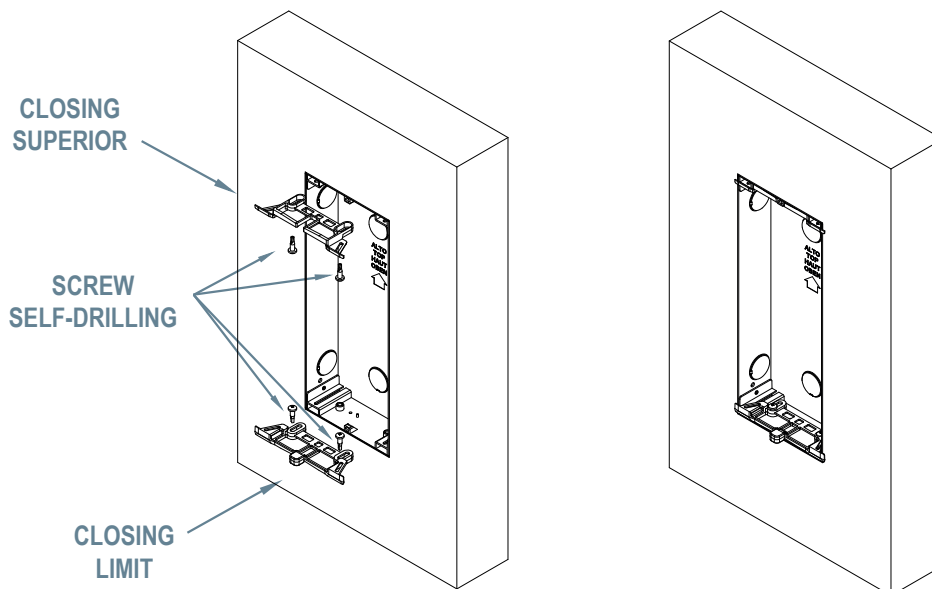


Installation in the City S6 flush box (Replacement) using adapter set F07708:

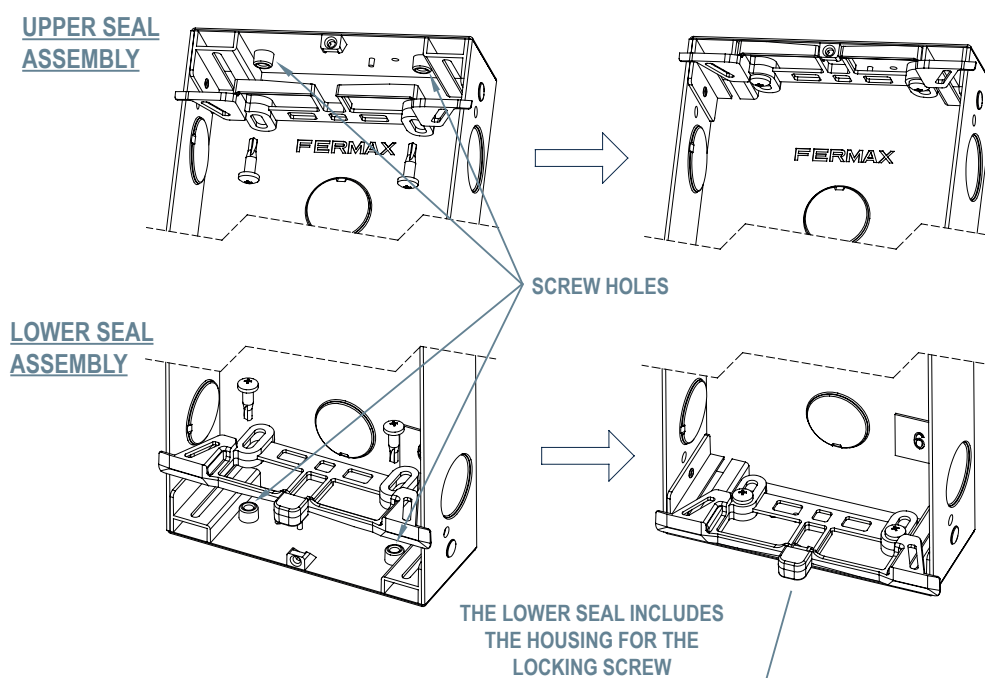
- ① Mount the upper closing piece on the top of the flush box ([see Upper Seal Assembly](#)) and the lower closing piece on the lower part of the ([see Lower Seal Assembly](#)). Each of them is fixed with 2 self-drilling screws using the marked holes of the flush box.

It is vital to ensure that the pieces are well-seated by removing cement or paint residues from the installation, and that the pieces are well-supported on the wall once attached.

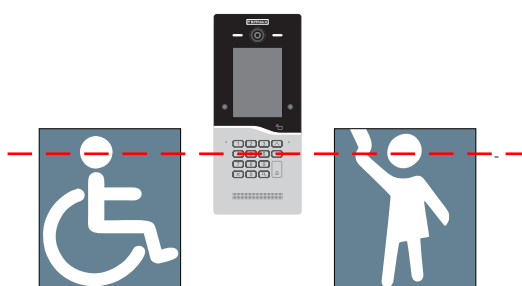
The parts are designed to correct the sag of the flush box by up to 10mm.



Note: If a self-drilling screw does not take hold, it will have to be replaced by a longer dowel and screw.



- ② Mount the Panel on the adapted City S6 flush box ([see Assembly Sequence page 7](#)).





3. TECHNICAL SPECIFICATIONS

Power supply	18-24Vdc NON-POLARIZED (polarisation is not taken into account during installation) Direct from the DUOX Bus
Operating temperature	- 25°C to 70°C
Relative humidity	5-95%, non-condensed
Dimensions (mm)	203 (W) × 129 (H) × 17.5 (D)
IP65 rating	
IK08 rating	



4. DESCRIPTION

4.1. SCREEN

The Cora Panel includes a 5" TFT in 4:3 vertical format, where the images are displayed to help the Panel User to move between the different functions. The User interface is intended to be used via the buttons on the keypad.

When the Panel is in standby, if any button is pressed or presence is detected, it will activate (this function can be disabled from the web server).

If at any time there is no interaction with the device for 60s (outside of calls or conversation) it will go to STANDBY.

During start-up the Panel will display the configuration information of the Panel itself:

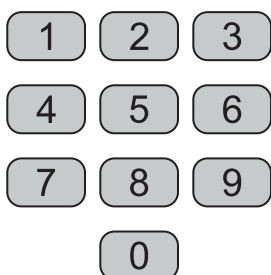


Start Cora Connect



Start Cora No-Connect

4.2 KEYPAD



Numbers

To dial the Apartment number you wish to call.



Arrows

To scroll through the Phonebook or list of Guard Units and select Apartment codes during the call.



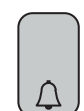
Cancellation

Cancel a running function. Delete numbers dialled by mistake. Used to enter a keypad code.



Magnifying glass

To search the Phonebook.



Bell

To initiate the call to an Apartment.

All LEDs are white - Panel ACTIVE / Panel on STANDBY.

When in use, the white LEDs change as follows:



4.3 CAMERA

The CORA Outdoor Panel Camera has the following specifications:

Resolution	1280x720 pixels
Viewing angle	105°(H) 77°(V)

4.4 CARD READER

The CORA outdoor Panel has an internal reader with 125KHz Electro Marine technology to open the door. The reader antenna is located behind the card icon.

The reading distance is approximately 4 cm with key rings, and 7 cm with cards.

4.5 LIGHTING

LED array: The CORA Panel includes a distinctive array of LEDs that provides status information to the User via colour changes and moving lights.

ID	CONDITIONING	SCREENS
1	Light blue central throbbing	Product start-up configuration Conversation Door Release
2	Light blue sweep	Carousel
3	Double light blue sweep	Call to... End of conversation Call from Phonebook
4	Red central throbbing	Apartment not available No response Maintenance
5	Switched off	Off mode

The FERMAX logo is always backlit so that it stands out on the Panel.

Scene illumination is provided by two slots on either side of the camera. It lights up upon each call from the Panel.

5. PROGRAMMING

5.1. MAIN SCREEN

When the presence of a person is detected, the Main Welcome Screen is displayed. From this moment on, a Carousel of Screens will start, depending on the configuration of the Panel.

5.1.1 IMAGE CAROUSEL

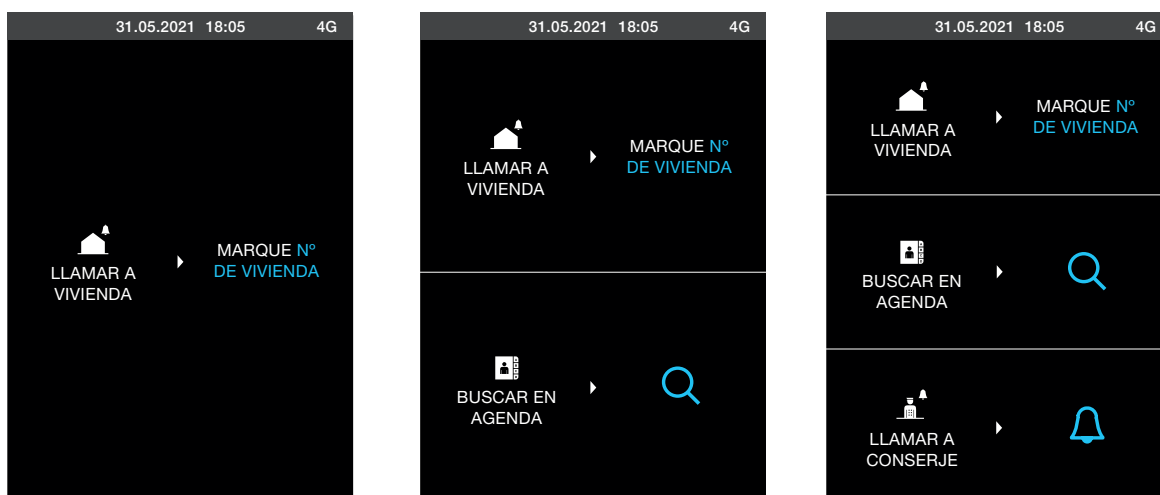
By default, the Carousel of Screens comprises the main Screen, an Information Screen showing whatever actions can be performed (which can be disabled from the Web Server) and several customised images selected by the installer (image format: jpg 480x640 pixels). Every 3 seconds, the current Screen changes to the next one. This time and the custom images are configurable via the Web Server.

The Information Screen consists of the following elements:

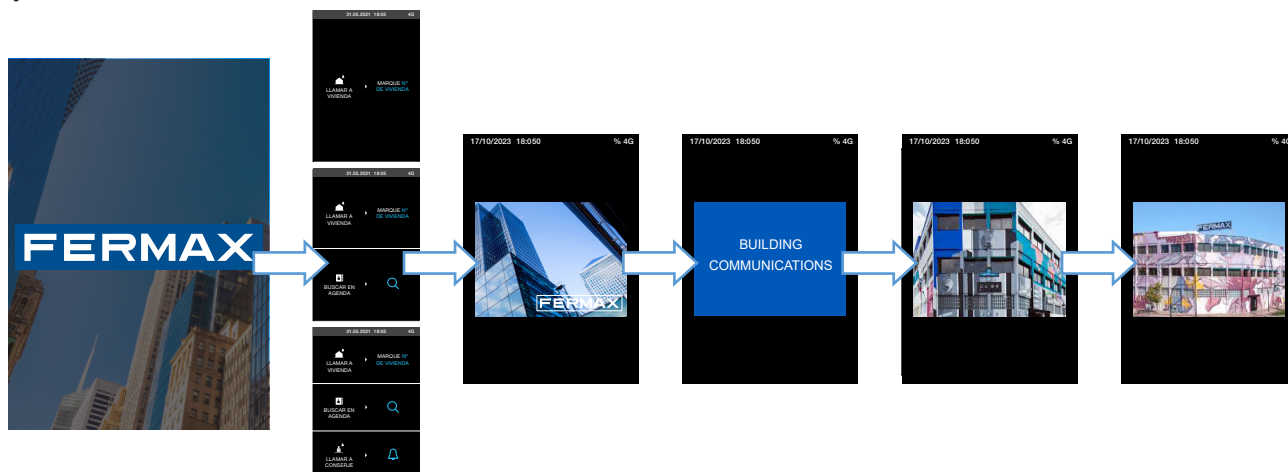
- Date and time
- 4G signal quality (if a Panel is connected)
- Instructions for calling an Apartment
- Instructions to search in the Phonebook (if there are Users registered therein)
- Instructions for calling the Concierge (if there is a Concierge on site)

ACTION	RESPONSE
Press numeric button	You will be taken to the Call Apartment Screen
Press X button	You will be taken to the Access Code Screen
Press the BELL button	Call the Guard Unit if it is active
Press the UP ARROW	You will enter the Phonebook Screen if there are any Users
Press the DOWN ARROW	You will enter the Phonebook Screen if there are any Users
Press MAGNIFYING GLASS button	You will enter the Phonebook Screen if there are any Users

Different Information Screens depending on whether there is an Phonebook and a Guard Unit:



The flow of the Carousel is shown below, with 4 customised images having been installed in this case by the User/installer:



5.1.2 OFF MODE

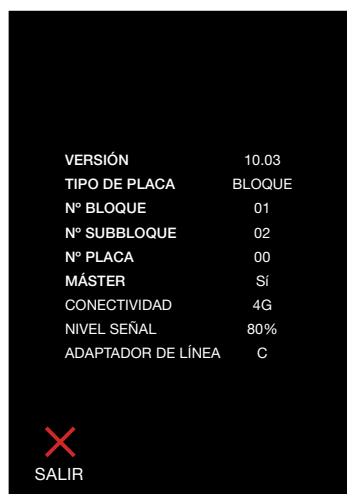
In this functional mode, the Amplifier reduces the power consumption to a minimum and switches off the Screen.

60s after entering the Carousel, if there is no activity, the Panel switches to OFF mode, where a completely black Screen is displayed.

It is possible to return to Carousel mode by pressing any key or by activating the presence sensor (provided this option is activated in the Web Server).

5.1.3 INFORMATION PANEL

This Screen displays information on various parameters of the Panel, with no need to access the web server.



The following actions are required to access it:

- Press X button from Carousel to access the Access Code Screen
- Press the Magnifying Glass button 4 times from the Access Code Screen

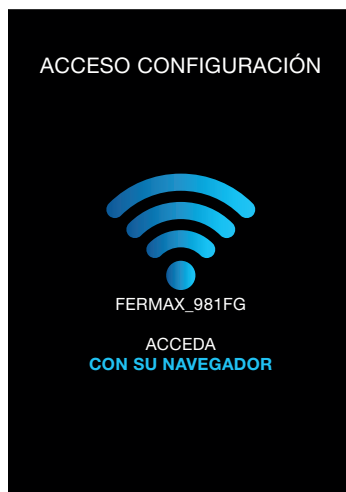


5.2 PANEL CONFIGURATION

The Panel can only be configured via the Web Server embedded in the Panel itself.

The following instructions detail how to access it, as well as all the configuration parameters.

- Press and hold the X button for 5 seconds from the Carousel to access the Access Code Screen.
- Enter the code 19025 for an Installer or 11077 for an Administrator (or the substitute, in the event of a change).
- Press the BELL button. (a proximity card can be activated to replace the above steps by showing the card to the internal reader on the Panel).
- The display will show the SSID name of the WiFi access point generated by the Panel. The mobile phone, computer or tablet to be used for the configuration must be connected to this WiFi network.
- Use a browser and access the website http://fermax_cor.com. The Login Screen will appear.



5.2.1 LOGIN

The Web Server Access Screen will show a drop-down menu where you must select the type of profile according to the code entered to create the access point.

For the INSTALLER profile: Default code 19025.

For the ADMIN profile: Default code 11077.

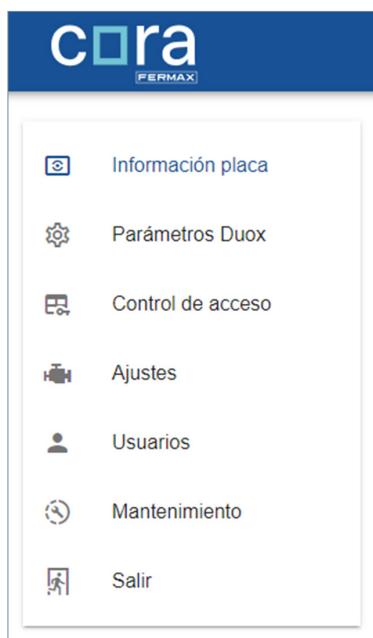
'The default password must be changed after the first use in order to comply with data protection regulations'.

If you have registered an Installer or Administrator card, select the correct profile and enter the card number.

5.2.2 GENERAL FUNCTIONS MENU

Once the User has logged in, he/she will enter the Panel information section (Cora No-Connect).

Throughout the Web Server connection session, there is a general functions menu on the left side of the Screen:



ELEMENT	DESCRIPTION
Panel information	General information on the Panel configuration and its location
Duox parameters	DUOX Panel configuration
Access control	Configuration of the different types of access control: door release times, keypad codes, card reader, etc.
Settings	Panel settings related to language, audio, video, display, calls, Concierge, clock and images
Users	Configuration of Users and User-related services
Maintenance	Maintenance operations: product firmware updates, bus quality tests and detection of DUOX devices in an installation
Exit	Web Server logout

Actions:

ACTION	DESCRIPTION
Click Information icon	Displays information on the current view
Click Save icon	Stores User-entered information from the current section and moves on to the next section

5.2.3 PANEL INFORMATION

This view is composed of two sections: INFORMATION AND LOCATION (only on the CORA Connect Panel). The first one is informative, advising you as to how the Panel is configured and its coverage level. In order to carry out a call divert, the Panel must have a coverage exceeding 20%.

On Connect Panels, all data on the location Screen must be filled in. This information is vital for the Installer to determine which installation it is in the MyConnect portal.

5.2.4 DUOX PARAMETERS

This view allows the User to configure DUOX PLUS parameters of the Amplifier. It contains the PARAMETERS section, allowing its configuration:

5.2.5 ACCESS CONTROL

This view allows you to configure the various access control options available in the product.

Timers

Door opening release time and Door Sensor activation times:

TEMPORIZADORES

Tiempo apertura Vivienda:

3

Tiempo de apertura botón de salida:

6

Sensor Puerta:

10

☐

Door opening time for the Apartment	Set the number of seconds for the door release when opening from the Apartment
Door opening time exit button	Set the opening time (in seconds) when opening from the exit button
Door Sensor	Set the number of seconds the door must be open to generate a door open alarm. A Door Sensor must be connected to Terminals Sp and -
Door sensor activation	Activate / deactivate door sensor functionality

Keypad codes


CÓDIGOS TECLADO

Permitir Códigos de Teclado:

☒

Número de dígitos:

6

To enter the keypad codes on the Panel, it is necessary to press  beforehand.

PARAMETER	DESCRIPTION
Allow Keypad Codes	Activates / deactivates door release functionality by entering keypad codes
Number of digits	Set number of User door release digits (4 to 6)

RFID reader

LECTOR RFID

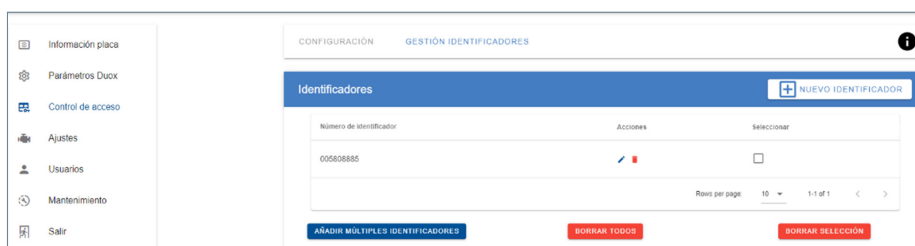
Controlador Externo: ☐

Solicitar código PIN: ☐

PARAMETER	DESCRIPTION
External control	Activate / deactivate use of external controller. If activated, the code of the card read will be sent by the Wiegand output
Request PIN code	Activate / deactivate PIN code request after card detection

BATCH MODE

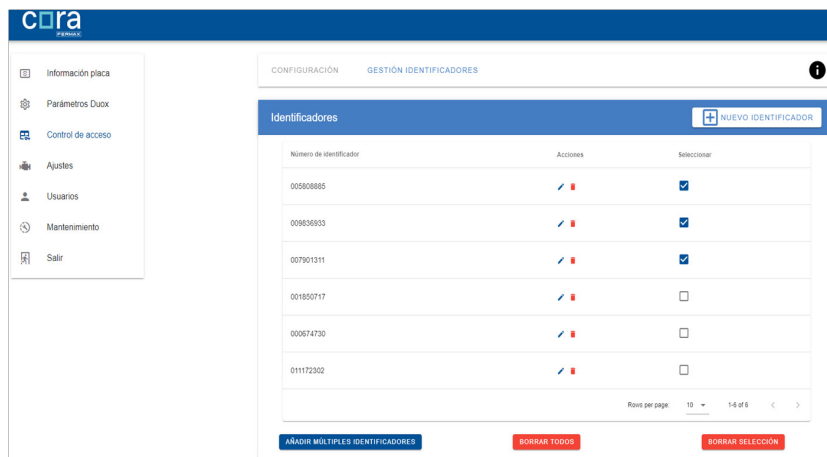
Within the ACCESS CONTROL tab it is possible to add multiple identifiers in a time-saving manner. To do so, select the Identifier Management option. This tab will display the identifiers of any pre-registered existing Users. In such cases you may delete them, add new ones, edit existing ones or register new identifiers in multiple ways.



Add multiple identifiers:

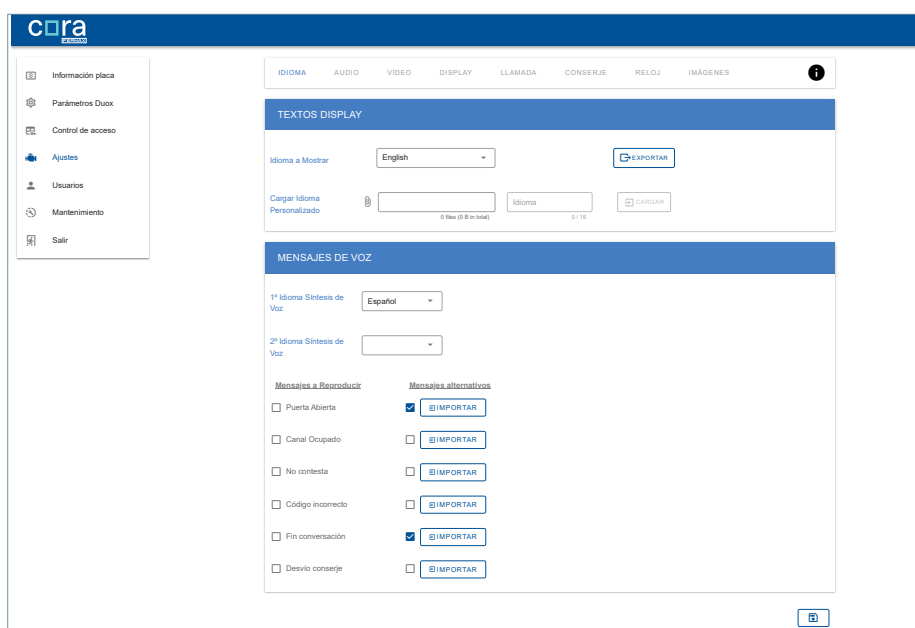
A 30-second window will open for entry of the identifiers you wish to add to the reader. Each successfully submitted identifier shall emit a confirmation tone and send a confirmation message to the Web Server. Once finished, you can either wait for the 30 seconds to expire or close the window to confirm the registrations.





5.2.6 SETTINGS

This view allows you to make specific Panel settings.



It is made up of 8 sections, which in turn are made up of several sub-sections.

SECTION	DESCRIPTION
LANGUAGES	Language selection and customisations
AUDIO	Audio-related settings
VIDEO	Video-related settings
DISPLAY	Display-related settings
CALLING	Call-related settings
CONCIERGE	Settings related to Guard Units
CLOCK	System clock related settings
IMAGES	Management of customised images to appear on the display

Language

This section allows for various language configurations and is composed of the following sub-sections:

SUB-SECTION	DESCRIPTION
DISPLAY TEXTS	Allows language selection, translation export and custom language uploading
VOICE MESSAGE	Allows configuration of speech synthesis languages, messages to be played and alternative messages

Display texts:

TEXTOS DISPLAY

Idioma a Mostrar

English

EXPORTAR

Cargar Idioma Personalizado

Idioma

CARGAR

0 files (0 B in total)

0 / 16

SUB-SECTION	DESCRIPTION
Language to display	Allows you to select the language used for the display texts
Export	Allows a .CSV table with the current messages to be exported in order to edit and customise them
Load custom language	Allows a .CSV file with custom messages to be exported

The language selection allows you to configure the language to be used by the product:

id	Int. acronyms	Language	Language in English
1	es	Español	Spanish
2	en	English	English
3	de	Deutsch	German
4	pl	Polski	Polish
5	fr	Français	French
6	ru	Русский	Russian
7	tr	Türkçe	Turkish
8	he	עברית	Hebrew
9	nl	Nederlands	Dutch
10	pt	Português	Portuguese
11	ca	Català	Catalan
12	va	Valencià	Valencian
13	eu	Euskera	Basque
14	gl	Galego	Galician
15	el	ελληνικά	Greek

id	Int. acronyms	Language	Language in English
16	cs	Český	Czech
17	sk	Slovenský	Slovak
18	no	Norsk	Norwegian
19	fi	Suomi	Finnish
20	sv	Svenska	Swedish
21	da	Dansk	Danish
22	is	Íslenska	Icelandic
23	it	Italiano	Italian
24	hu	Magyar	Hungarian
25	hr	Hrvatski	Croatian
26	bg	български	Bulgarian
27	lt	Lietuvių	Lithuanian
28	lv	Latviski	Latvian
29	et	Eesti	Estonian

Voice messages

MENSAJES DE VOZ

1º Idioma Síntesis de Voz

Español

2º Idioma Síntesis de Voz

Mensajes a Reproducir

☐ Puerta Abierta
 ☐ Canal Ocupado
 ☐ No contesta
 ☐ Código incorrecto
 ☐ Fin conversación
 ☐ Desvío conserje

Mensajes alternativos

☒ IMPORTAR
 ☐ IMPORTAR
 ☐ IMPORTAR
 ☐ IMPORTAR
 ☒ IMPORTAR
 ☐ IMPORTAR

Personalisation of the voice message

ACTION	DESCRIPTION
1st Language Speech synthesis	Configures playback audio language when the Panel performs certain actions
2nd Language Speech synthesis	If configured, performing these actions will play the speech synthesis in both languages
Messages to be played	If configured, performing these actions will play the speech synthesis in both languages
Alternative messages	If configured, performing these actions will play the speech synthesis in both languages
Importing alternative messages	Allows you to import custom audio files for each action on the Panel. Supported formats: 32000Hz, 128kbps / 44100Hz, 128kbps / 48000Hz, 128kbps / mono or stereo and 5sec max duration

id	Int. acronyms	Language	Language in English
1	es	Español	Spanish
2	en	English	English
3	de	Deutsch	German
4	pl	Polski	Polish
5	fr	Français	French
6	ru	Русский	Russian
7	tr	Türkçe	Turkish
8	he	עברית	Hebrew
9	nl	Nederlands	Dutch
10	pt	Português	Portuguese
11	ca	Català	Catalan
12	va	Valencià	Valencian
13	eu	Basque	Basque
14	gl	Galego	Galician
15	el	ελληνικά	Greek
16	cs	Český	Czech

id	Int. acronyms	Language	Language in English
17	sk	Slovenský	Slovak
18	no	Norsk	Norwegian
19	fi	Suomi	Finnish
20	sv	Svenska	Swedish
21	da	Dansk	Danish
22	is	Íslenska	Icelandic
23	it	Italian	Italian
24	hu	Magyar	Hungarian
25	hr	Hrvatski	Croatian
26	bg	български	Bulgarian
27	lt	Lietuvių	Lithuanian
28	lv	Latviski	Latvian
29	et	Eesti	Estonian
30	fa	فارسی	Farsi / Persian
31	ar	عرب	Arabic

Audio

This section allows you to configure filters and volumes of loudspeakers and microphones, and is made up of the following sub-sections:

SUB-SECTION	DESCRIPTION
LOUDSPEAKER	Adaptive audio settings and audio playback volumes
MICROPHONE	Audio capture volume settings

Loudspeaker

This sub-section allows you to configure the Panel's audio playback volumes and the activation/deactivation of adaptive audio. The range of allowed values is from 1 to 8.

The Panel defaults to 4.



SUB-SECTION	DESCRIPTION
Adaptive	Activate / deactivate adaptive audio. If activated, the volume is adjusted according to the ambient noise
Conversation	Conversation volume
Messages	Message volume
Key	Volume token key presses

Microphone

This sub-section allows you to configure the audio volume to the Apartment. The range of allowed values is from 1 to 8.



Video

This section allows the configuration of various camera parameters and is made up of the following sub-sections:

VÍDEO

☐ Zoom

9

▼

☒ Activar Iluminación

Calidad Vídeo

Premium

▼

PARAMETER	DESCRIPTION
Zoom	Activate / deactivate camera zoom (ON / OFF)
Zoom section	Camera zoom zone setting (0 - 9)
Activate Lighting	Activate / deactivate ambient LEDs when making a call (ON / OFF)
Video Quality	Video quality settings when making calls (PREMIUM - STANDARD)

Display

This section allows the configuration of the Amplifier display and consists of the following sub-sections:

Configuration

This sub-section allows the following parameters to be configured:

SECTION	DESCRIPTION
Brightness	Display brightness manual setting (1 - 8)
Auto Brightness	Automatic Display brightness setting (ON / OFF) adapts to the ambient lighting
Activate the	Display activation event configuration from standby (Key press - Key press or presence)
Contact list. No. of names per Screen	Configuration of number of Users displayed on the User Phonebook Screen (1 or 4)
LED array	LED array activation configuration (always off or Off with display off)

CONFIGURACIÓN

Brillo

8

Auto

Activar al

Pulsar tec... ▼

Agenda. N° Nombres por pantalla

4 ▼

Leds Ola

Siempre apagado

Apagado con display apagado

View

This sub-section allows the following parameters to be configured:

PARAMETER	DESCRIPTION
Date and Time	Activate / deactivate date and time display on Carousel Screens
Retroview activate	Activate / deactivate retroview
Retroview when	Activate retroview <i>ALWAYS</i> or <i>ON CALL ONLY</i>
Carousel Images Welcome	Activate / deactivate welcome image
Carousel Images Image	Choice of welcome image: Fermax or customised
Carousel Images time	Time in seconds for which each Carousel image is displayed
Activate Information Screens	Activate or deactivate the Panel Operating Information Screen
Time Information Screens	Time in seconds that the Information Screen is displayed
Additional Images	Configure the activation of up to 4 images added to Carousel (ON / OFF)
Additional times	Time in seconds that each image added to Carousel is shown

Visualizar

Fecha y Hora

Retroview

Siempre

Imágenes Carrusel

Bienvenida

Fermax

10

Pantallas Información:

Principal

15

Adicionales

Imagen 1

Imagen 2

Imagen 3

3

Imagen 4

Individual

This section allows you to configure the various call dialling configuration options and comprises the following sub-section:

MARCACIÓN

Llamada Restringida

Bloques alfabéticos

Llamada Mapeada

Longitud código de llamada

6

Llamada alfanumérica

Tono Continuo

Terminar al abrir la puerta

PARAMETER	DESCRIPTION
Restricted Call	Set activation / deactivation of the Allowed Calls list (ON / OFF)
Mapped Call.	Set Activate / deactivate Mapped Call (ON / OFF)
Alphanumeric call	Configures Activation / deactivation of alphanumeric calls (ON / OFF)
Villa Mode	Configures the activation / deactivation of the continuous ring tone during the call (ON / OFF)
Terminate on opening the door	Activate / deactivate End Conversation when opening door during a call (ON / OFF)

Mapped Call.

The mapped call allows the use of call codes different from the Duox addresses of the Terminals. It is useful when the Apartment numbers are not correlative. The mapping table is used to convert the dialled call code to the Duox call direction.

The structure of the mapping codes is as follows:

1-6 numeric digits

If the Mapped Call parameter is activated, new options will appear that will allow the following actions:

ACTION	DESCRIPTION
New mapped address	Allows a new address mapping to be entered
Delete all	Allows deletion of all current mappings
Import	Allows a .CSV table of mappings to be imported
Export	Allows export of current mappings to a .CSV table
Edit mapping	Allows a current mapping to be exported
Remove mapping	Allows a current mapping to be deleted

Alphanumeric call

The alphanumeric call allows alphanumeric mappings of call codes to be added to DUOX addresses. It is useful when the Apartments are designated by floor number and letter: 1A, 2C, etc.

The structure of the mapping codes is as follows:

1-6 numerical digits + alphabetical letter

Codigo de llamada	Direccion Duox	Acciones
1234A	000001	[Edit] [Delete]
1234B	000002	[Edit] [Delete]
1234C	000003	[Edit] [Delete]
1234D	000004	[Edit] [Delete]

If the alphanumeric call parameter is activated, new options will appear that will allow the following actions to be performed:

ACTION	DESCRIPTION
New mapped address	Allows a new address mapping to be entered
Delete all	Allows deletion of all current mappings
Import	Allows a .CSV table of mappings to be imported
Export	Allows export of current mappings to a .CSV table
Edit mapping	Allows a current mapping to be exported
Remove mapping	Allows a current mapping to be deleted

Villa Mode - Single line Panel (1L)

In this mode the Panel will act as a 1-line or single pushbutton Panel.

The Bell button must be used to start the call.

The DUOX address to be called must be configured via the Web Server.

In this mode, the Panel will not take into account whether it is a block or a general entrance, and it will not be possible to call the Concierge. The keypad can still be used for code entry.

Concierge

This section allows you to assign names (labels) to the existing Guard Units in the installation so that visitors can choose who to call, and is made up of the following sub-sections:

	DESCRIPTION
New Guard Unit	Allows a new Guard Unit tag to be entered
Delete all	Allows all entered Guard Unit labels to be deleted
Import	Allows a .CSV table of Guard Unit labels to be imported
Export	Allows a .CSV table of Guard Unit labels to be imported
Reset Guard Units	Allows you to deactivate Call Divert on the Panel if it has been activated by mistake
Edit label	Allows editing of a current label
Remove label	Allows deletion of a current label

Nueva Conserjería

Descripción

CC EB_0_1

9 / 16

Bloque(B) o EG(G)

Bloque

Número bloque

0

Número Conserjería

1

CANCELAR

GUARDAR

Nueva Conserjería

Descripción

CC EG_2

7 / 16

Bloque(B) o EG(G)

Entrada gen...

Número Conserjería

0

CANCELAR

GUARDAR

Editar Conserjería

Descripción

CC EB_0_1

9 / 16

Bloque(B) o EG(G)

Bloque

Número bloque

0

Número Conserjería

1

CANCELAR

GUARDAR

Clock

This section allows you to configure different options related to the date and time, and comprises the following sub-sections:

SUB-SECTION	DESCRIPTION
DATE AND TIME FORMAT	Date and time formats
TIME AND DATE SETTINGS	Date and time settings
SUMMER/WINTER TIMETABLE SETTING	Timetable setting

cora

Estados

Información placa

Parámetros Duos

Control de acceso

Ajustes

Usuarios

Mantenimiento

Salir

IDIOMA

AUDIO

VIDEO

DISPLAY

LLAMADA

CONSERJE

RELOJ

IMÁGENES

1

FORMATO FECHA Y HORA

🕒

24H

📅

DD/MM/AAAA

AJUSTE FECHA Y HORA

🕒

hora

4

minuto

18

📅

Fecha

2024-05-13

Auto

AJUSTE HORARIO VERANO/INVERNO

🌍

Z.

Europe/Madrid

Date / Time Format

FORMATO FECHA Y HORA

🕒

24H

📅

DD/MM/AAAA

PARAMETER	DESCRIPTION
Time Format	12H – 24H
Date Format	Indicates in which order the day, month and year are shown

CORA PANEL

27

Date / Time Setting

AJUSTE FECHA Y HORA

🕒

hora

4

minuto

18

📅

Fecha

2024-05-13

🔍

Auto

PARAMETER	DESCRIPTION
Time Setting	Allows you to set the current time
Configuration Date	Allows the current date to be set
Auto	If activated, the date and time is automatically updated (for the Connect Panel exclusively)

Summer / Winter Time Setting

AJUSTE HORARIO VERANO/INVIERNO

🌐

Zona

Europe/Madrid

PARAMETER	DESCRIPTION
Time Zone Activation	Activate / deactivate time zone (Zone - No)
Time zone	Allows the Time Zone to be configured if the Time Zone Activation parameter is active

Images

This section allows you to create a repository of different custom images, as may be required to appear various functions. It is composed of the following sub-sections:

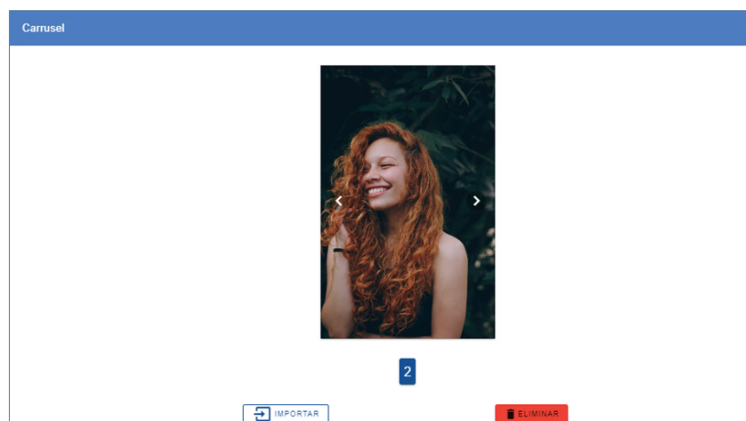
SUB-SECTION	DESCRIPTION
Carousel	Carousel image configuration
Call Information	Call images configuration

Carousel

Up to 4 images can be loaded to be shown on the display for additional information or advertising. Each image contains an identifier displayed at the bottom (1 - 4).

Image format: jpg 480x640 pixel.

ACTION	DESCRIPTION
Import	Allows image import
Delete	Allows image deletion
Next image	Display the following image
Previous image	Show previous image



Call Information

Up to 20 pictures can be loaded in SETTINGS/PICTURES/Call information. During a call to an Apartment, an image associated with the resident is displayed, visible either throughout the course of the call or at the point of door release.

Each image contains an identifier shown at the bottom (1-20).

Image format: jpg 480x320 pixel.

Select the image number and then upload the file or delete it.

Note: During this function the Retroview will remain disabled.

The image to be displayed for each resident is chosen from the resident User menu.

ACTION	DESCRIPTION
Import	Allows image import
Delete	Allows image deletion
Next image	Display the following image
Previous image	Show previous image



5.2.7 USERS

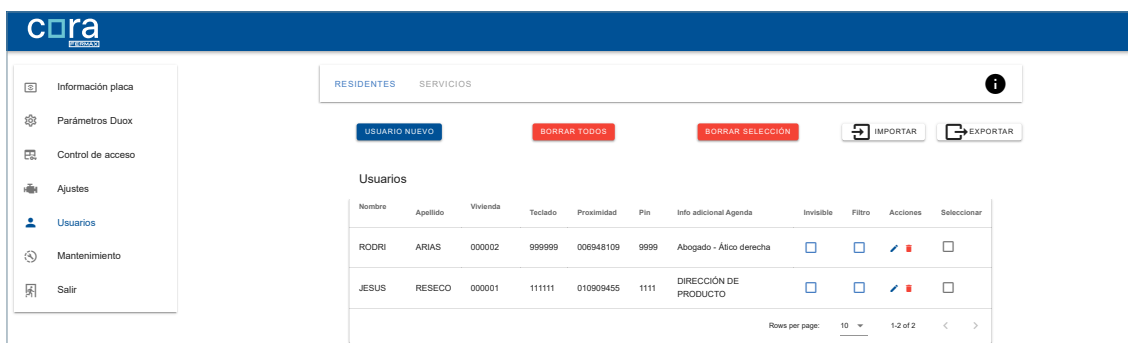
This view allows you to enter and manage specific User configurations and service functions. It contains the following sections:

SECTION	DESCRIPTION
RESIDENTS	Resident User management
SERVICES	Management of service providers

By default, when the Users item is selected, the RESIDENTS section will be displayed, where an empty table will appear.

Residents

This section allows you to perform various actions on a Panel User table.



New User


When you click on the NEW USER button, the following window opens:

Basic information is mandatory and optional information is not.

Basic parameters


PARAMETER	DESCRIPTION
Name	Username (1 to 12 characters)
Name	User name (0 to 16 characters)
Apartment	DUOX User address (1 to 6 digits)
Invisible	If activated, it is not displayed in the Phonebook (ON / OFF)
Filter	If activated, the call is not allowed and is not displayed in the Phonebook (ON / OFF)

Optional parameters

PARAMETER	DESCRIPTION
Keypad Code	Door Release Keypad Code (4/5/6 digits, depending on the door opening: Access Control / Keypad Codes / Number of digits)
Proximity	Door Release card code. It is possible to enter this number by pressing the icon  and swiping the selected card through the card reader within 30s. (9 digits)

PARAMETER	DESCRIPTION
Pin	Extra door release pin code (4 digits)
Additional information: Phonebook	Extra User information displayed when scrolling through the Phonebook in single-user configuration (32 characters)
Info on Additional Calls: Activation	Activation of additional information display when making calls (ON / OFF)
Additional Call Information: Type	Selection of Additional Call Information type (Text or Image)
Additional Call Information: Text	If the Additional Call Information type is Text, it is possible to enter a text of up to 32 characters that will appear during the call
Additional Call Information: Image	If the Additional Call Information type is Image, it is possible to select a picture numbered between 1 and 20, preconfigured in the section Settings / Images / Web Server Call Information
Additional Door Lock information: Activation	Activate to display extra information when a door release is ordered from the Apartment (ON / OFF)
Additional Door Lock information: Type	Selection of type of additional Door Lock information (Text or Image)
Additional Door Lock information: Text	If the Additional Door Lock information type is Text, it is possible to enter a text up to 32 characters long that will appear during the call
Additional Door Lock information: Image	If the Additional Door Lock information type is Image, it is possible to select an image numbered between 1 and 20, preconfigured in the section Settings / Images / Web Server Call Information

Edit User

It is possible to edit the information of an existing User by clicking on the icon :



Editar usuario


Información Básica

Nombre: RODRI 5 / 12 Apellido: ARIAS 5 / 16 Vivienda: 000002 6 / 6 Invisible ☐ Filtro ☐

Información Opcional


Código de Teclado: 999999 6 / 6

Proximidad: 006948109 9 / 9  


Pin: 9999 4 / 4 

Info adicional Agenda: Abogado - Ático derecha 23 / 32

Info Adicional Llamada: ☒ Tipo: Imagen

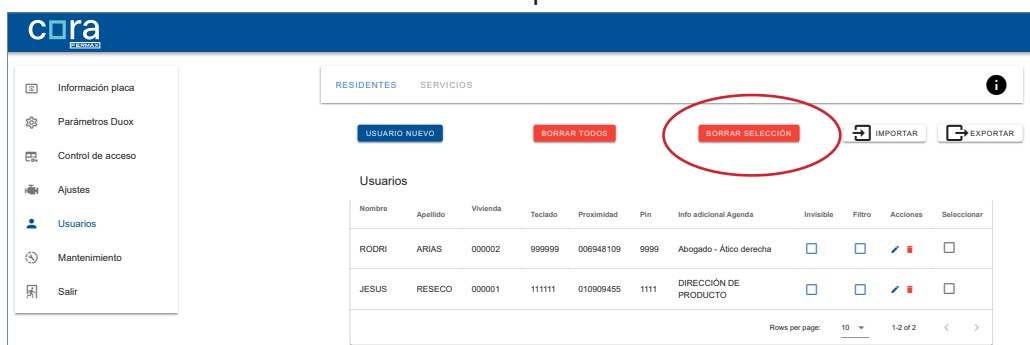


Delete User

It is possible to delete an existing User by clicking on the icon . Confirmation will be requested.

Remove User selection

It is possible to delete several existing Users by selecting them and pressing the DELETE SELECTION button. Confirmation will be requested.



Export / Import

Export: Download a .CVS file with the current Users. It can be used as a template.

Import: Load a .CVS file with the Users you wish to register in the Panel.

Services


This section allows you to configure the credentials to various special Users such as Installers, Administrators and Carriers, and comprises the following sub-sections:

SUB-SECTION	DESCRIPTION
INSTALLER	Allows configuration of installer functions. Access to Web Server via keypad code or installer code card
ADMINISTRATOR	Allows configuration of administrator functions. Access to Web Server via keypad code or administrator card
CARRIER	Allows configuration of Carrier functions. Door release via keypad or card code on specific days and timeslots

Installer

This sub-section allows you to configure the installer options.



PARAMETER	DESCRIPTION
Keypad Code	Web Server Access Code Keypad (5 digits)
Proximity	Web server access card code. It is possible to configure this number by pressing the  icon and swiping the selected card through the card reader within 30s (9 digits)

Director

This sub-section allows you to configure the administrator options.

Administrador

Código de Teclado

Código


11077

5 / 5

Proximidad

Proximidad

0 / 9

PARAMETER	DESCRIPTION
Keypad Code	Keypad code to access the Web Server (5 digits)
Proximity	Web Server Access Code. It is possible to configure this number by pressing the  icon and swiping the selected card through the card reader within 30s (9 digits)

Carrier

This sub-section allows you to configure the Carrier options.

Cartero

Código de Teclado

Código

0 / 6

Proximidad

Proximidad

0 / 9

☐ Lunes
☐ Martes
☐ Miércoles
☐ Jueves
☐ Viernes
☐ Sábado
☐ Domingo

De:

hora

0

minuto

0

A:


hora

0

minuto

0

Trades:

PARAMETER	DESCRIPTION
Keypad Code	Door Release Keypad Code for Carrier (4/5/6 digits, depending on: Access Control / Keypad Codes / Number of digits)
Proximity	Door release card code for Carrier. It is possible to configure this number by pressing the  icon and swiping the selected card through the card reader within 30s (9 digits)
Keypad Code	Allows you to select the time slot in which the door can be opened by a Carrier code or card
Schedule	Allows you to select which days of the week you can open the door by Carrier code or card
Trades	Enables the activation / deactivation of the Trade Carrier functionality. If this option is activated, the bell button performs the door release directly during the set hours and days

5.2.8 MAINTENANCE



This view allows maintenance operations to be carried out on the Panel and contains the following sections:

SECTION	DESCRIPTION
FIRMWARE	Allow the Panel firmware to be updated via an update file
PANEL CONFIGURATION	Allows the import and export of .CSV files with the configuration of the Panel. It also allows you to reset the Panel parameters to default
TAP	Enables you to enter the maintenance tools view

FIRMWARE UPDATES

This sub-section shows the current version of the Panel firmware and allows the User to upgrade to a new version.

FIRMWARE

Versión

00.00.016

Seleccionar Fichero

0 files (0 B in total)


ACTUALIZAR

ACTION	DESCRIPTION
Select File	Allows selection of update file
Update	Launches firmware update. The Panel goes into maintenance mode until the update is completed. If the filename is not correct, no action is taken and an error pop-up is displayed

Update

To perform the update, the file must have the following name:

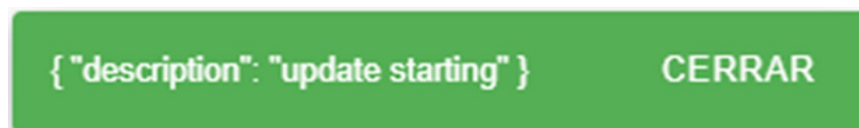
fermaxUpgrade.tar.bz2

FIRMWARE	
Versión	00.00.012
Seleccionar Fichero	<div>  fermaxUpgrade.tar.bz2 (44.4 MB) <div>×</div> </div> <div>1 files (44.4 MB in total)</div>
<div>ACTUALIZAR</div>	

When you click *Refresh*, the following standby icon will appear on the *Web Server*:



If the update file transfer initiation process has been successful, the following pop-up will appear on the *Web Server*:



At this point, the Panel will display the Maintenance Screen and the array of LEDs will appear orange.



After a few minutes, the Panel will reboot and boot with the new version installed, displaying the Configuration Boot Screen with the new version.

In the event of an unsuccessful upgrade, the Panel will reboot to its pre-upgrade version.

Panel Configuration

This sub-section allows you to import or export a complete configuration of parameters and Panel tables.

CONFIGURACIÓN PLACA		
<div>  IMPORTAR </div>	<div>  EXPORTAR </div>	<div> <div>RESET</div> </div>

ACTION	DESCRIPTION
Import	Allows a previously saved .CSV configuration file (mappings, Users and images) to be imported
Export	Allows the current Panel configuration to be exported to a .CSV configuration file (mappings, Users and images)
Reset	Allows you to reset the Panel configuration to default settings

The RESET button brings up a configuration pop-up.

In the event of acceptance, all Panel parameters are reset to factory settings.

When you click on this button, a message appears where you can accept or cancel the action.

Key

It is accessed from the *Maintenance* view, by clicking on the KEY icon:

The screenshot shows the 'FIRMWARE' and 'CONFIGURACIÓN PLACA' sections. In the 'CONFIGURACIÓN PLACA' section, there are buttons for 'IMPORTAR', 'EXPORTAR', and 'RESET'. Below these buttons, a key icon is circled in red, indicating it is the focus of the section.

This view allows various maintenance actions to be carried out on the Panel and contains the following sections:

ACTION	DESCRIPTION
DETECTION	Detection of DUOX Terminals in installation
TRAFFIC	DUOX traffic display in installation

Detection

The screenshot shows the 'DETECCIÓN' view with the following fields and buttons:

- A dropdown menu labeled 'Descubrimi...'.
- Input fields for 'Bloque' (value 0) and 'SubBloque' (value 0).
- Input fields for 'Dirección Inicial' (value 1) and 'Dirección final' (value 1).
- A dropdown menu labeled 'Entrada gen...'.
- An 'EMPEZAR' button at the bottom.

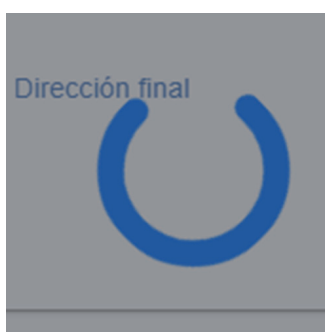
This section allows 2 types of actions depending on the detection mode:

ACTION	DESCRIPTION
Discovery	Allows scanning of available Terminals in the installation
Advanced	Allows verification of the DUOX signal quality in the specified Terminal range

Discovery Mode

This operating mode allows you to scan the installation to discover the Terminals connected to it. The start and end address of the scan must be given in advance in order to narrow it down.

After pressing the Start button, a dynamic circular icon appears indicating that the Terminal discovery process is active.



After about 60s (the process may take longer if there are many Terminals in the installation), the Web Server displays the results of the discovery in a results table:

RESULTADOS				
Dirección	Modelo	Versión	Identificador	Acciones
01 98 09	MONITOR VEO NOWIFI	47.41.001	0000005e013ebefe000d0028	
01 98 08	MONITOR VEO NOWIFI	47.41.001	000000a1013ebefe000d0028	
00 00 01	MONITOR VEO NOWIFI	48.41.005	00000437013e4de500030058	
00 00 01	MONITOR VEO-XL NOWIFI	48.41.005	203237384843570c001f003c	
00 00 03	MONITOR VEO-XL NOWIFI	48.41.005	203237384843570c0025003b	
00 00 02	MONITOR VEO-XL NOWIFI	48.41.005	203237384843570e00300036	
00 00 02	MONITOR VEO NOWIFI	42.20.003	203432334642570400420037	
01 98 06	MONITOR VEO-XS NOWIFI	48.24.012	20343939594250060063003e	
01 98 05	MONITOR VEO-XS NOWIFI	48.24.012	20343939594250060065003f	
00 00 00	MONITOR VEO NOWIFI	46.22.001	203936314843571200270044	

Rows per page: 10 1-10 of 10

ACTION	DESCRIPTION
Inspect Terminal 	The configuration parameters of the detected Terminal are displayed. It is possible to generate a .PDF report of the selected Terminal by pressing the
Generate report	Allows a .PDF report with the information of the installation and all its Terminals to be generated

The Terminal Discovery results table consists of the following fields:

FIELD	DESCRIPTION
Direction	DUOX address of the discovered Terminal
Model	Discovered Terminal model
Version	Version of the discovered Terminal
Identifier	Unique identifier of the discovered Terminal
Shares	Displays discovered Terminal configuration parameters

Parámetros Configuración	
build	1
conversation_volume	6
dda_mode	off
device_model	1
dnd_mode	on
door_ringtone	bingbong
doormatic_mode	off
dual_channel	device no
	enabled no
	modem_dual no
firmware_updater_status	description Upgraded
	job_fermax_id 11148
	status IDLE
fw_version	47.41

The Terminal Discovery results table consists of the following fields:

FERMAX Detección		31/10/2023, 9:25:32	
Descubrimiento			
Dirección	Modelo	Versión	Identificador
01 98 09	MONITOR VEO NOWIFI	47.41.001	0000005e013ebefe000d0028
01 98 08	MONITOR VEO NOWIFI	47.41.001	000000a1013ebefe000d0028
00 00 01	MONITOR VEO NOWIFI	48.41.005	00000437013e4de500030058
00 00 01	MONITOR VEO-XL NOWIFI	48.41.005	203237394843570c001f003c
00 00 03	MONITOR VEO-XL NOWIFI	48.41.005	203237394843570c0025003b
00 00 02	MONITOR VEO-XL NOWIFI	48.41.005	203237394843570e00300036
00 00 02	MONITOR VEO NOWIFI	42.20.003	203432334642570400420037
01 98 06	MONITOR VEO-XS NOWIFI	48.24.012	20343939594250060063003e
01 98 05	MONITOR VEO-XS NOWIFI	48.24.012	20343939594250060065003f
00 00 00	MONITOR VEO NOWIFI	46.22.001	203936314843571200270044

FERMAX

Detección

31/10/2023, 9:26:44

Parámetros Configuración 0000005e013ebefe000d0028

Parámetro	Valor						
build	1						
conversation_volume	6						
dda_mode	off						
device_model	1						
dnd_mode	on						
door_ringtone	bingbong						
doormatic_mode	off						
dual_channel	<table><tr><th>device</th><th>enabled</th><th>modem_dual</th></tr><tr><td>no</td><td>no</td><td>no</td></tr></table>	device	enabled	modem_dual	no	no	no
device	enabled	modem_dual					
no	no	no					
firmware_updater_status	<table><tr><th>description</th><th>job_fermax_id</th><th>status</th></tr><tr><td>Upgraded</td><td>11148</td><td>IDLE</td></tr></table>	description	job_fermax_id	status	Upgraded	11148	IDLE
description	job_fermax_id	status					
Upgraded	11148	IDLE					
fw_version	47.41						
fw_version_v2							
guard_ringtone	fermax2						
house_nr	01 98 09						
hw	47						
installer_lock	unlocked						
last_detection	31/10/2023, 9:34:25						
melody_volume	6						
monitor_id	0000005e013ebefe000d0028						
monitor_subtype	NOWIFI						
monitor_type	VEO						
num_block	1						
num_subblock	98						
num_unit	9						

Advanced Mode (Installation Test)

This operating mode allows the DUOX bus quality test to be carried out on the Terminals detected in the installation.

It is possible to select a DUOX addressing range within which to launch the tests.

There are two types of tests to be carried out on the Terminals:

TYPE OF TEST	DESCRIPTION
Commands / data	Launches a test that indicates the quality of transmission and reception of DUOX commands in the installation. Slower than simple detection.
Video / Audio	Launches a test that indicates the transmission and reception quality of Video/Audio in the installation. Much slower than detection.

DETECCIÓN

Avanzado

Bloque

0

SubBloque

0

Dirección Inicial

1

Dirección final

1-99999

Entrada general

Avanzado

☐ Comandos/ Data

☒ Video/ Audio

Intermedio

EMPEZAR

←

PARAMETERS	DESCRIPTION
Detection type	Advanced Mode for launching installation tests
Block	Panel block
SubBlock	Panel SubBlock
Initial Address	Initial address at which to start installation tests
Final Address	Final address to finish installation tests
Type of panel:	Type of panel:
Commands / Data	Configure installation tests to launch DUOX command tests to each Terminal in the selected range.
Video / Audio	Configure installation tests to launch DUOX data tests to each Terminal in the selected range.
Test level	Allows you to set the duration of the command/data tests for the selected Terminal range, (Basic, Intermediate or Advanced).

Actions:

ACTION	DESCRIPTION
Operating mode selection	Advanced
Start	Launch configured test process

After configuring the desired installation test with the desired ADDRESSING RANGE, types of tests to be executed and duration, the Web Server will display a Screen for the User to enter the name of the test to be carried out:

Nombre del test:

test terminales

CANCELAR EMPEZAR

After the START button is pressed, the testing process will start:

The Web Server will show a percentage bar of executed tests and a table of results in process with the Terminals to be tested.

The Panel will display the maintenance Screen throughout the process.

ESTADO				
0%				
RESULTADOS				
Dirección	Tipo test	Resultados Placa	Resultado Dispositivo	Resultados
98 99 01	AUDIO/VIDEO	0	0	🔄
98 99 02	AUDIO/VIDEO	0	0	🔄
98 99 03	AUDIO/VIDEO	0	0	🔄
98 99 04	AUDIO/VIDEO	0	0	🔄

EN MANTENIMIENTO



ESTADO				
100%				
RESULTADOS				
Dirección	Tipo test	Resultado Placa	Resultado Dispositivo	Resultados
98 99 01	AUDIOVIDEO	100	100	✓
98 99 02	AUDIOVIDEO	100	100	✓
98 99 03	AUDIOVIDEO	100	100	✓
98 99 04	AUDIOVIDEO	100	100	✓
98 99 05	AUDIOVIDEO	0	0	✗
98 99 01	COMMAND	100	100	✓
98 99 02	COMMAND	100	100	✓
98 99 03	COMMAND	100	100	✓
98 99 04	COMMAND	100	100	✓
98 99 05	COMMAND	0	0	✗

The installation test results table consists of the following fields:

FIELD	DESCRIPTION
Direction	DUOX address of the tested Terminal
Multiple-choice test	Type of test carried out: AUDIO/VIDEO or COMMANDS/ DATA
Results Panel	Percentage of test quality from the perspective of the Panel
Device Results	DUOX quality percentage of the test from the Terminal's point of view
Results	Final result of the Terminal test (OK - KO - NC)

The Results column indicates the communication quality between the Panel and the tested Terminal:

FIELD	ICON	DESCRIPTION
Test OK	✓	Indicates a successful test between the Panel and the Terminal There should be no communication, audio or video problems
TEST KO	✗	Indicates that the test was NOT successful between the Panel and the Terminal Communication, audio or video problems may occur
NO TERMINAL DETECTED	✗	Indicates that the test could not be started There could be a faulty or non-installed Terminal

You may generate a results report by clicking on the button



FERMAX

Detección

31/10/2023, 10:11:23

Nombre del test: t2

Dirección	Tipo test	Resultados Placa	Resultado Dispositivo	Resultados
98 99 01	AUDIO/VIDEO	100	100	OK
98 99 02	AUDIO/VIDEO	100	100	OK
98 99 03	AUDIO/VIDEO	100	100	OK
98 99 04	AUDIO/VIDEO	100	100	OK
98 99 05	AUDIO/VIDEO	0	0	KO

Traffic

This section allows you to monitor DUOX command traffic in the installation.

Once the User enters this section, all DUOX commands will be displayed in real time in a results table:

DETECCIÓN

TRÁFICO

RESULTADOS

TIEMPO

COMANDO

DATO

ORIGEN

DESTINO

TX/RX

No data available

Rows per page: All

Actions:

ACTION	DESCRIPTION
DELETE COMMANDS	Allows you to delete the commands displayed in the table
GENERATE REPORT	Allows the generation of command reports

The results table consists of the following fields:

FIELD	DESCRIPTION
WASHING	Command timestamp
COMMAND	Command type
DATA	Command data
ORIGIN	Command source device
TX/RX	Transmit/receive command from the Amplifier's point of view

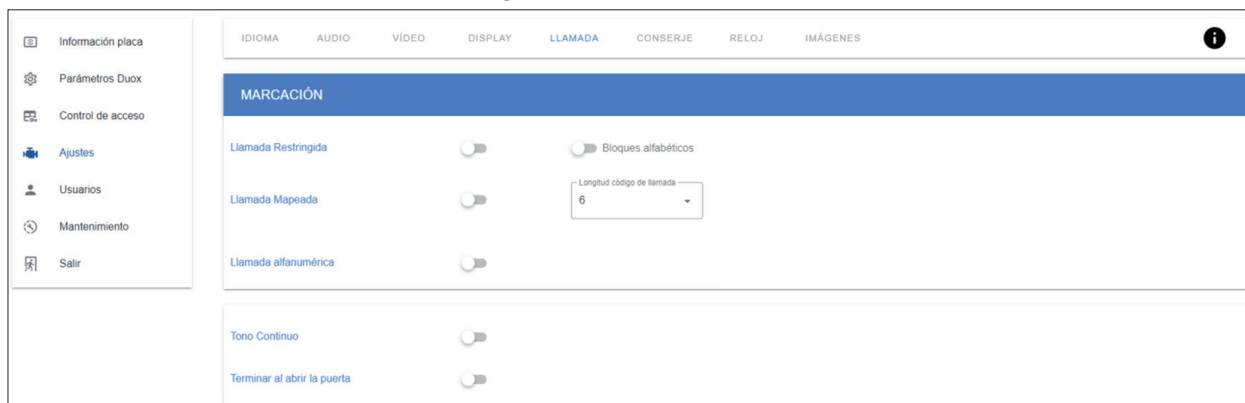
FERMAX Tráfico		31/10/2023, 10:43:42			
TIEMPO	COMANDO	DATO	ORIGEN	DESTINO	TX/RX
Tue Oct 31 10:57:00 2023 1698746220:186	COMMAND_SUPPORT TED_AV	11100010	P0-G	CC-BROA DCAST-B 0	TX
Tue Oct 31 10:57:00 2023 1698746220:383	COMMAND_SUPPORT TED_AV	11100010	P0-G	CC-BROA DCAST-B 0	TX
Tue Oct 31 10:57:00 2023 1698746220:583	COMMAND_SUPPORT TED_AV	11100010	P0-G	CC-BROA DCAST-B 0	TX

5.3 PANEL-TO-TERMINAL CALLING FUNCTIONS

5.3.1 CALLS TO AN APARTMENT FROM THE PANEL

It is possible to make calls to apartments from any point on the Carousel by pressing any number key on the keypad.

Different call setup modes can be configured from the Web Server:



Depending on the configuration of the Amplifier, a number of different Screens will appear.

Screens to call an apartment

Pressing any number on the KEYPAD will switch from the Carousel Screens to the Call Screen in 'direct call to apartment' mode.

For this type of call, the User will directly dial the DUOX address he/she wishes to call.

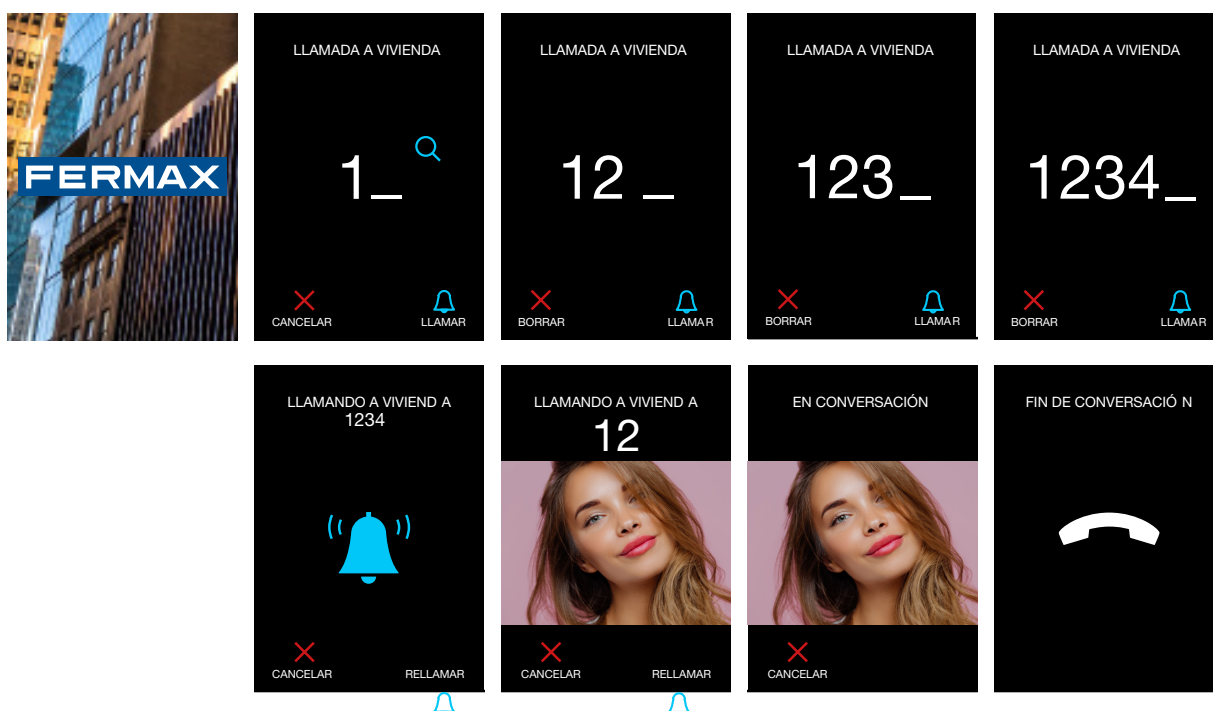
The maximum number of digits depends on the configuration of the Amplifier.

AMPLIFIER TYPE	MAXIMUM DIGITS
General Entrance	6
Block	4
Sub-block	2

Direct call

From the Carousel, the User can enter a digit.

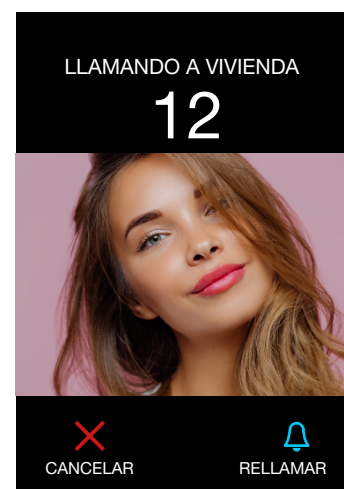
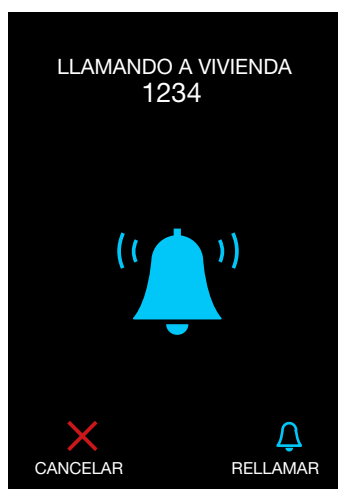
At this point the Apartment Call Screen and the digit entered by the User will appear. When the Bell button is pressed, the Amplifier will call the Apartment with that DUOX address.



Actions:

ACTION	DESCRIPTION
Press numeric button	The following digit of the address of the Terminal to be called is added
Press X button	The last digit is deleted. If there is only one digit, you will be taken back to the initial Screen of the Carousel
Press the BELL button	The next Screen is displayed and an attempt is made to make a call to the dialled address
Press the UP ARROW	You will be taken back to the initial Screen of the Carousel
Press the DOWN ARROW	You will be taken back to the initial Screen of the Carousel
Press MAGNIFYING GLASS button	No action

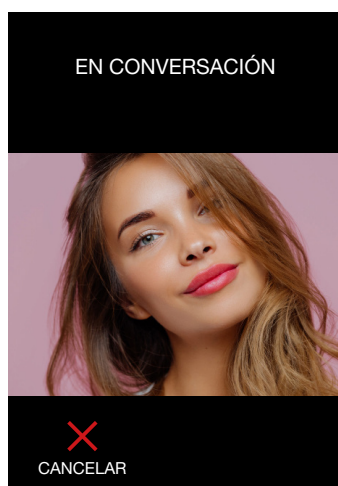
Call Apartment Screen



Actions:

ACTION	DESCRIPTION
Press numeric button	You will be taken back to the Apartment Call Screen
Press X button	The current call is cancelled and you will be taken back to the Carousel Screens
Press the BELL button	A redial may be performed without changing the Screen
Press the UP ARROW	No action
Press the DOWN ARROW	No action
Press MAGNIFYING GLASS button	No action

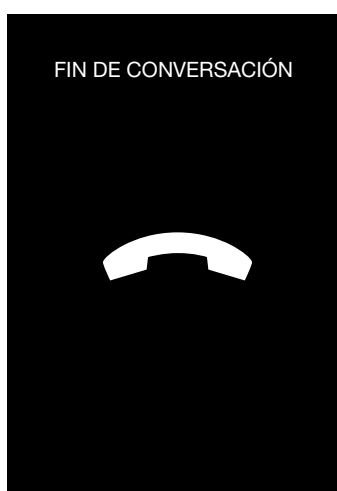
Screen during conversation



Actions:

ACTION	DESCRIPTION
Press numeric button	You will be taken back to the Apartment Call Screen
Press X button	The conversation ends and the End of Conversation Screen is displayed
Press the BELL button	No action
Press the UP ARROW	No action
Press the DOWN ARROW	No action
Press MAGNIFYING GLASS button	No action

End Of Conversation Screen



Call routing

The DUOX system uses 6-digit Apartment Terminal addresses. This provides considerable flexibility when numbering the Terminals in accordance with the conventions of each country. Call routing is organised as follows:

Panel configured as Block input.

BK indicates the block number. A block is a set of 9999 apartments at maximum. Apartments must be contained within the range 0001 to 9999. The block value ranges from BK=00 to BK=99, then a maximum of 100 blocks are available.

If less than 4 digits are entered, the Panel fills in the address with 0 to the left, i.e. if 3 digits are entered, i.e. 123, the Amplifier makes a call to Apartment 0123 and prefixes the block number that has been configured.

Panel configured as Sub-Block input.

SK indicates the sub-block number. A sub-block is a part of a block which may be worth sub-dividing for organisational purposes. Each sub-block can contain 99 Terminals and you can have up to 100 sub-blocks (SK=00...99). They allow a calling range of 01 to 99 within their sub-block.

If a call is made and 1 digit is entered, the first two digits on the left precede the block and sub-block number you have configured.

Outdoor Panel configured as General Entrance.

These Panels do not belong to any block and allow calls to be made to any existing block in the installation. The calling range is from xx0001 to xx9999, where xx can be any values from 00 to 99.

The Panel will make the call to the marked Apartment as long as it is within the range indicated above.

Number of call digits

It is possible to configure the Panel to make 4 or 6 digit calls if it is configured for General Entrance. 6 digits are equivalent to the normal operation of the system, whereas, if 4 digits are selected, the sub-block digits will be set directly to 0, requiring only 4 digits to be entered on the Keypad. As such, to call Apartment 010012 with 6 digits you would have to enter all numbers, while with 4 digits you would only have to enter 112. This configuration field can be changed from the Web Server.

By default the Panel is configured as block input 00 (Bk = 00).

Mapped call to an Apartment

The Amplifier can be configured in this mode via the *Web Server*.

It involves converting the unit number to make the Call Code assignment easier and more flexible.

This mapping can be done numerically or alphanumerically.

User mappings can be configured from the *Web Server*.

It is only possible to map addresses with decimal numbers.

Numerical Mapping

PANEL TYPE	MAXIMUM DIGITS
General Entrance	6
Block	6
Sub-block	6

Alphanumeric Mapping

PANEL TYPE	MAXIMUM DIGITS
General Entrance	6 + letter
Block	6 + letter
Sub-block	6 + letter

The behaviour of these Screens is exactly the same as that of the Direct Call to Apartment Screen, except for the following points:

- The digits marked correspond to a DUOX address mapping and not to the DUOX address itself.
- It will always be possible to enter up to 6 digits.

From the Carousel, the User can enter a digit.

At that moment, the Apartment Call Screen and the digit entered by the User will appear. Pressing the Bell button will cause the Amplifier to call the Apartment with that mapped code. If there is no mapping, the marked DUOX address will be called.

Calling by alphabetical blocks

The Amplifier can be configured in this mode via the Web Server.

This mode can only be activated if the Panel is configured as EG.

The screenshot shows a web interface for configuring dialing settings. The title is 'MARCACIÓN'. There are several settings with toggle switches: 'Llamada Restringida', 'Llamada Mapeada', 'Llamada alfanumérica', 'Tono Continuo', and 'Terminar al abrir la puerta'. The 'Bloques alfabéticos' option is selected with a blue dot. Next to it is a dropdown menu labeled 'Longitud código de llamada' with the value '6' selected.

In this mode of operation, the Panel will operate in a special mapping mode where the block number is represented by a letter:

LETTERS	BLOCK	LETTERS	BLOCK
A	00	N	13
B	01	O	14
C	02	P	15
D	03	Q	16
E	04	R	17
F	05	S	18
G	06	T	19
H	07	U	20
I	08	V	21
J	09	W	22
K	10	X	23
L	11	Y	24
M	12	Z	25

If the Call Code length option is 4, the User will only be able to enter 2 digits, the middle two digits being 00.

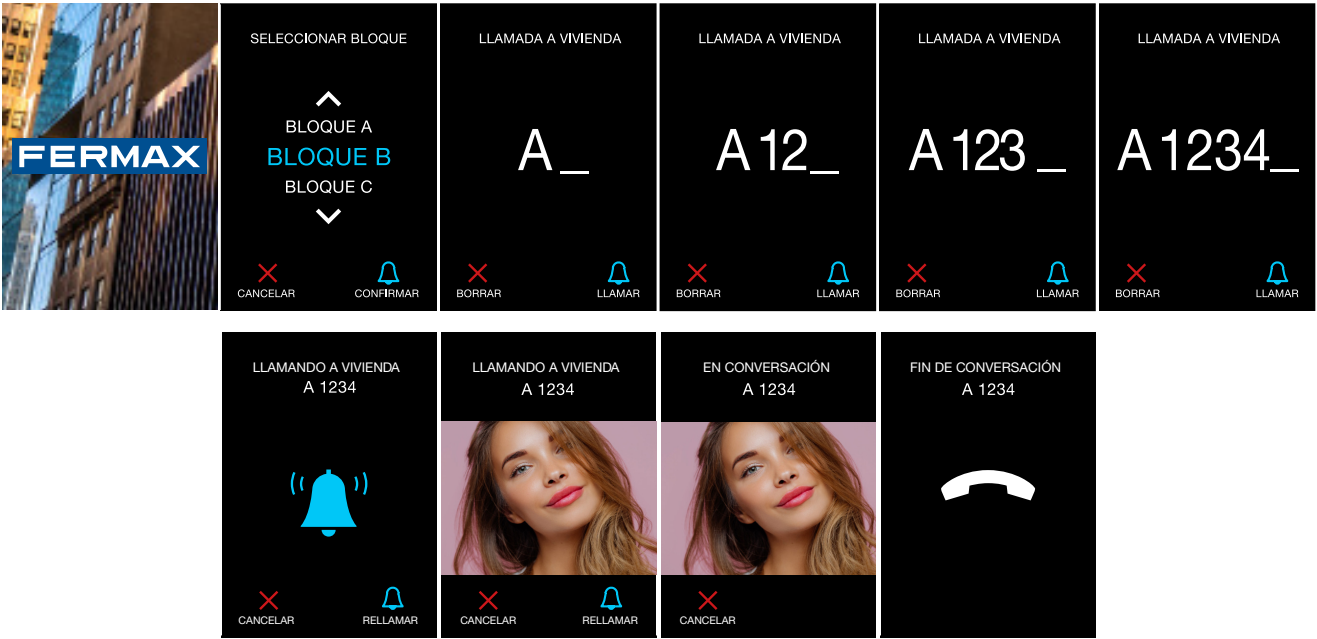
Block call flow

When any numeric button is pressed, the Select Block Screen will appear, where the User can select one of them between A and Z using the Arrows.

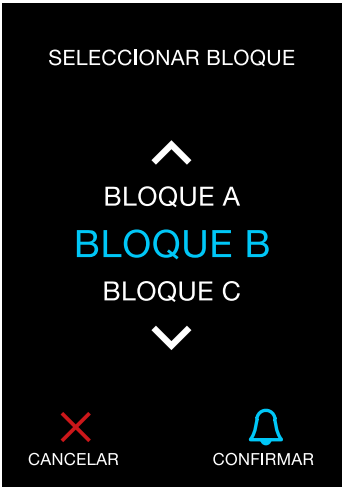
When the Bell is pressed, the Apartment Call Screen will appear with the selected block.

At this point it is possible to enter the next 4 digits (2 if a Call Code Length of 4 is selected) of the address to be called.

Once the Bell button is pressed, the call process will start.



Select block screen



ACTION	RESPONSE
Press numeric button	No action
Press X button	Back to previous Screen
Press the BELL button	Select block and go to the next Screen
Press the UP ARROW	Change block selection
Press the DOWN ARROW	Change block selection
Press MAGNIFYING GLASS button	No action

Call Apartment Screen in block call mode.



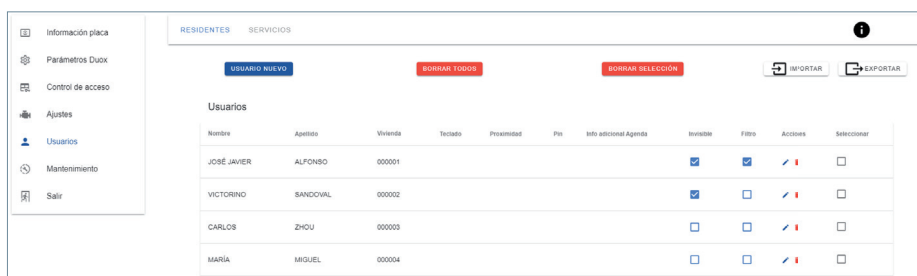
ACTION	RESPONSE
Press numeric button	The following digit of the address of the previous Terminal to be called is added
Press X button	The last digit is deleted If there is only one digit, the display returns to the previous Screen
Press the BELL button	Call is made to entered address
Press the UP ARROW	No action
Press the DOWN ARROW	No action
Press MAGNIFYING GLASS button	No action

5.3.2. CALL FROM PHONEBOOK

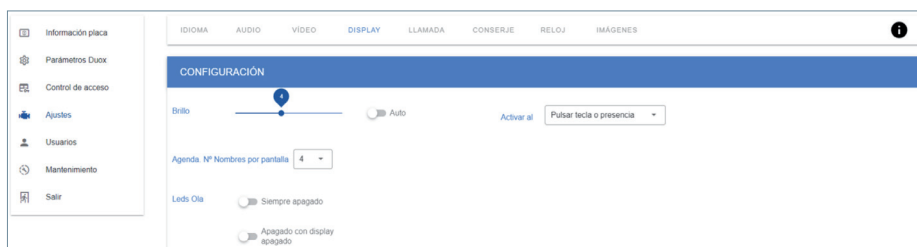
If there are Users in the product address book, a new option will appear on the Carousel Information Screen:



If this option is visible, it will be possible to access the Amplifier's Phonebook Screen by pressing the Magnifying Glass button. The Phonebook can also be accessed by pressing either of the two Arrows. It is possible to load Users in the Phonebook from the *Web Server* in the *Users/Residents* section:



It is also possible to configure the number of Users displayed (4 or 1) per Screen in the *Settings/Display* section:

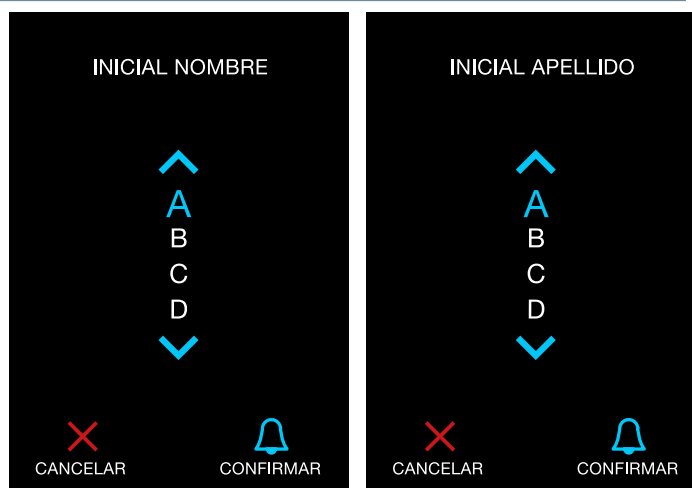


User selection Screen in Phonebook



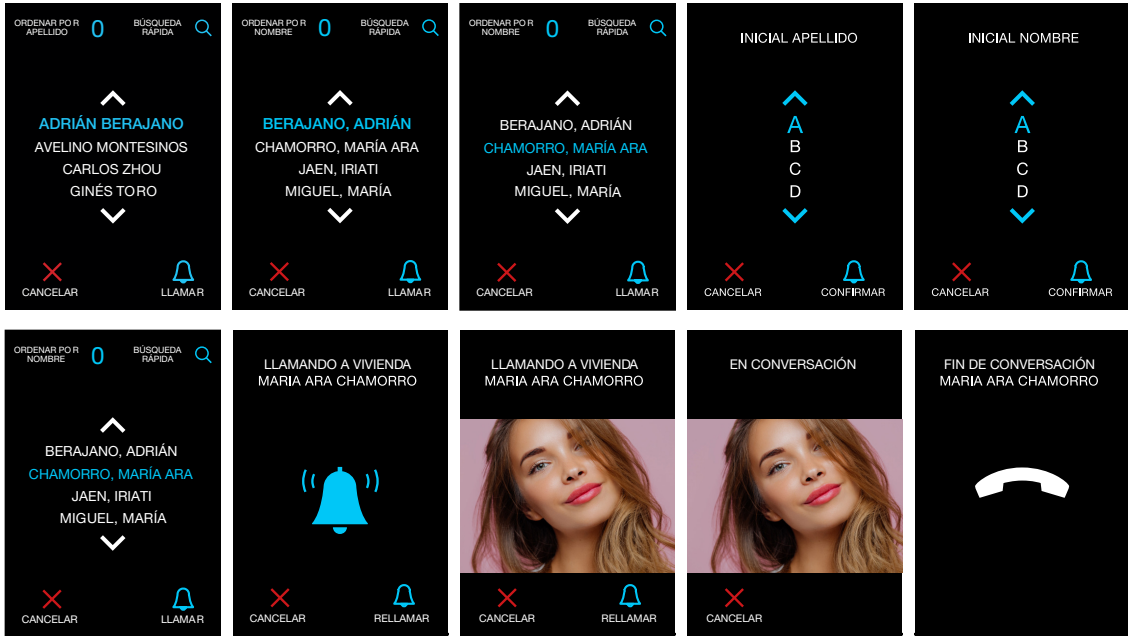
ACTION	RESPONSE
Press numeric button (except 0)	No action
Press X button	Return to previous Screen
Press the BELL button	Current User is selected
Press UP ARROW	Previous User is selected
Press the DOWN ARROW	The following User is selected
Press MAGNIFYING GLASS button	Switches to the Quick Search by Initial Screen
Press numeric button 0	Change order of Users (order by surname/order by name)

Quick search Screen in Phonebook by initial:



ACTION	RESPONSE
Press numeric button	No action
Press X button	Back to previous Screen
Press the BELL button	You will return to the previous Screen, but selecting the first User beginning with the selected letter
Press UP ARROW	The previous letter is selected
Press the DOWN ARROW	The following letter is selected
Press MAGNIFYING GLASS button	No action

Call flow from Phonebook



Restricted calls and filtered and invisible Users

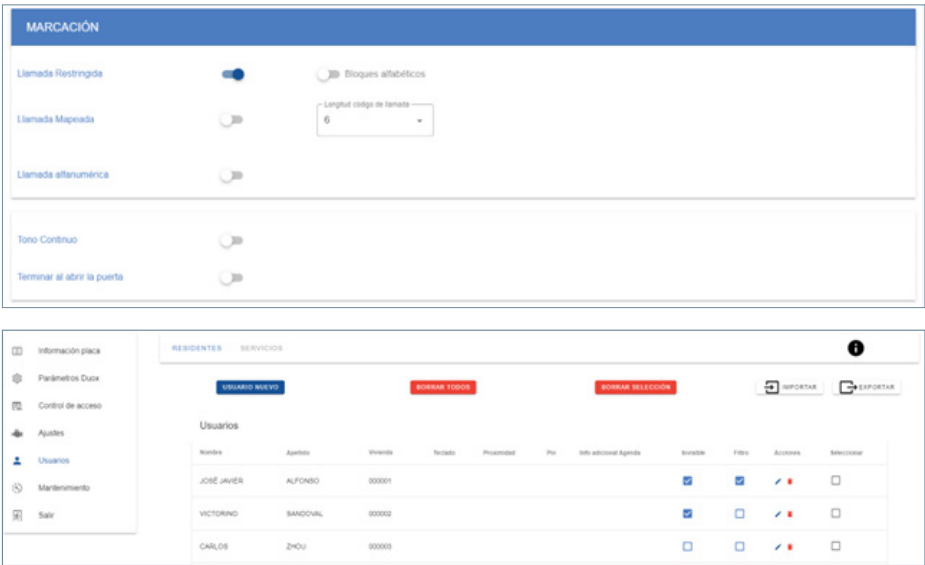
This call mode is activated by means of a Web Server option, and allows calls from the Panel to be restricted to certain Apartments.

In general, you can call any Apartment within the allowed range (general/block/sub-block) even if it is not on the User List. If the destination address does not exist or does not respond, the Panel will display an error screen ("Non-existent Apartment").

Conversely, if the restricted call mode is activated, it will not be possible to call Apartments that are present in the Phonebook and, in addition, are marked as 'filtered' in their user details. The restriction affects both direct and Phonebook calls.

In a direct call, the system first checks if the requested Apartment exists in the Phonebook. If it exists and is marked as filtered, the error message ("Apartment does not exist") is displayed.

When making a Phonebook call you can call any Apartment that is in the list; filtered Apartments are not shown in the directory in any event.



Below is a table showing the behaviour of the Panel when making calls, depending on the parameters:

- Restricted call, general Panel parameter activate/deactivates this option.
- Invisible User, User-specific parameter that allows the User to be shown or not in the Phonebook.

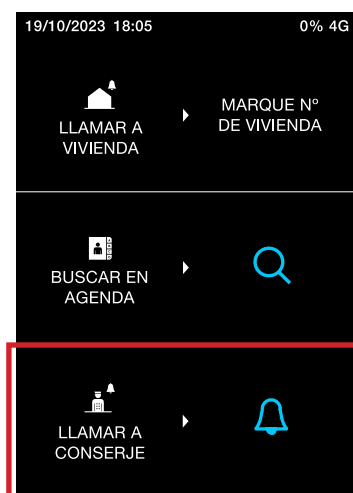
- User filtered, parameter that activates call restriction to the User if call restriction is active.

CASE	FILTERED	INVISIBLE	RESTRICTED	ACTION
1	NO	NO	YES	Normal call User appears in Phonebook
2	YES	NO	YES	Cannot call User User does not appear in Phonebook
3	NO	YES	YES	Normal call User does not appear in Phonebook
4	YES	YES	YES	Cannot call User User does not appear in Phonebook
5	NO	NO	NO	Normal call User appears in Phonebook
6	YES	NO	NO	Normal call User appears in Phonebook
7	NO	YES	NO	Normal call User does not appear in Phonebook
8	YES	YES	NO	Normal call User does not appear in Phonebook

5.3.3 CALLS TO THE GUARD UNIT

Guard Unit Present indicator

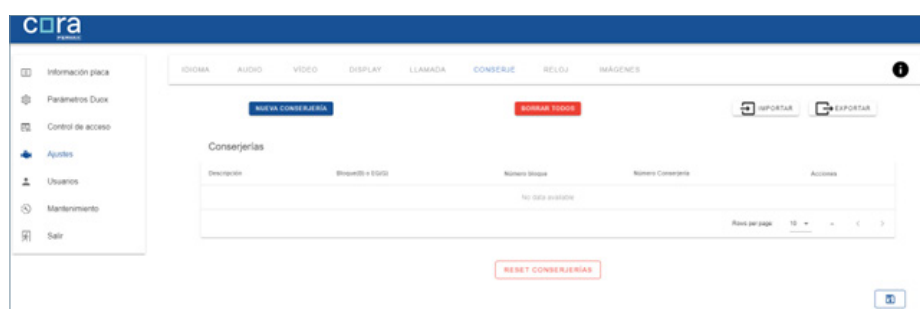
In the event that there are one or more Guard Unit(s) in the installation, a new indicator will appear on the Carousel Screens, informing that one or more of these devices are present:



Configuration of Guard Unit names from Web Server

From the Settings/Concierge section, it is possible to associate names with the existing Guard Units in the installation.

Below are several images showing how to name a General Entrance Guard Unit and a block Guard Unit:



Conserjerías				
Descripción	Bloque(s) e EG(s)	Número bloque	Número Conserjería	Acciones
CONSERJERÍA EG 1	G		1	 
				Rows per page: 10 1 of 1 < >
RESET CONSERJERÍAS				

Conserjerías				
Descripción	Bloque(s) e EG(s)	Número bloque	Número Conserjería	Acciones
CONSERJERÍA EB01	B	00	1	 
CONSERJERÍA EG0	G		0	 
				Rows per page: 10 1 of 2 < >
RESET CONSERJERÍAS				

Call with one or more Guard Unit(s) present

If there is only one Guard Unit present in the installation, pressing the Bell button from the initial Carousel will directly call the Guard Unit:

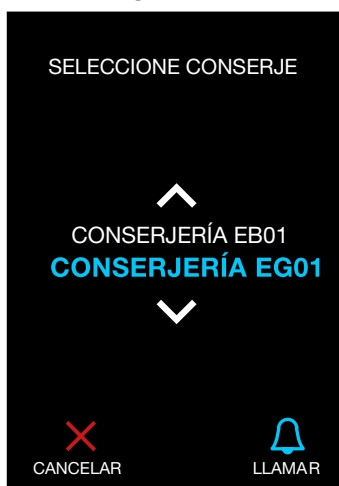


If there is only one Guard Unit present in the installation, pressing the Bell button from the initial Carousel will directly call the Guard Unit:



Select Concierge Screen

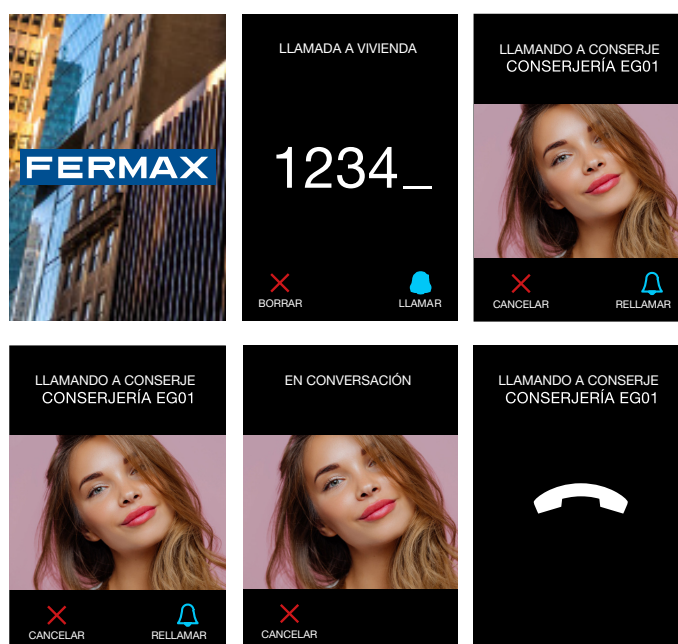
If there is only one Guard Unit in the installation, the call will be made directly by pressing the button. If there are several Guard Units, the following Screen will be displayed.



ACTION	RESPONSE
Press numeric button	No action
Press X button	Back to previous Screen
Press the BELL button	Call the selected Guard Unit
Press UP ARROW	Change selection of the Guard Unit
Press the DOWN ARROW	Change selection of the Guard Unit
Press MAGNIFYING GLASS button	No action

Call Divert to Concierge

In the case where the installed Guard Units are in *Mix Mode*, when a call is made to an Apartment and there is no answer within 15s, the call will be intercepted by the Guard Unit, with the following flow of Screens:



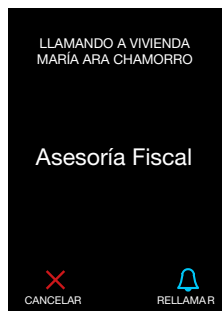
5.3.4 CALLS AND DOOR RELEASE FOR USERS REGISTERED IN PHONEBOOK

In the event that a Phonebook has been loaded on the Panel, the Call, Talk and Door Lock Screens can be modified.

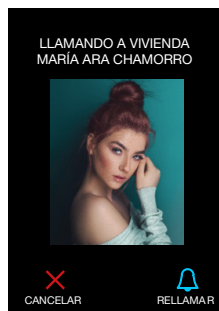
The parameters that influence the appearance of the following Screens are:

USER PARAMETER	DESCRIPTION
Additional Phonebook Information	If the Phonebook is configured to display a User and this option is activated, extra text will be displayed when you access the Phonebook
Additional Info Call + Text	If this option is activated, extra text will appear when calling this User
Additional Info Call + Image	If this option is activated, an extra image will appear when making a call to this User
Additional Door Lock + Text information	If this option is activated, extra text will appear when an opening takes place
Additional Info Door Lock + Image	If this option is activated, an extra image will be displayed when an opening is performed

Below are several examples with the activation of the User configuration parameters shown in the table above:



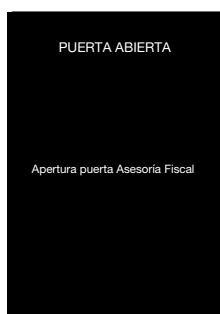
In-call text selection



In-call image selection



Additional information in Phonebook



Text selection during opening

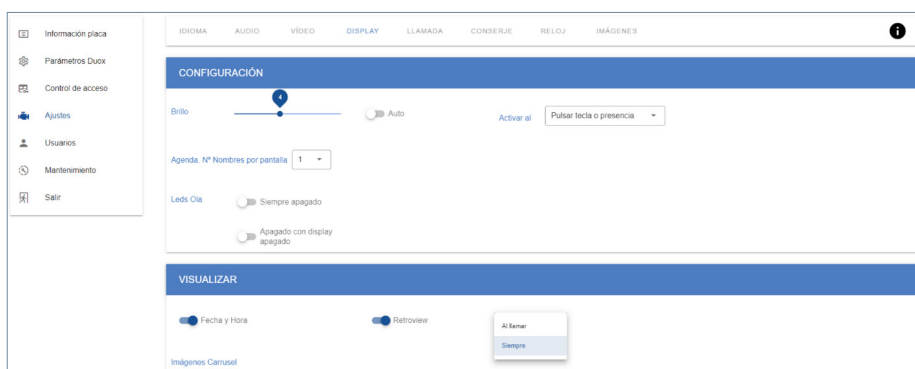


Image selection during opening

5.3.5 RETROVIEW

Retroview allows the visitor to view the video captured by the camera during calls and conversations, increasing the level of interaction and helping them focus on the image.

It is possible to activate the Amplifier *retroview* during calls and conversations via the Web Server and *Settings/Display*.



If the *Retroview* setting is deactivated, the video will never be displayed on the Panel during the call and conversation.

If the *Retroview* is activated with the When Calling option specified, the video will only be displayed on the Panel during calls, not during conversations.

If *Retroview* is activated with the Always option specified, the video will be shown during calls and conversations.

6 ANNEX I: MY CONNECT PORTAL

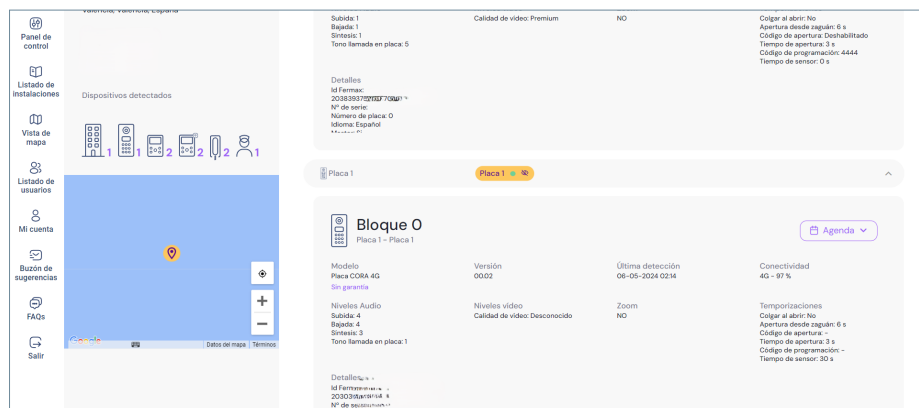
UPDATE USERS FROM THE MYCONNECT PORTAL. (ONLY AVAILABLE WITH CORA CONNECT PANELS).

The CORA Panel allows the User Phonebook to be updated from the MyConnect portal as long as the CORA Connect Panel is available.

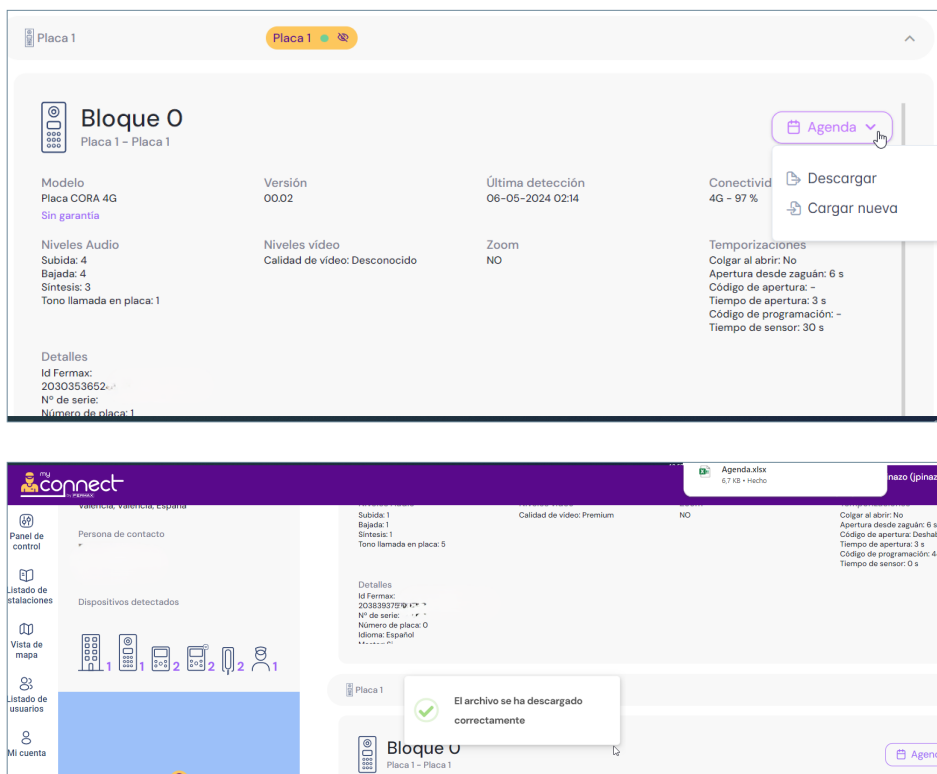
This Phonebook will be updated by uploading an .XLS file.

To update the Phonebook follow the steps below:

1. Inside the MyConnect portal, locate the installation and select the Cora Panel.



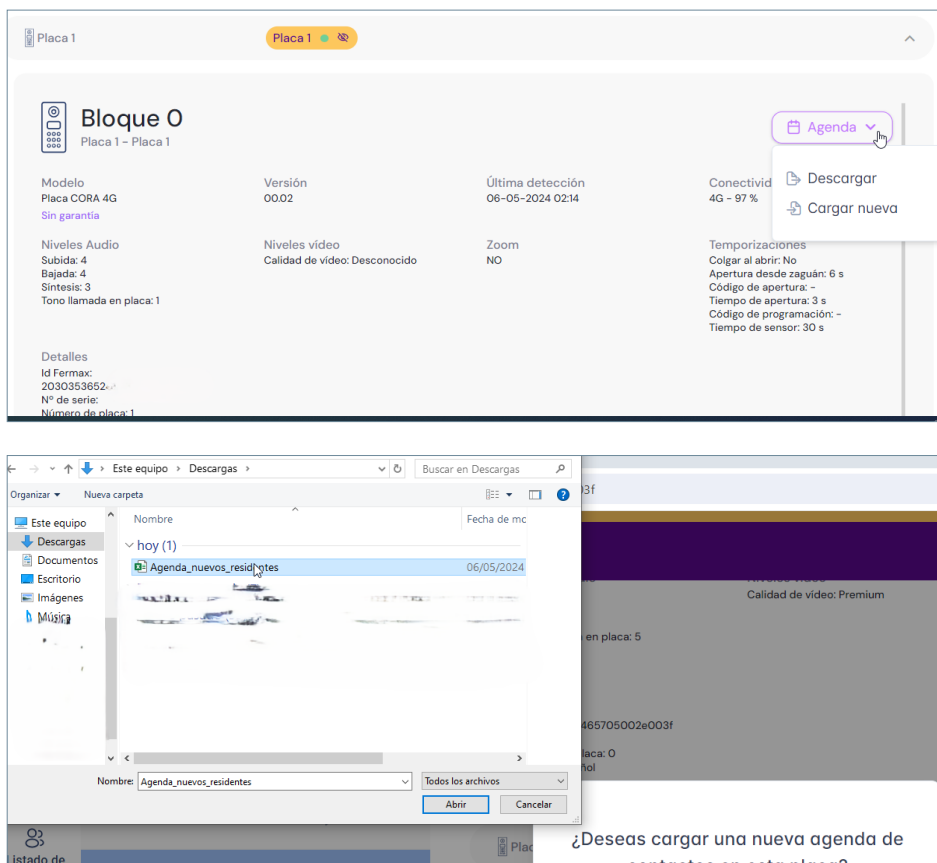
2. Select the PHONEBOOK icon on the right hand side of the Panel features and select DOWNLOAD.



3. Once downloaded, open the file and fill in or modify the necessary fields.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1		Nombre	Apellido	Trabajo	Residencia	Unidad	Código de tarjeta de proximidad	Código PIN	Información de la aplicación	Imagen de Texto de llamada	Información de programación de Texto de apertura								
2	APARTAMENTO1	NOMBRE1	APELLIDOS1	N	N	1	900001	900001	9001	N	0	5	1	0					
3	APARTAMENTO2	NOMBRE2	APELLIDOS2	N	N	1	900002	900002	9002	N	1	5	1						
4	APARTAMENTO3	NOMBRE3	APELLIDOS3	N	N	1	900003	900003	9003	N	2	5	2						
5	APARTAMENTO4	NOMBRE4	APELLIDOS4	N	N	1	900004	900004	9004	N	3	5	3						
6																			
7																			
8																			

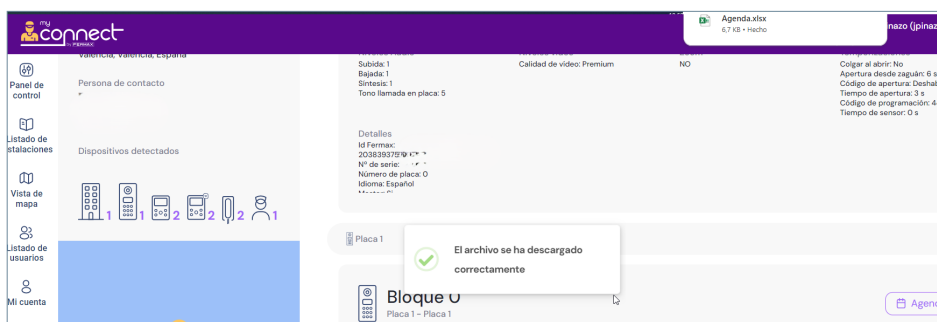
4.- Once filled in, load the file on the Panel as follows: Select the right Phonebook button, select UPLOAD NEW, and select the file.



5. When a new Phonebook is loaded, the existing information on the Panel is overwritten. This action cannot be reversed, so it is advisable to have a backup of the current Phonebook.



6.- The “file successfully uploaded” message will appear.



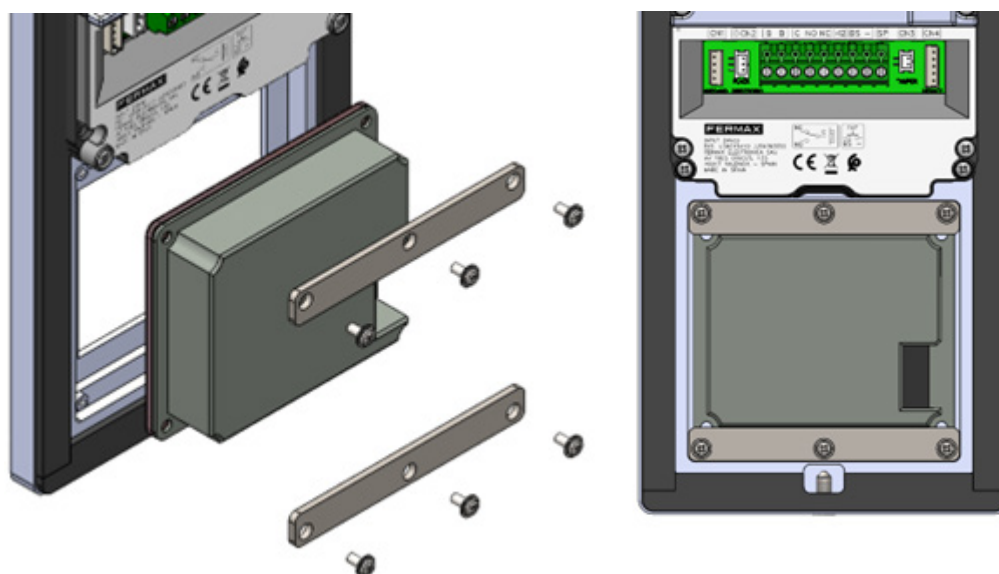


7 ANNEX II: EXTENDED CORA

The Cora DUOX PLUS Extended Panel, size S8 and height 390.5 mm, includes a window to accommodate third party access control readers or locks. The Panel is supplied with the window covered by a black visor.

The Cora DUOX PLUS Extended Panel consists of the same 3 electronic circuits and all the peripherals of the Cora BUOX PLUS S6 Panel, and can also be connected to an external DUOX PLUS Panel Expander module to provide it with two new functions: the DDA inductive loop and the connection to the VIGIK system through the L/E Interface.

To mount the VIGIK HANDS-FREE module, remove the black indicator, insert the VIGIK HANDS-FREE module and fix it using the same mounting brackets as the black indicator.



Power supply

For the Cora DUOX PLUS Extended Panel, the power supply is the same as for the DUOX PLUS S6 Panel:

- **Nominal:** 24Vdc NON-POLARIZED (polarisation is not taken into account during installation). Can be powered directly from the DUOX Bus

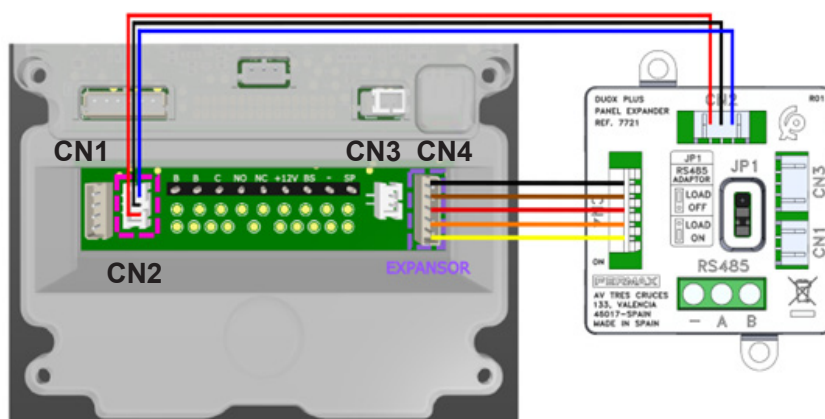
It should be noted that in the specific case of connecting two or more Panel Directory Panels to the Cora DUOX PLUS Board, or installing the DDA inductive loop by means of the DUOX PLUS Board Expander, an external 12Vdc power supply must be used.

7.1 EXPANDER MODULE [EXTENDED CORA]

7.1.1 DUOX PLUS PANEL EXPANDER

The DUOX PLUS Panel Expander module is fixed to the inside of the flush box by a strip of double-sided tape on the base, with the module remaining inside the flush box. It is not possible to mount it in the surface box because it is not deep enough to accommodate it.

The DDA induction loop is attached to the back cover of the Cora Panel by clamps that are glued to the back of the Panel.



Connection Terminals

The cover of the Panel Expander has openings on both the top and the sides to allow access to all connectors and Terminals.

CN1: DDA inductive loop connection (910502-INDUCTIVE LOOP O2O 229)

1. ANTENA_POS: Positive output of the induction loop.
2. ANTENNA_NEG: Negative output of the induction loop.

CN2 and CN3: Cora Panel / Directory Panel connection (930690-CABLE 210MM 3V 3V P2):

1. Not used.
2. IN_DIRECTORY: Enable signal from the Directory Panel and the DDA inductive loop.
3. 12VDC: Power supply input/output.

CN4: Expander Connection (92618B-CABLE 14303CB01B (ADAPT.TEL. DETECTS 6):

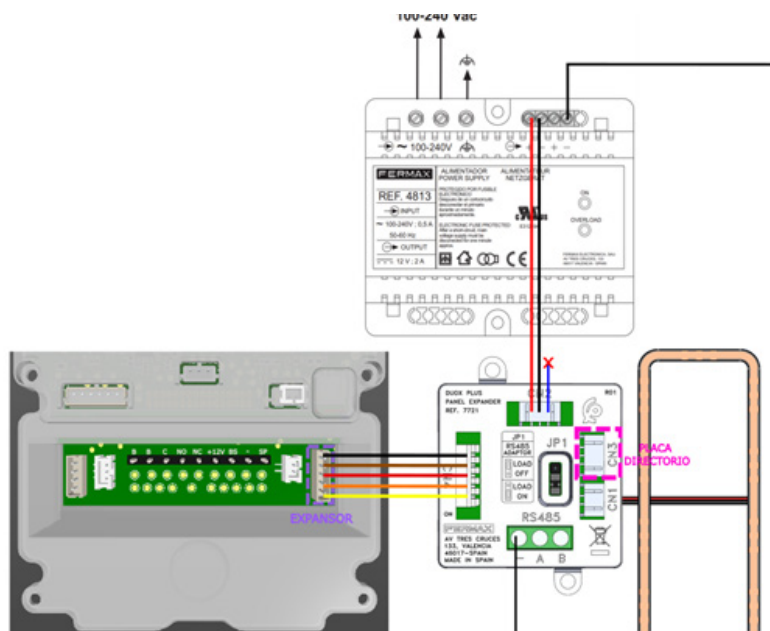
1. +12V_TERMINAL: Power supply input. It is only enabled when the Door Lock commander is activated.
2. DATA_RX: RS485 reception.
3. DATA_TX: RS485 transmission.
4. GND: Current return.
5. AUDIO: Signal that will reproduce the DDA inductive loop.

JP1: Adapter RS485:

1. Load OFF: 120 Ohm RS485 termination disabled.
2. Load ON: 120 Ohm RS485 termination enabled.

Terminal No.	Symbol	Description
1	-	Expander Negative Panel
2.3	A, B	RS485 communication differential signals

In the specific case of connecting two or more Panel Directory Panels to the Cora DUOX PLUS Board, or installing the DDA inductive loop by means of the DUOX PLUS Board Expander, an external 12Vdc power supply must be used. In this case, it will also be necessary to join the mass of this source with the mass of the Expander. With this solution, the Directory Panels will always remain switched on.



Consumption of the expander module with DDA connected.

Liquidation status	Maximum consumption at 24V
Start-up	180mA
Standby	19mA
Screen on	180mA
Individual	508mA
Conservation	760mA

7.2 DESCRIPTION OF GUI AND WEB SERVER FUNCTIONALITY IN HEXACT MODE

This section will describe the differences between a CORA S6 Panel and a CORA extended (S8) Panel at Web Server and GUI level.

7.2.1 DEACTIVATE INTERNAL CARD READER

The extended Panel also allows the internal reader to be enabled or disabled via the Access Control/RFID Reader/Disable Internal Reader section:



By default the reader will NOT be disabled.

It will be possible to disable it using this option.

In addition, if the internal reader is enabled, the card reader illumination led will be activated.

If disabled, it will be switched off.



The equipment you have purchased is identified according to Directive 2012/19/EU on Waste Electrical and Electronic Equipment.

For more information, visit www.fermax.com
Contact: tec@fermax.com / www.fermax.com/contact



FERMAX ELECTRÓNICA, S.A.U. hereby declares that the **CORA Panel** radio electronic equipment is in conformity with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

https://www.fermax.com/spain/documentacion/documentacion-tecnica?type=declarations_of_conformity

RADIO FREQUENCY MODULE: EC DECLARATION OF CONFORMITY

FERMAX ELECTRÓNICA, S.A.U. declares that this product complies with the requirements of the RED Directive 2014/53/EU on Radio Frequency Equipment.
https://www.fermax.com/spain/documentacion/documentacion-tecnica?type=declarations_of_conformity

Radio frequency module:

4G: Frequency: 1800MHz / Maximum power: 23dBm \pm 2.7dB

EM proximity reader RFID antenna

Frequency: 125KHz / Maximum power: -5.58 dBm

WiFi chip: Frequency: 2.4GHz / Maximum power: 16 \pm 1.5dBm

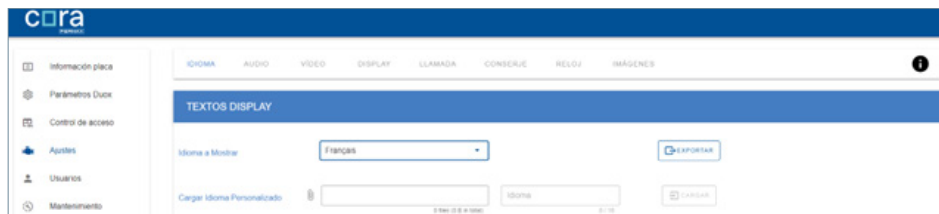
7.2.1 MODO HEXACT

Activación

Al activar este modo de funcionamiento, la placa puede comunicarse con un sistema VIGIK-HEXACT. Para ello, es necesario activar una nueva opción disponible en el webserver de la placa.

Esta configuración sólo funciona si el idioma seleccionado en la placa es francés.

Para ello, es necesario activar el idioma francés en Ajustes/Idioma/Textos y clicar el botón de guardar.



Una vez seleccionado este idioma, es posible activar el modo HEXACT en:

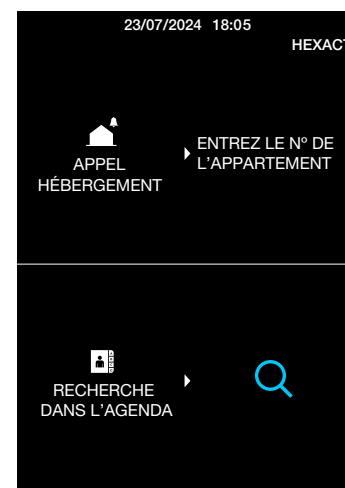
Ajustes/Display/Visualizar/HEXACT:



Una vez este modo es activado, la placa entra en modo HEXACT, derivando el control de la gestión de usuarios a una central francesa HEXACT.

La placa CORA activará la comunicación RS485 del conector CN4 y será posible recibir usuarios mediante esta vía.

Además, en la pantalla de carrusel de la GUI de la placa aparecerá el logo HEXACT:



En el caso de que exista en curso una transferencia de usuarios desde la central HEXACT a la placa, aparecerá un reloj de arena a la izquierda del logo HEXACT.

En el momento en el que finalice la transferencia, los usuarios se actualizarán en la agenda.

En el caso de transicionar desde modo NO HEXACT a modo HEXACT, todos los usuarios existentes serán eliminados.

Parámetros de usuarios y mapeados enviados por central HEXACT

Es necesario tener en cuenta que cuando este modo está activo y la central HEXACT toma el control de los usuarios, sólo será posible visualizar los siguientes parámetros de usuarios y mapeos:

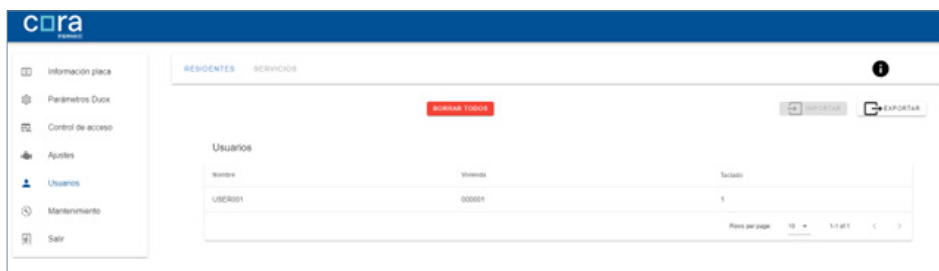
id	Parámetro	Description
1	Nombre de usuario	Nombre del usuario
2	Vivienda	Dirección DUOX de la vivienda
3	Teclado	Código de apertura por teclado
4	Mapeado	Mapeado de la vivienda

Parámetros de usuario en modo HEXACT

Usuarios

Al estar activo este modo, la pantalla Usuarios/Residentes también cambiará:

- No será posible eliminar o editar usuarios uno a uno
- Los campos que aparecen en la tabla serán diferentes, mostrando sólo aquellos que gestiona la central HEXACT
- NO será posible importar usuarios
- Seguirá siendo posible BORRAR todos los usuarios



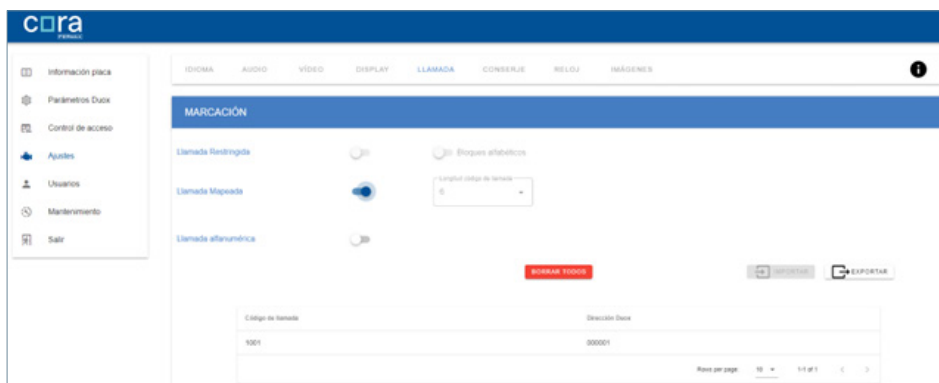
Nombre	Vivienda	Teclado
USER001	00001	1

Ejemplo tabla de usuarios en modo HEXACT

Mapeados

Al estar activo este modo, la pantalla Usuarios/Residentes también cambiará:

- No será posible eliminar o editar mapeados uno a uno
- NO será posible importar mapeados
- Seguirá siendo posible BORRAR todos los usuarios



Código de llamada	Dirección Base
1001	00001

Ejemplo tabla de usuarios en modo HEXACT

**FERMAX**

FERMAX ELECTRONICA S.A.U
Avenida Tres Cruces, 133
46017 Valencia, Spain