ACCESS-5K & GSM-CARD

User Manual

EN

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Important safety instructions

> ⚠️ Disconnect the power supply whenever you proceed to the installation or repair of the equipment.

In compliance with the European Low Voltage Directive, we inform you of the following requirements:

- When the devices remain permanently connected, an easily accessible connecting device must be incorporated into the wiring.
- This system must only be installed by qualified professionals that have with automated garage doors and knowledge of the relevant European standards.
- The user instructions for this device must always be in the user's possession.
- The operating frequency of the receiver does not interfere in any way with the 868 MHz remote control systems.

Use of the equipment

This device is designed for applications with an automated garage door. It is not guaranteed for the direct activation of devices other than those specified. The manufacturer reserves the right to change the device specifications without warning.
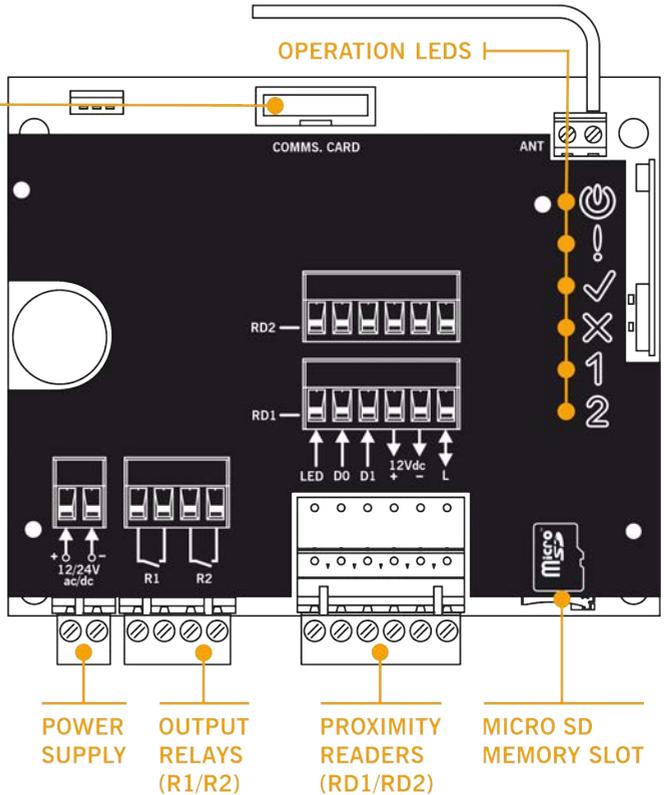
General description

The ACCESS-5K is an autonomous access control unit with two relays outputs and time scheduling.

User management is remotely only via Cloud Assistant (also Soft Assistant).

To manage users through Cloud Assistant, it is necessary to connect the GSM-CARD to access the Internet.

COMMUNICATIONS CARD CONNECTOR

Connect the GSM-CARD for ACCESS-5K management in real time

OPERATION LEDS

COMMS. CARD

ANT

RD2

RD1

LED D0 D1 12Vdc L
+ −

12/24V
ac/dc

R1 R2

micro SD

POWER SUPPLY

OUTPUT RELAYS (R1/R2)

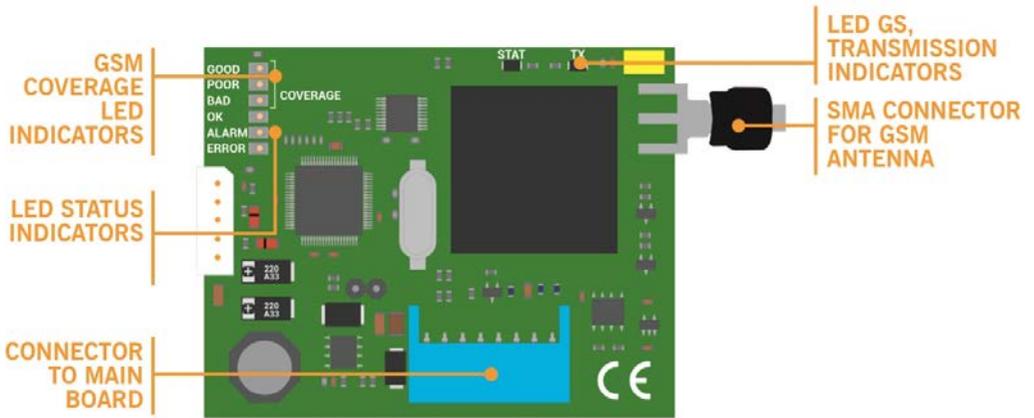**PROXIMITY READERS (RD1/RD2)**

MICRO SD MEMORY SLOT

Features

- 5000 users and events
- Scheduling for groups and relays
- 12/24 Vac/dc power supply
- 2 independent Bus L / Wiegand26 inputs
- Improved events management
- Firmware update

GSM-CARD

GSM communication card for real-time management

GSM COVERAGE LED INDICATORS

LED STATUS INDICATORS

CONNECTOR TO MAIN BOARD

LED GS, TRANSMISSION INDICATORS

SMA CONNECTOR FOR GSM ANTENNA

GOOD
POOR
BAD
OK
ALARM
ERROR

COVERAGE

STAT   TX

220
A33

220
A33

Fixing

With support

UNSCREW

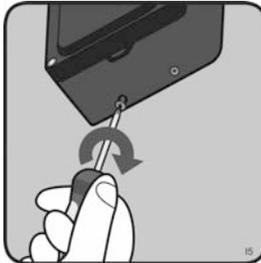REMOVE SUPPORT

DRILL

Ø4

HANG DEVICE

SCREW

Without support

UNSCREW

OPEN TOP COVER

DRILL

Ø4

Wiring

Wiring example

POWER SUPPLY

Connect the power supply cablesto the 12/24V ac/dc connector.

RELAYS

Connect the R1 / R2 relay outputs (Normally Open contact) to the existing elements of the installation

VERSUS
CONTROL
PANNEL

ELECTROLOCK

EXAMPLE OF INSTALLATION
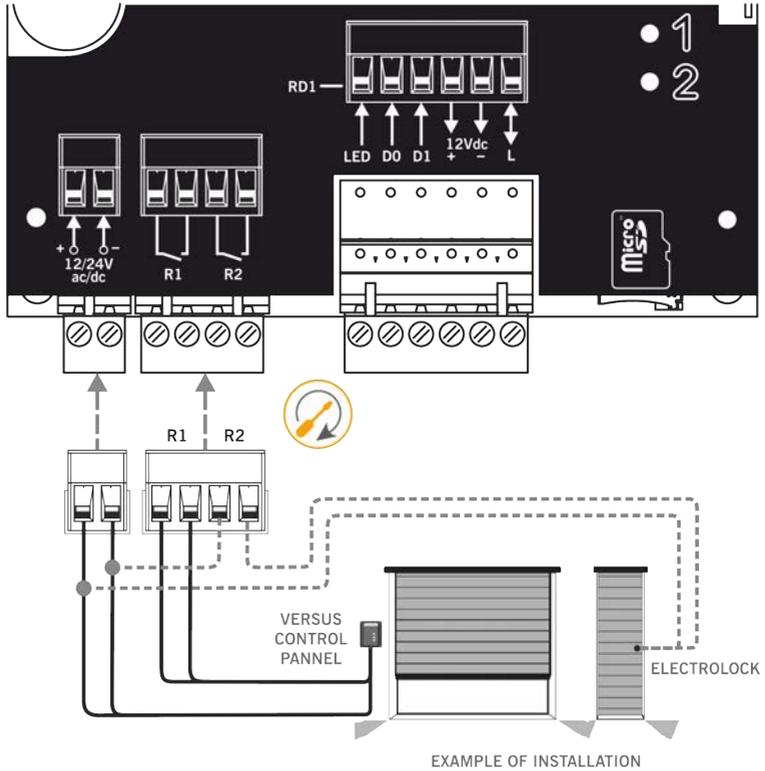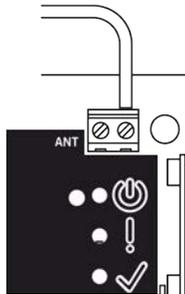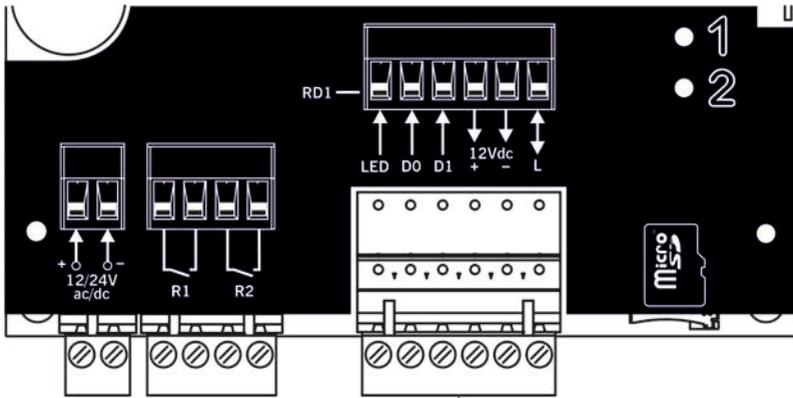
POWER
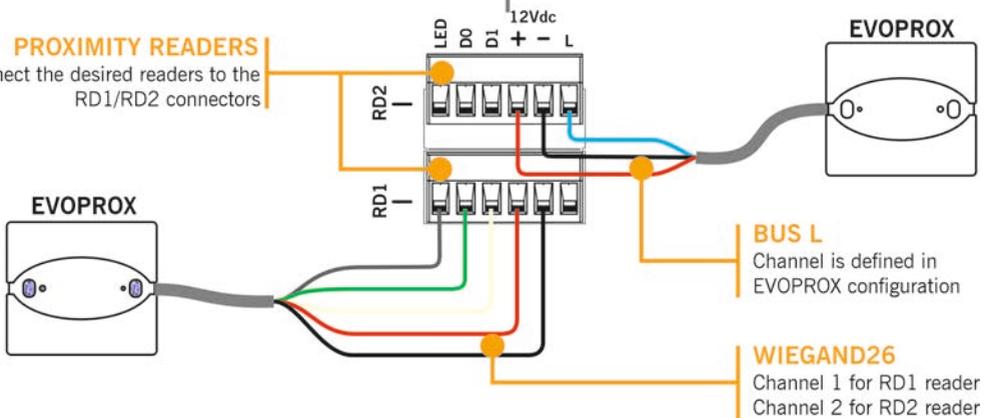
Check the power supply led is lighted when power is turned ON

ELECTROLOCK

Check power supply value for electrolock

PROXIMITY READERS
Connect the desired readers to the RD1/RD2 connectors

BUS L
Channel is defined in EVOPROX configuration

WIEGAND26
Channel 1 for RD1 reader
Channel 2 for RD2 reader

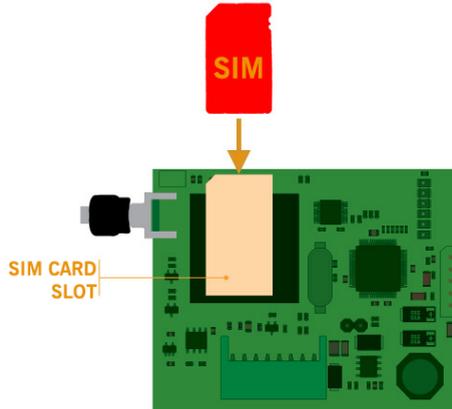See the EVOPROX user manual for protocol and channel configuration.
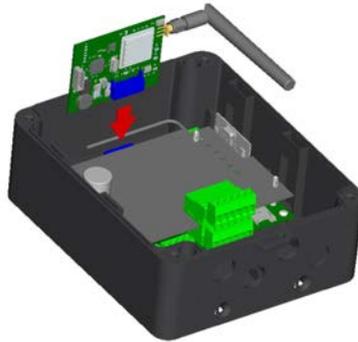
Configure with GSM-CARD and Cloud Assistant

Once the equipment is installed correctly, it must be configured:

GSM-CARD

Insert the SIM card provided with the device into the SIM card slot. Close the SIM card slot tab tightly.
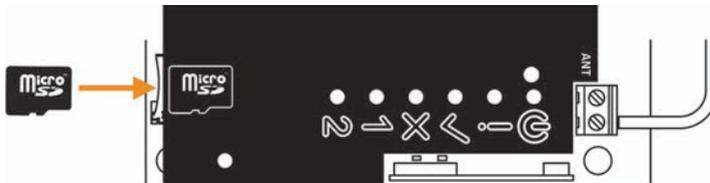

Mount the GSM card, screw the antenna and insert it into the ACCESS-5K, without power.

MicroSD memory card

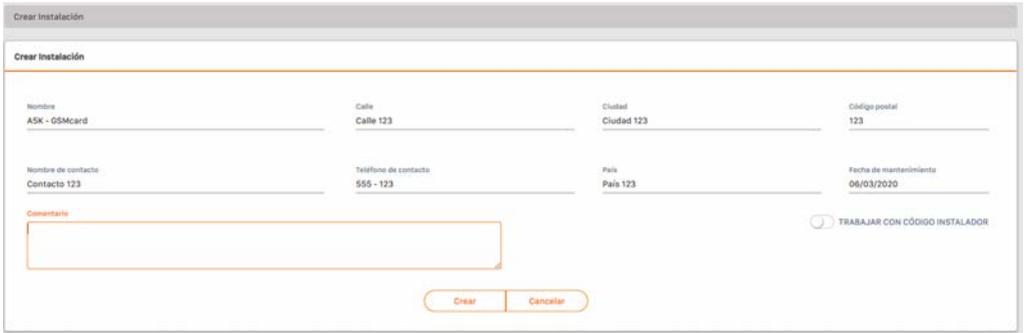Insert micro SD memory card into ACCESS-5K, without power.

Store the micro SD memory case in a safe place, as it contains the label with the data for remote management.

Cloud Assistant

1. Enter Cloud Assistant: https://cloudassistant.jcm-tech.com/Account/Login and login.
2. **Create installation** (orange button located in the lower right corner).

3. Fill the fields. **Create**.

4. **Devices** -> **Create device** (orange button located in the lower right corner).

Instalaciones				
◦ A5K - GSMcard	Calle 123	Ciudad 123		🗗 🗑 ∧

INFORMACIÓN   EQUIPOS   GRUPOS

Añada equipos a su instalación ⊕

5. Enter a name for the device and select ACCESS-5K. **Create**.

A5K - GSMcard / Crear Equipo

Crear equipo

Nombre
A5K

Dispositivo
ACCESS-5K   ▾

(Crear | Cancelar)

6. Enter the **Serial number** and **Unique key** (found in the micro SD memory case). **Save**.

N# = serial number (0000000000)

K# = unique key (1111111111)

7. **Groups** -> **Create group** (orange button located in the lower right corner).

8. Enter Name and Description. **Create**.

9. Select which channels will activate the two different relays. In the "Schedules" tab you can manage the time scheduling. **Return**.

10. On the group screen: **Enroll code** to add transmitters.

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

12. Click "Installation Name" in the upper gray bar or **Cancel** to go to installation.

Grupo 123

Nombre				Nombre de instalación			
Grupo 123				A5K - GSMcard			

Archivo

Seleccionar archivo | Ningún archivo seleccionado

Importar

Excel

		Código	▲	Tipo	⇕	Nombre	⇕	Apellido	⇕	DNI	⇕	Plaza	⇕	
☐	↩	801228		MUVEVO4		Nombre 123		Apellido 123		123		15		🗑
		🔍		▾		🔍		🔍		🔍		🔍		

Alta de código | Configurar

Guardar | Cancelar

Instalaciones

⟨ A5K - GSMcard	Calle 123	Ciudad 123	📋 🗑 ∧

INFORMACIÓN · EQUIPOS · GRUPOS

⟨ Grupo 123	✎ 🗑

𝗈⊗ ➕

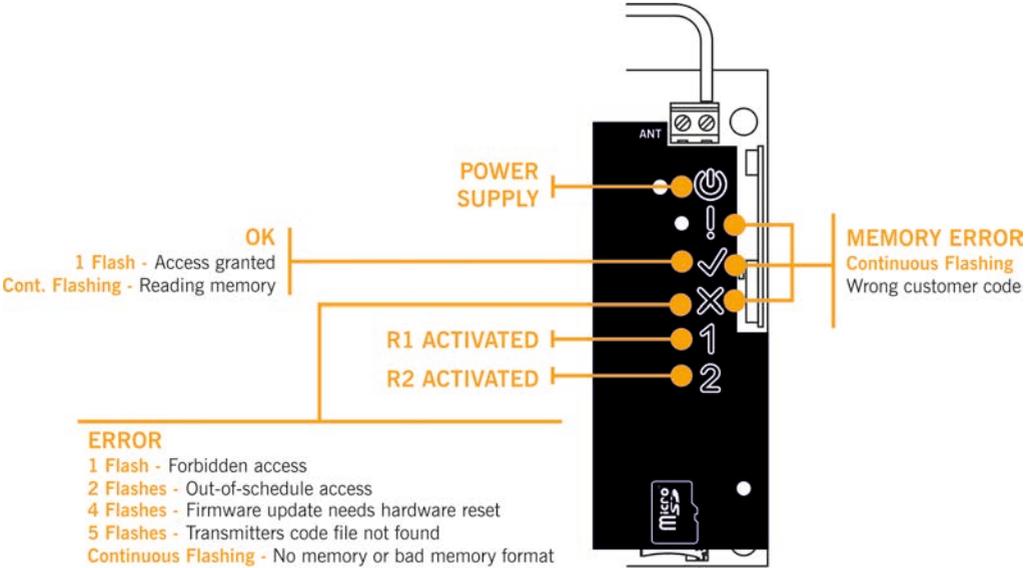13. **Devices** -> Select device -> **Remote comm.**-> **Save configuration**.

> ⚠ You need to have the Assistant equipment connected to the computer.
> Wait for "Progress" to be 100 (refresh the page).

Configure with Soft Assistant

See Soft Assistant user manual: https://www.jcm-tech.com/downloads/UM_1247016_SOFTASSISTANT_EN.pdf and the ACCESS-5K annex https://www.jcm-tech.com/downloads/UMA_3200280_ACCESS5K_EN.pdf

ACCESS-5K: LED Indicators

POWER
SUPPLY

OK
1 Flash - Access granted
Cont. Flashing - Reading memory

MEMORY ERROR
Continuous Flashing
Wrong customer code

R1 ACTIVATED
R2 ACTIVATED

ERROR
1 Flash - Forbidden access
2 Flashes - Out-of-schedule access
4 Flashes - Firmware update needs hardware reset
5 Flashes - Transmitters code file not found
Continuous Flashing - No memory or bad memory format

GSM-CARD: LED indicators

GSM LEDs

GOOD	🟢	Good coverage. Optimum data transfer
POOR	🟠	Weak coverage, but sufficient for data transfer
BAD	🔴	Unstable coverage or no connection. We recommend you not use the device in this status, as there may be errors

GOOD
POOR
BAD
COVERAGE
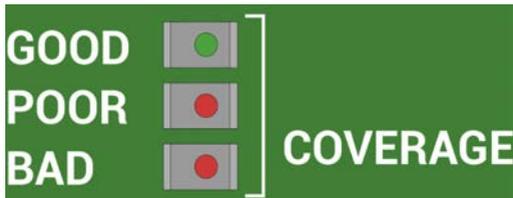
When led indicator is bad, it is recommended to use a 3 meters long GSM antenna extension cable.

Communication LEDs

TX	Lit during data transmission

Operation LEDs

OK	System working correctly (flashing=in process)
ALARM	Use of backup GSM frequency (850 MHz)
ERROR	System error
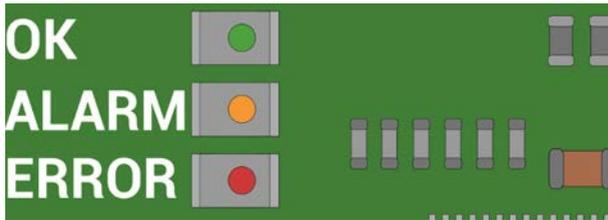
ERROR LED

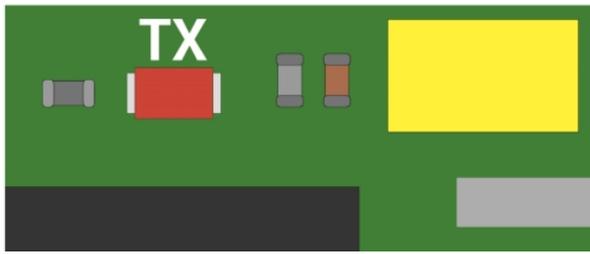| Number of flashes	Error type	Action required
1	Module initialisation	Wait for the initialization to be completed
2	SIM card not detected	Check SIM card insertion
3	Incorrect PIN	Modify communication settings in SoftAssistant
4	SIM card locked	Unlock SIM card (for example, with a free mobile)
5	No communication	Review GSM antenna connection (see GSM leds)
6	Adjustments not valid	Check Unique Key and APN in SoftAssistant
7	Server not detected	Contact M2M service provider

Maintenance

Firmware update

Steps to update the firmware in the ACCESS-5K:

- Insert the SD memory in your computer.
- COPY FILE ACCESS5K_AABBCCDD_bin.a5k (AABBCCDD = version) to the uSD memory.
- RENAME FILE copied in the SD to bin.a5k.
- Extract the SD memory from the computer.
- Power off your ACCESS-5K.
- Insert the SD memory in your ACCESS-5K.
- Power on your ACCESS-5K.
- If the OK led flashes fast, slowly and then fast once again. Then:
  - The update has finished properly.
  - The bin.a5k file has been deleted from SD memory.
- If the ERROR led keeps flashing slowly, an error has occurred:
  - Check the file in the SD memory.
  - Delete the firmware file manually in order to allow the device to boot normally.

> (!) **You can also check the current APP version in generated A5KInfo.txt file in SD memory.**

Replacement of the cell battery

In case the ACCESS-5K events lose the date, the button cell battery CR2032 must be changed.

FAQs: ACCESS 5K

Q: How many users can Access 5k unit handle?
A: Up to 5000 users.

Q: How many codes can be added manually?
A: Codes cannot be added manually, they can only be added using Cloud Assistant or SoftAssistant.

Q: Can the unit be blocked so that no one can delete or program more transmitters?
A: It is not necessary to block the unit as the codes can only be managed with the Cloud Assistant or SoftAssistant.

Q: Can any Cloud Assistant or SoftAssistant read the configuration of my unit?
A: ACCESS-5K can be protected through the customer code and the password.

Q: How can the events be read?
A: Remotely and locally with Cloud Assistant or SoftAssistant

Q: Can we power the unit at 230 V?
A: No, we can only supply low voltage, 12/24 Vac / dc.

Q: How many relay outputs does the unit have?
A: It has 2 relay outputs.

Q: Are the relays potential free?
A: Yes, also the relays can be used to switch power to an electric lock, for example.

Q: Which sort of readers can be connected?
A: It has 2 relays outputs.

Q: How can I know there is an error if the door does not open?
A: See Verification -> ACCESS-5K: LED Indicators

FAQs: GSM-Card

Q: Can I use any SIM card, for example the one I have on my phone?
A: No you cannot. It only works with bidirectional M2M SIMs from approved operators and specifically configured.

Q: With the serial number that appears on the label, can you access your ACCESS-5K through any SoftAssistant?
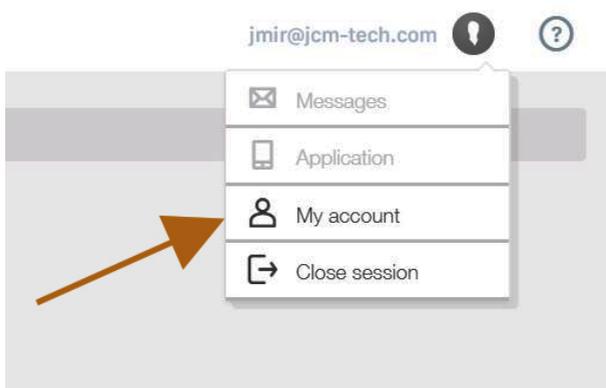A: No, you cannot. In addition to the serial number, it is also required the unique key to connect remotely.

Q: If I have the ACCESS-5K installed, will it work remotely only by plugging in a GSM-CARD?
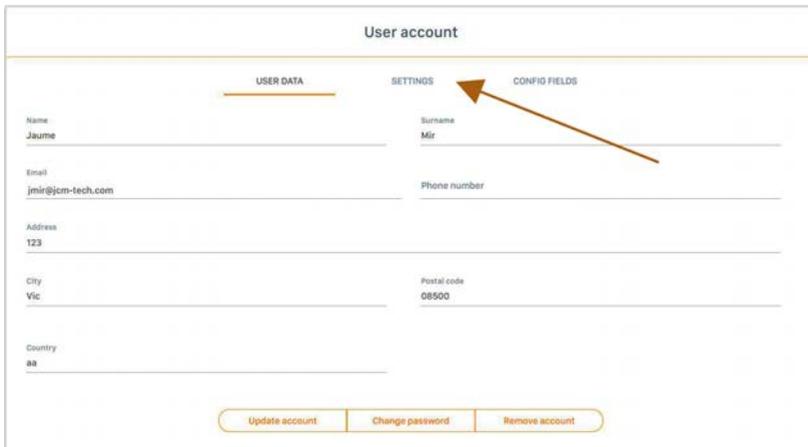A: Yes, the card is configured by default with the communication parameters of the approved operator.

Connect Assistant to Cloud Assistant
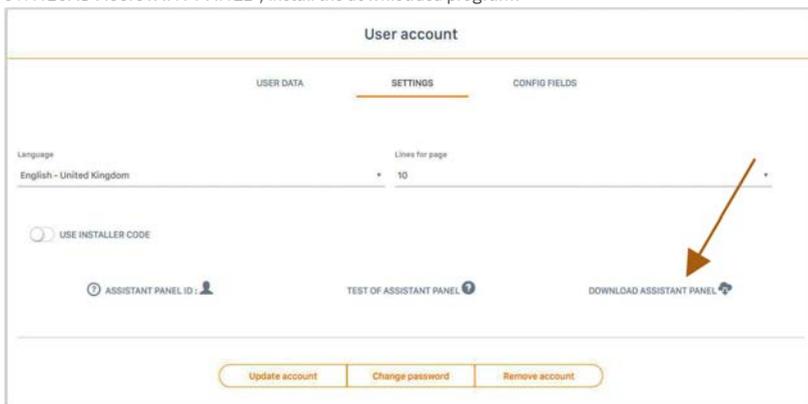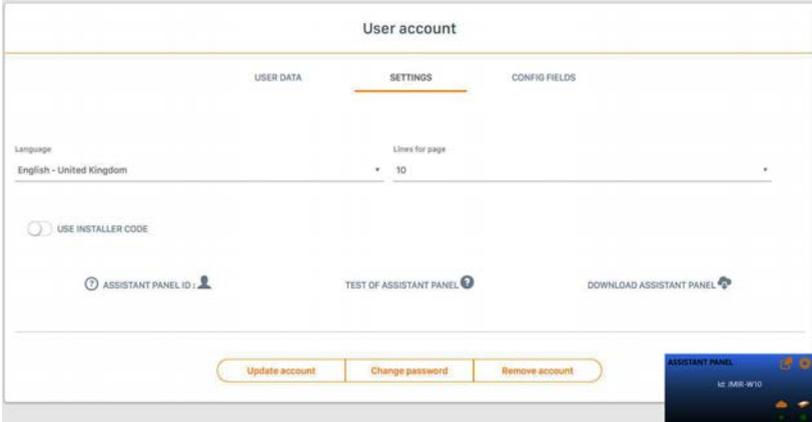
1. Go to "My Account"

2. "SETTINGS"

3. "DOWNLOAD ASSISTANT PANEL", install the downloaded program.

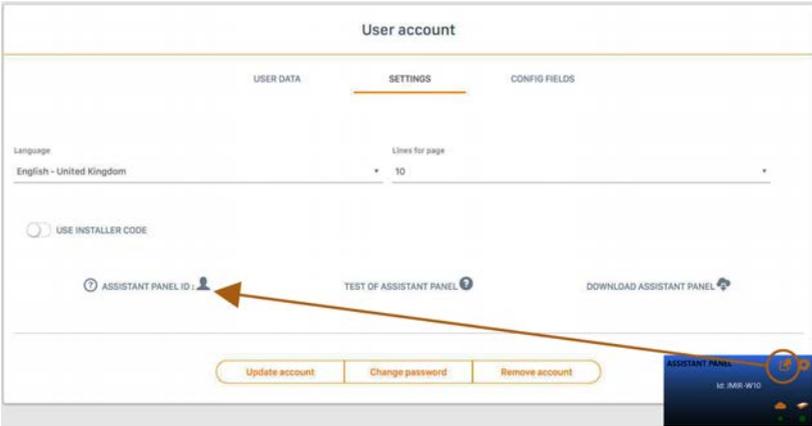4. The program installs in the toolbar..

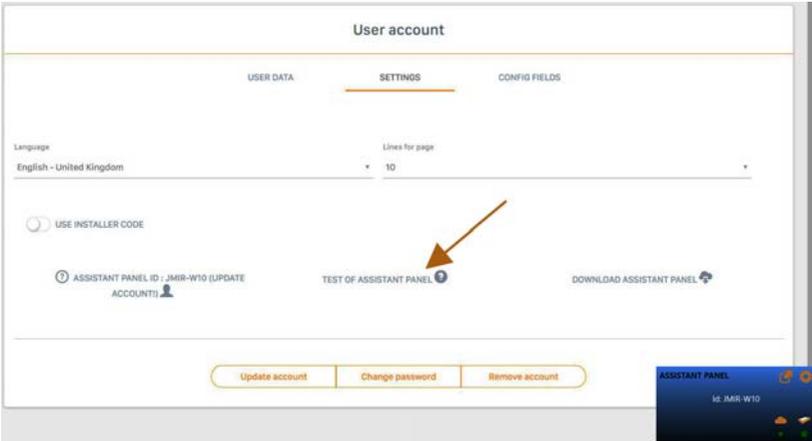5. Connect the ASSISTANT to the computer.

> **If both LED lights are green, it has been properly connected. Otherwise, check the previous steps.**
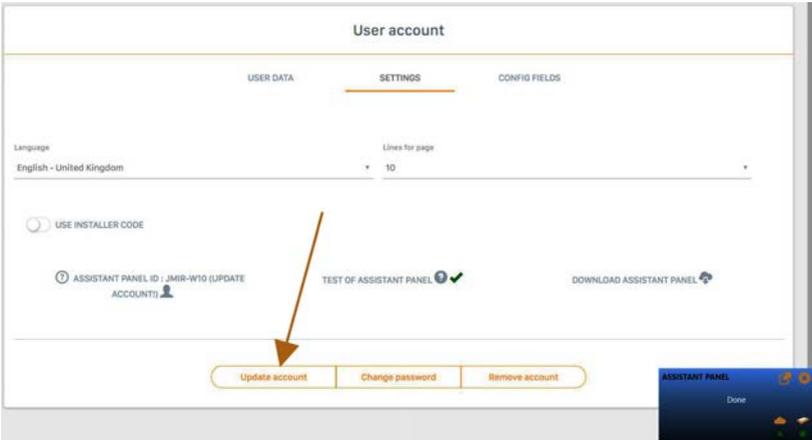
6. Drag the selected icon to "ASSISTANT PANEL ID:"

7. "TEST OF ASSISTANT PANEL"

8. "Update account"

Technical Data

Technical Data: ACCESS-5K

Parameter	Value
Power Supply	12 / 24V dc/ac
Standby / operating consumption	<50 mA / 100 mA
Maximum power consumption	5W
Relay power (R1 / R2)	3A
Operating temperature	-20ºC … +55ºC
Size	180 x 150 x 85 mm
IP Rating	IP65
Motion Frequency	868 MHz
Motion Codification	

Technical Data: GSM-CARD

Parameter	Value
Power supply	12V dc
Standby / Op. consumption	<500 mA
Maximum power absorbed	6W
Operating temperature	-20ºC … +55ºC
Size (without antenna)	77 x 52 x 10 mm
Radiated power	EGSM 850 / 900 / 1800 / 1900 MHz

Regulatory Data

EU Declaration of conformity

The manufacturer **JCM TECHNOLOGIES, S.A.** declares that the product **ACCESS-5K & GSM-CARD** complies with the relevant fundamental requirements of the RED Directive 2014/53/EU and of the RoHS Directive 2011/65/EU.

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

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