easy gate

golmar

EASYGATE-RF

INSTALLATION MANUAL

IM_ENG_REV0123_EASYGATE-RF

1.TABLE OF CONTENTS

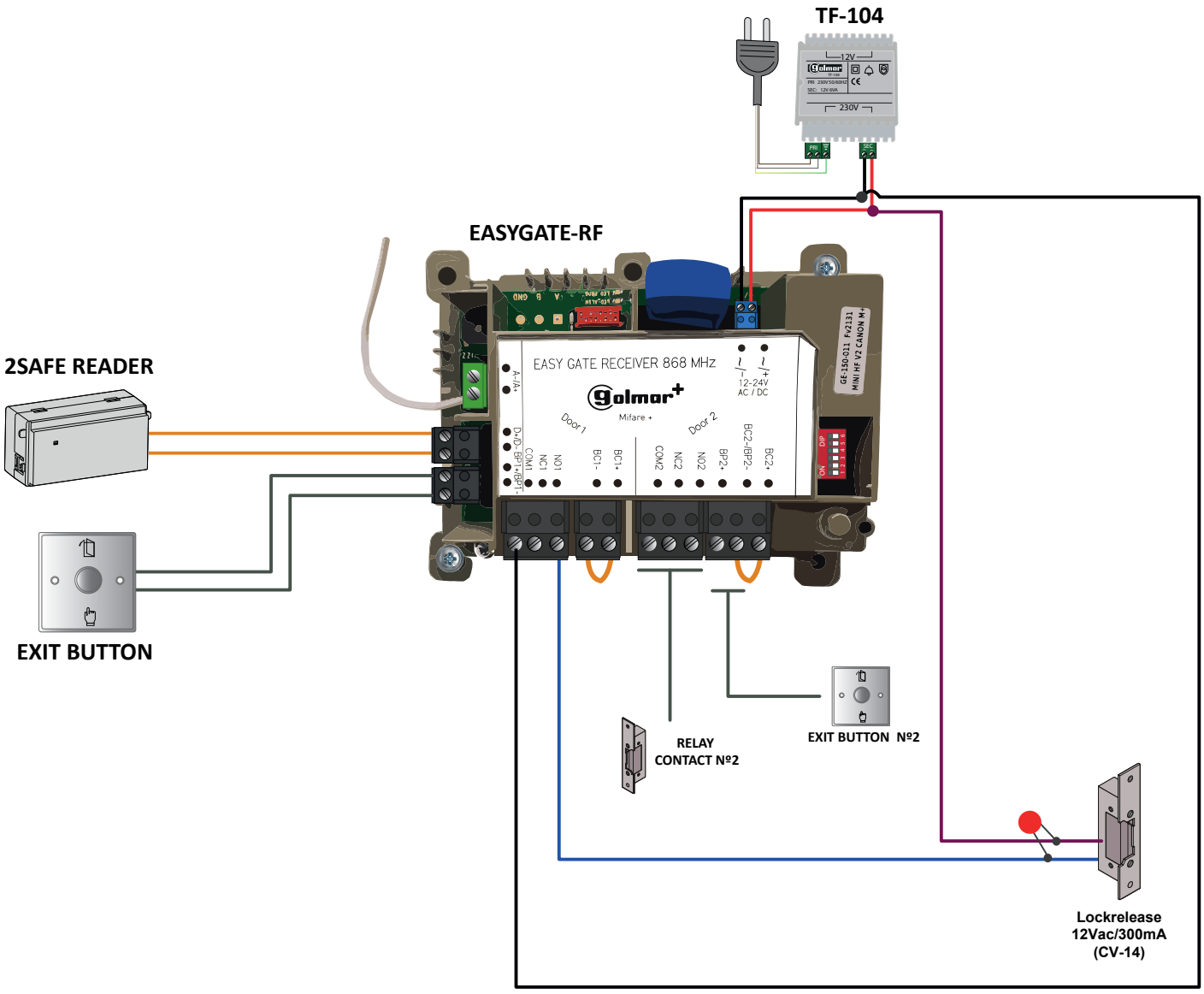
2.INTRODUCTION

EASYGATE-RF controller manual. This version of the EASYGATE controller provides the possibility to manage two relays, the first one via proximity and/or RF, the second one via RF.

3.TECHNICAL SPECIFICATIONS

Power supply	12 to 24Vdc or 12 a 24Vac
Consumption	Up to 300mA (in card reading/relay activation).
Number of relays	2
RF	
Frequency	868MHz
Protocol	Manchester with rolling code
Range	Up to 100m in open field
Proximity	
Frequency	13.56MHz
Maximum distance between reader and controller	90m with twisted pair and shielded (FTP), recommended cable M-26CALH (20100127).
Local mode programming	
Proximity credentials	Up to 1500
RF transmitter controls	Up to 1500
Remote mode programming (Cloud)	
Proximity credentials	Up to 2000
RF transmitter controls	Up to 2000
Working temperature	-20º C to +55º C.
Dimensions	100(H) x 120(W) x 45(D) mm.

4.WIRING DIAGRAM



1. The controller is supplied from the factory with two jumpers (BC1-/BC1+ and BC2-/BC2+), do not remove them.
2. The protection diode must be installed, 1N4004 or 1N4007 diodes are generally used.
3. Relay contact nº1 can be operated by proximity via a 2SAFE reader connected to terminals D+ and D- or via the RF transmitter control (GM-WEIPOP). Relay contact nº2 can only be operated by RF transmitter control (GM-WEIPOP).
4. The receiver is designed for indoor operation.
5. HF radio transmission/reception performance may vary depending on the environment (interference or other radio installations within a close distance).

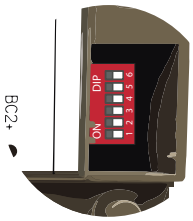
5.STATUS LEDs MEANING

PROG. LED	EASYGATE-RF CONTROLLER
RED LED FLASHING FAST	(3 times per second) Communication problems between reader and controller (check cable connection).
RED LED SLOW FLASHING	(1 time every 3 seconds) Successful communication between reader and controller.
RED LED ON	It is in local programming.

POWER SUPPLY LED	READER
GREEN LED FLASHING	(1 time every 5 seconds) There is power supply.

6.DIPSWITCH

To perform local programming or specific configurations on the controller, it is necessary to manipulate the position of the DIPSWITCHES, the meaning of which is indicated below:



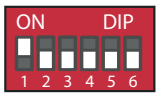
DIP	OFF	ON
1	Normal use	Programming mode
2	Not used	Not used
3	APB deactivated	APB activated
4	Permanent APB	APB by time
5	APB only at the entrance	APB on entry and exit
6	BP1 = relay 1/ BP2 = relay 2	BP3 = relay 3 / BP4 = relay 4

7.LOCAL MODE PROGRAMMING

In order to increase the administrator's convenience and expansion possibilities, it is recommended to use remote programming only, see point "9.REMOTE MODE PROGRAMMING(CLOUD)".

The controller can manage two types of transmitter controls: Master and resident. The "resident" controls open the door and the "master" cards are used to register the "resident" type controls.

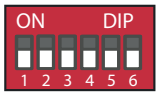
7.1.ADD MASTER TRANSMITTER CONTROL (MAX.10)



1) Set DIP nº 1 to ON.

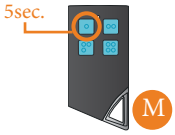
*The "prog." led will light red and 3 beeps will be heard **The rest of the DIPs must be OFF.

2) Press briefly button 1 on the transmitter control.



3) Set DIP nº 1 to OFF.

7.2.ADD RESIDENT TRANSMITTER CONTROL (MAX.1500)



1) Press and hold button nº1 of a transmitter control "MASTER" for 5 seconds.

*The "prog." led will light up red and 3 beeps will be heard. *The MASTER control also opens relay 1 so press and hold until the LED lights red and the 3 beeps are heard.

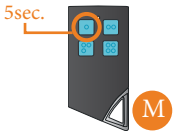
2) Press briefly button 1 of the transmitter control "RESIDENT" to be added.

*Each time a transmitter control is added, 1 beep will be heard.

3) Press briefly on button 1 of the transmitter control "MASTER" to exit programming.

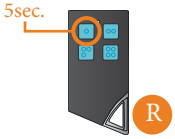
*1 beep will confirm programming exit.

7.3.DELETE RESIDENT TRANSMITTER CONTROL (MAX.1500)



1) Press and hold button nº1 of a transmitter control "MASTER" for 5 seconds.

*The "prog." led will light up red and 3 beeps will be heard. *The MASTER control also opens relay 1 so press and hold until the LED lights red and the 3 beeps are heard.



2) Press for 5 seconds on the button nº1 of the "RESIDENT" transmitter control that needs to be deleted.

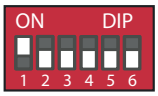
*Press and hold until you hear 2 beeps.

3) Press briefly on button 1 of the transmitter control "MASTER" to exit programming.

*1 beep will confirm programming exit.

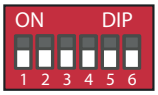
7.4.DELETE ALL MASTER TRANSMITTER CONTROLS

1) Remove the power supply to the equipment.



2) Set DIP nº 1 to ON.

3) Connect the equipment to the power supply.
*1 beep will be heard.

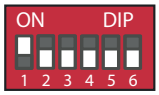


4) Set DIP nº 1 to OFF.
*1 beep will confirm programming exit.

8.OTHER PROGRAMMING

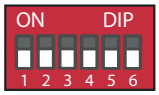
8.1.TIMING OF RELAYS

By default, the relays are timed at 3 seconds. However, these values can be modified as explained below:



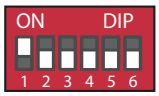
1) Set DIP nº 1 to ON.
*The rest of the DIPs must be OFF.

2) Press the output button (BP1) as many times as seconds you wish to program the lock release time. In case it is desired to set relay 2, do the same operation with BP2.



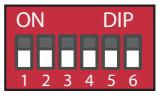
3) Set DIP nº 1 to OFF.

8.2.RESET TO FACTORY DEFAULTS



1) Set DIP nº 1 to ON.
*The rest of the DIPs must be OFF.

2) Press the output button (BP1) until a sequence of increasingly rapid beeps is heard. After the memory has been erased, a final beep will confirm that the controller has been reset.

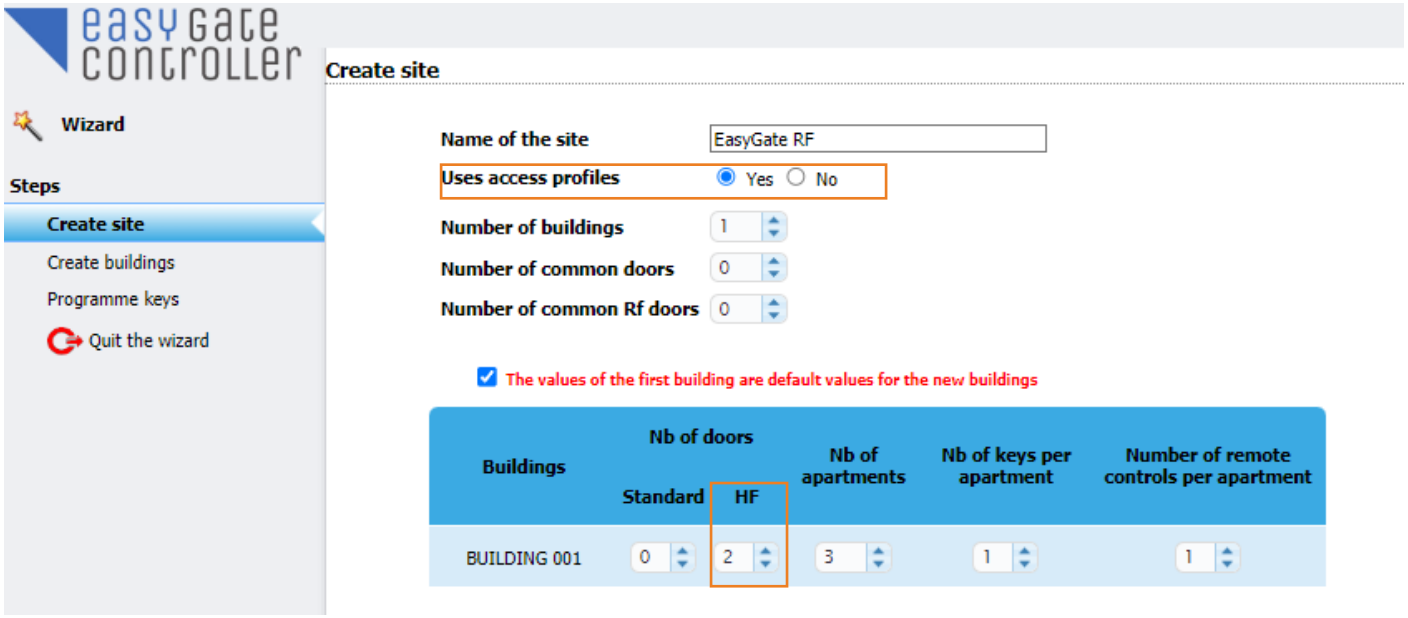


3) Set DIP nº 1 to OFF.

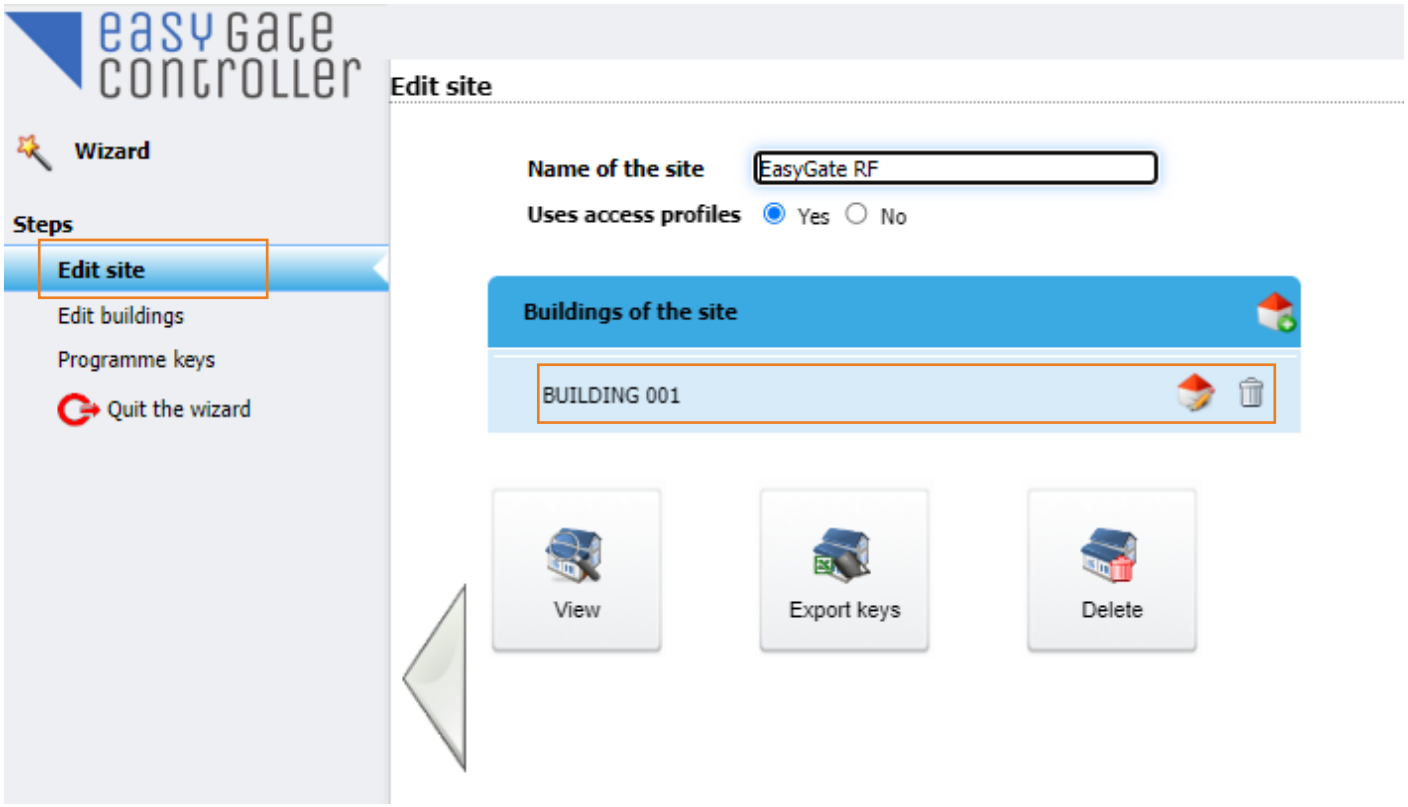
9.REMOTE MODE PROGRAMMING (CLOUD)

RECOMMENDED PROGRAMMING OPTION. In case of not being aware of the cloud management environment, please refer to the EASYGATE controller user manual.
The following describes the different steps to program an EASYGATE-RF controller in the Cloud (www.easygatecontroller.com) using the two relays.

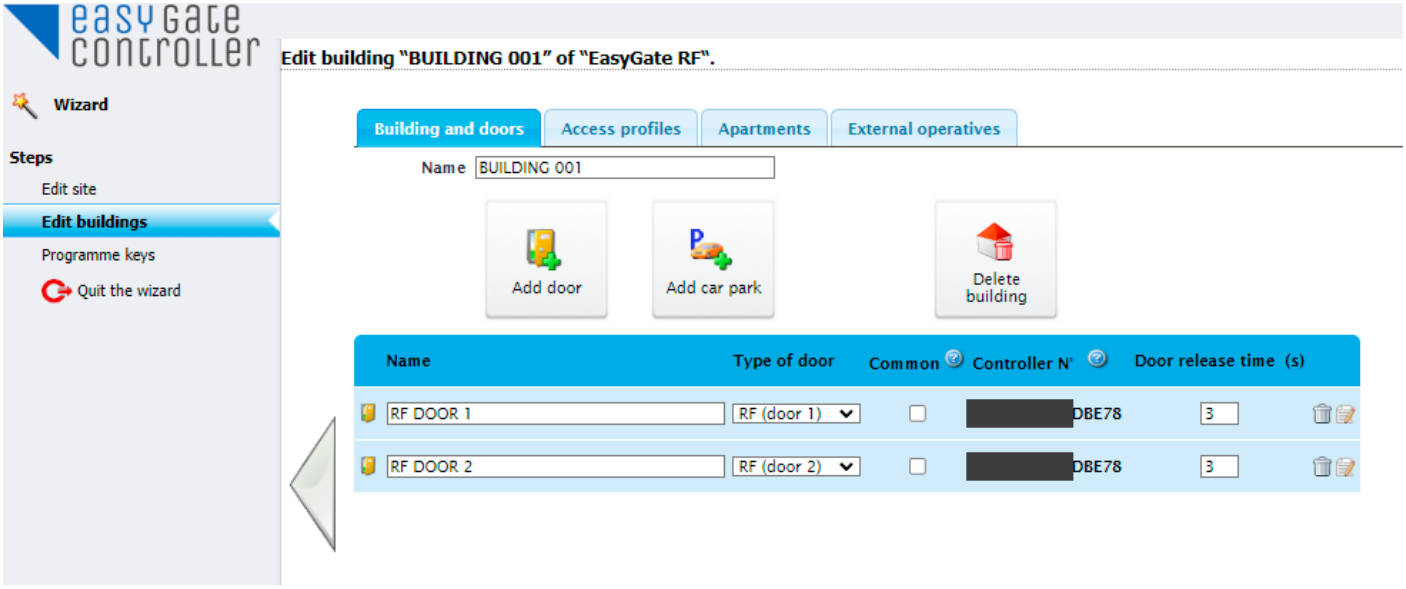
1) Create a residence, then activate the use of access profiles and set the value 2 in the field "HF", select the other values (apartments, keys, remote controls,...) according to the needs of the installation.



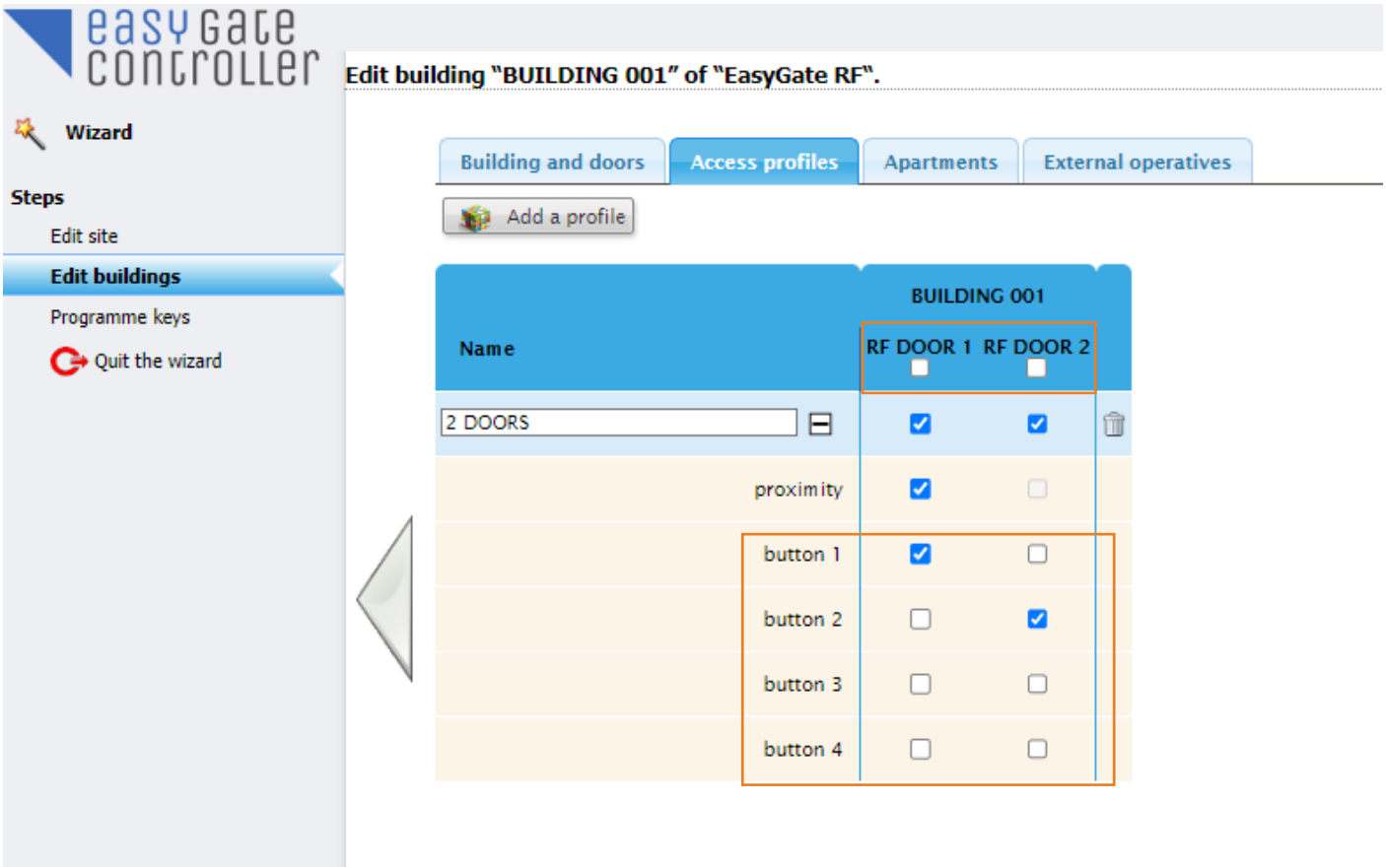
2) Press edit residence.



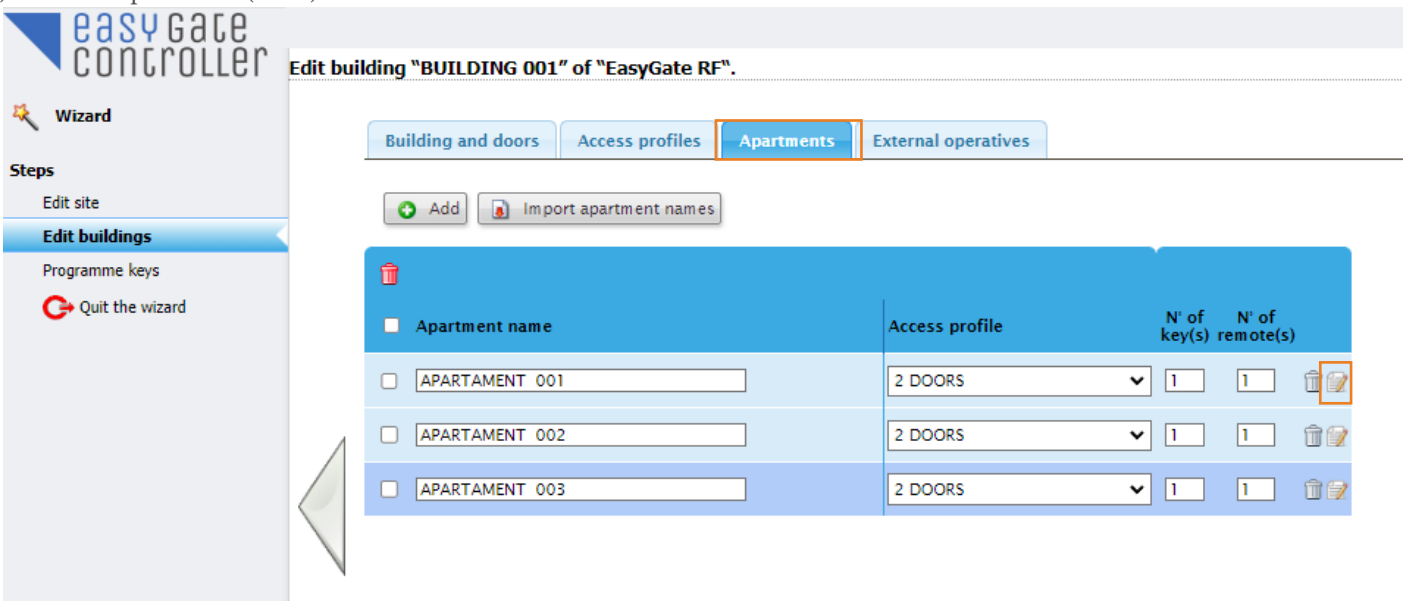
3) Register the controller twice, once to indicate that gate 1 RF will be used and a second time to indicate that gate 2 RF will also be used.



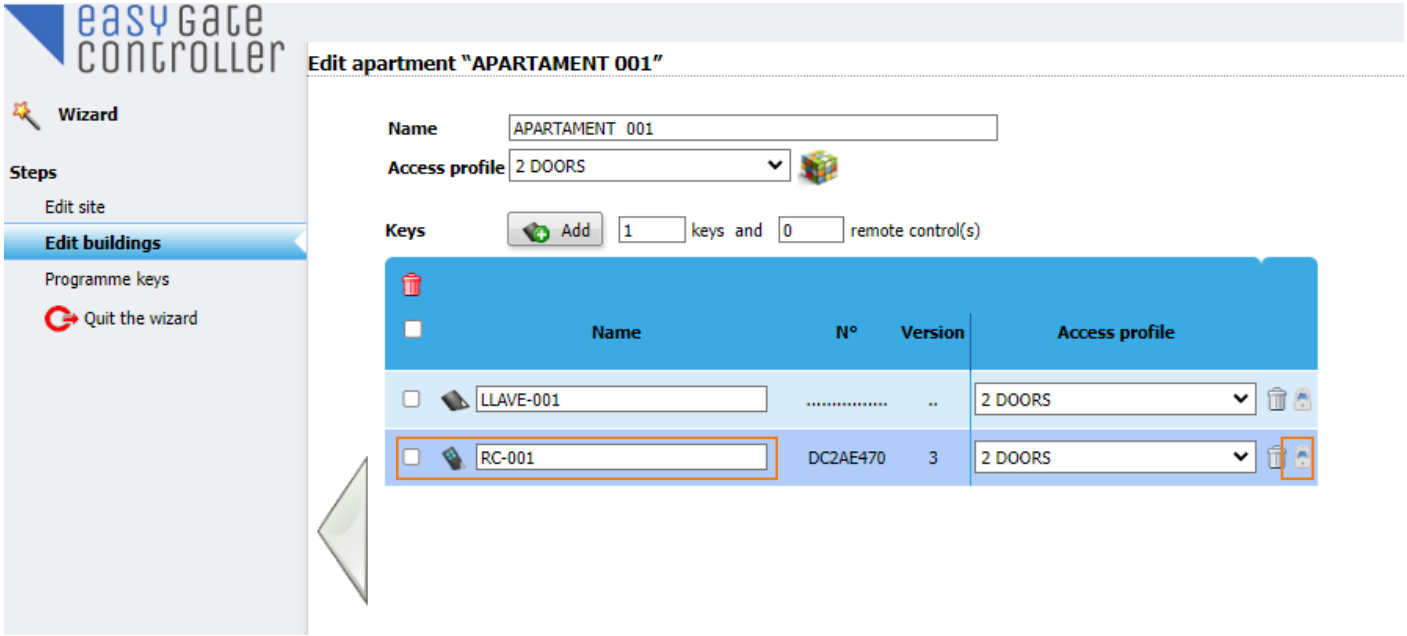
4) Generate access profiles as required, indicating which button on the transmitter control can operate which door.



5) Access to apartments (users).



6) Register the transmitters to the apartments (users).



10.ANNEX

10.1.APB (anti-passback up to 500 users)

Anti-pass back is a feature which prevents a user from entering into a zone for the second time or to loan his remote to someone else so this second person could enter with the same key. Two consecutive entries w/o exit in between are therefore not possible.

- - This function can only be used with RF identification (up to 500 controls), in case a proximity reader is connected to the controller, the APB function will not work.
- By removing the BC1-/BC1+ and BC2-/BC2+ bridges, any possibility to make use of the APB is cancelled.

As described above in the DIPSWITCH table, there are several DIPS (3, 4 and 5) that allow APB adjustments.

DIP	OFF	ON
1	Normal use	Programming mode
2	Not used	Not used
3	APB deactivated	APB activated
4	Permanent APB	APB by time
5	APB only at the entrance	APB on entry and exit
6	BP1 = relay 1/ BP2 = relay 2	BP3 = relay 3 / BP4 = relay 4

DIP 3 allows the function to be activated and used. In case it is activated, we will be able to make 2 more settings:
- DIP 3 allows the function to be activated and used. In case it is activated, we will be able to make 2 more settings:
- DIP 4: Allows to set whether the APB will work permanently (DIP to OFF) or for a certain time (DIP to ON).

Programming of the timing to cancel the anti-passback function

Set switch S1 to On. The "prog." LED lights up red. Then turn switch S3 to On, S2 remains Off. The receiver is waiting to be programmed.

The minutes are incremented by pressing the BP of door 2; the BP of door 1 allows an increment of 10 minutes at a time.

Five seconds after the end of programming and without touching the switches, the receiver counts the programmed time as follows: a long beep is generated every ten minutes and then a short beep per minute.

Set S1 back to Off, S2 and S3 to their initial state.

- DIP 5: Allows to determine whether the APB should be applied only to the input (Gate 1) or to the input and output.

easy gate controller

Sistemas de comunicación S.A.

C/ Silici 13. Poligon Industrial Famadas
08940 – Cornellà del llobregat – Spain
golmar@golmar.es
Tel: 93 480 06 96
www.golmar-seguridad.es