jcm tech
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HDOOREVO

User Manual

EN

Table of contents

Important safety instructions

This manual contains important instructions and warnings for personal safety. Carefully read all parts of this manual. If in doubt, suspend installation immediately and contact the manufacturer Technical Assistance.
Keep this manual in a safe place to enable future product maintenance and disposal procedures.

Important safety instructions for installation

Disconnect the power supply whenever you proceed to the installation, maintenance or repair of the equipment.

- Install any permanent control next to the door away from any moving part and at a minimum height of 1.5m.
- For permanently connected equipment, an easily accessible power disconnection device must be incorporated into the wiring. It is recommended that this be of the emergency switch type.
- This equipment can only be handled by a specialist fitter, by maintenance staff or by a suitably trained operator.
- Use protective goggles when handling the equipment.
- Fuses must only be handled when the appliance is disconnected from the mains.
- The instructions for using this equipment must remain in the possession of the user.
- Never apply modifications to any part of the device. Operations other than those specified may only cause malfunctions. The manufacturer declines all liability for damage caused by makeshift modifications to the product.
- Never place the device near to sources of heat and never expose to naked flames. These actions may damage the product and cause malfunctions.
- Handle the product with care, being sure not to crush, knock or drop it in order to avoid damage.

Important safety instructions for use

- This product is not intended for use by people (including children) with reduced physical, sensory or mental capabilities or who lack experience and knowledge, unless they have been given supervision or instruction concerning the use of the product by a person responsible for their safety.

PRODUCT DISPOSAL This product may not be disposed of together with domestic waste. Sort the materials for disposal, according to the methods envisaged by current legislation in your area, or return the product to the retailer when purchasing an equivalent product.

Use of the equipment / Use of the system

Designed for automation of garage doors, in accordance with the general description. Not guaranteed for other uses.
The manufacturer reserves the right to alter equipment specifications without prior notification. No liability can be accepted for errors and misprints.

Introduction

General description

HDOOREVO is a Motion and Bluetooth receiver connected with **information on the state of the door and with remote activation in real time**.

Save on commutes and secure your installation.

Since the **HONOA**DOOR solution devices are connected to the Internet, you can manage them anywhere and instantly, through **cloud**Assistant by JCM, providing a fast response thanks to online management and task automation.

You can open the door with the MOTION control, MOTION proximity tag, the HONOA APP and/or WIEGAND devices.

Along with **cloud**Assistant, you can use HDOOREVO to instantly check the door's operation from your office, avoiding unnecessary trips to check that installations are working properly and to detect and manage suspicious fobs.

The device can work without an Internet connection, but it does require a connection for certain functions.

An Internet connection is required for:

- Setting up the device in **cloud**Assistant:
  - Setting and assigning time slots with the annual holiday calendar
- Checking the entry status in **cloud**Assistant
- Reading events in **cloud**Assistant
- Remote activation of the device with the HONOA APP
- Registering and cancelling fobs
- Alerts and notifications

No Internet connection is required for:

- Setting up the device in **cloud**Assistant:
  - Name of the device that appears on the HONOA APP
  - Name of the relay that appears on the HONOA APP
  - Activating entrances and their settings
- Granting and revoking access permission on **cloud**Assistant for HONOA users
- Deactivating remote opening in HONOA through **cloud**Assistant
- Deactivating Bluetooth hands-free activation in HONOA through **cloud**Assistant

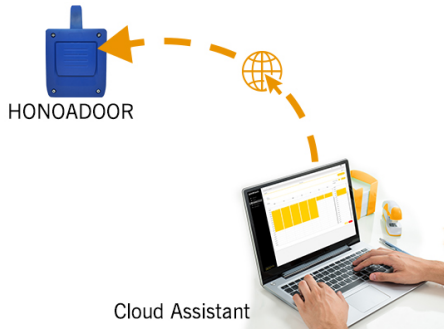
All changes to authorizations or settings in **cloud**Assistant shall be automatically updated in the HONOA APP.

For the HONOA APP to work properly on your phone, in addition to other requirements, you must authorize the use of phone data, access to your location, and to work in the background.

The application does not require an Internet connection to activate the door.

Settings are adjusted through the **cloud**Assistant (v4 or later) with a Internet connection.

Settings with **cloud**Assistant	Use with Honoa



Features

Power supply: The equipment is powered with a 110Vac to 230Vac voltage. 500mA protective fuse.

Relay Output: The equipment has 2 adjustable open or closed contact relay outputs. These outputs can be programmed to be activated with different fob channels through **cloud**Assistant. Moreover, these relays can be remotely activated in real time with the **cloud**Assistant.

Inputs: The equipment has 2 inputs to connect 2 limit switches to monitor the door's status (Open/Closed).

868MHz MOTION receiver module: The equipment has an 868MHz MOTION receiver module to receive from fobs.

Extension module for wired keyboards and readers: the device includes two "Wiegand" inputs (one can be used as BUS S / C4plus), a "Wiegand" output, and a "BUS-L" input, whose settings can be managed with **cloud**Assistant. Consumption of devices connected to these inputs cannot exceed 250mA.

Bluetooth receiver module: The equipment has a Bluetooth receiver module to open the door in hands-free mode with a phone with the HONOA APP. **Hands-free activation** (BETA function) may be disabled for the entire device in **cloud**Assistant.

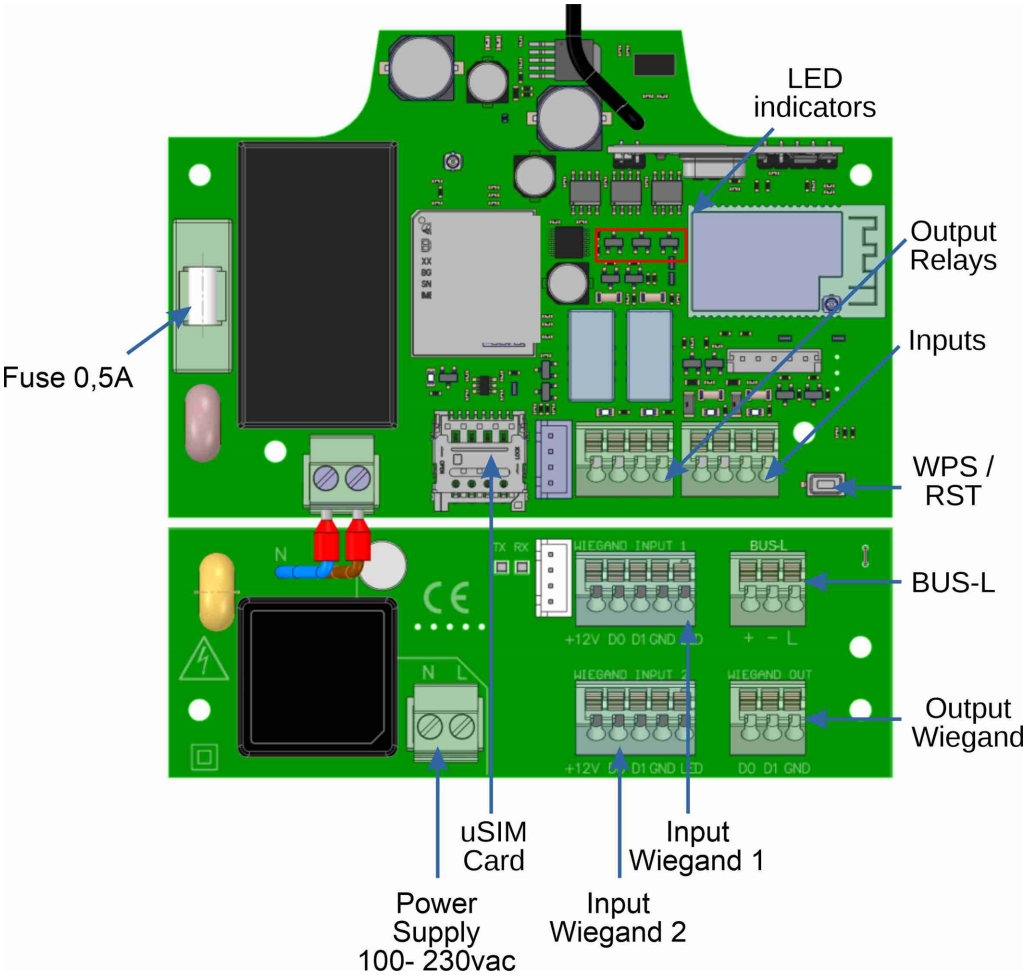
Communication Module: The equipment has a GSM / Cat M1 / NB-IoT communication module for connection to the Internet and for remote opening with a phone with the HONOA APP. **Remote opening** may be disabled for the entire device in **cloud**Assistant.

Users: Up to 5000 users managed with **cloud**Assistant.

Events: Up to 2000 events may be viewed through **cloud**Assistant. Service available expansion to 5000 events.

Statistics and information on use: You may use **cloud**Assistant to view a daily graph of the number of relay activations, accepted and rejected users, open-door and closed-door events, data consumption, and more.

Light-up signals: The equipment has three LED indicators: "ST", "NW", and "IN" to indicate the **cloud**Assistant connection status.


LED
indicators
Output
Relays
Inputs
Fuse 0,5A
WPS /
RST
BUS-L
Output
Wiegand
uSIM
Card
Input
Wiegand 1
Power
Supply
100- 230vac
Input
Wiegand 2

Installation

Attach the back of the box to the wall with the plugs and screws supplied.

Connect the equipment. Attach the front of the receiver to the back part with the screws supplied for this purpose.

Connection

POWER INPUT: Power supply at 230Vac.

R1:RELAY Channel 1. Potential-free contact.

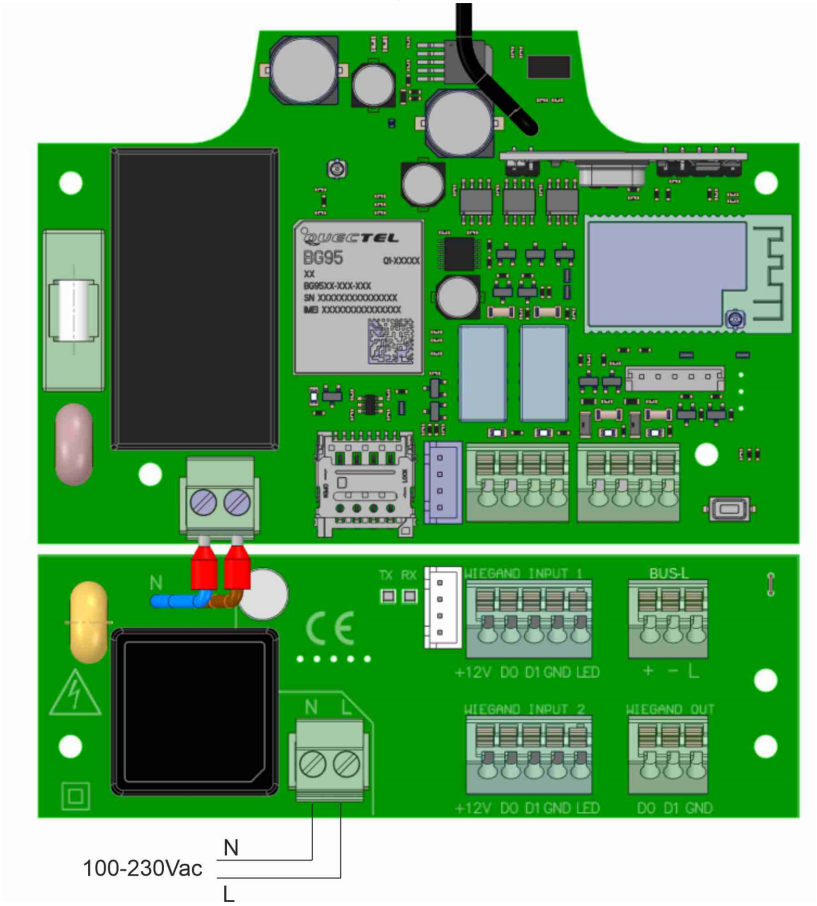
R2: RELAY Channel 2. Potential-free contact

- Characteristics of output relays (for resistive load):
- Maximum current: 2A.
- Maximum power: 60W / 62.5VA.
- Maximum voltage: 24V ac/dc.

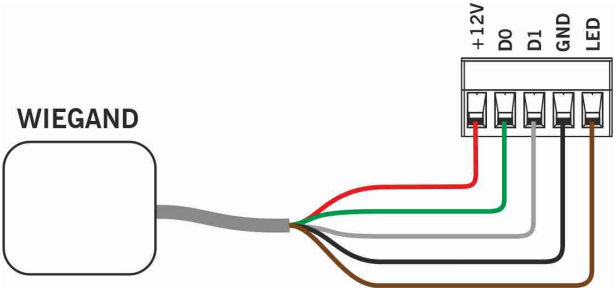
IN1: Monitoring input for NC contact.

IN2: Monitoring input for NC contact.

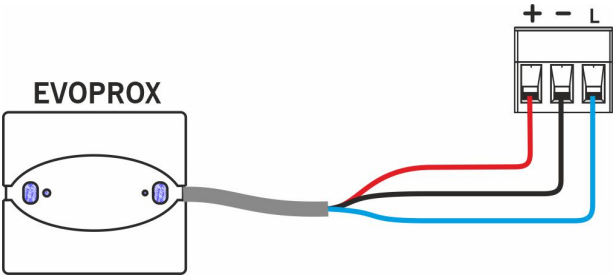
WIEGAND OUT: WIEGAND output for connection to auxiliary devices.



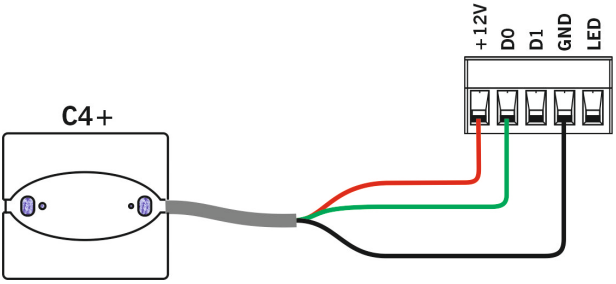
WIEGAND INPUT X: See WEIGAND device manual to view the connection.



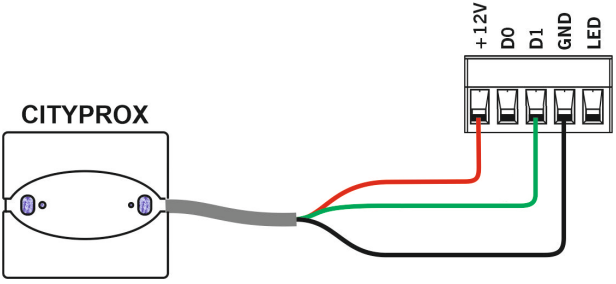
BUS-L: See EVOPROX device manual to view the connection.



C4plus: See CITYPROX C4+ device manual to view the connection.



BUS S: See CITYPROX device manual to view the connection.



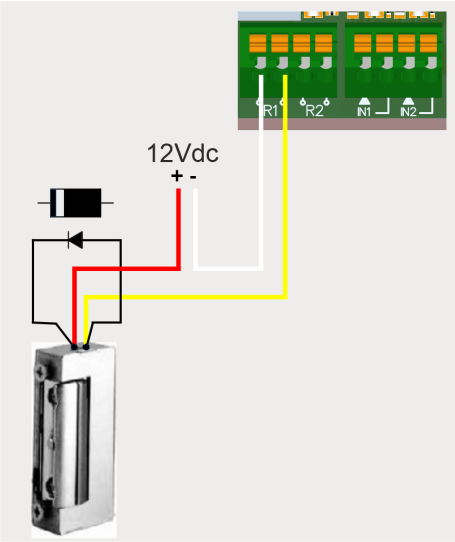
Electric lock or suction cups

The relays can switch up to 2A of resistive loads. The number of manoeuvres depends on the type and characteristics of the loads.

With resistive loads, they can reach 1000000 manoeuvres with 30W loads.

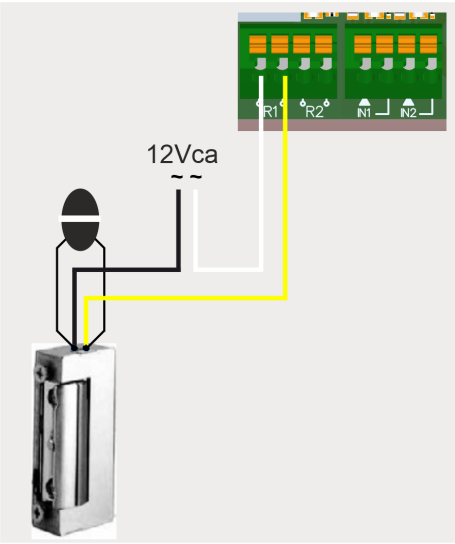
DC inductive loads: 30W / 30Vdc / 1A -> 500000 manoeuvres. One diode (1N4007) along with the electric lock or suction cups is necessary in parallel.

Example relay connection 1:



AC inductive loads: 30Va / 30Vac / 1A -> 750000 manoeuvres. A varistor (V68ZA2) with electric lock or suction cups is necessary in parallel.

Example relay connection 1:



If using suction cups, the relay type must be "Normally closed" (see: "Configuring relays and assigning traffic schedules").

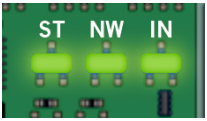
The diode or varistor must be connected as close as possible to the electric lock or suction cup.

Configuration

Connect to the Internet

The device must be connected to the Internet to change its settings, but it does not require a connection to function.

The device comes with a SIM card supplied: power on the device and wait about 5 minutes until it connects to the Internet (LEDs solid green).

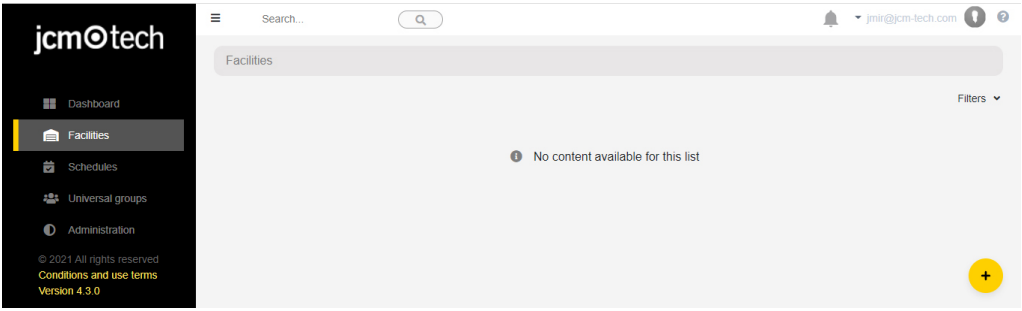


Configuration (cloudAssistant)

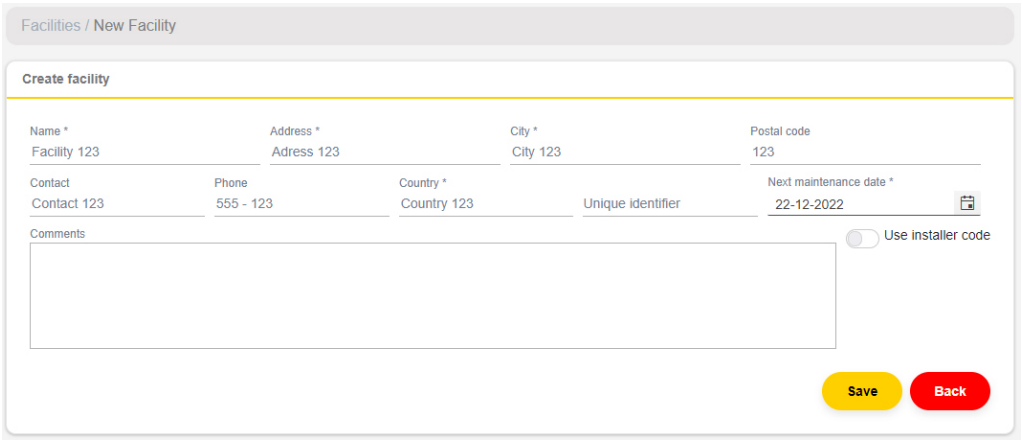
Registering the equipment

Once the equipment has an Internet connection, it can be configured:

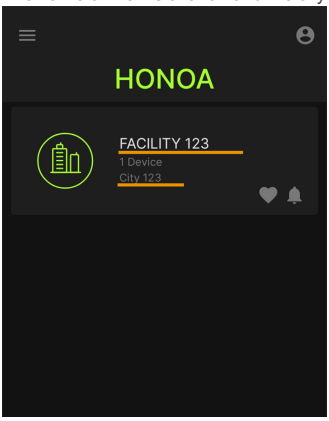
1. Enter **cloud**Assistant:https://cloudassistantv4.jcm-tech.com/login and login.
2. **Add facility** (orange button located in the lower right corner).



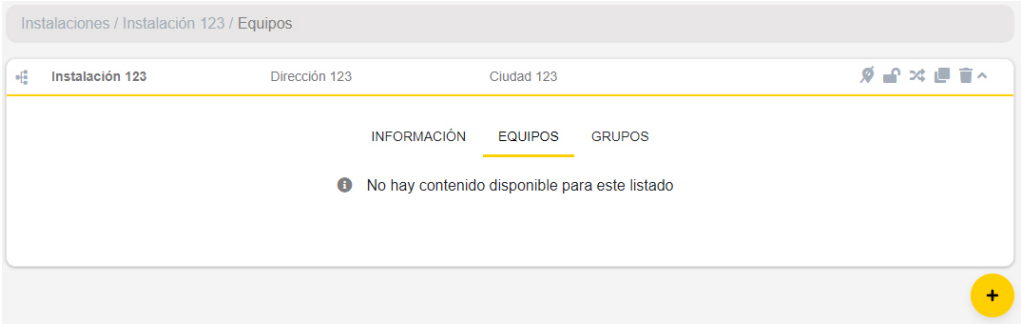
3. Fill the fields. **Save**.



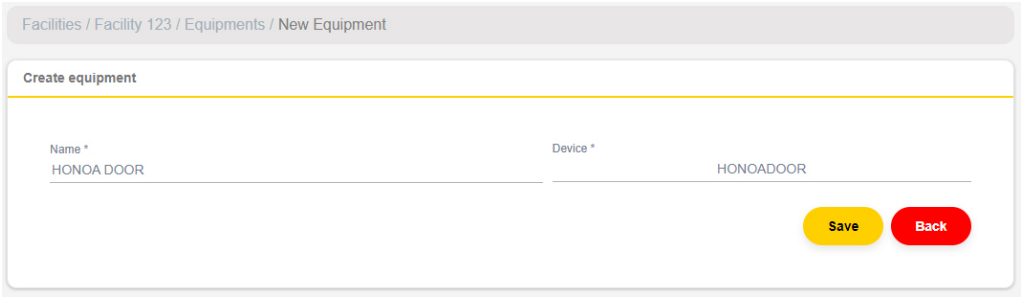
The name of the installation and the city will appear in the HONOA APP:



4. **Equipments** -> **Add equipment** (orange button located in the lower right corner).

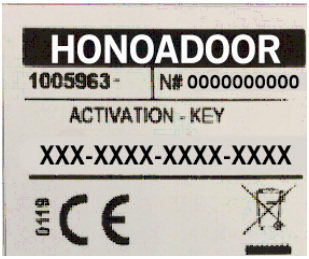


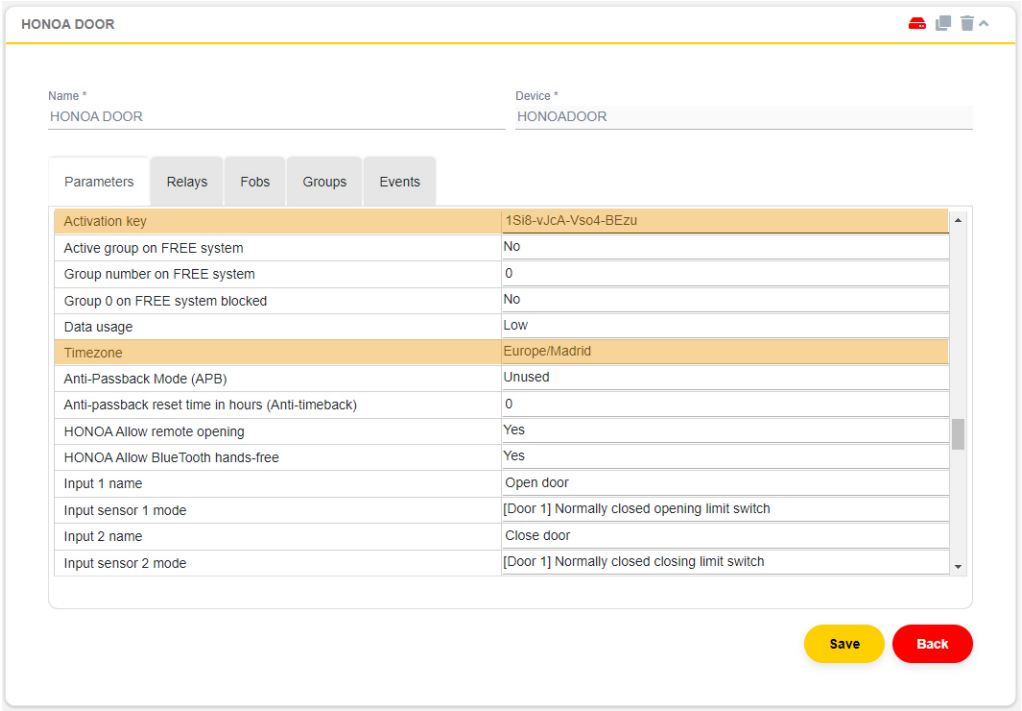
5. Enter a name for the device and select HONOADOOR. **Save**.



The name of the device will appear in the HONOA APP:

6. Enter the **Activation Key** (found in the device label). Select the pertinent **Timezone** and assign names and work modes to the entries. **Save**.
   The names assigned to the entries are the same ones that appear in "Remote state" (see: Operational Mode).





The Activation key and the Timezone are the only mandatory fields to register users.

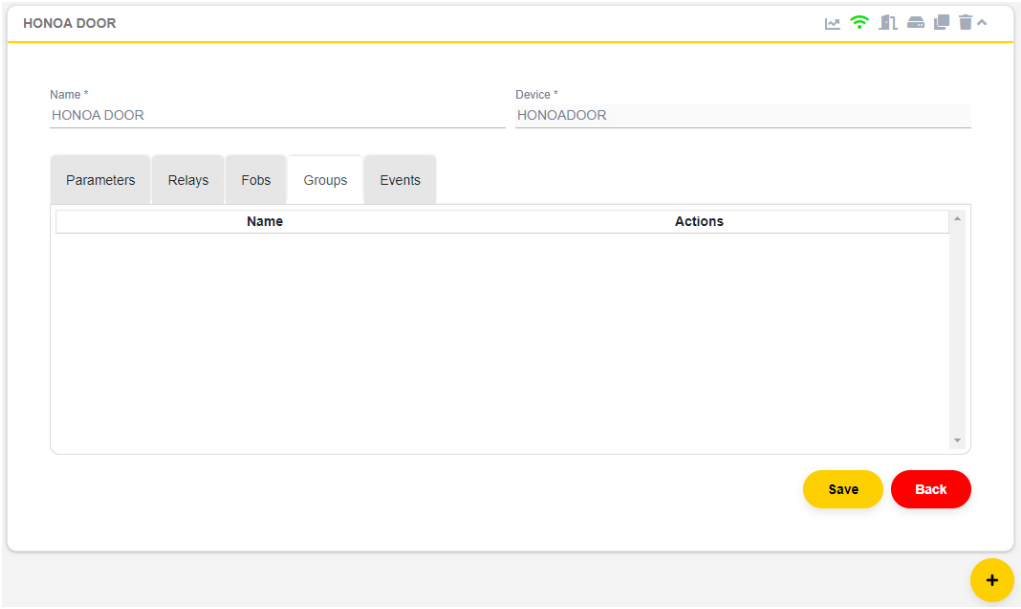
If working with Wiegand, see "Wiegand: Settings".

On this screen, you may enable **Allow remote opening** and **Allow BlueTooth hands-free** for HONOA users. By default, these are enabled.

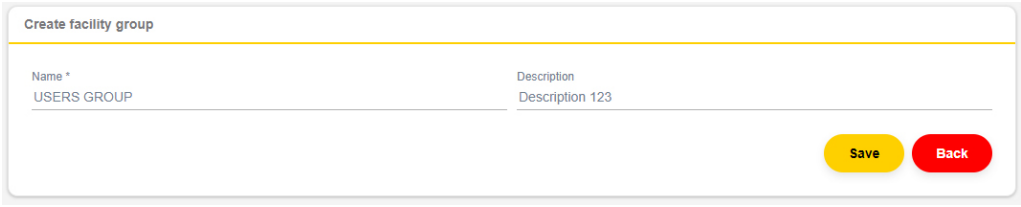
For remote opening, the device must be connected to the Internet.

Registering groups and users

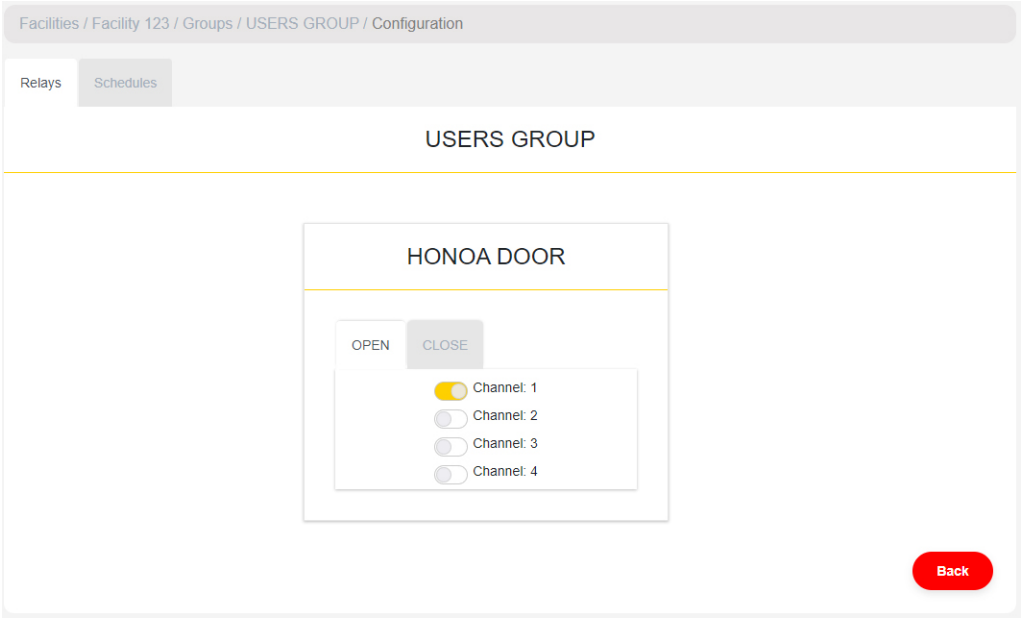
1. **Groups** -> **Add** (orange button located in the lower right corner).



2. Enter Name and Description. **Save**.

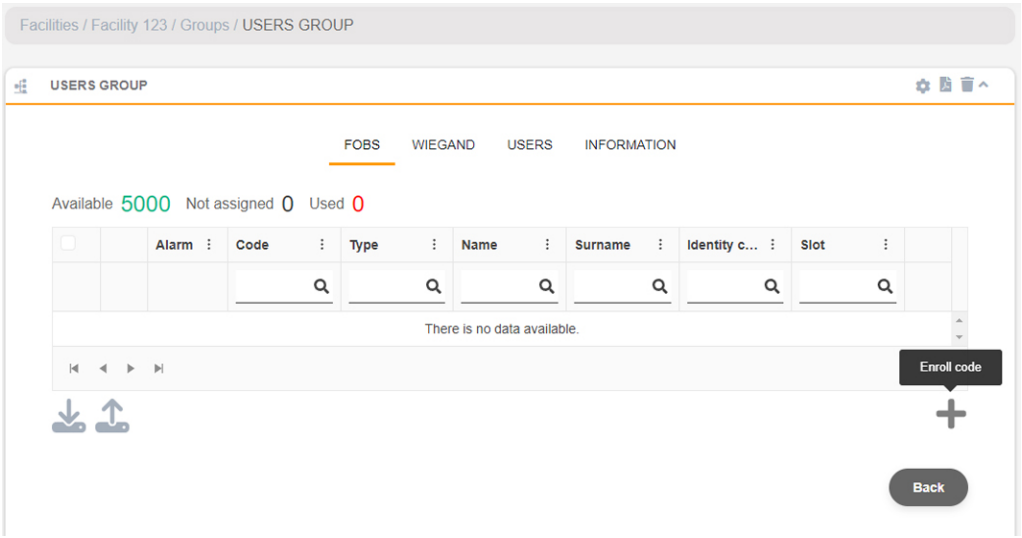


3. Activate the relays by selecting any of the channels. HONOA activates relays. **Back**.



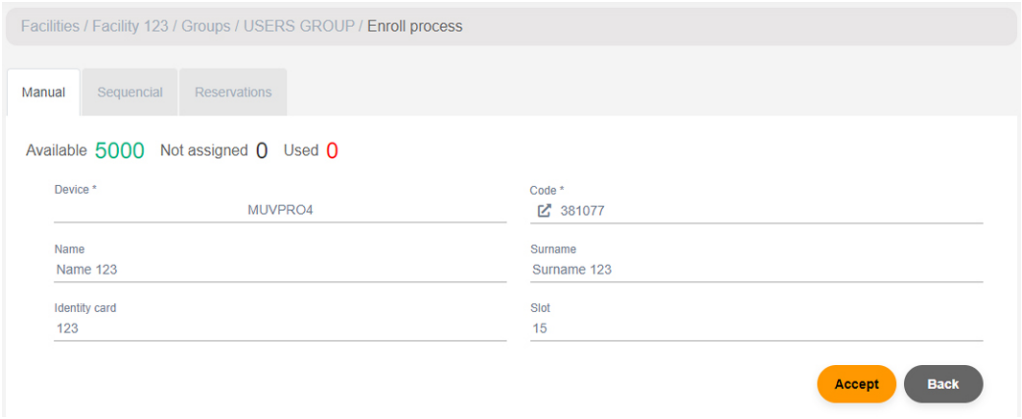
If this is a group of devices working with fobs, the selected channels match the function that the fob will have.

4. On the group screen: **Enroll code** to add fobs.



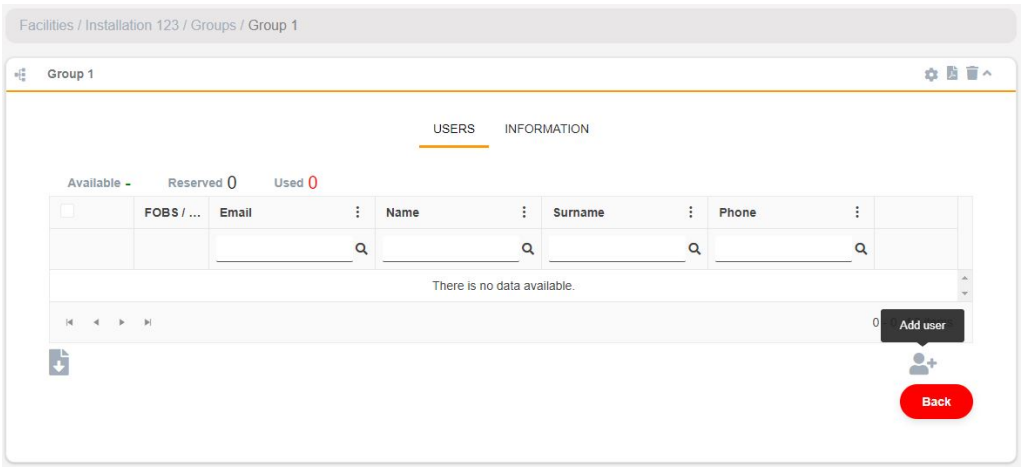
If working with Wiegand, see "Wiegand: Add users."

5. **Manual** to add one by one, **Sequential** to add a series of fobs. Fill in the fields correctly, enter the serial number correctly. **Accept**.

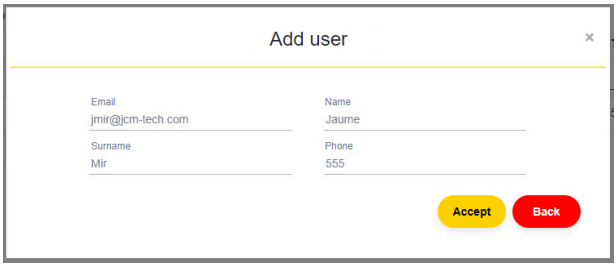


This equipment does not work with reservation codes and does not allow replacements. All fobs must be directly managed with the equipment's memory with the button Save configuration.

6. On the group screen: **Add user** to add HONOA users.

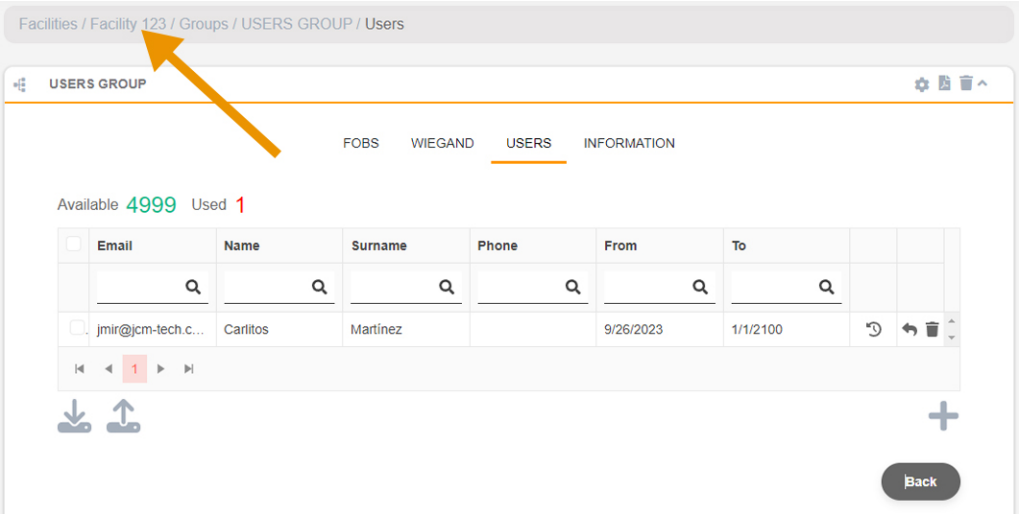


7. Complete the fields with the user information. **Accept**. The different users must provide the email used for their Honoa account.

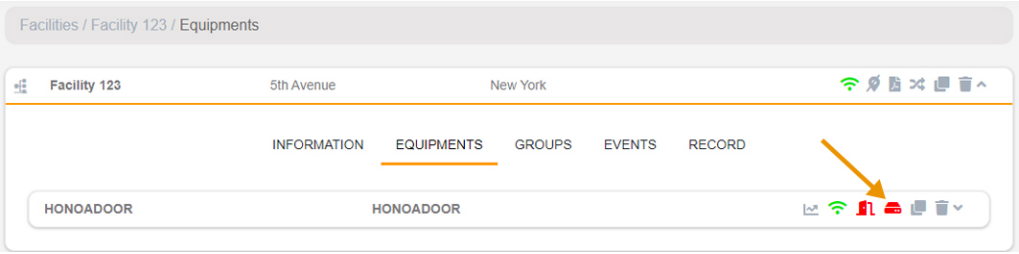


When a user is registered with cloudAssistant, they will automatically have access to the installation with the Honoa application.

8. Click "Installation Name" in the upper gray bar to go to installation.



9. **Equipments** -> **Save configuration**.

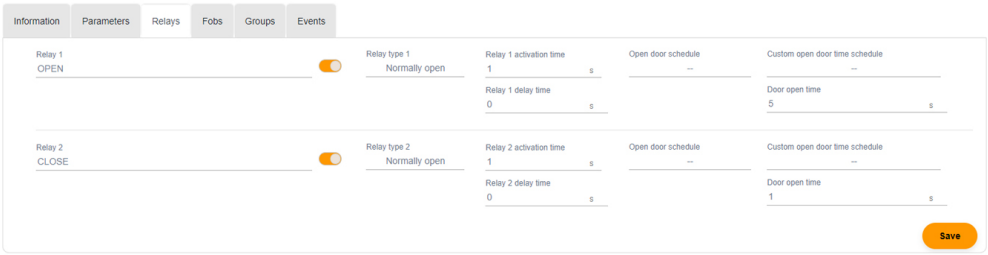


Every time an equipment parameter is modified, you must Save configuration.

It is not necessary to press Save configuration to update HONOA user authorizations.

Configure relays and assign traffic schedules

On the equipment's "Relays" screen:

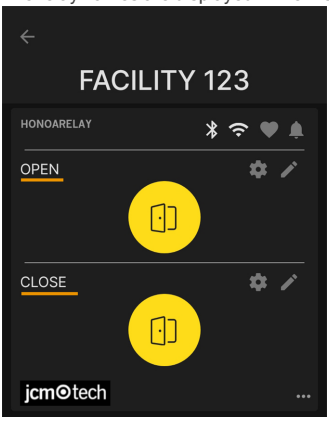


- **Relay X:** assign name to the relay
- **Selector:** enable / disable relay
- **Relay type X:** Bistable / Normally open/ Normally closed
- **Relay activation time X:** set the time that the relay remains active for (it is 1 second by default)
- **Relay delay time X:** set the time that it takes for the relay to activate (it is 0 seconds by default)
- **Open door schedule:** The relay activates automatically, based on the assigned weekly hours. Without assigned hours, the relay operates normally
- **Custom open door time schedule:** Activation time goes from 1 second to the time selected in "Door open time", based on the assigned weekly hours. Without assigned scheludes, the relay operates normally
- **Door open time:** time in seconds

For the activation times and schedule to work, the device must be connected to the Internet.

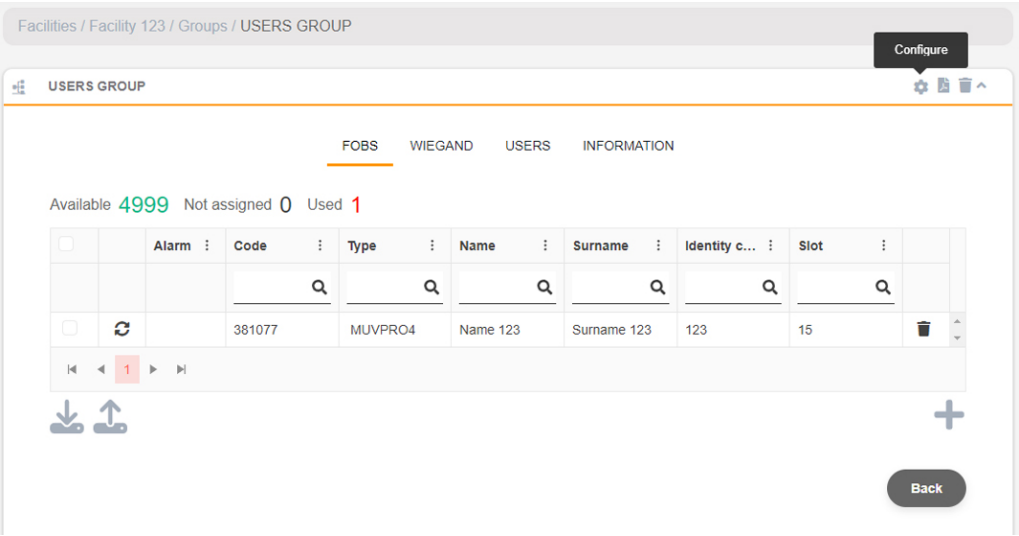
Every time an equipment parameter is modified, you must save configuration.

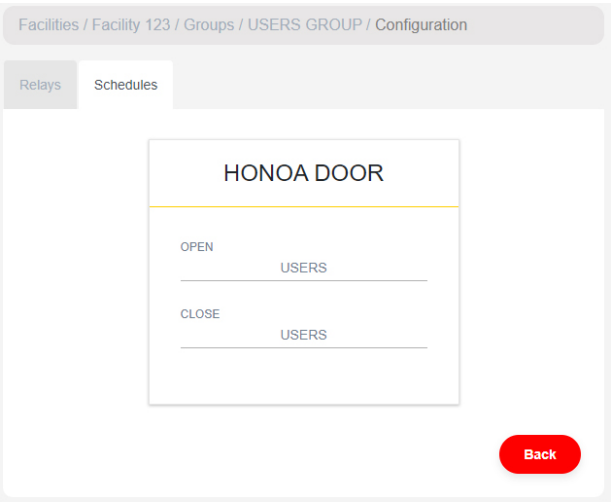
The relay names are displayed in the HONOA APP:



Set group schedules

The assignment of a schedule to a group is done in the "Configuration" screen of groups:





Group users can only activate the relay when within the assigned hours. If there is no assigned schedule, it can always be activated.

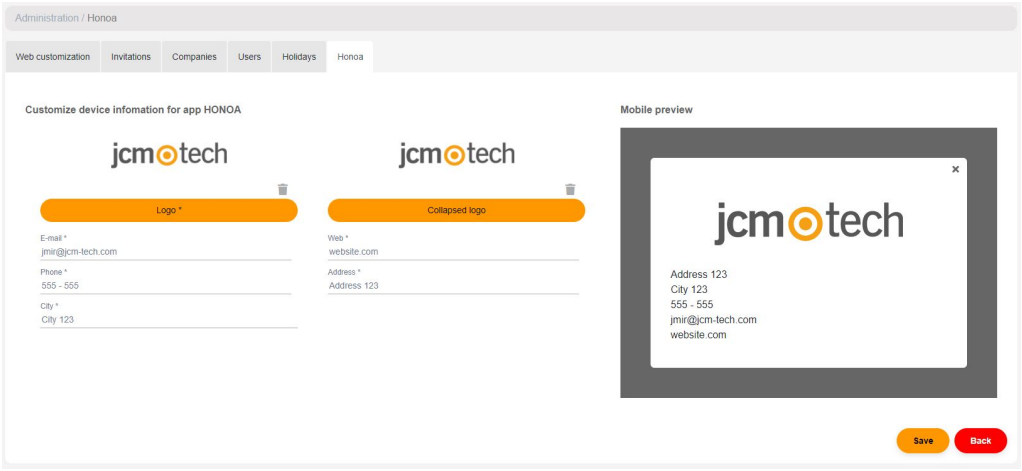
For the schedule to work, the device must be connected to the Internet.

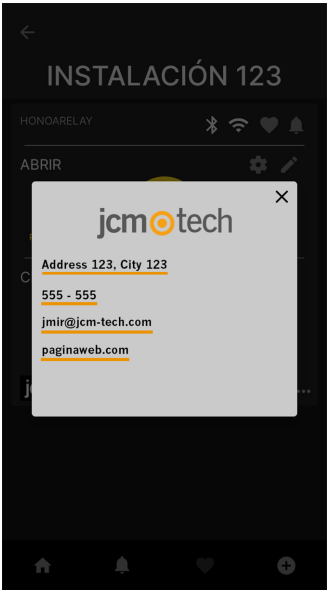
Every time an equipment parameter is modified, you must save configuration.

Administration: Honoa

HONOA users may view your contact information by clicking on the logo to the bottom left of the device in the HONOA APP.

Contact information can be changed on the "Honoa" screen under "Administration".





DCS

The equipment is compatible with the old range of DCS remotes and proximity devices. To connect them, the BUS S (CITYPROX) must be connected to the D1 input of the WIEGAND2, and the C4plus (INTERFACERF/WG & CITYPROX C4+) to the D0 input of the WIEGAND2.

The BUS S / C4plus allows management of up to four connected channels. Channel and relay assignment is configured via **cloud**Assistant.

In **cloud**Assistant, the codes of remotes and proximity cards must be registered from the DCS tab of the user group.

Requirements

Software versions:

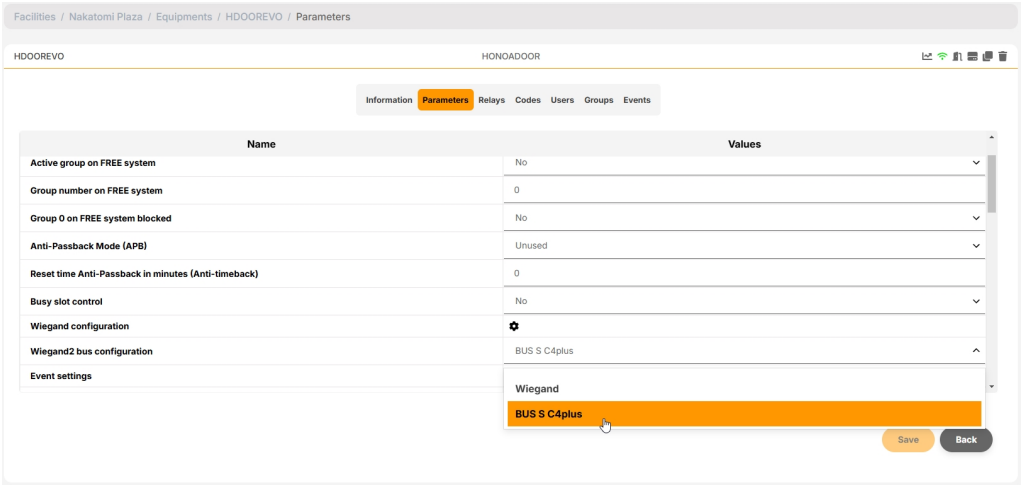
- HDOOREVO → 01.03.16.00 or later.
- HDOORWG → 02.01.00.00 or later.

An INTERFACE RF/WG, a 433MHz multiprotocol radio receiver, for reading DCS fobs.

A CITYPROX or CITYPROX C4+, a proximity reader, for reading DCS RFID fobs.

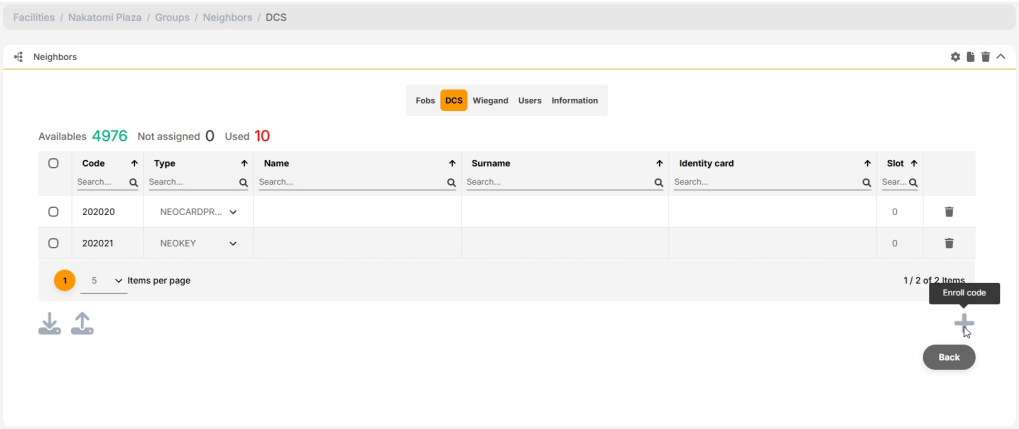
Configuration

In the "Parameters" tab of the equipment, select "BUS S / C4plus" in the "Wiegand2 bus configuration" field.

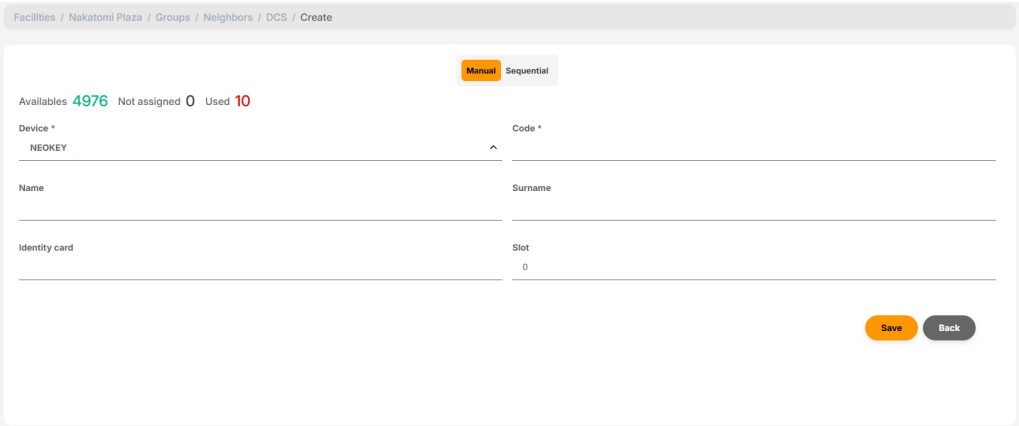


Add users

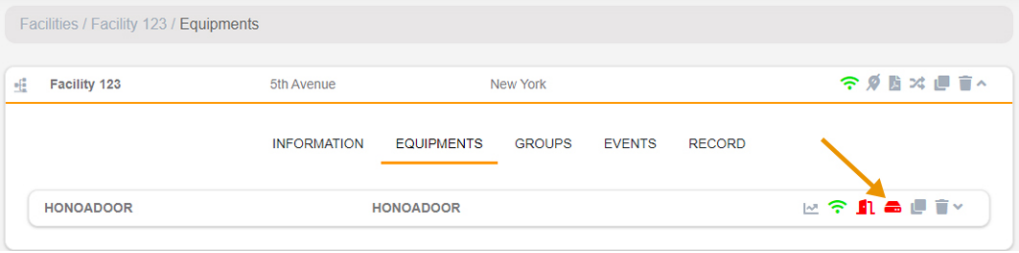
On the group screen assigned to the device, go to the "DCS" tab. **Enroll code** to add fobs.



Manual to add one by one, **Sequential** to add a series of fobs. Fill in the fields correctly, enter the serial number correctly. **Save**



Equipments -> Save configuration



Every time an equipment parameter is modified, you must Save configuration.

Wiegand

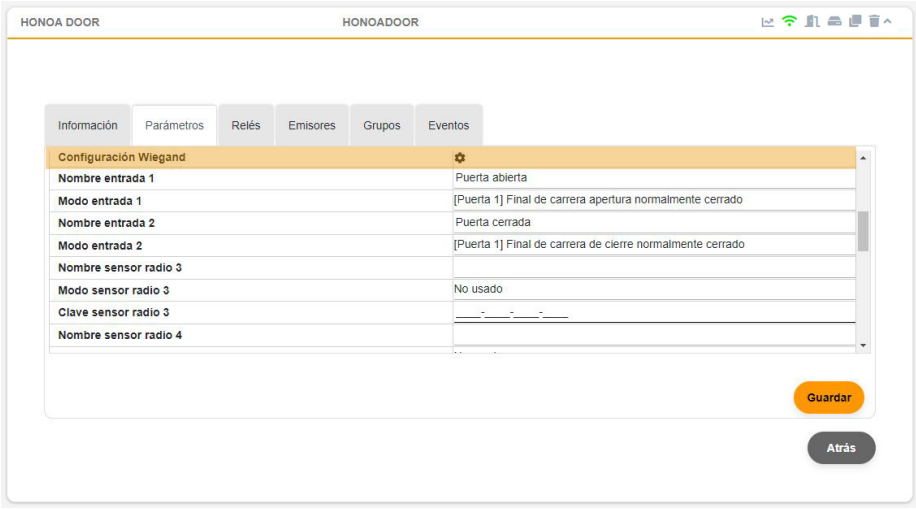
The device has two inputs to connect Wiegand26 or Wiegand34 devices. It also has a Wiegand output for the "radio connect interface" feature.

You can manage settings for Wiegand formats through the **cloud**Assistant, and these settings are applied to Wiegand inputs and the output.

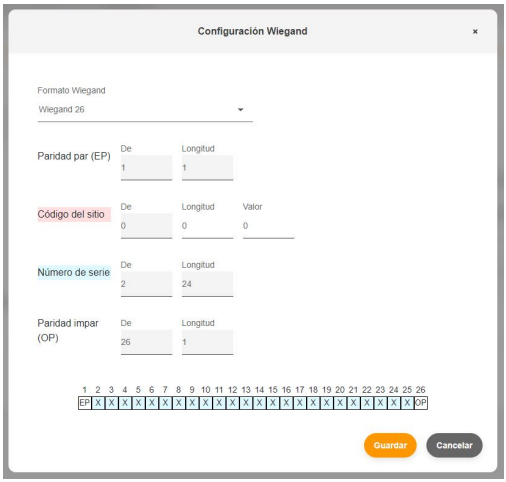
All devices connected to Wiegand input 1 act on channel 1, and the ones with Wiegand 2 on channel 2. You can define the channels that activate relays in group settings. There are no Wiegand channels 3 and 4.

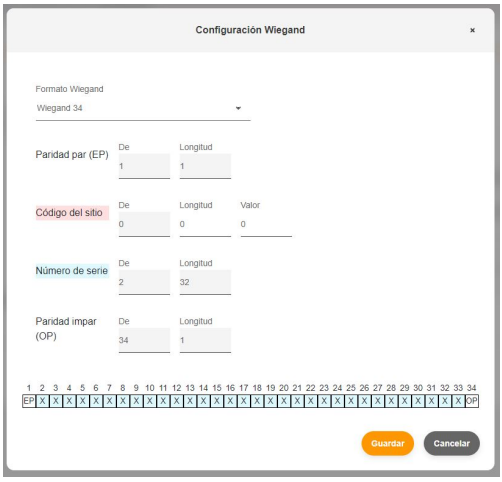
Settings

In the device's "Parameters" tab, click the "Wiegand Configuration" icon.



Select the Wiegand format type; you can select between Weigand26 and Wiegand34 formats.

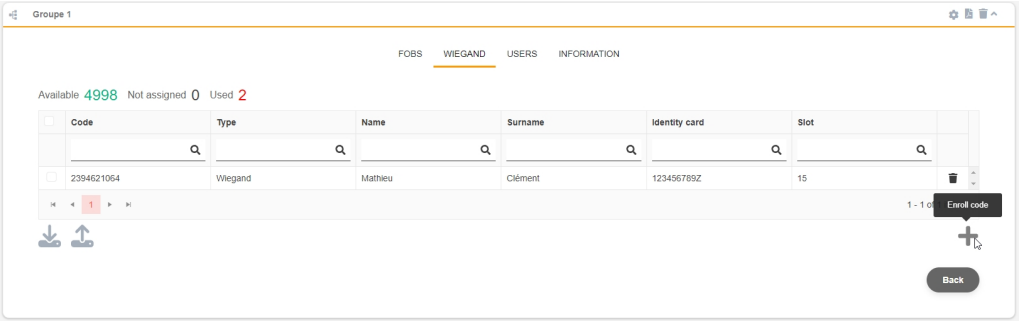




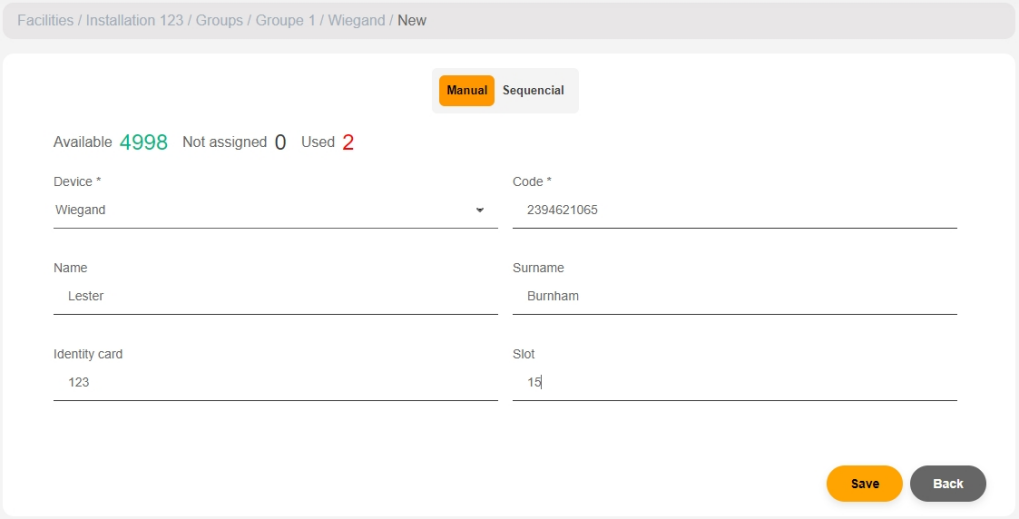
If you wish to work in "Site Code" mode, you must set the length and value of this code. Otherwise, leave these fields at "0."

Add users

On the group screen assigned to the device, go to the "WIEGAND" tab. **Enroll code** to add fobs.



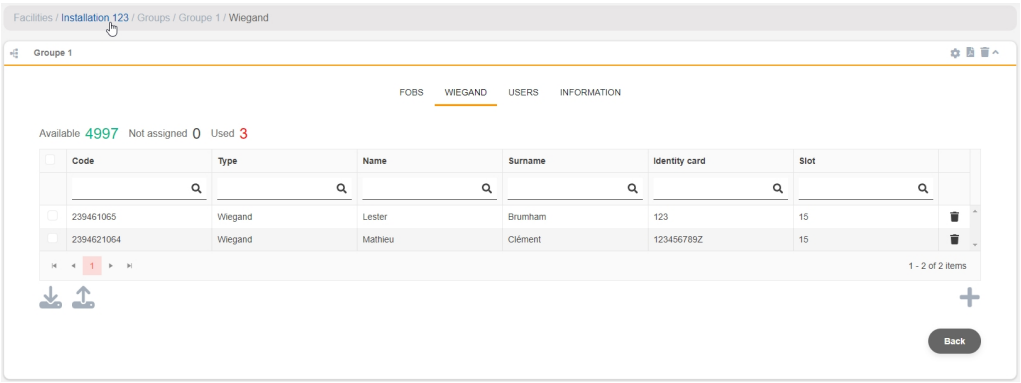
Manual to add one by one, **Sequential** to add a series of fobs. Fill in the fields correctly, enter the serial number correctly. **Save**



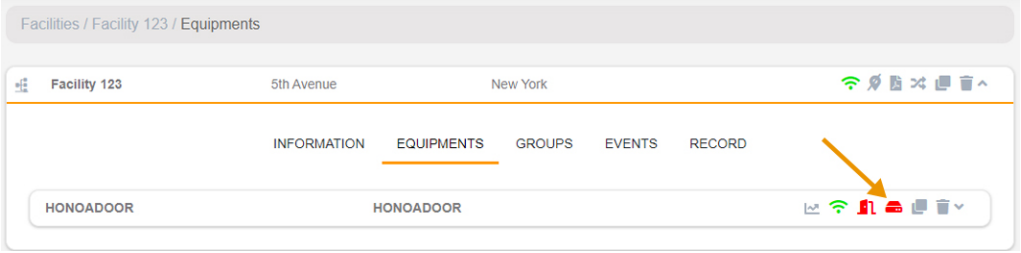
A WIEGAND code can numerically match a MOTION code.
The device tells them apart based on the technology used, making them 2 totally different codes.

Detection of suspicious codes only works with MOTION fobs.

Click "Installation Name" in the upper gray bar to go to installation.



Equipments -> Save configuration



Every time an equipment parameter is modified, you must Save configuration.

The device has capacity for 5,000 codes in total, whether MOTION or WIEGAND.

If there is a device in a user group with a lower MOTION code capacity, the maximum number of MOTION codes that can be added to the group will be limited by the device with the fewest number of codes.

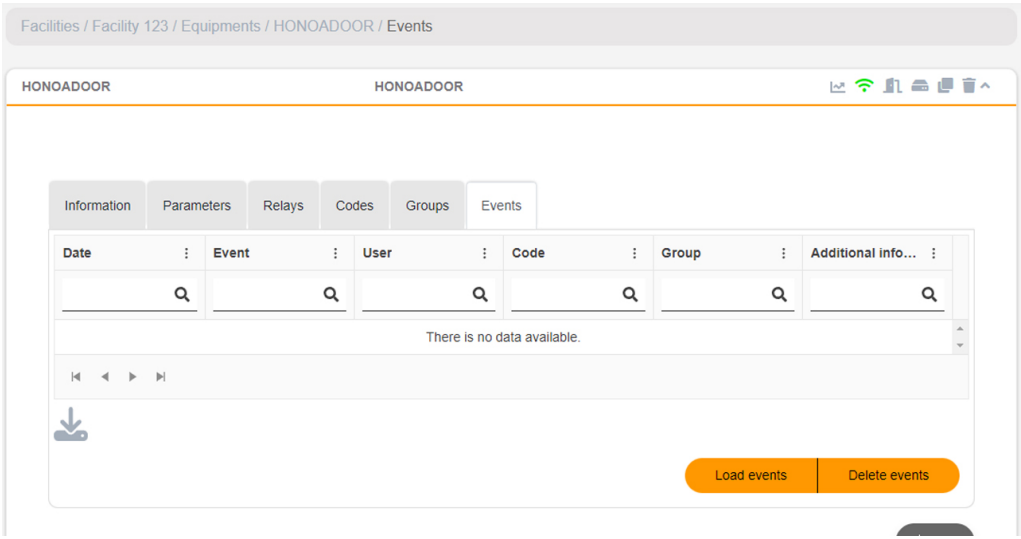
WIEGAND codes can only work with HONOADOOR devices.

If there is a device in the user group that does not accept WIEGAND codes, the limit on codes accepted by the group will not use the WIEGAND codes but will allow them to be managed and registered in HONOADOOR devices from the user group.

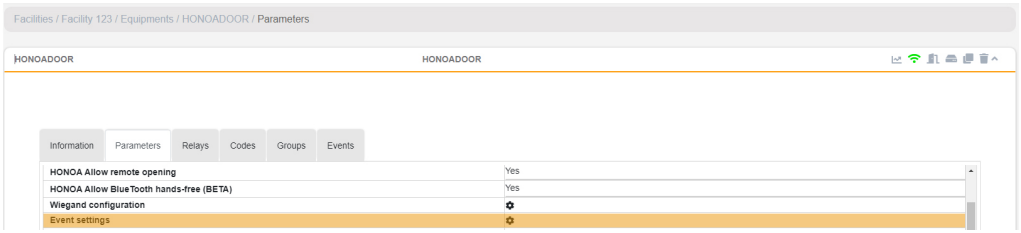
Example: In a group that affects an HDOOR EWG (5,000-code capacity) and a BASE500-2 (500-code capacity), the maximum capacity for available codes for the group would be 500 codes. However, up to 4,500 MIFARE codes could be added, which would not work with the BASE500-2, without decreasing the group's free codes.

Events

HDOOREVO is a device with an event record. To see them, in **cloud**Assistant, go to the device's "**Events**" screen.
Events are stored locally on the device. When HDOOREVO does not have an internet connection, the device keeps working, but it cannot read the events. To load the list of events from the device, go to the "**Events**" screen → "**Load events**".
To read the events, the device must be connected to the Internet.



To reset the device's list of events, select "**Remove events**".



List of available events:

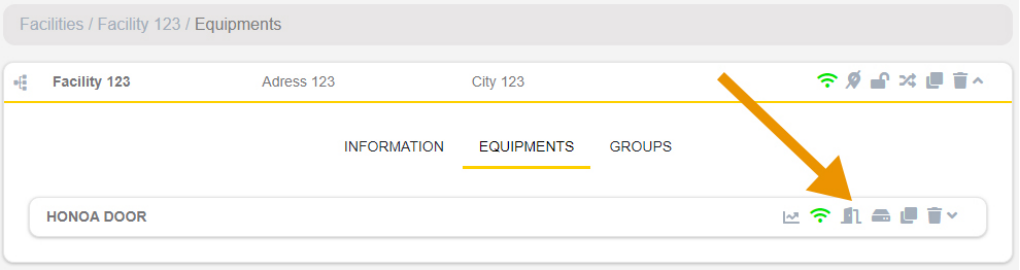
- Access denied / Fob not programmed or disabled
- Access denied/Tag/Wiegand not programmed or disabled
- Access denied / Suspicious transmitte
- Access denied / Out of calendar
- Access denied / Wrong channel
- Access denied / APB
- Access granted
- Door open/closed
- Access granted / Button
- Safety input activated
- Power on
- Eventlog reset
- FOTA

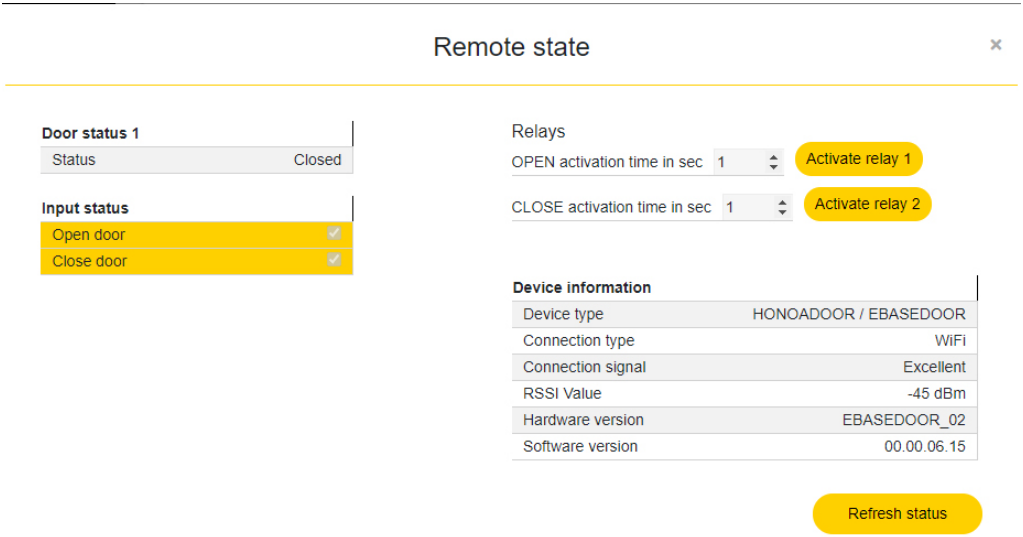
Operational mode

Remote control from **cloud**Assistant

To control the equipment remotely it is necessary to have it connected to the Internet:

- Go to "**Facilities**" -> "Facility name" -> "**Equipments**"-> Select "**Remote State**" (button with the door).





We can view the status of the inputs and remotely activate the equipment's relays. You also have information on the equipment (equipment versions, connection levels, etc.).

Anti-Passback

HDOOREVO can operate with Anti-Passback. **The Anti-Passback feature only works with MOTION tags and fobs (with compatible references).**
The Anti-Passback is to monitor passage, preventing a user from entering twice consecutively in the same direction. The user must enter once in each direction (entry and exit).

MODE 0:
Mode 0 always returns OK permission to conduct the manoeuvre.
The timeback has no effect on this mode.

MODE 1:
Mode 1 is designed for one single access that works as both entry and exit at once.

- Both loops are mandatory and indicate whether the code received is entering or exiting.
- The received channel does NOT define entry or exit.
- After the timeback as run out after a movement, the code goes into undefined status, allowing for all operations.
- Exit is always allowed, regardless of status, provided that the matching loop is active.
- Channel received does not matter.

MODE 2:
Identical to Mode 1, but free exit is not allowed. Exit is only allowed if the spot is occupied. (status = INSIDE).

- Both loops are mandatory and indicate whether the code received is entering or exiting.
- The received channel does NOT define entry or exit.
- After the timeback as run out after a movement, the code goes into undefined status, allowing for all operations.
- Exit is only allowed when the status is INSIDE, provided that the matching loop is active.
- Channel received does not matter.

MODE 3:
Mode 3 is designed for one single access that works as both entry and exit at once.
The entry may have proximity readers (in this case, the magnetic loops are not read), or operate with fobs and loops.

Proximity entry:

- The entry's proximity reader must be set as channel 1. It acts as a presence-detecting loop for the entry.
- The exit's proximity reader must be set as channel 2. It acts as a presence-detecting loop for the exit.

You must remember to properly set the channel-relay relationship in the central based on the installation; in other words, if using only one relay for channels 1 and 2, or the relay 1 and the 2 (multi-channel registrations) bypassed in parallel to activate the panel.
If the entry does NOT have proximity readers, it is mandatory to have magnetic presence-detection loops.

Access with fob:

For entry, channel 1 of the fob must be controlled. To exit, channel 2 of the fob must be controlled. Channels 3 and 4 are not controlled by the APB, because this card always returns the OK manoeuvre for channels 3 and 4. The status of the loops will be read to know the direction of the manoeuvre and to give permission or deny the manoeuvre.

- The entry loop is mandatory to enter with a fob.
- The exit loop is mandatory to exit with a fob.

There are three status for each memory position: INSIDE, OUTSIDE, UNDEFINED.
If timeback is greater than 0, after it has run out after a correct manoeuvre, it moves to UNDEFINED STATUS.
If timeback is 0, the APBK works absolutely, without time control.
The enter, it checks that the code is on OUTSIDE or UNDEFINED status.
The exit, it checks that the code is on INSIDE or UNDEFINED status.

MODE 4:

Mode 4 is designed for a situation with physically separated entrance and exit.
Access points may have proximity readers (in this case, the magnetic loops are not read).

- The entry's proximity reader must be set as channel 1 or 3.
- The exit's proximity reader must be set as channel 2 or 4.

Remember to correctly set the channel-relay relationship at central based on the installation.
If the access points do NOT have proximity readers, it is mandatory to have have magnetic presence-detection loops.
As such, to enter, the channel received from the fob and the activated loop will be controlled. Channels 1 and 3 are associated with the entry. 2 and 4 with the exit.
The status of the loops will be read to grant or deny permission for the movement.
In both cases, there are three status for each memory position: INSIDE, OUTSIDE, UNDEFINED.
If timeback is greater than 0, after it has run out after a correct manoeuvre, it moves to UNDEFINED STATUS.
If timeback is 0, the APBK works absolutely, without time control.

Sketch HDOOREVO installation with layout of inputs Anti-Passback mode operation with magnetic Entry/Exit detectors:

POWER INPUT: Power supply at 230Vac.

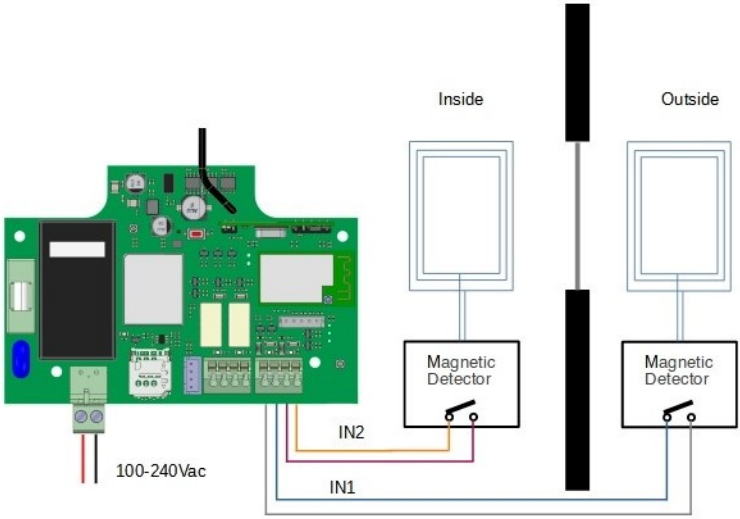
R1:RELAY Channel 1. Potential-free contact.

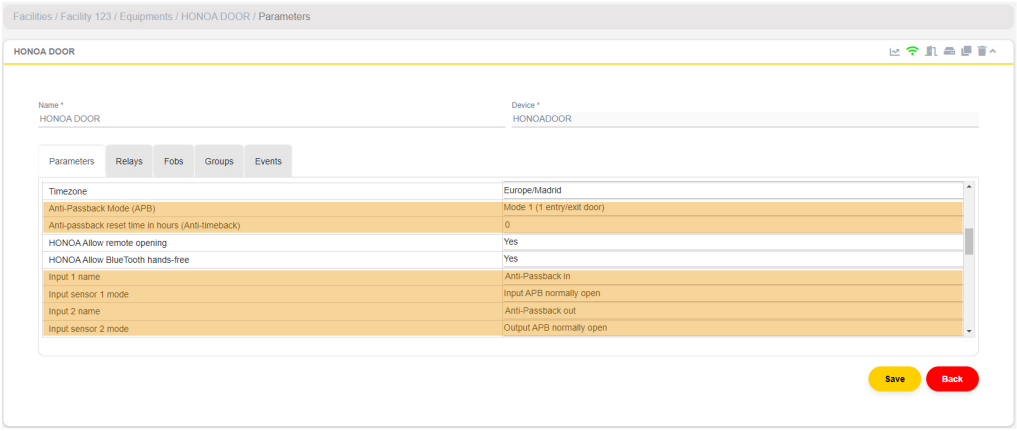
R2: RELAY Channel 2. Potential-free contact

- Characteristics of output relays (for resistive load):
- Maximum current: 2A.
- Maximum power: 60W / 62.5VA.
- Maximum voltage: 24V ac/dc.

IN 1: Exterior magnetic detector open-contact input.

IN 2: Interior magnetic detector open-contact input.





The Anti-timeback is a timed Anti-Passback. It allows two consecutive entries in the same direction after the selected time has passed. By default to 0 (without Anti-timeback).

Verification

LED behaviour

 OFF |  FIXED |  BLINKING

State	Status LED	Network LED	Internet LED	Action
Power off				-
No Firmware				CALL TECHNICAL SUPPORT
Starting				WAIT
RED Configuring				Use embedded web or WPS to configure connectivity
RED Configuring timeout				Reset device
Connecting RED				WAIT
RED Error				WRONG RED PASSWORD
Internet Connecting				WAIT
Internet Error				CHECK ROUTER (INTERNET)
JCM Cloud Connecting				WAIT
JCM Cloud Error				CALL TECHNICAL SUPPORT
Ready				-
Reset				Keep reset button pressed
Update				WAIT
Communicating				-

Notes

Notes

Notes

Technical data

Parameter	Value
Power Supply	100 - 230Vac
Stand-by / operating consumption	0,250A / < 0,001A
Relay Contacts (R1 / R2)	2A Resistive load
Operating temperature	-20ºC / +55ºC
Size (L/W/H)	140 x 220 x 55mm
Watertighness	IP54 (with cable gland IP65)
Operating frequencies	868MHz
Coding	High security changing code
Memory	5000 codes
Network type	GSM / Cat M1 / NB-IoT
Network type	BLE
Access control output: WIEGAND + BUS-L	12v (max 250 mA.)

Regulatory Data

UKCA Declaration of conformity

The manufacturer **JCM TECHNOLOGIES, SAU** declares that the product **HDOOREVO** complies with the relevant fundamental requirements of the Radio Equipment Regulations 2017 and of the RoHS Regulations 2012, insofar as the product is used correctly.

EU Declaration of conformity

The manufacturer **JCM TECHNOLOGIES, SAU** declares that the product **HDOOREVO** complies with the relevant fundamental requirements of the RED Directive 2014/53/EU, the RoHS Directive 2011/65/EU, insofar as the product is used correctly.

See website https://www.jcm-tech.com/declarations/

JCM TECHNOLOGIES, SAU
C/ COSTA D'EN PARATGE, 6B
08500 VIC (BARCELONA)
SPAIN