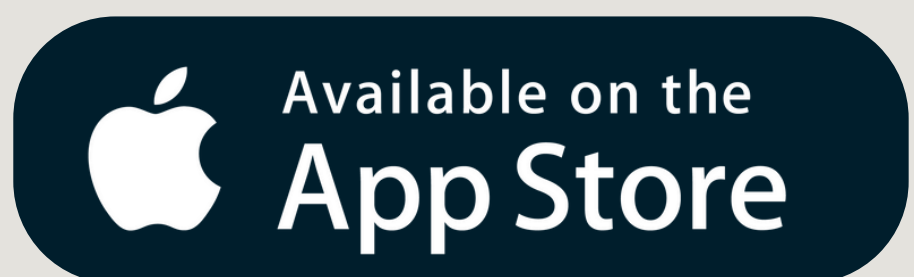


MANUAL STRUGAL HOME

User manual for the Gateway
and the App for Smartphone
and Tablet dedicated to
STRUGALHOME



To operate the
STRUGALHOME
Gateway controller,
you need to install the
STRUGALHOME app
on your smartphone
or tablet.



INDEX:

- GATEWAY** 3
 - Description of the device 4
 - Connecting the Gateway 5
 - Status LED indicator 5
 - Turning on the Gateway 6
 - Turning off the Gateway 6
- APP STRUGALHOME** 7
 - App for Smartphone and Tablet dedicated to the STRUGALHOME Gateway 7
 - Registration and first access to the Gateway 8
 - Local access 10
 - Profile storage 11
 - New user registration 12
 - Description of the main screen 14
- Z-WAVE DEVICE** 16
 - Inclusion of a Z-Wave device 16
 - Exclusion of a Z-Wave device 19
- DEVICE NETWORK RADIO 433** 21
 - Associate a new device 23
 - Associate from a sender 24
 - Associate with a sender 25
 - Unpair device 26
 - Delete icon 26
- SMART MANAGEMENT** 27
- FACTORY SETTINGS** 28
- BACKUP AND RESTORATION** 30
- ACTUALIZACIÓN DESDE USB** 32





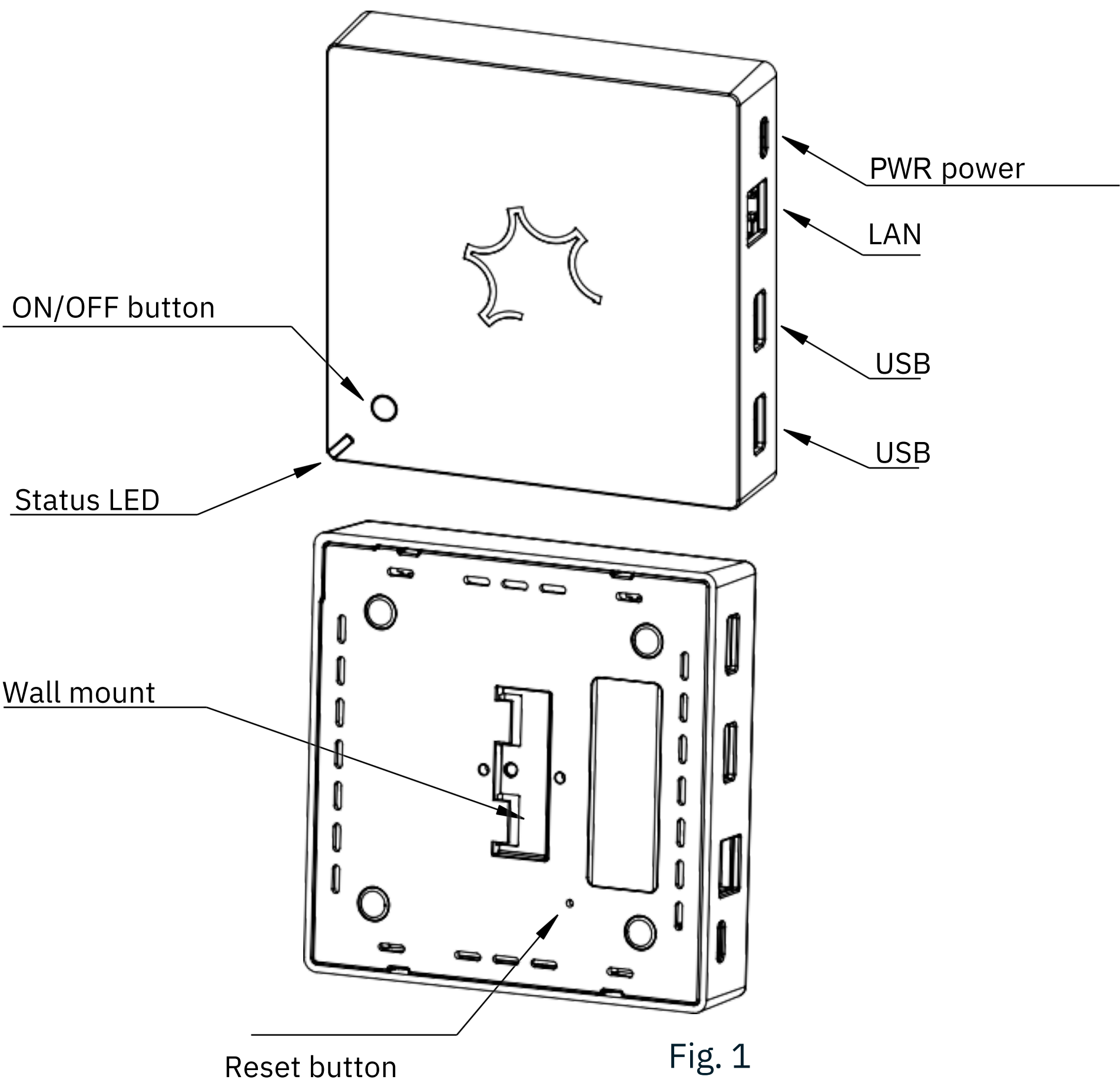
GATEWAY

ESPECIFICACIONES TÉCNICAS

- Fuente de alimentación	5 VDC
- Límite de temperatura del sistema	105 °C
- Temperatura de funcionamiento	Desde -10 °C a 40 °C
- Frecuencia de radio Z-Wave	868,4 MHz (Europa)
- Sistema de seguridad (Z-Wave)	Seguridad S0 y S2
- Distancia máxima (Z-Wave)	Hasta 100 m en exteriores Hasta 40 m en interiores
- Cumplimiento	CE, RoHS
- Grado de protección	IP 20

DESCRIPTION OF THE DEVICE

Description of the device The STRUGALHOME Gateway is a home automation controller designed to control Z-Wave devices from any manufacturer and also allows tubular motors to be controlled via radio. The STRUGALHOME Gateway allows control of various domestic products such as lights, electrical loads, blinds, etc., which communicate via the Z-Wave protocol or 433 radio.



CONNECTION OF THE GATEWAY

First, connect the device to the LAN socket using the Ethernet cable (RJ45) and then connect it to the mains using its power supply. Once connected to the mains, the Gateway will turn on. The Gateway's start-up phases are indicated by the status LED.

LED STATUS INDICATOR

The system includes an RGB LED that shows the status of the device during installation:

- Intense YELLOW: system in start-up phase
- Light GREEN: end of start-up.
- Flashing GREEN: system started and usable
- GREEN-BLUE sequence: Z-Wave inclusion procedure in progress.
- RED-BLUE sequence: Z-Wave exclusion procedure in progress.
- GREEN-RED flashing: update via USB memory stick.
- Fast RED-GREEN-BLUE flashing: update/reset phase in progress.



GATEWAY **ON**

The Gateway turns on as soon as it has a power supply.

If it had previously been turned off with the Gateway's ON/OFF button, it is turned on by holding down the ON/OFF button for approximately one second. The LED will light up YELLOW. After the start-up procedure, the LED will light up light green, then GREEN, and after a few moments it will start to flash GREEN every 5 seconds, indicating that the system is fully up and running and that it is possible to connect to the Gateway through the app.

GATEWAY **OFF**

Press and hold the ON/OFF button on the gateway for approximately 4 seconds until the RED LED lights up.

APP STRUGAL HOME

To operate the
STRUGALHOME Gateway
controller you need to install
the STRUGALHOME app on
your Smartphone or Tablet



GET IT ON
Google Play



Available on the
App Store



REGISTRATION AND FIRST ACCESS

Once the app has been downloaded, it is necessary to log in for the first time using a mobile phone or tablet connected to the same LAN network to which the gateway is connected.

The default access credentials are as follows:

- User: user
- Password: smarthome

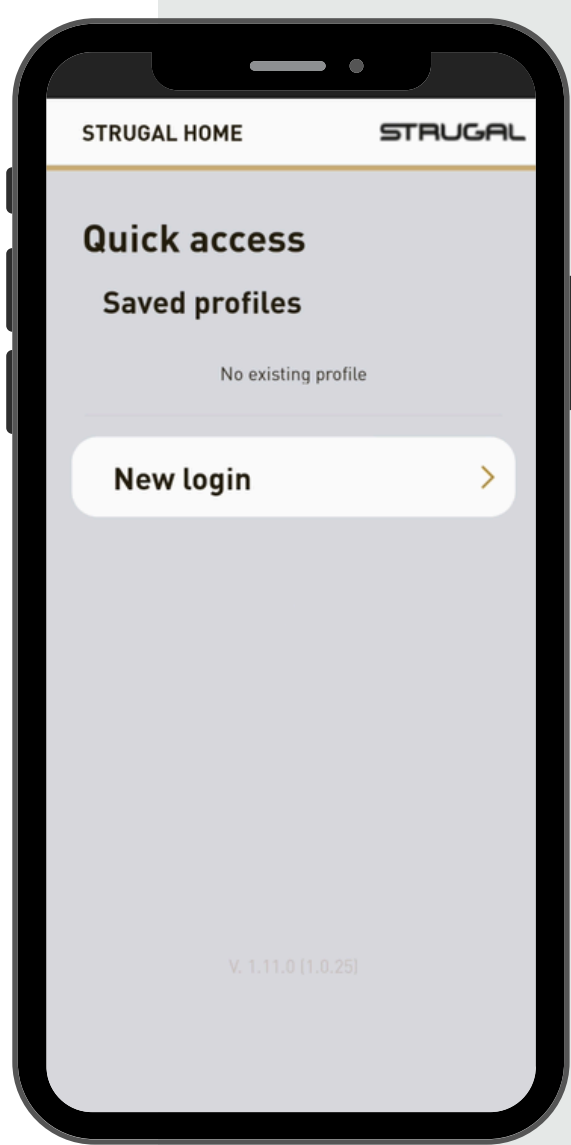


Fig. 2

At the end of the first registration you will be asked to personalize your password.

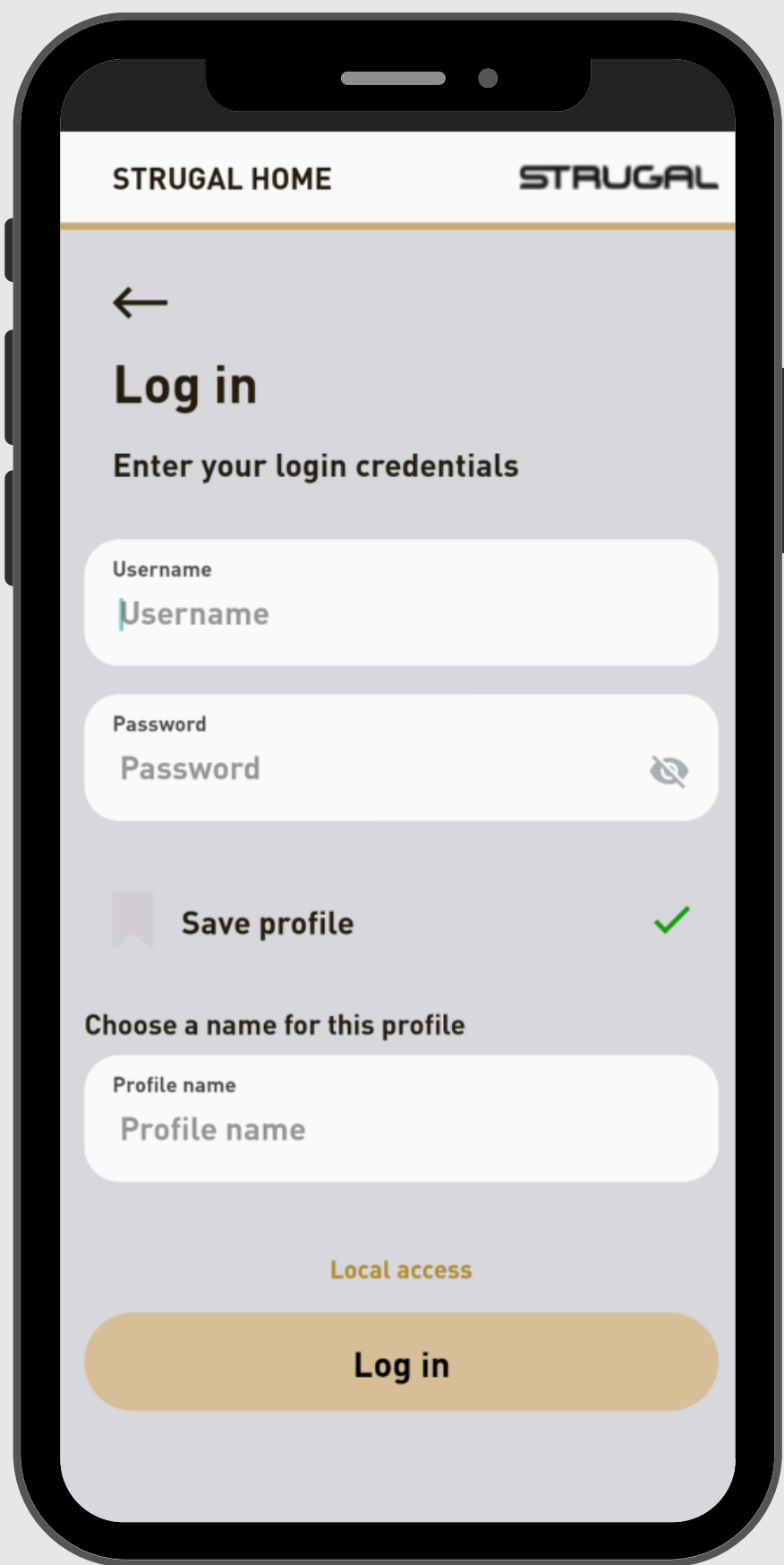


Fig. 3



After entering the default credentials and clicking on the “Access” button (fig. 3), the application will wait for about 10 seconds (fig. 4), during which time you must click on the ON/OFF button on the Gateway to accept the connection.

The LED will start to flash rapidly in BLUE and once the connection has been confirmed it will turn GREEN. It will then return to flashing GREEN every 5 seconds.

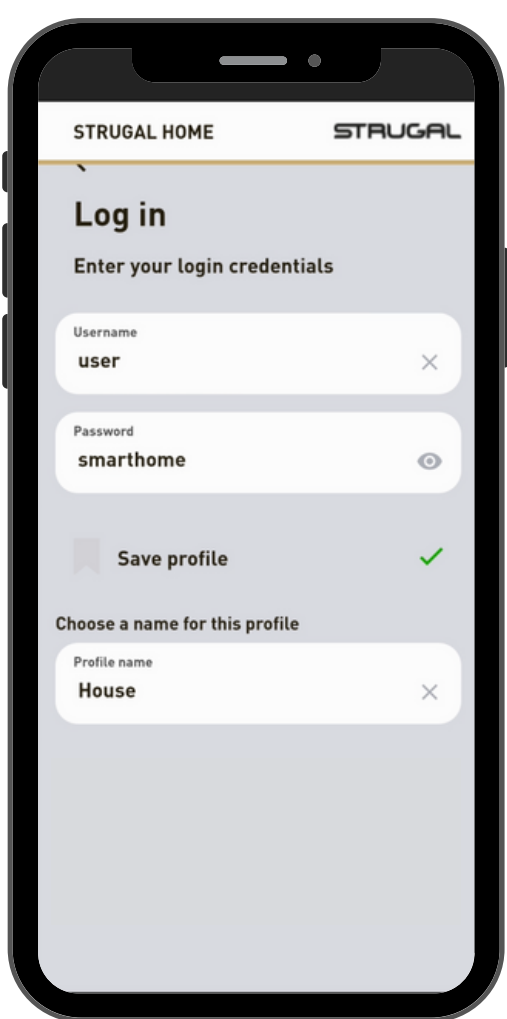


Fig. 4

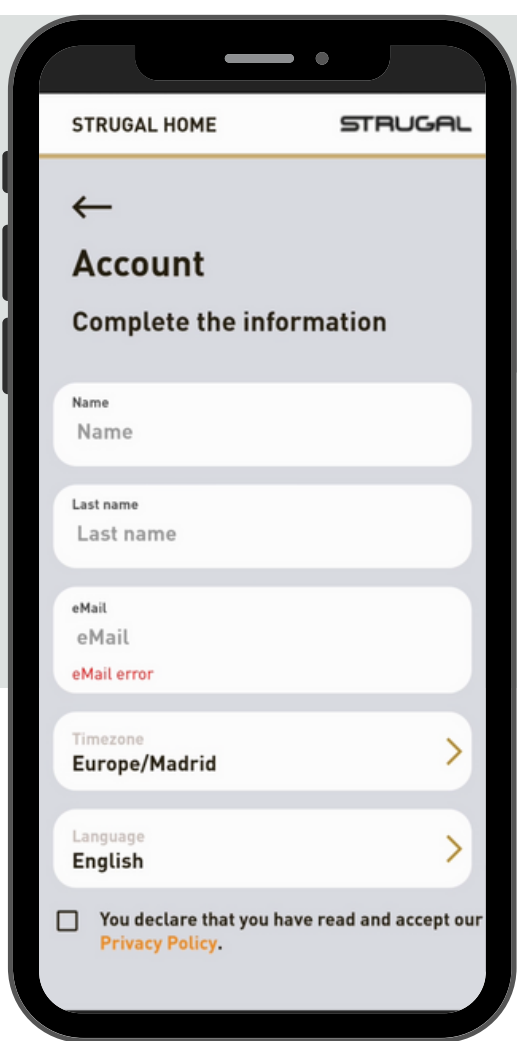


Fig. 5

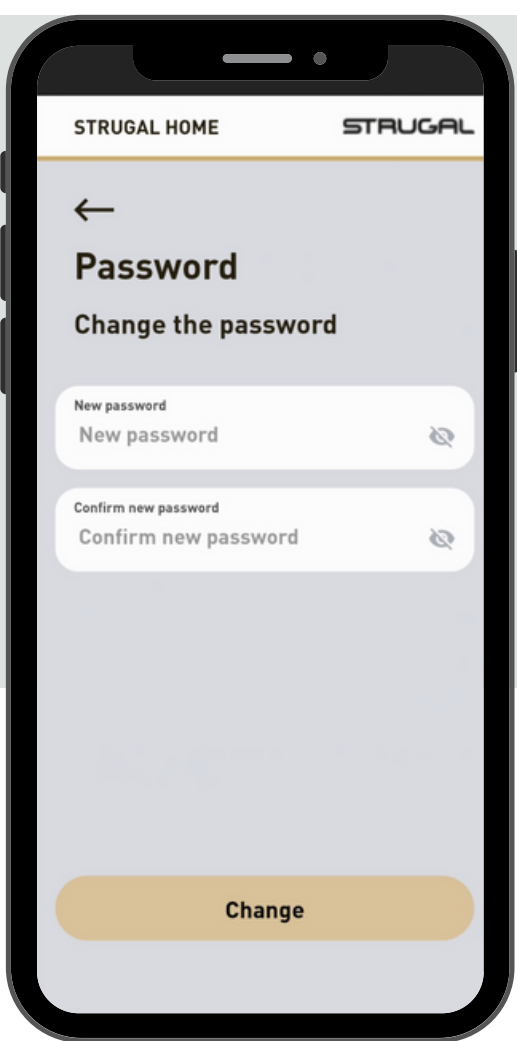


Fig. 6

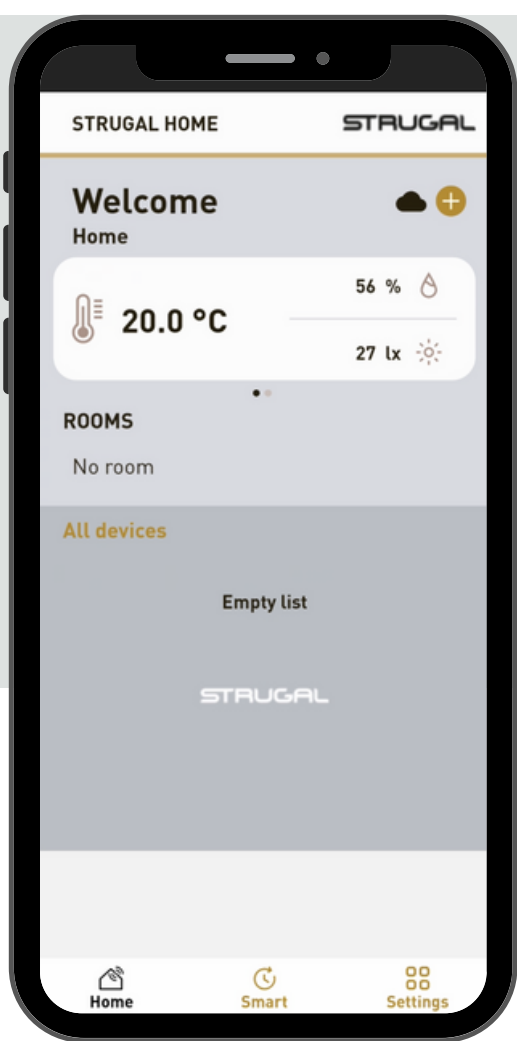


Fig. 7

If the connection is not established within 60 seconds, the LED will flash quickly in RED and will flash again in GREEN every 5 seconds. At this point, you will be asked to register your details (fig. 5) and to change your password (fig. 6), and then you will go directly to the main screen (fig. 7).

LOCAL ACCESS

If the LAN does not have Internet access, it is possible to connect to the Gateway via local access.

By clicking on “Local access” (fig. 9) you can choose to access the Gateway directly through the local LAN.

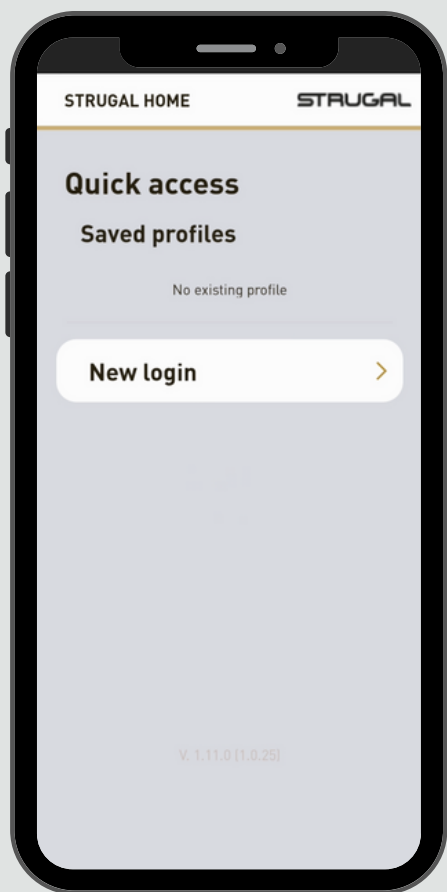


Fig. 8

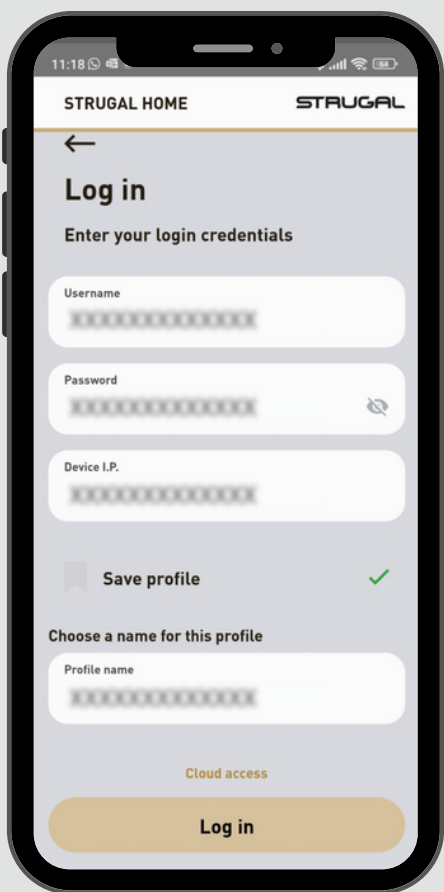


Fig. 11

The IP address assigned to the gateway must be specified (fig. 10-11). The gateway IP will be that of the WS2G gateway device among the devices connected to the router.

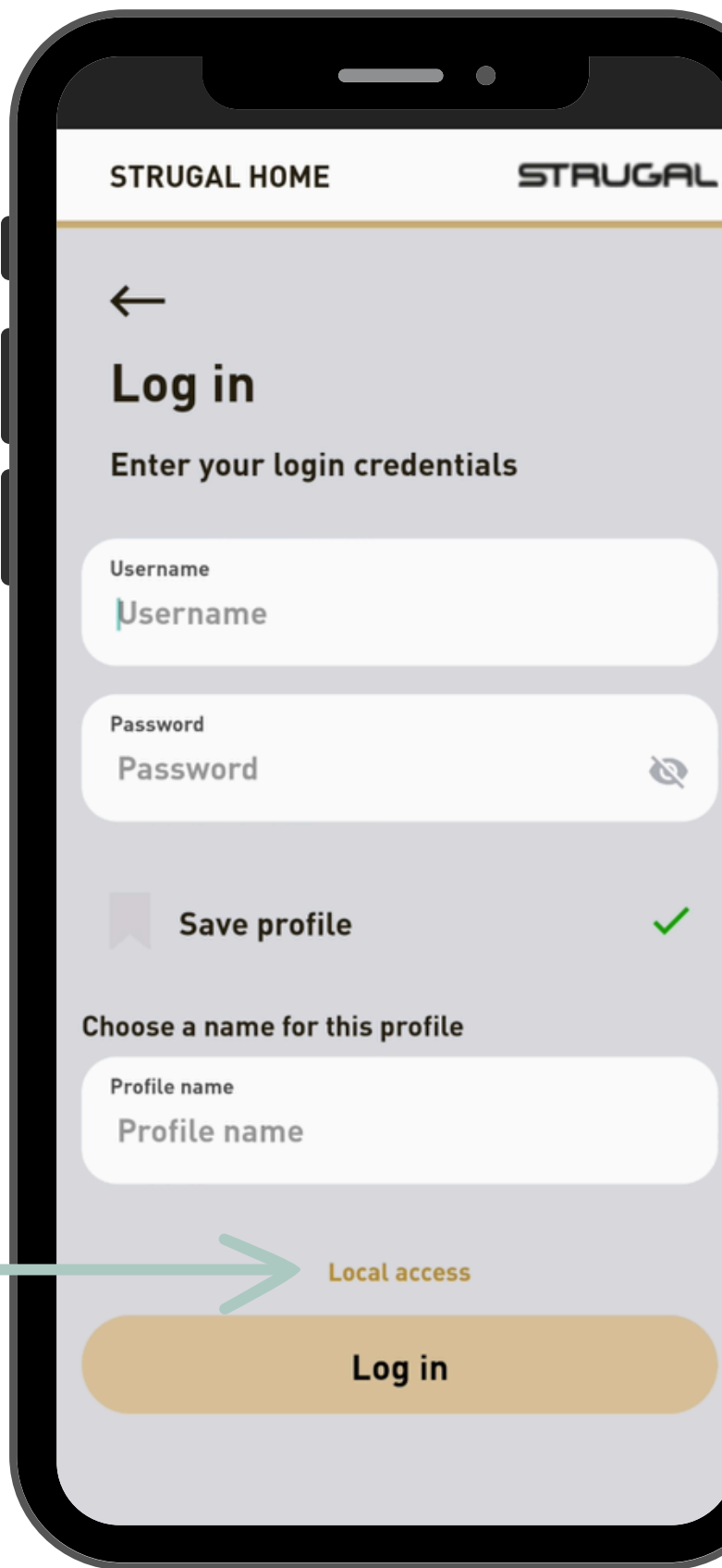


Fig. 9

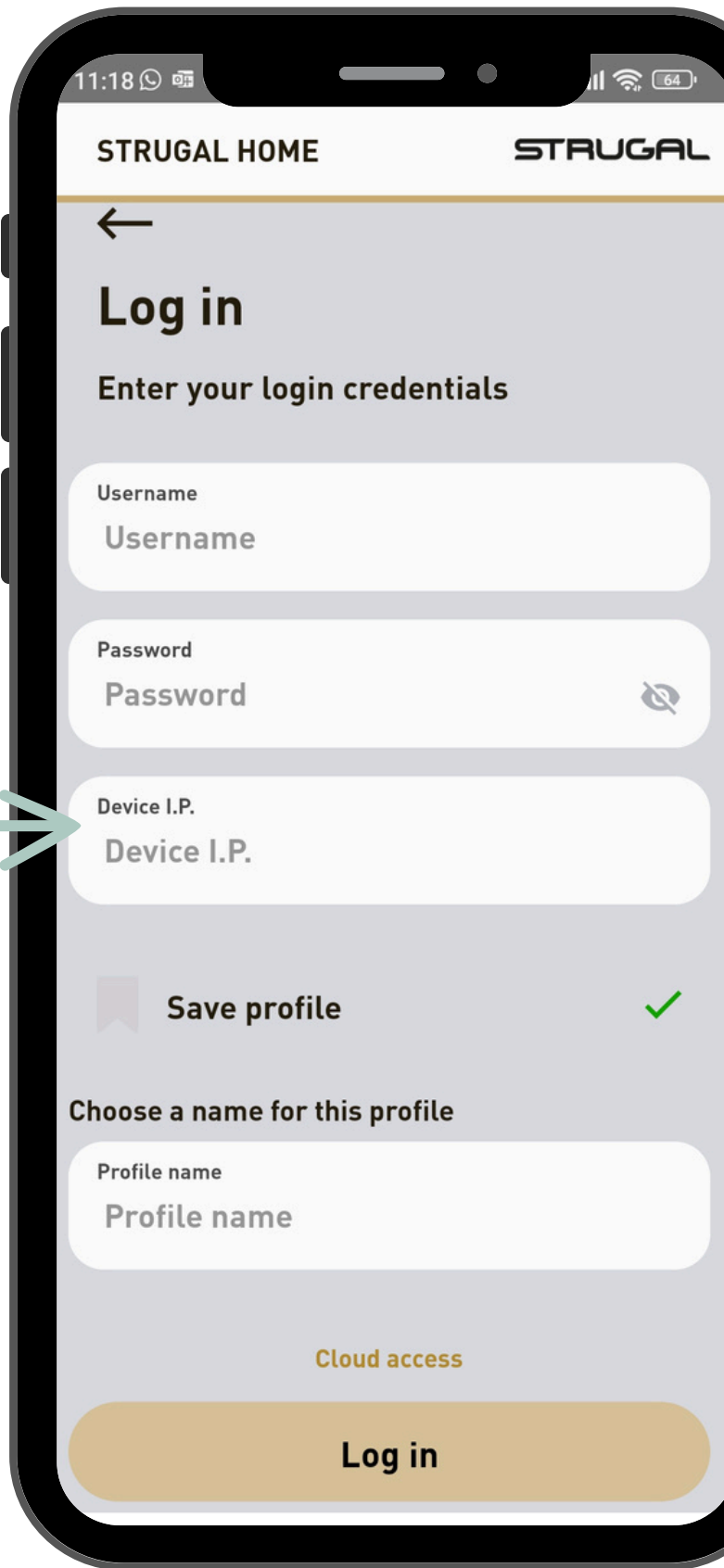


Fig. 10

PROFILE STORAGE

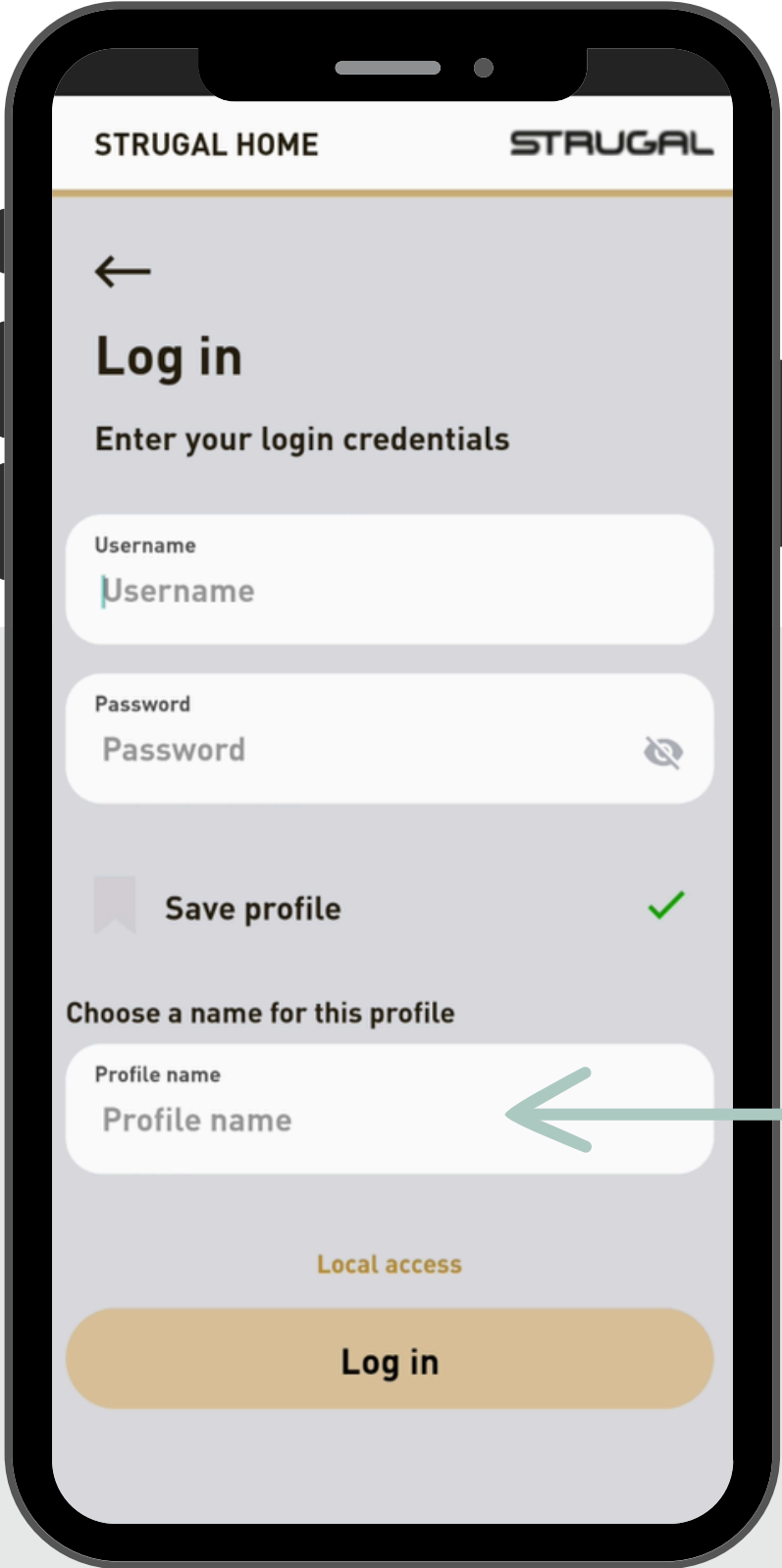


Fig. 12

During the initial registration phase and during subsequent logins, it is possible to save the profile by checking the “Save profile” box. (fig. 12)

Next, an additional field will appear in which you can enter the name of the profile.

In subsequent logins, the name of the profile created will appear on the quick access screen (fig. 13 - User system).

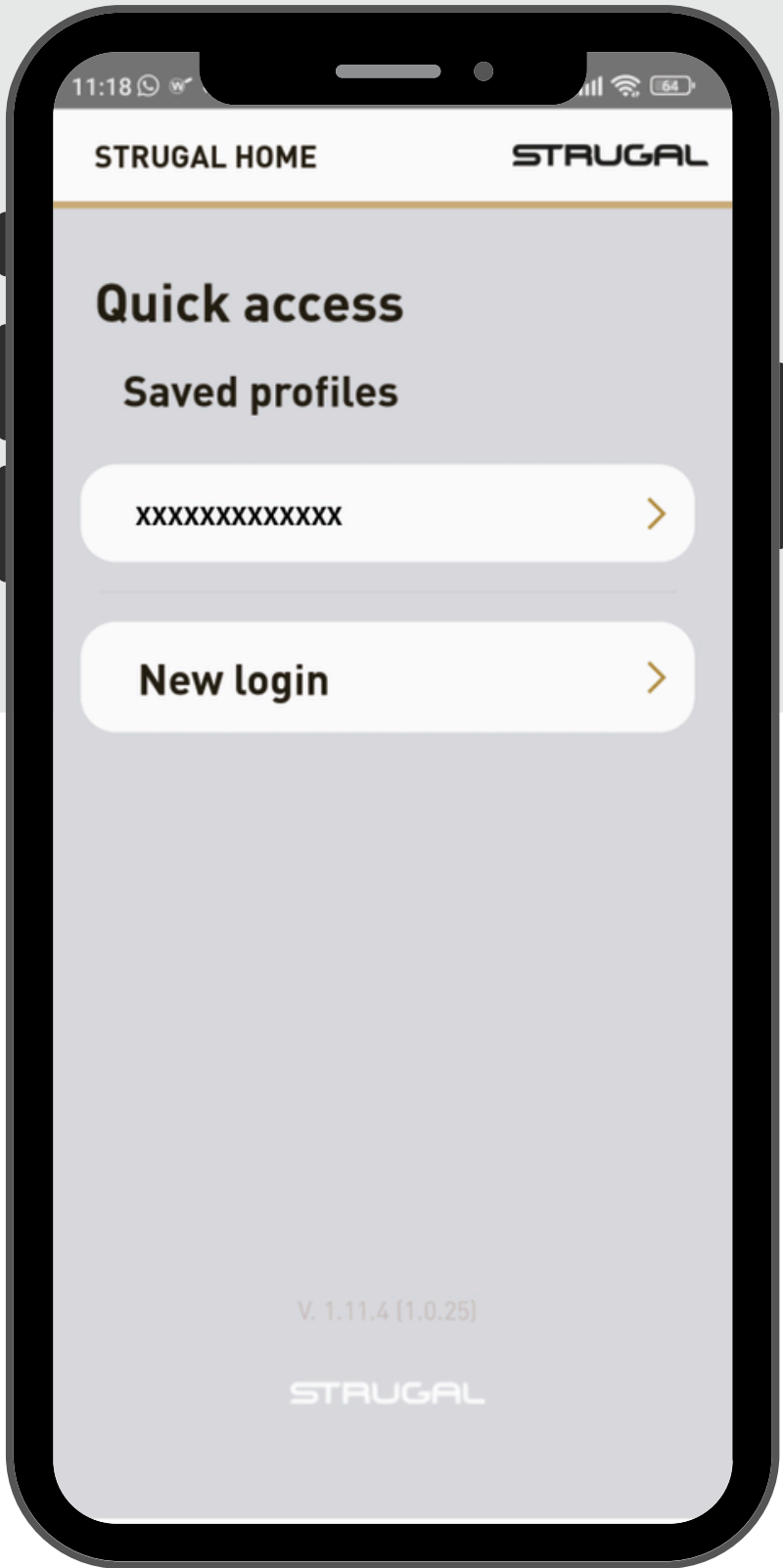


Fig. 13

NEW USER REGISTRATION

⚙️ Ajustes

Once the previous steps have been completed, if you want to add new users so that they can also manage the Gateway’s controllers, you need to access the “Settings” page in the lower menu and click on “Add new profile” (fig. 14).



Fig. 14

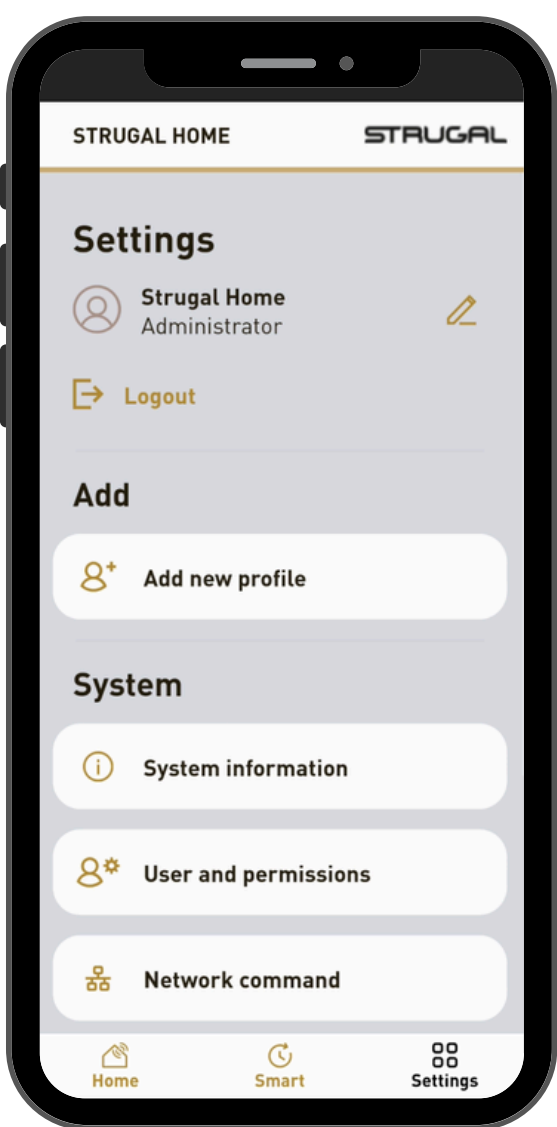


Fig. 15

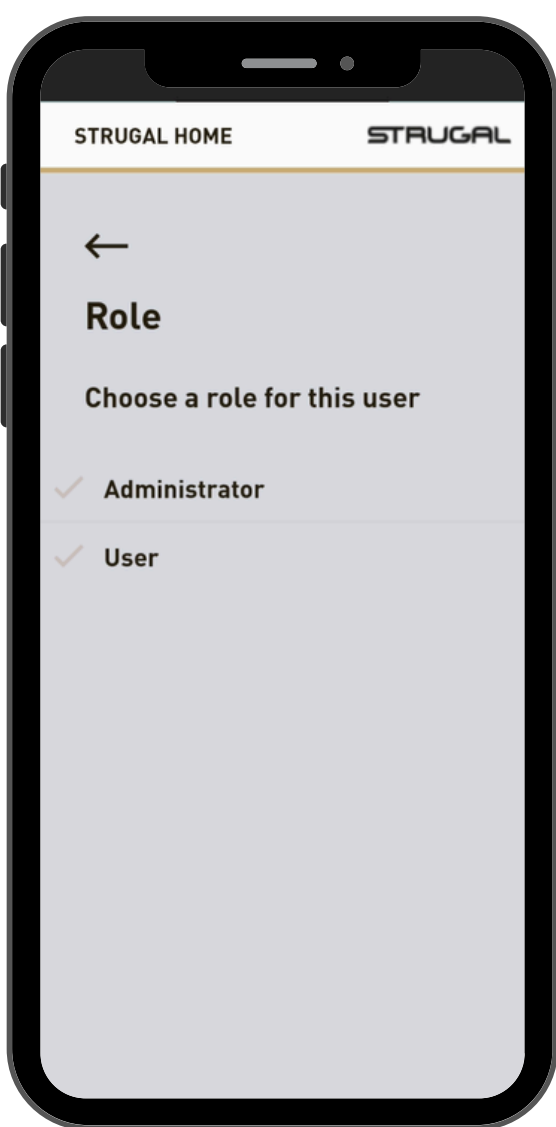
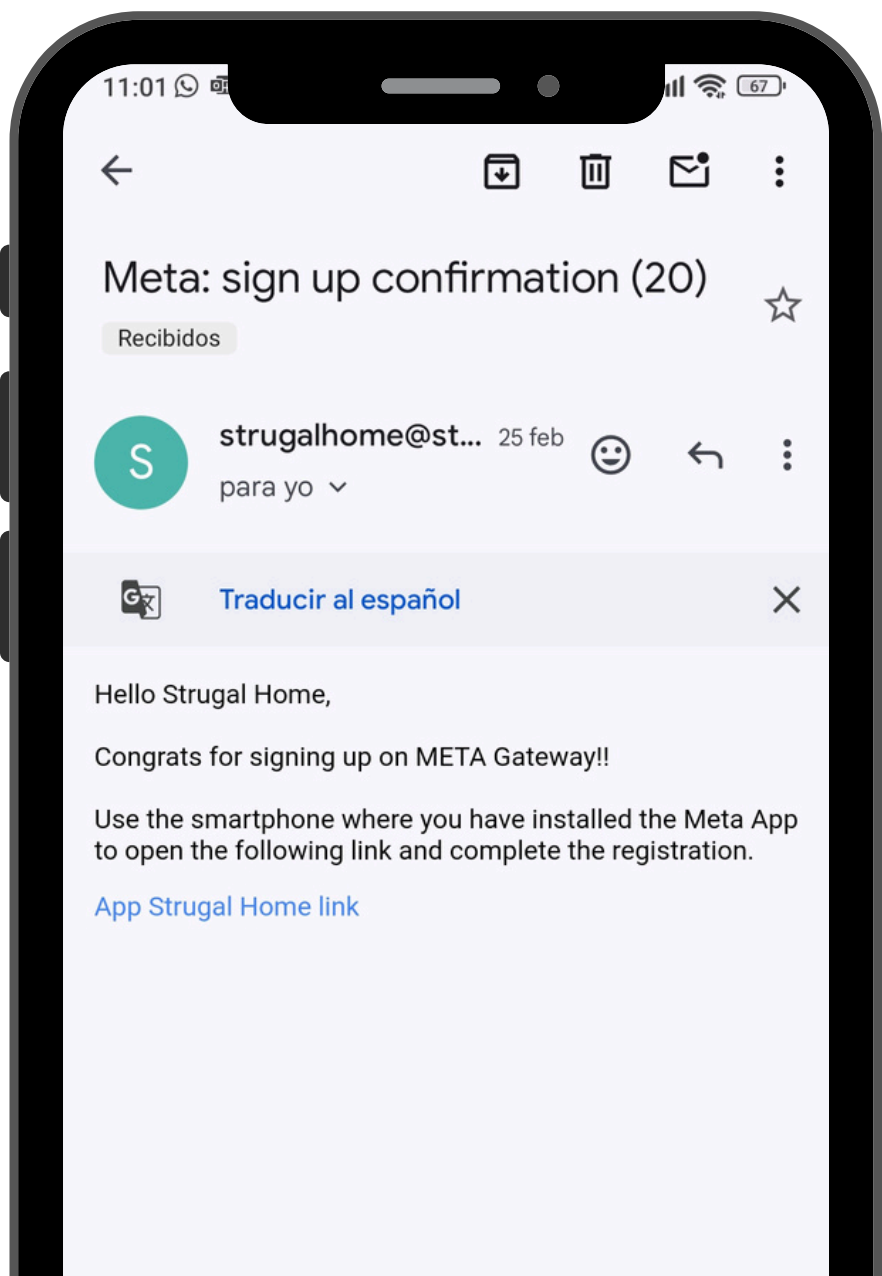


Fig. 16

Then assign a role to the new user and fill in the requested information (fig. 15-16).

Don't forget to include the recipient's email address, as they will need to click on the link they receive in that email to complete the registration.



Once in the application, new users should select “New login” to save their profile name and access the session (fig. 18-19).

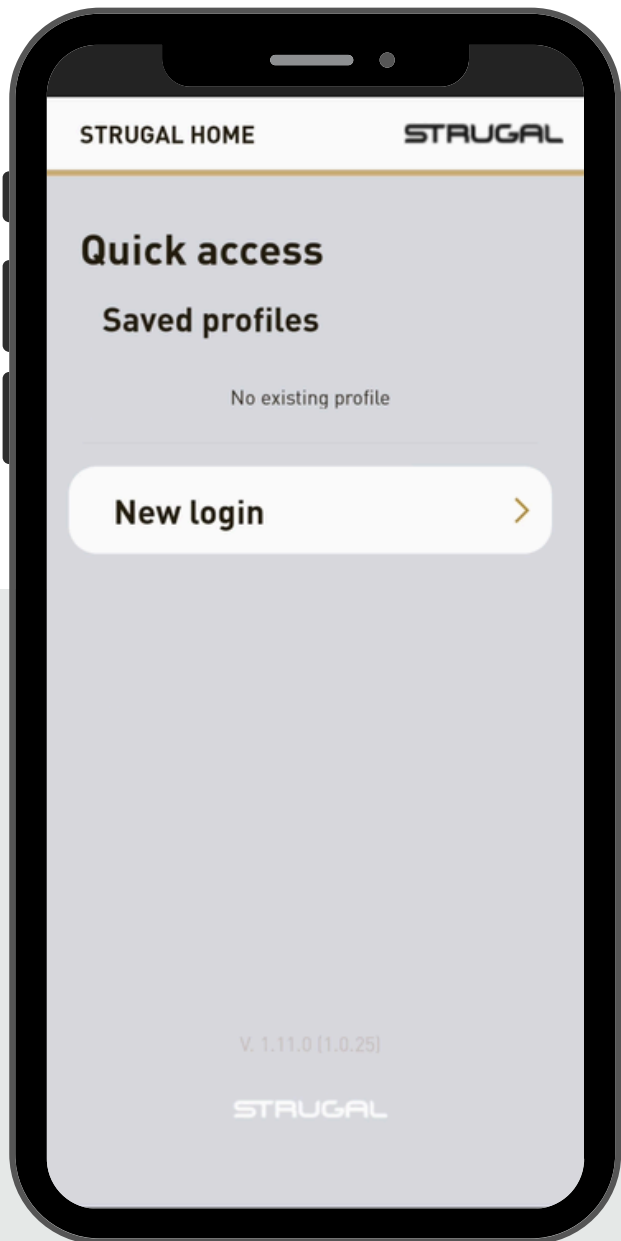


Fig. 18

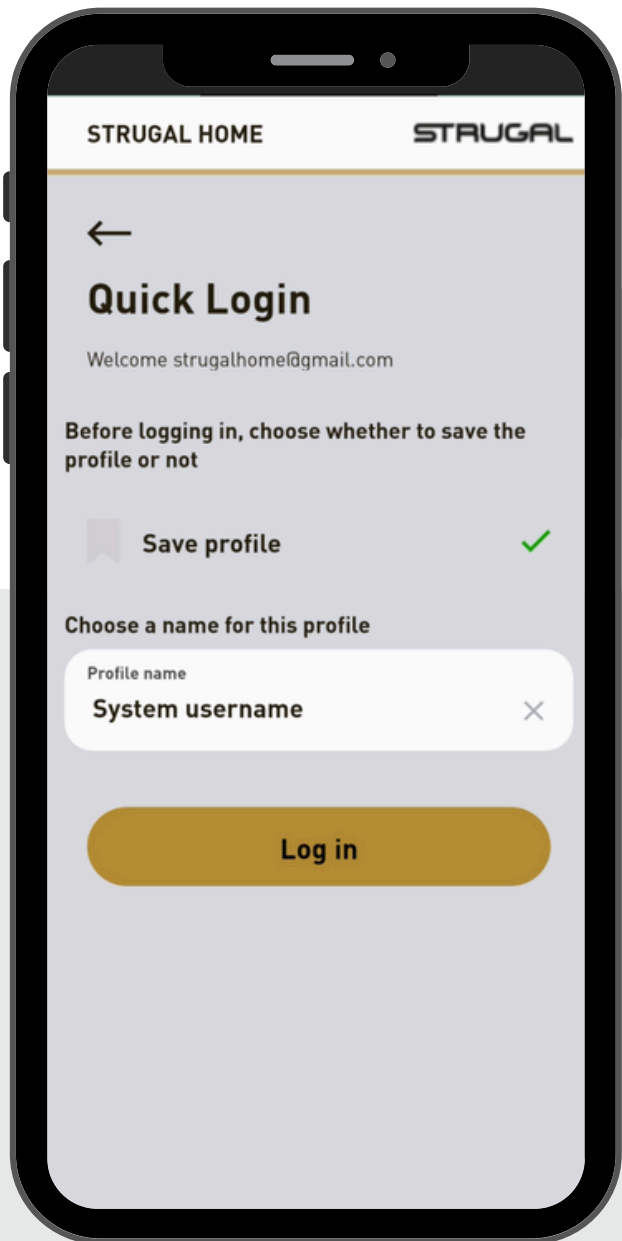


Fig. 19

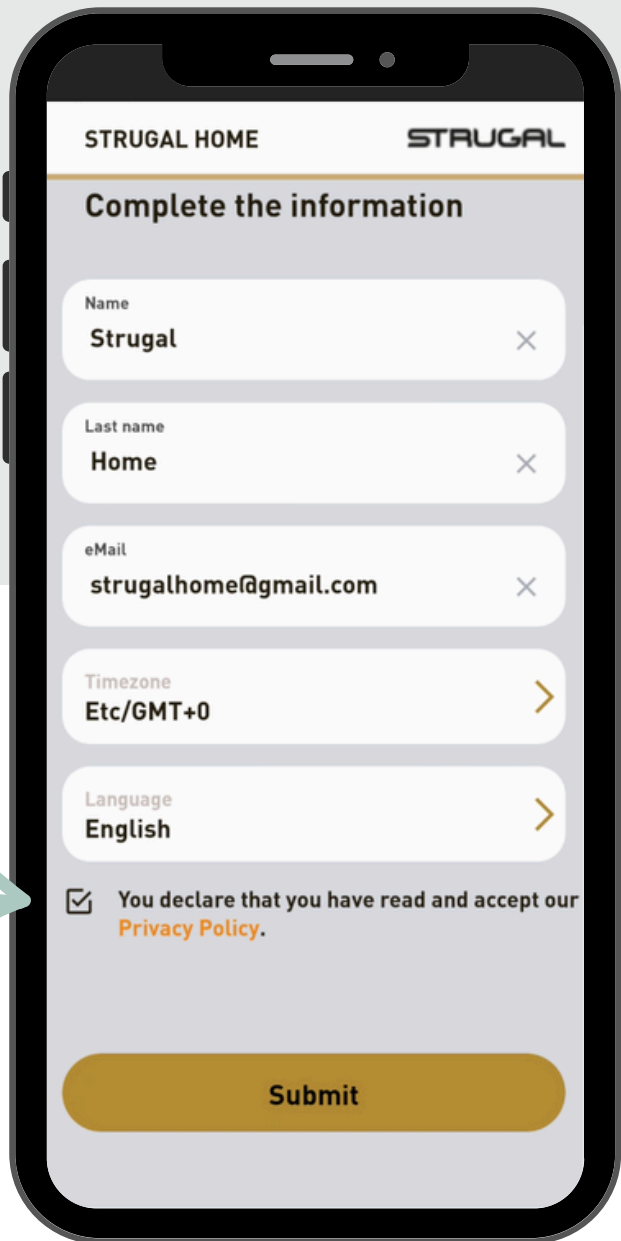


Fig. 20

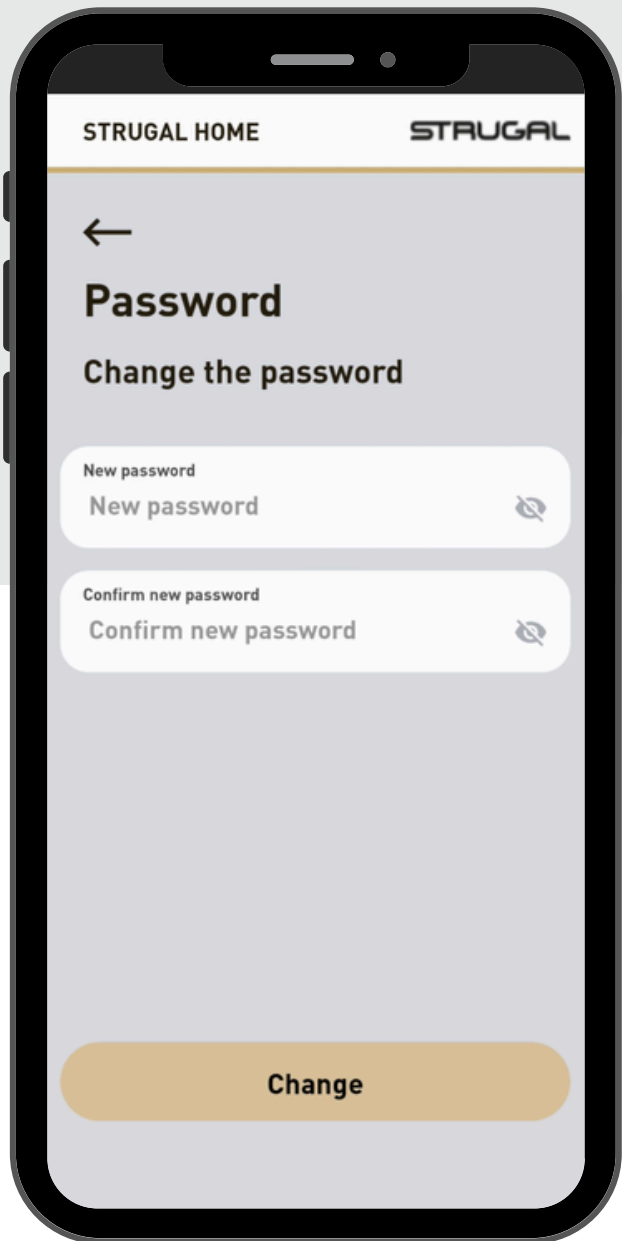
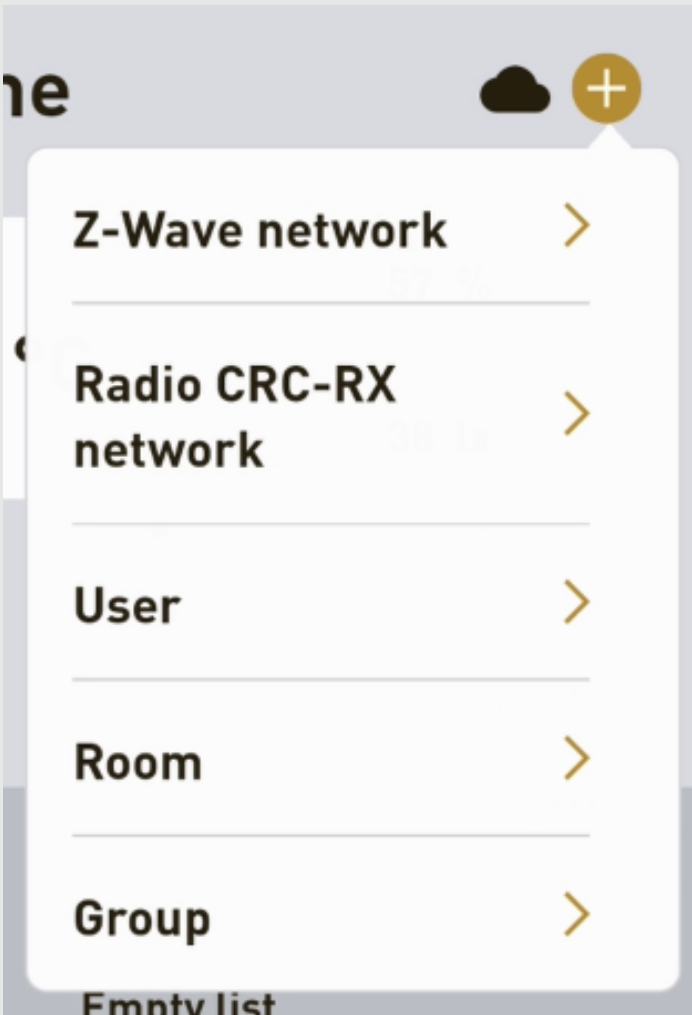
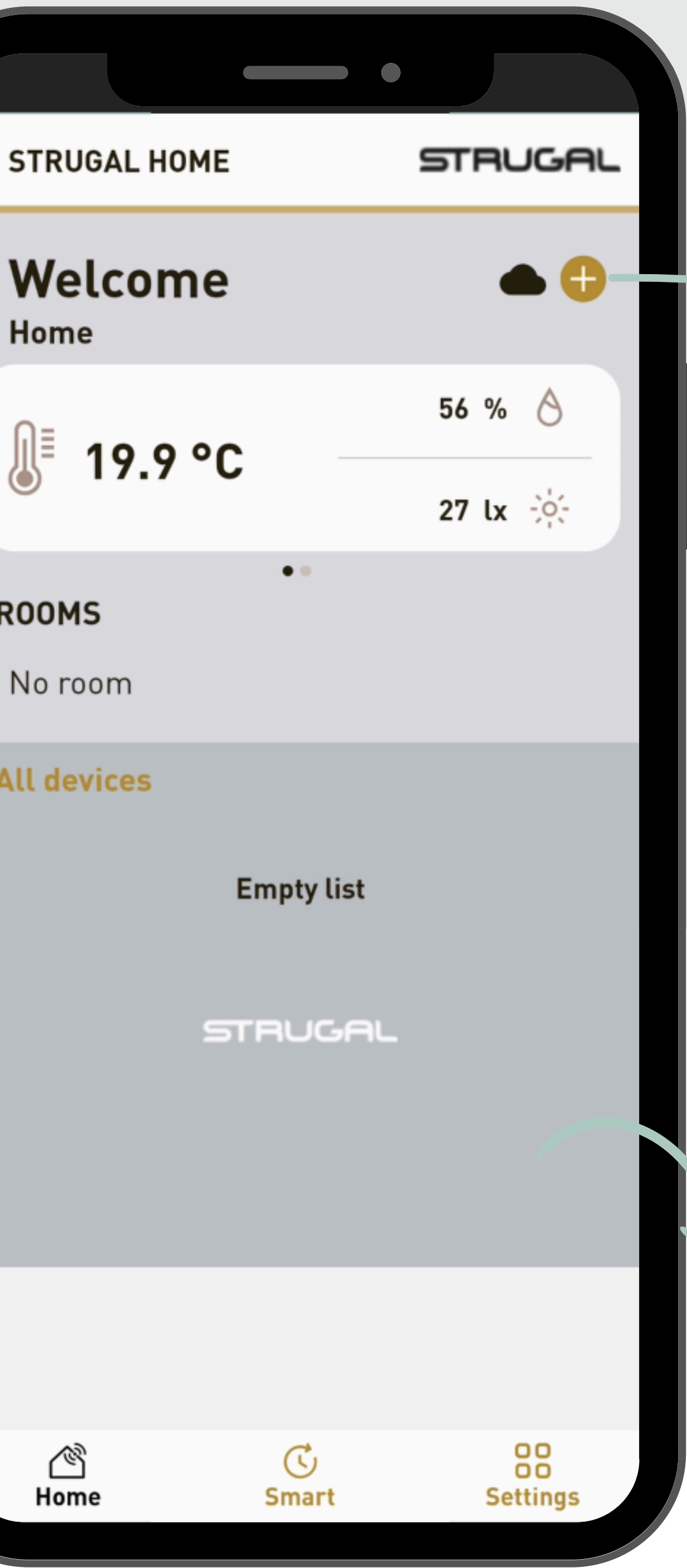


Fig. 21

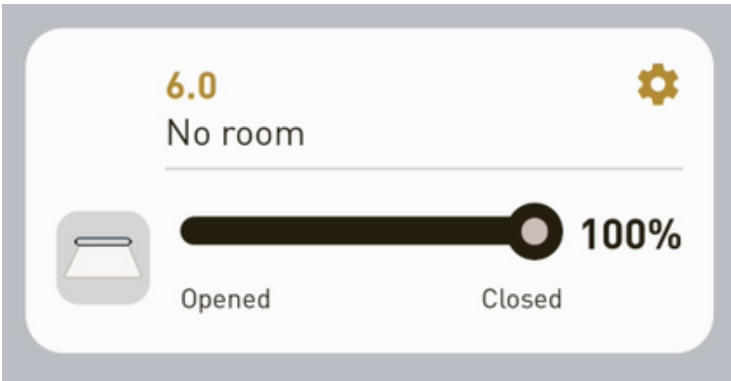
On the next screen, the new user must verify that the information is correct and accept the privacy policy before clicking on “Submit” and personalizing the password (fig. 20-21).

DESCRIPTION

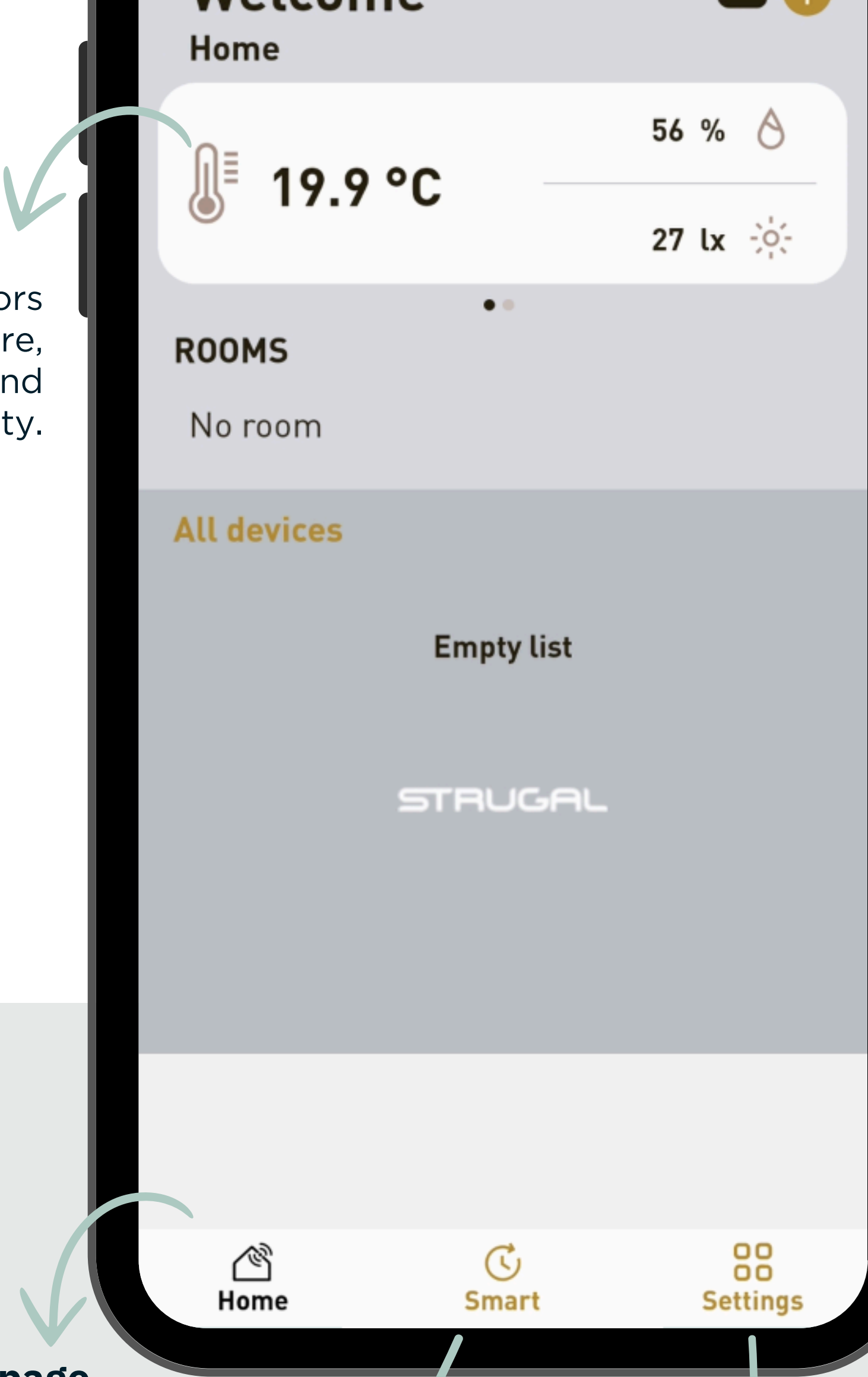
MAIN SCREEN



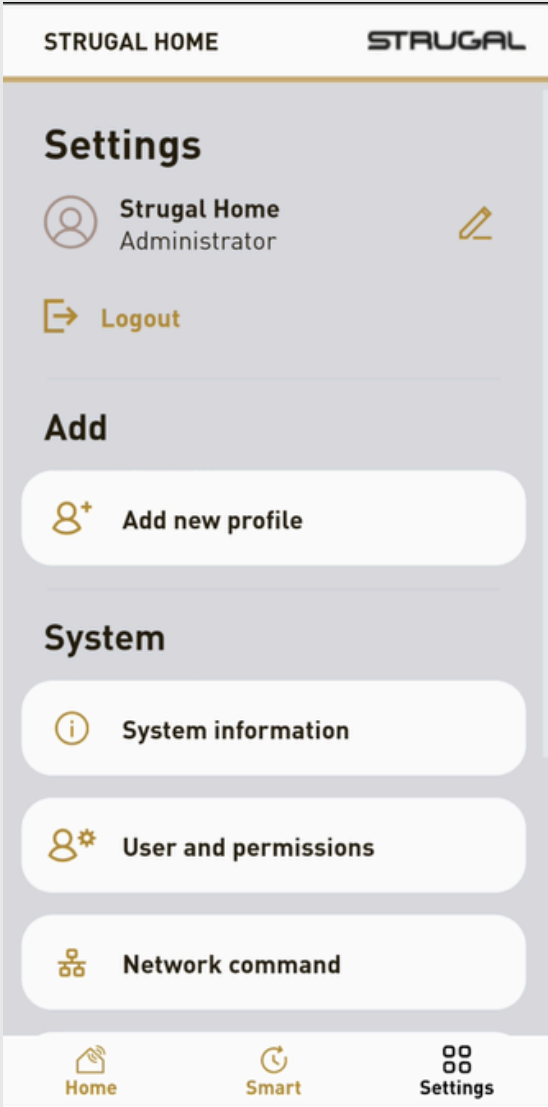
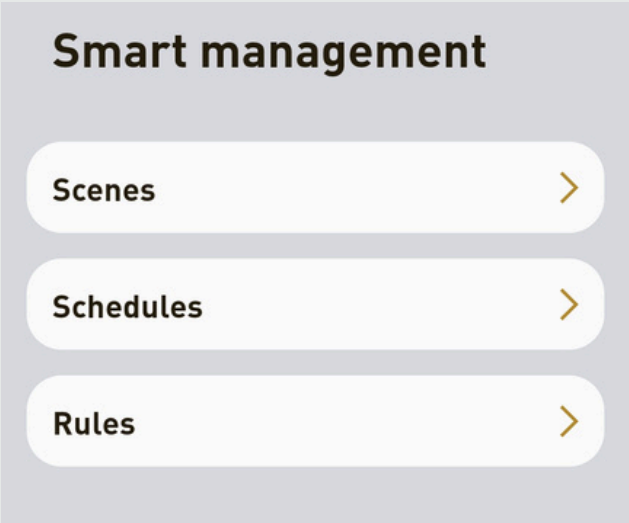
In the GROUPS section, you will find a list of all the devices included in the Gateway.



Built-in sensors for temperature, humidity and luminosity.




Home page



Z-WAVE DEVICE

INCLUSION

On the main screen, when you press the  icon, the drop-down menu for adding new devices appears (fig. 22). Select “Z-Wave Network” and on the next screen click on “Add device” (fig. 23).

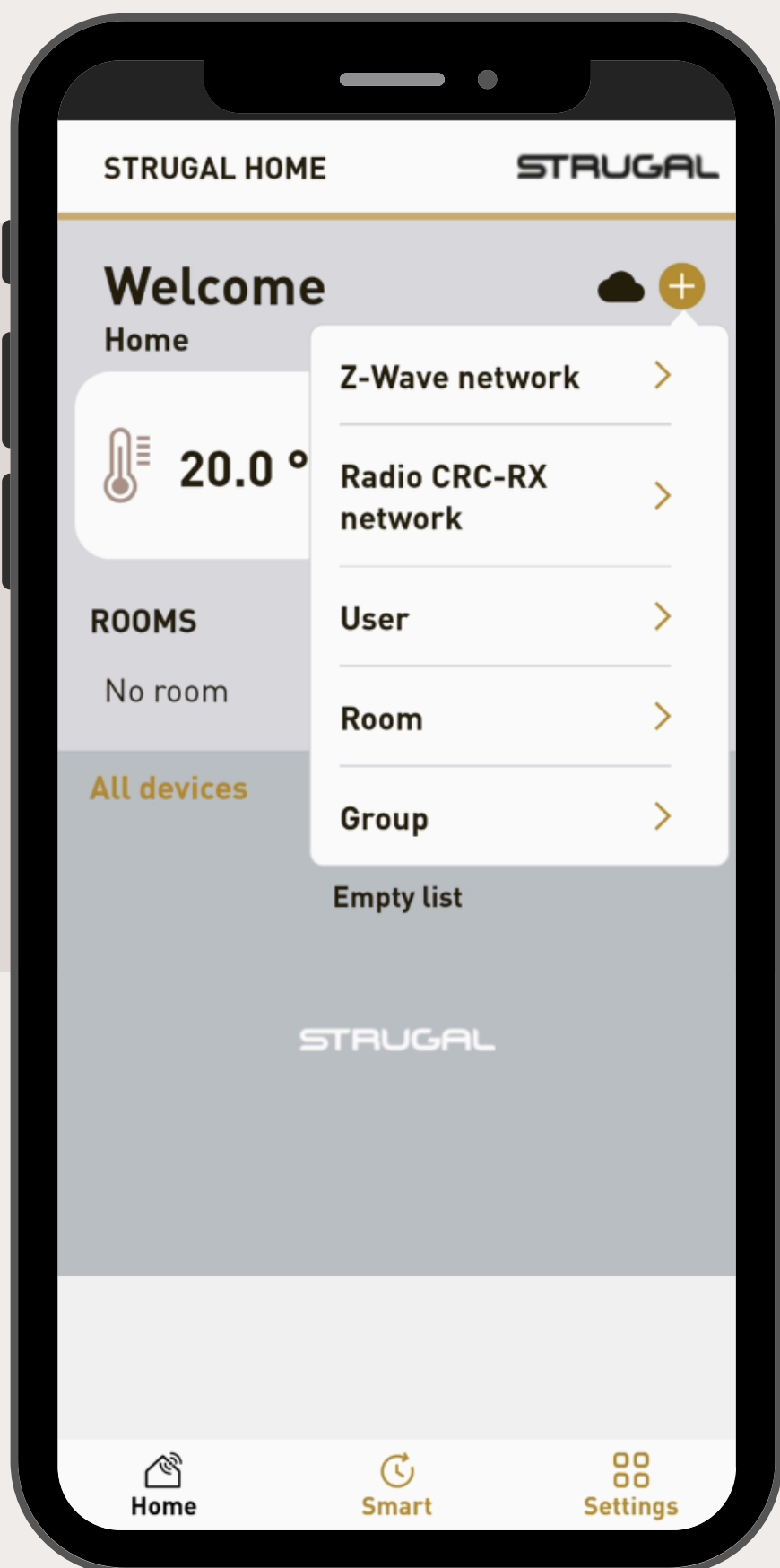


Fig. 22

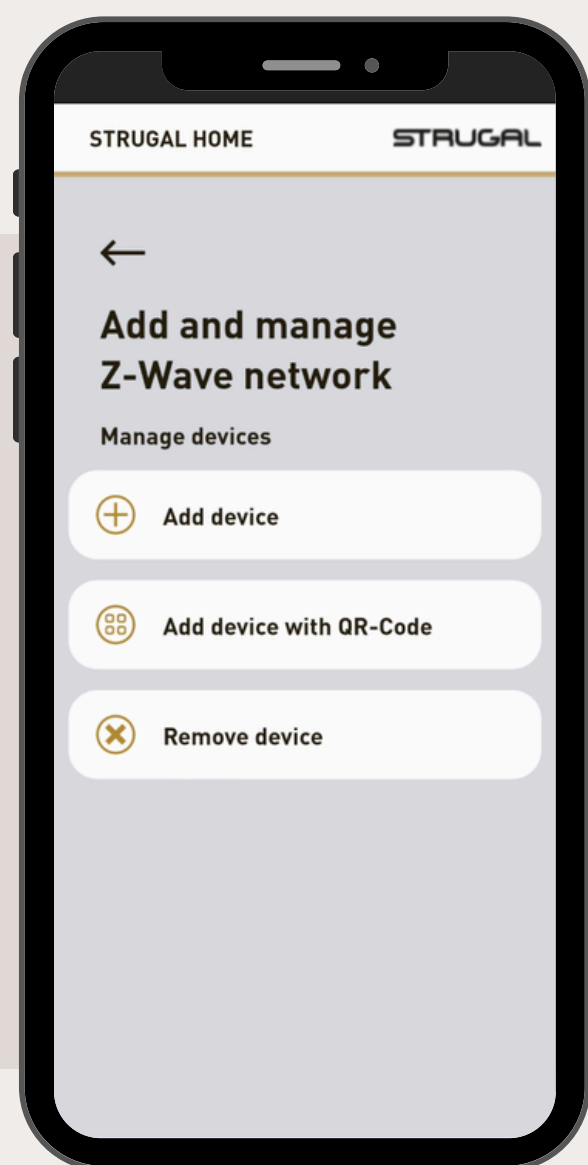


Fig. 23



On the next screen (fig. 24) click on “Search” and put the device to be included in “Learning Mode” by pressing a sequence of buttons on the transmitter (Seq. 1).

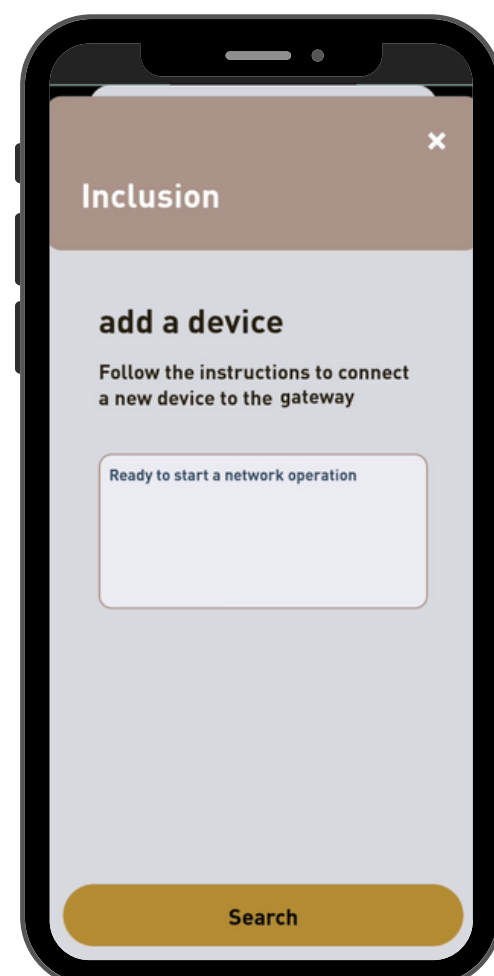
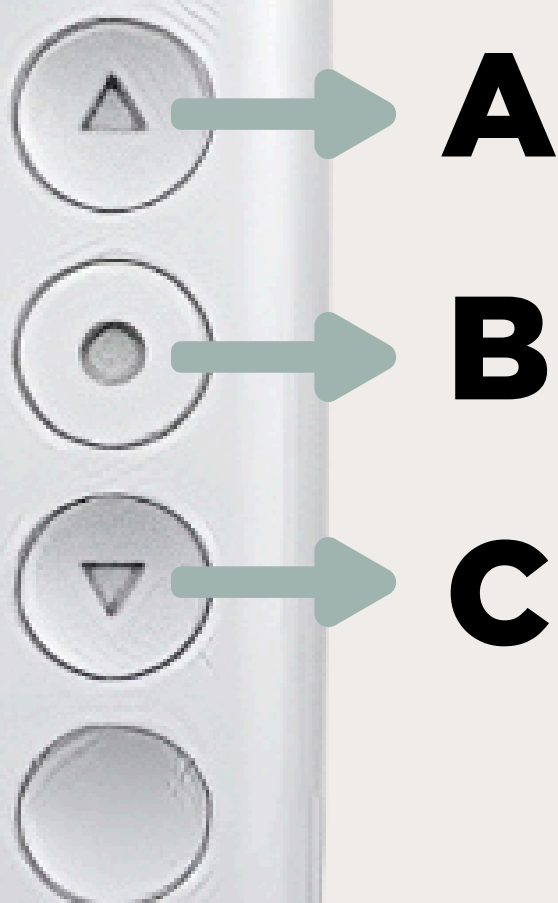


Fig. 24

LEARNING MODE

for Z-WAVE devices



Sequence 1

We press **A + B**

We press **A + C**

Press and hold 2 **A + B**
2 seg

The motor confirms that it has correctly entered learning mode with small rotations.



The learning mode locks after 10 minutes of inactivity. To reactivate it, remove the battery from the controller and wait 10 seconds before starting again.



Once the learning mode of the device has been activated, follow the instructions on the following screens (fig. 25, 26 and 27) until (fig. 28).

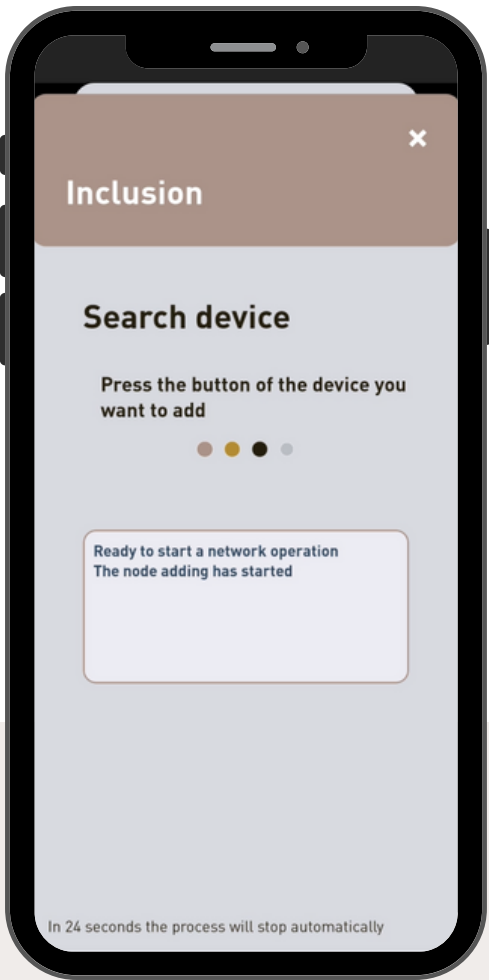


Fig. 25

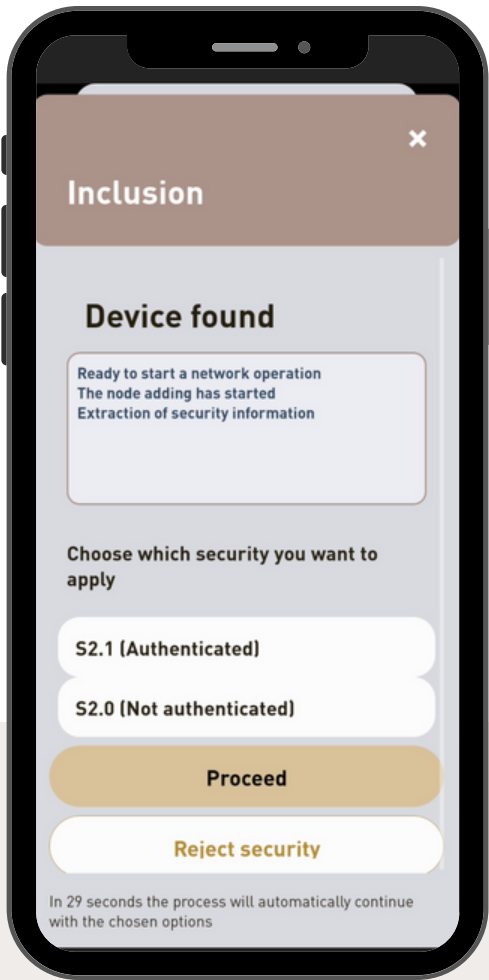


Fig. 26

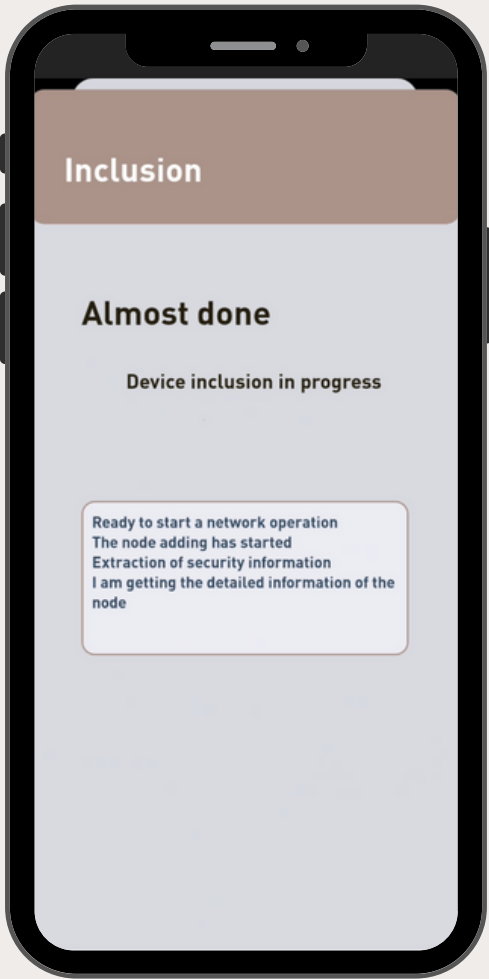


Fig. 27

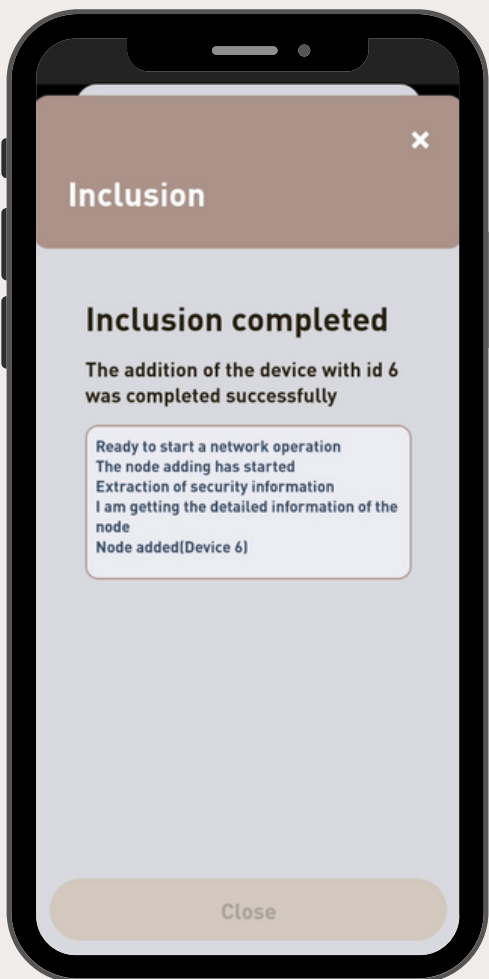


Fig. 28

Once the procedure has finished, the Z-Wave device inclusion/exclusion screen will be displayed again (fig. 23) and it will be possible to add new devices; otherwise, it will return to the main control screen where the added device will appear (fig. 29).

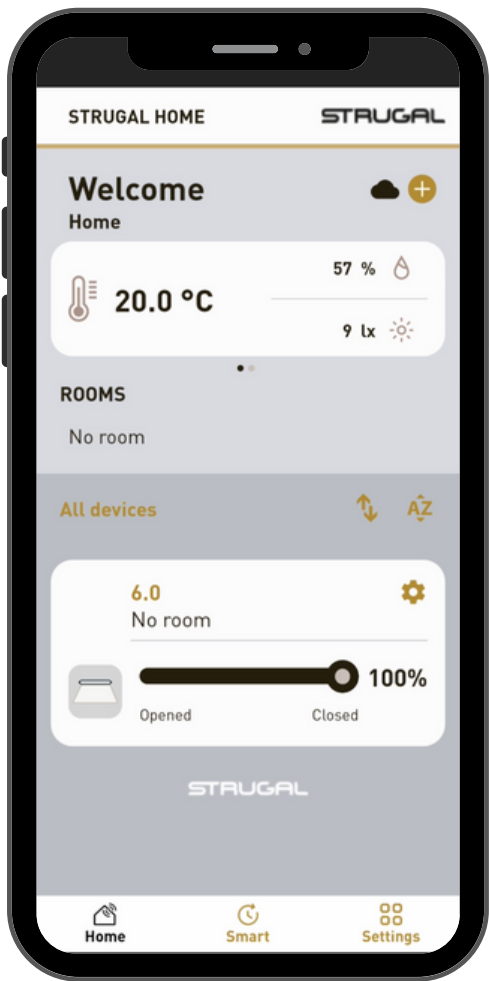



Fig. 29

EXCLUSION

On the main screen, when you press the icon  , the drop-down menu for adding new devices appears (fig. 14). Select the Z-Wave network and on the next screen click on “Remove device” (fig. 30).

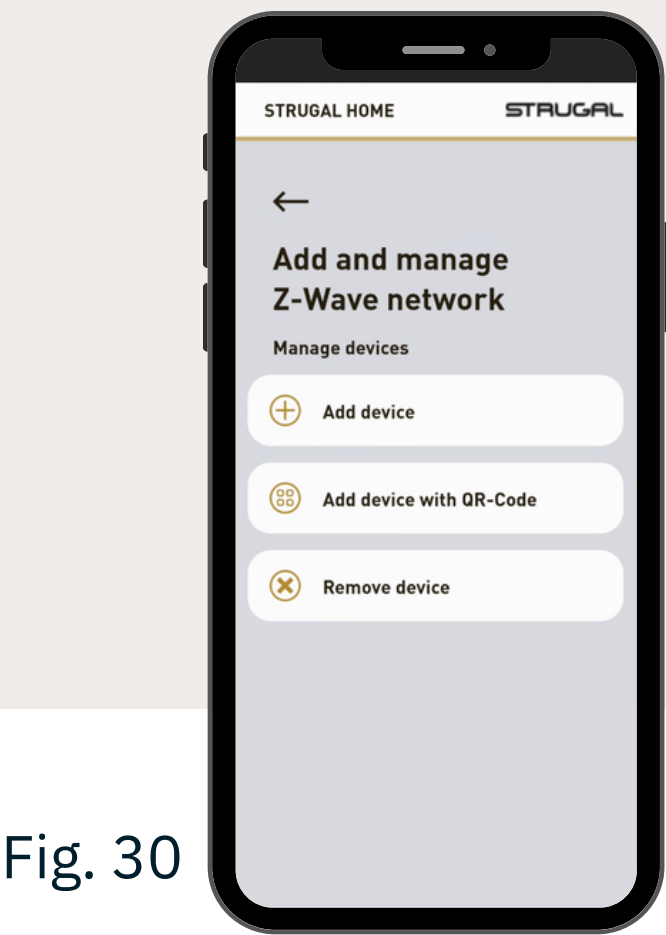


Fig. 30

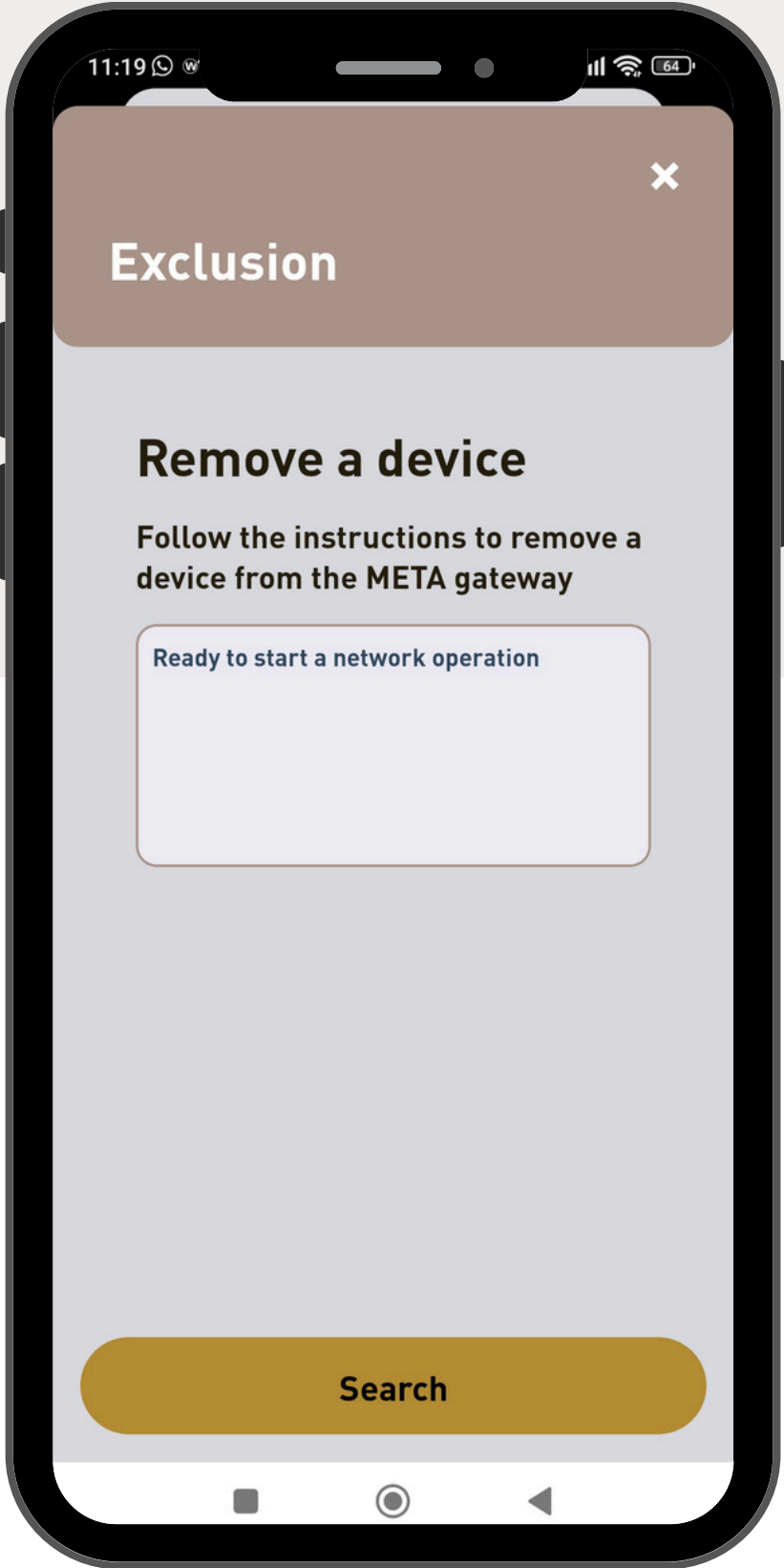


Fig. 31

On the next screen (fig. 31), click on “Search” and set the device to be excluded in “Learning Mode” (Sec. 2)



Sequence 2

We press **A + B**

We press **A + C**

Press and hold **A + B** 2 sec



If the learning mode locks, remove the battery from the controller and wait 10 seconds before starting again.

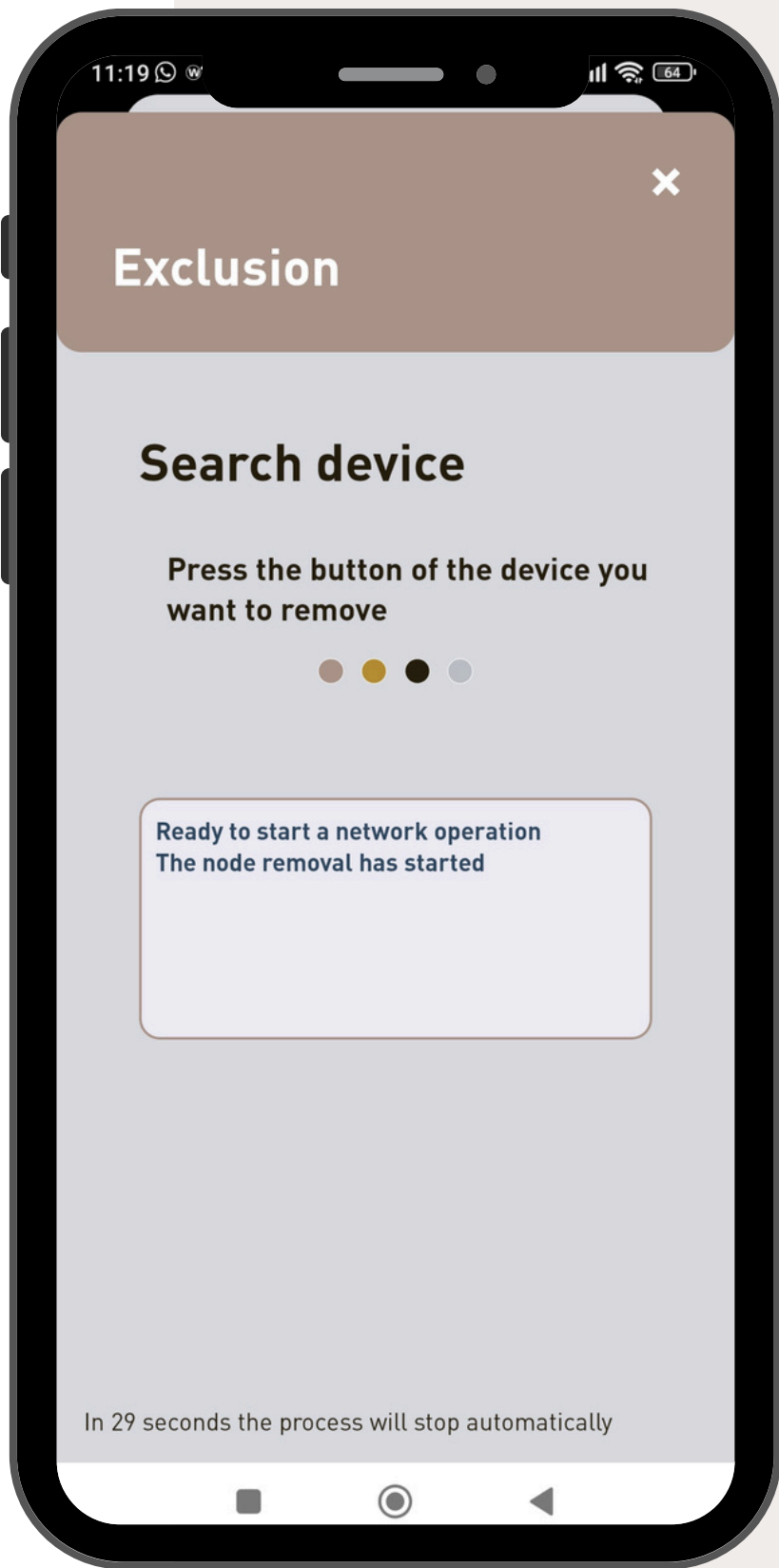


Fig. 32

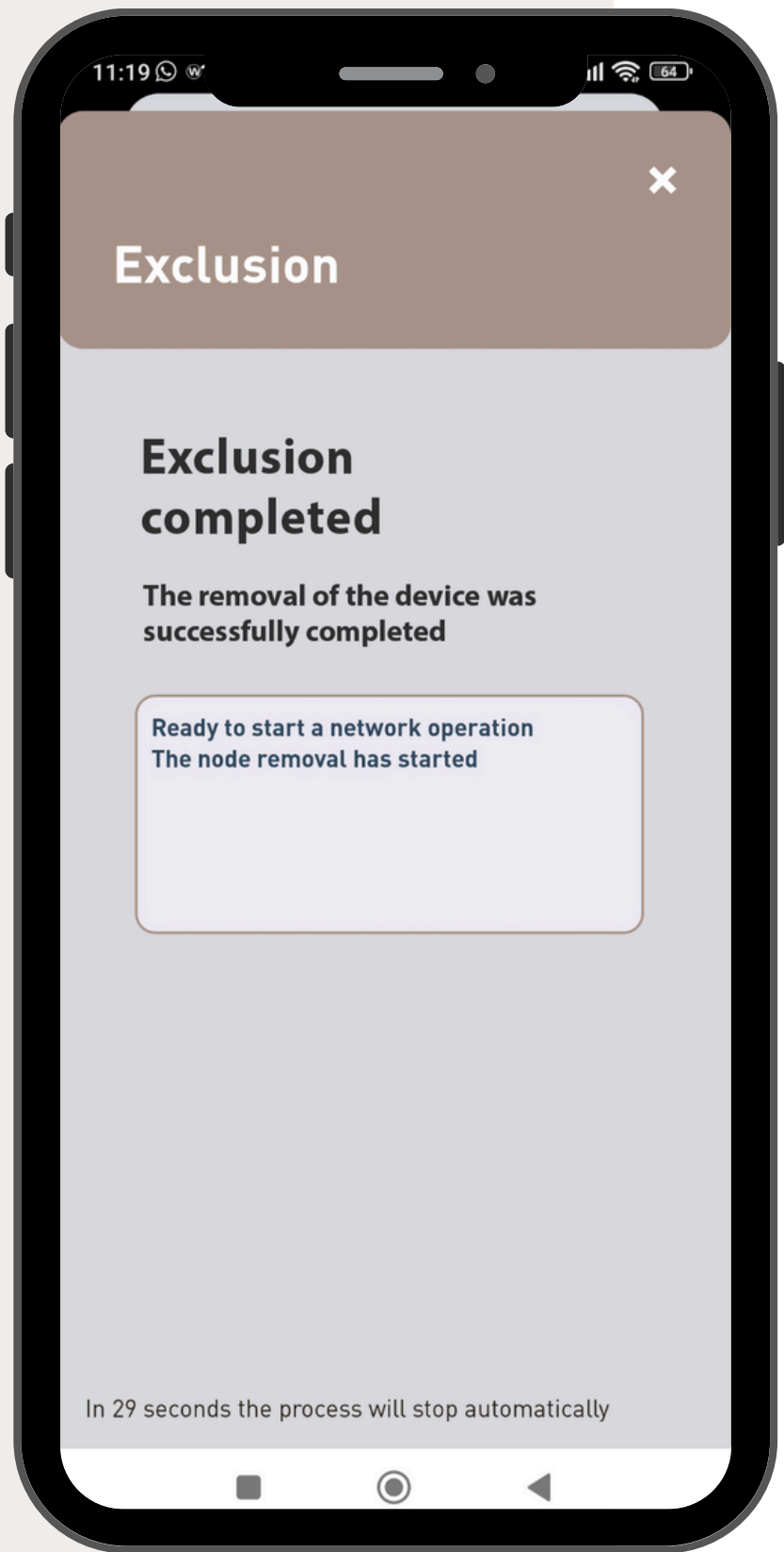



Fig. 33

Wait for the procedure to be completed (fig. 32 and 33).

Once the procedure has finished, the Z-Wave device inclusion/exclusion screen is displayed (fig. 30), where you can remove other devices; otherwise, you will return to the main screen.

DEVICE RADIO NETWORK 433

On the main screen (fig. 34), clicking on the icon  will bring up a drop-down menu for adding new devices (fig. 35). Select “Radio CRC RX network” and on the next screen click on the type of device you want to pair with the Gateway (fig. 36).

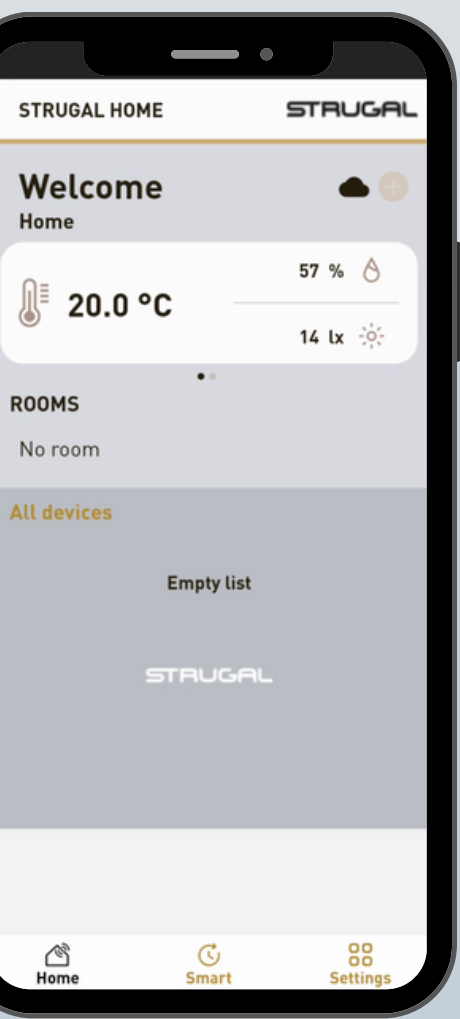


Fig. 34

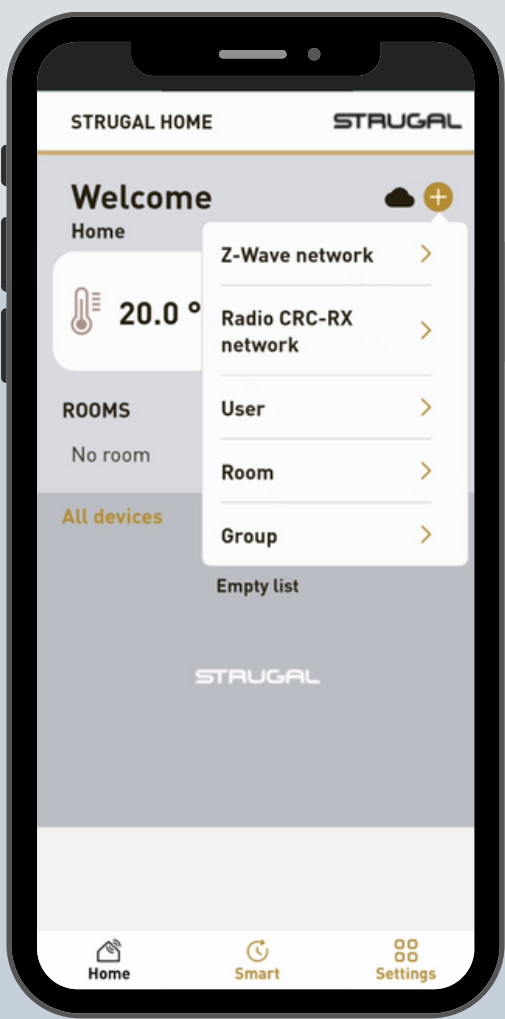


Fig. 35



Fig. 36

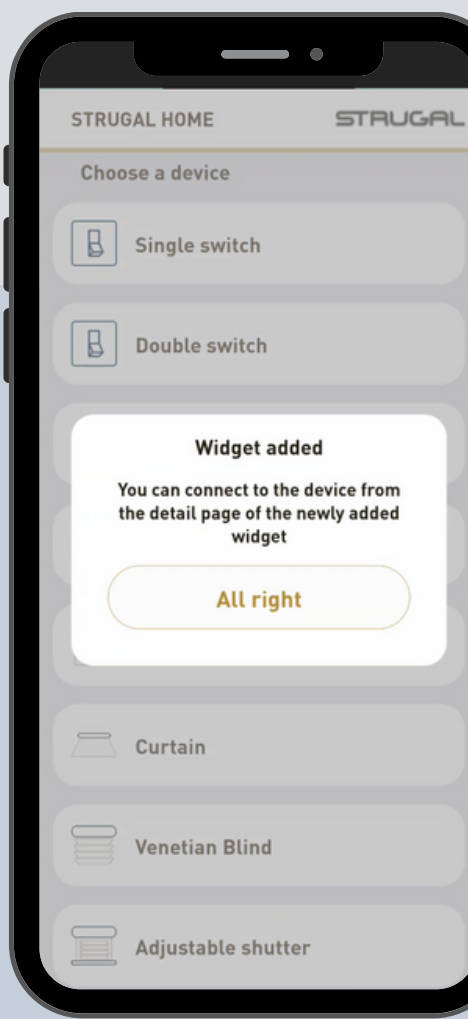


Fig. 37

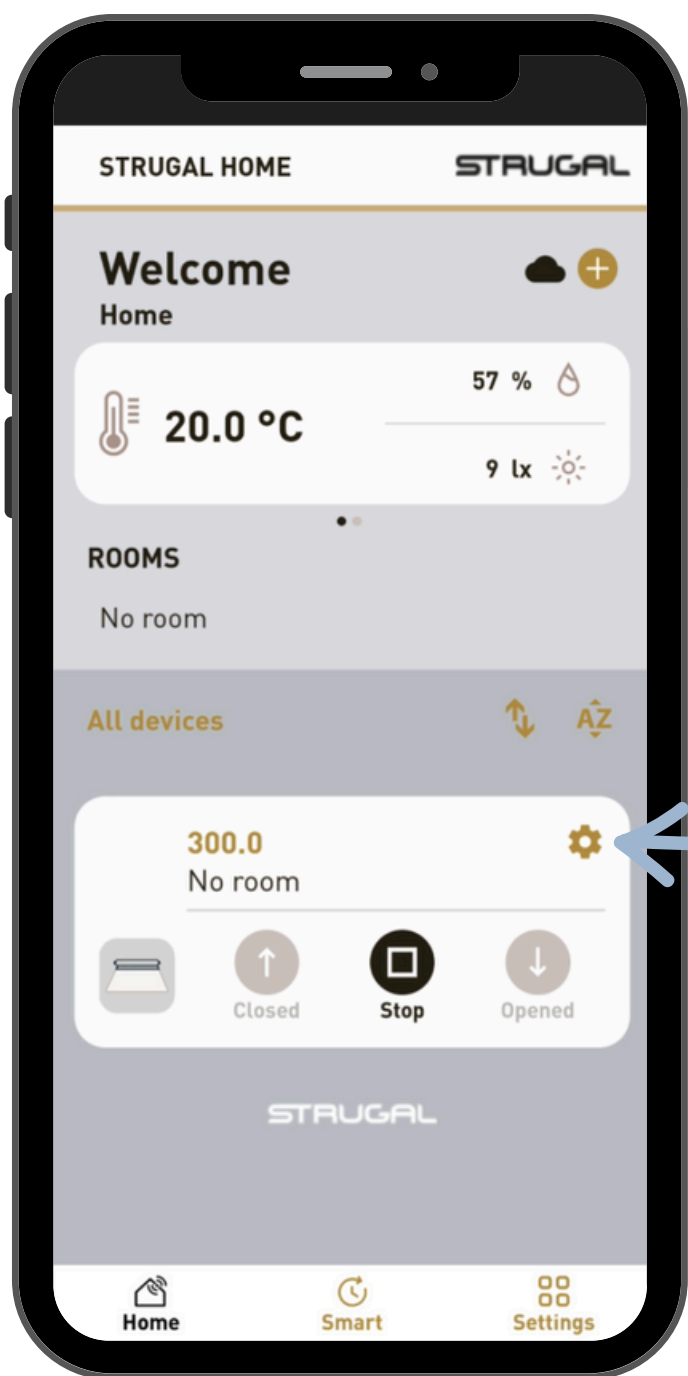


Fig. 38

Once the type of device has been selected, you should return to the main screen where a new block will have been added in the “All devices” section.

Once the new device has been located it is necessary to pair it. To do this, click on the settings icon ⚙️ to access the “Device details” screen (fig. 38).

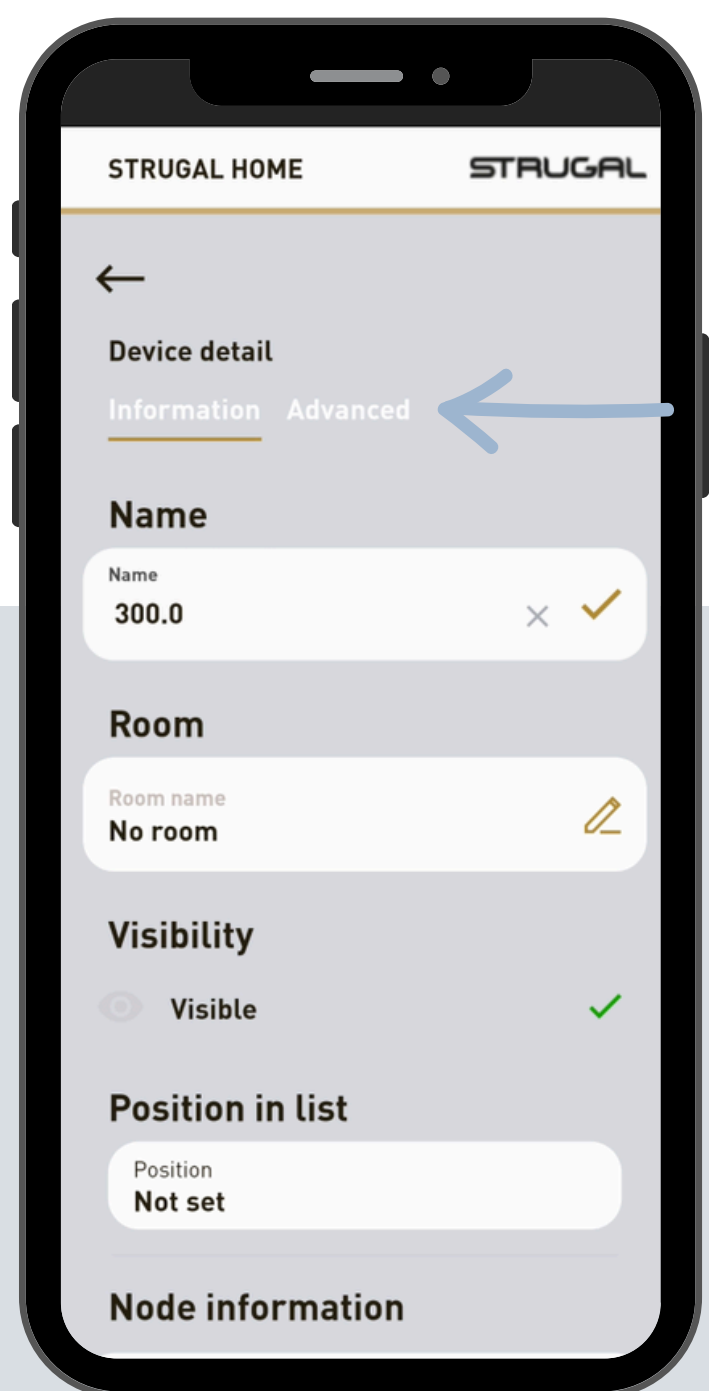


Fig. 39

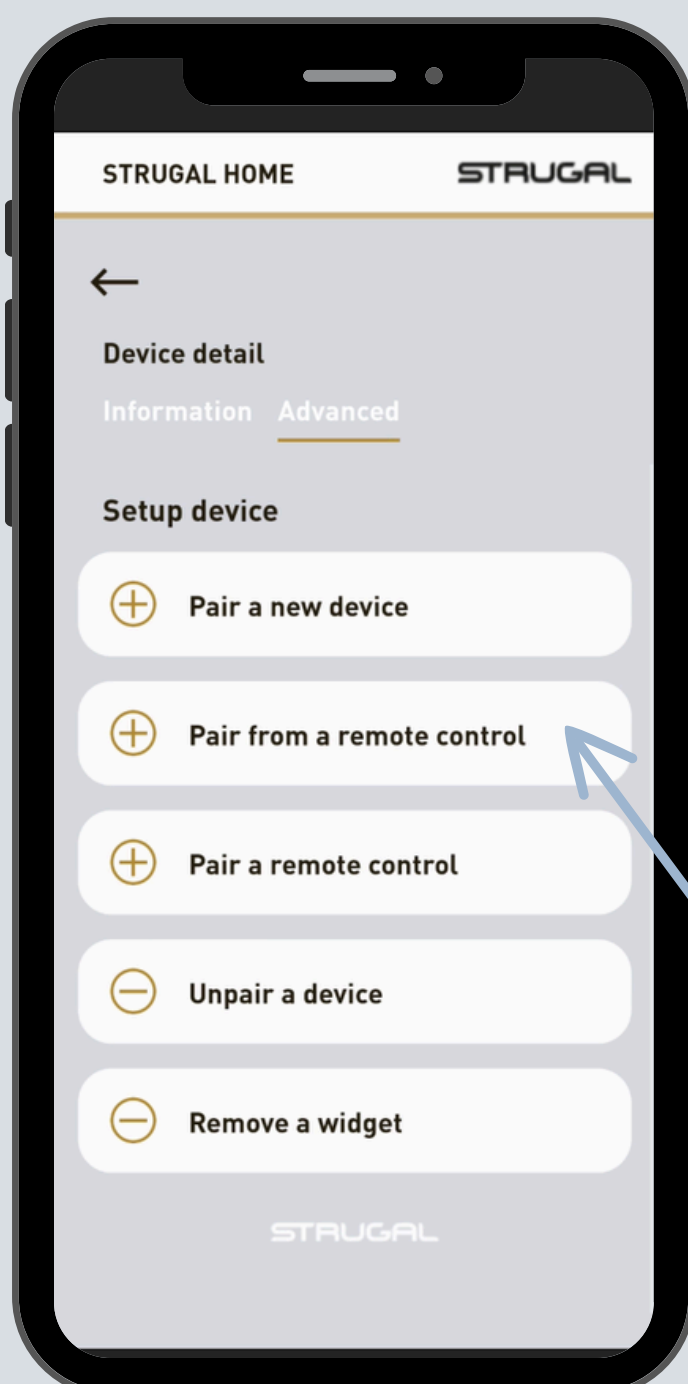


Fig. 40

When you click on “Advanced” (fig. 39) a list of actions to be carried out according to your needs will appear (fig. 40).

i Generally, the action to follow will be “Pair from a remote control” (page 24).



Pair from a new device

This action is only necessary when the device (motor or controller) is installed for the first time, when no remote control has yet been paired with the device (transmitter).

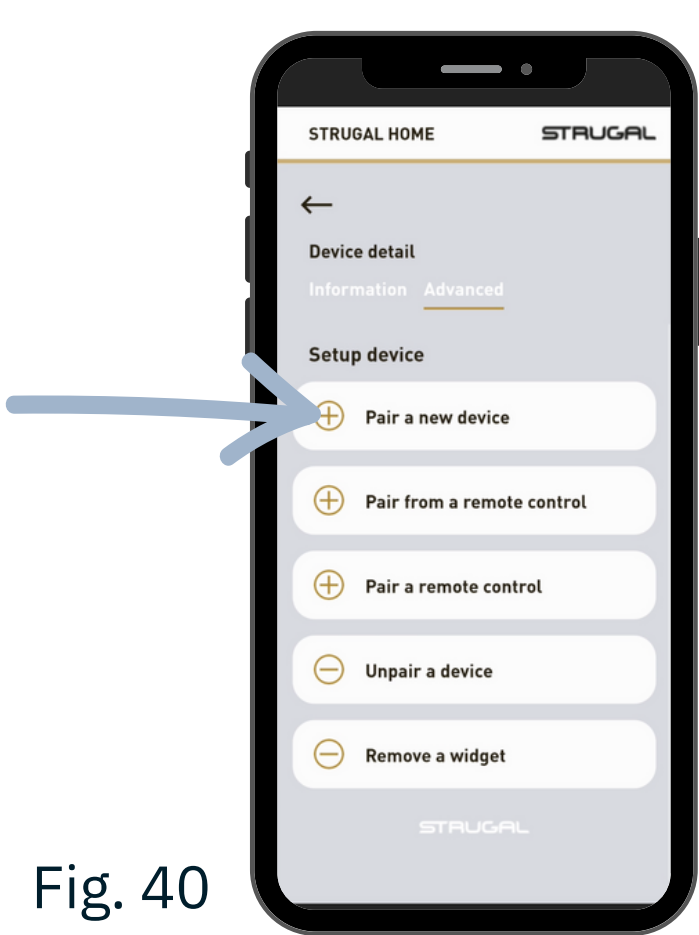


Fig. 40



Fig. 41

Once you have accessed “Pair a new device” (fig. 41) press start and proceed to activate the device learning mode with sequence 3.



Sequence 3

A
B
C

We press **A + B**

We press **B**

Press and hold **B** 2 sec



If the learning mode locks, remove the battery from the controller and wait 10 seconds before starting again.



Pair from a remote control

It is used when you want to associate STRUGALHOME with a device (motor) from a transmitter (remote control) that is already associated.

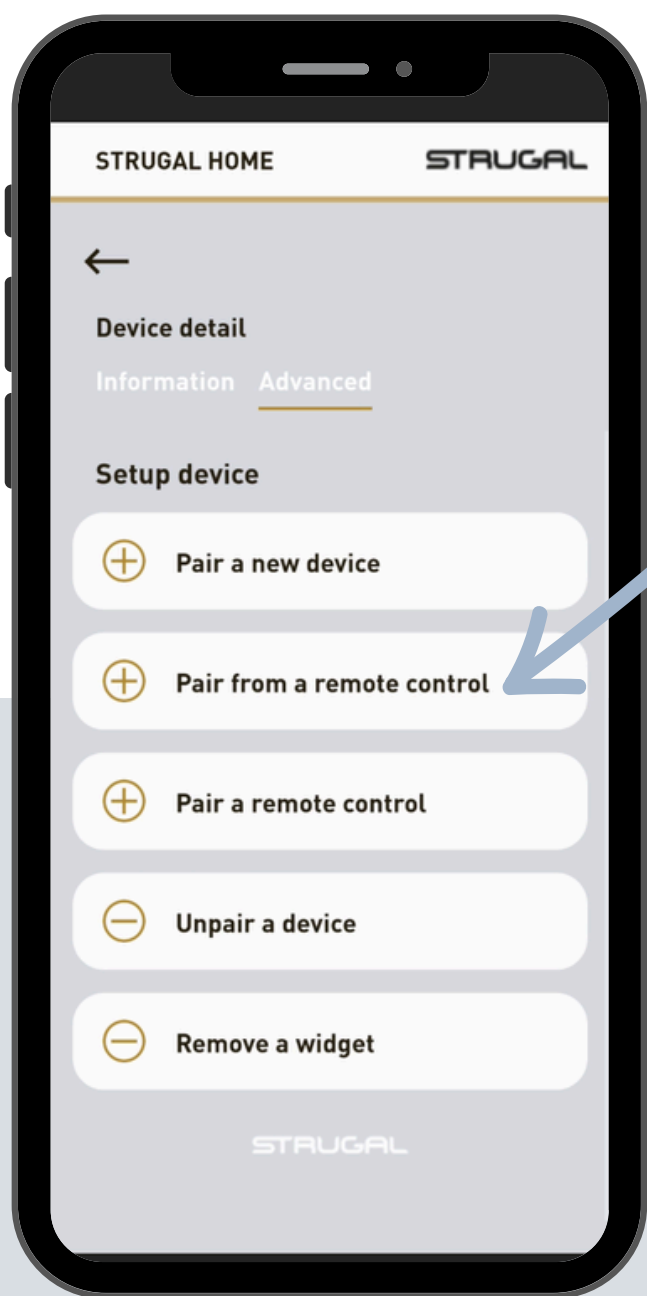


Fig. 40

Once you have accessed “Pair from a remote control” (fig. 40) activate learning mode with sequence 4.

Sequence 4

We press
A + B

.....

We press
B

El motor confirma con pequeñas rotaciones.

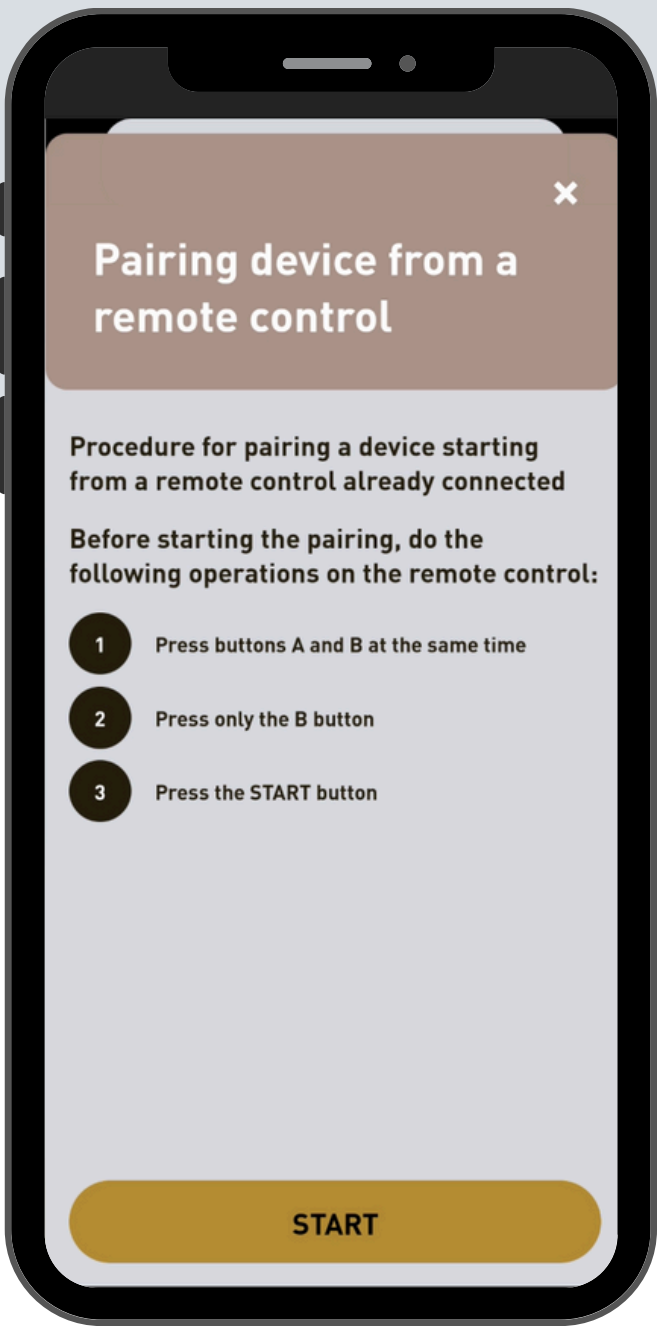


Fig. 42

If the learning mode locks, remove the battery from the controller and wait 10 seconds before starting again.



Then click on start to finalize the association (fig. 42).



Pair a remote control

Used for a device already associated with STRUGALHOME; if you want to add an additional remote control.

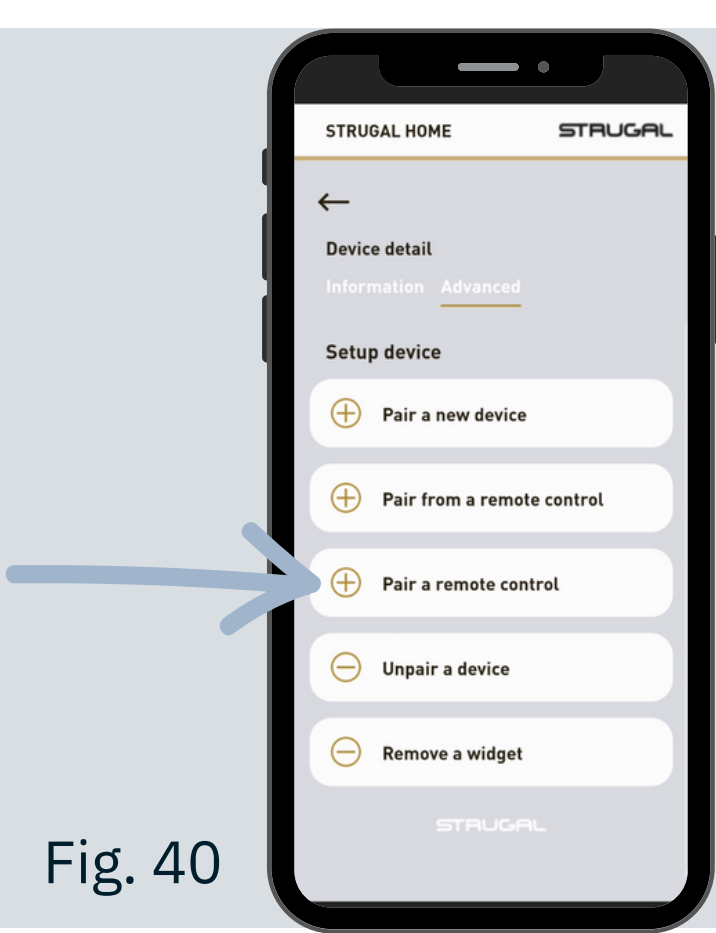


Fig. 40

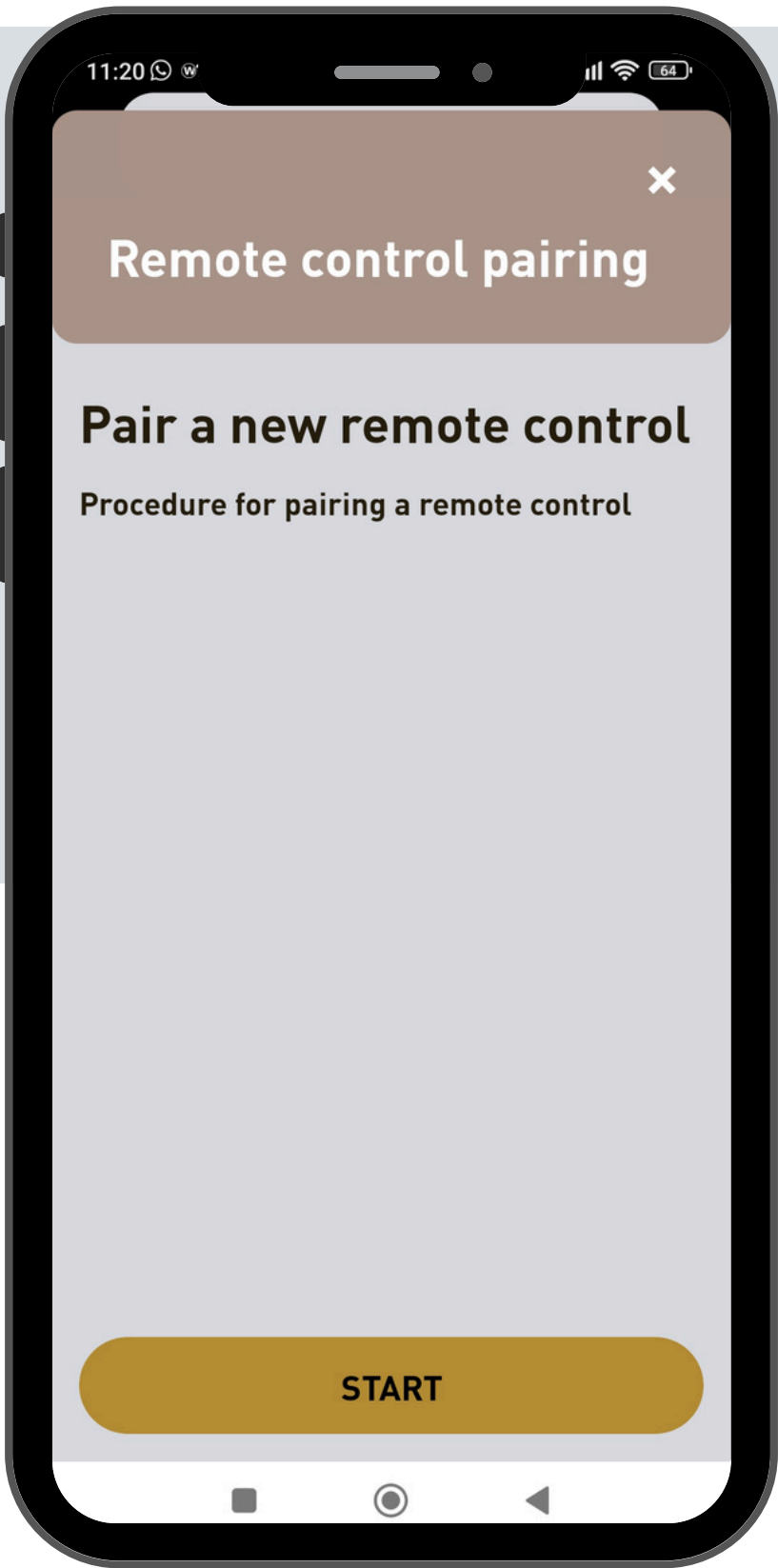


Fig. 43

Once you have accessed “Pair from a new remote control” (fig. 43) press start and proceed to press the sequence of buttons 5 from the transmitter.



Sequence 5

- A

B

C

Press and hold

.....

We press

B

B

2 seg

El motor confirma con pequeñas rotaciones.

If the learning mode locks, remove the battery from the controller and wait 10 seconds before starting again.





Unpair a device

This is used when you want to disassociate a device from STRUGALHOME. Carry out this action (fig. 44), and check that the device no longer responds to STRUGALHOME, before carrying out the following action to eliminate the icon.

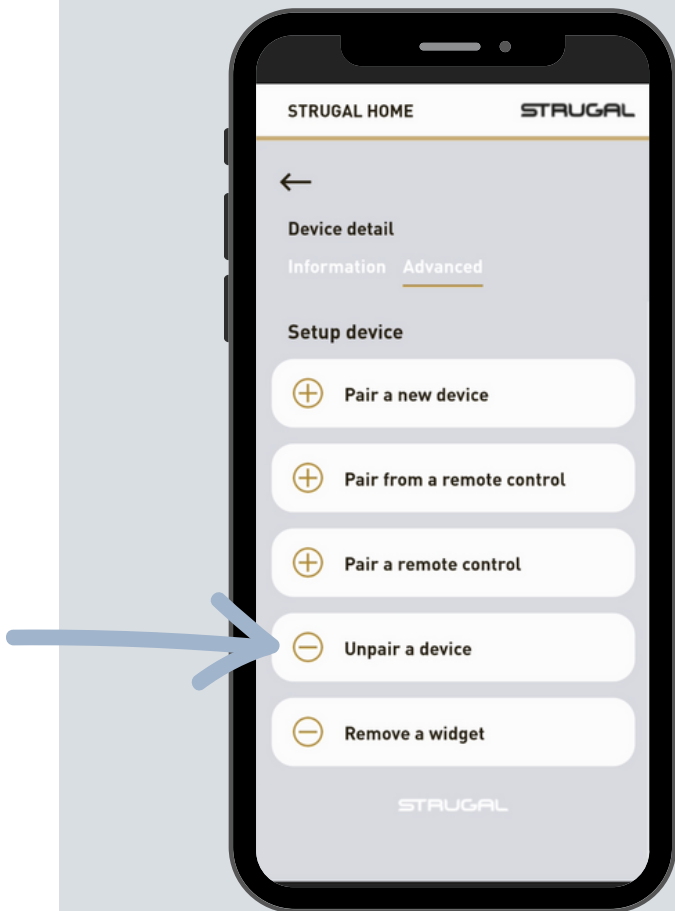


Fig. 40

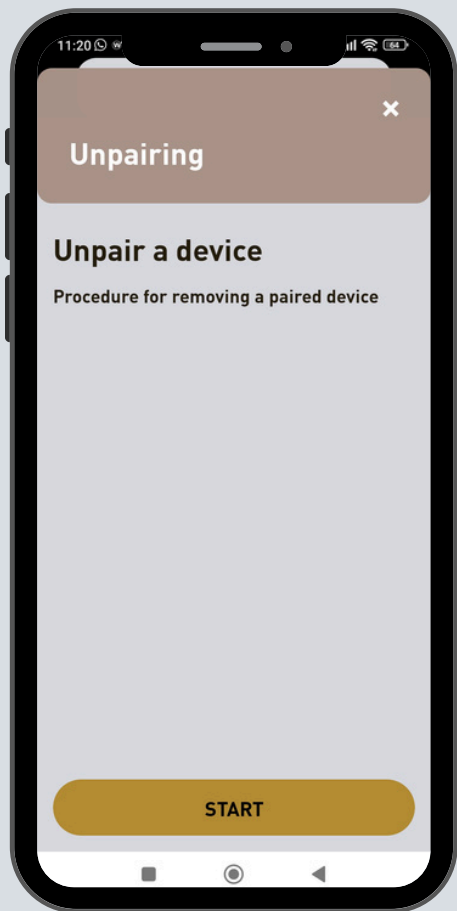


Fig. 44



Remove a widget

After unpairing the STRUGALHOME device, use this action to remove the device from those shown on the main screen (fig. 45).

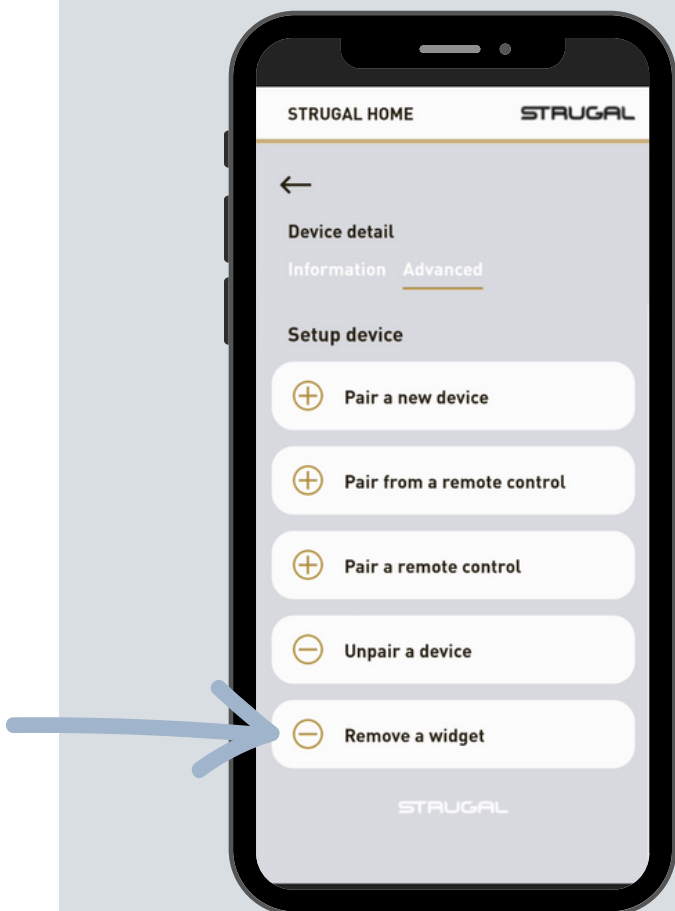


Fig. 40

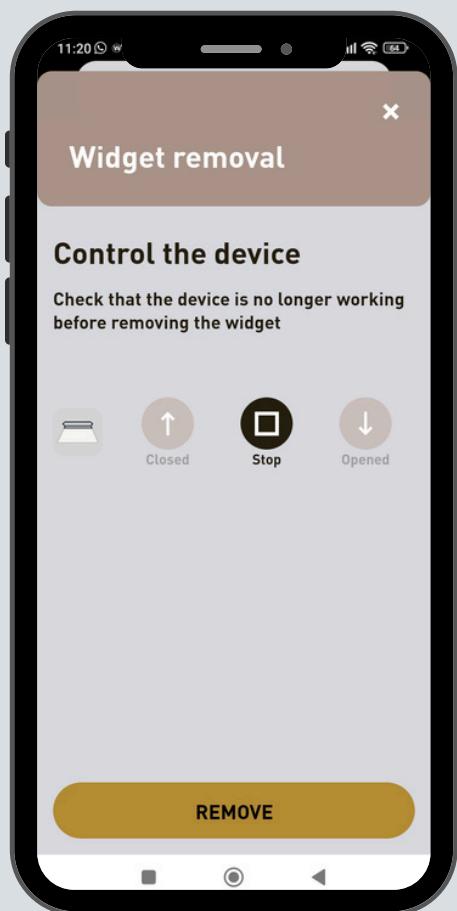


Fig. 45

GESTIÓN SMART

Using the Gateway, you can configure various intelligent scenarios according to your habits and needs, programming the operation of the intelligent devices and the interactions between them.

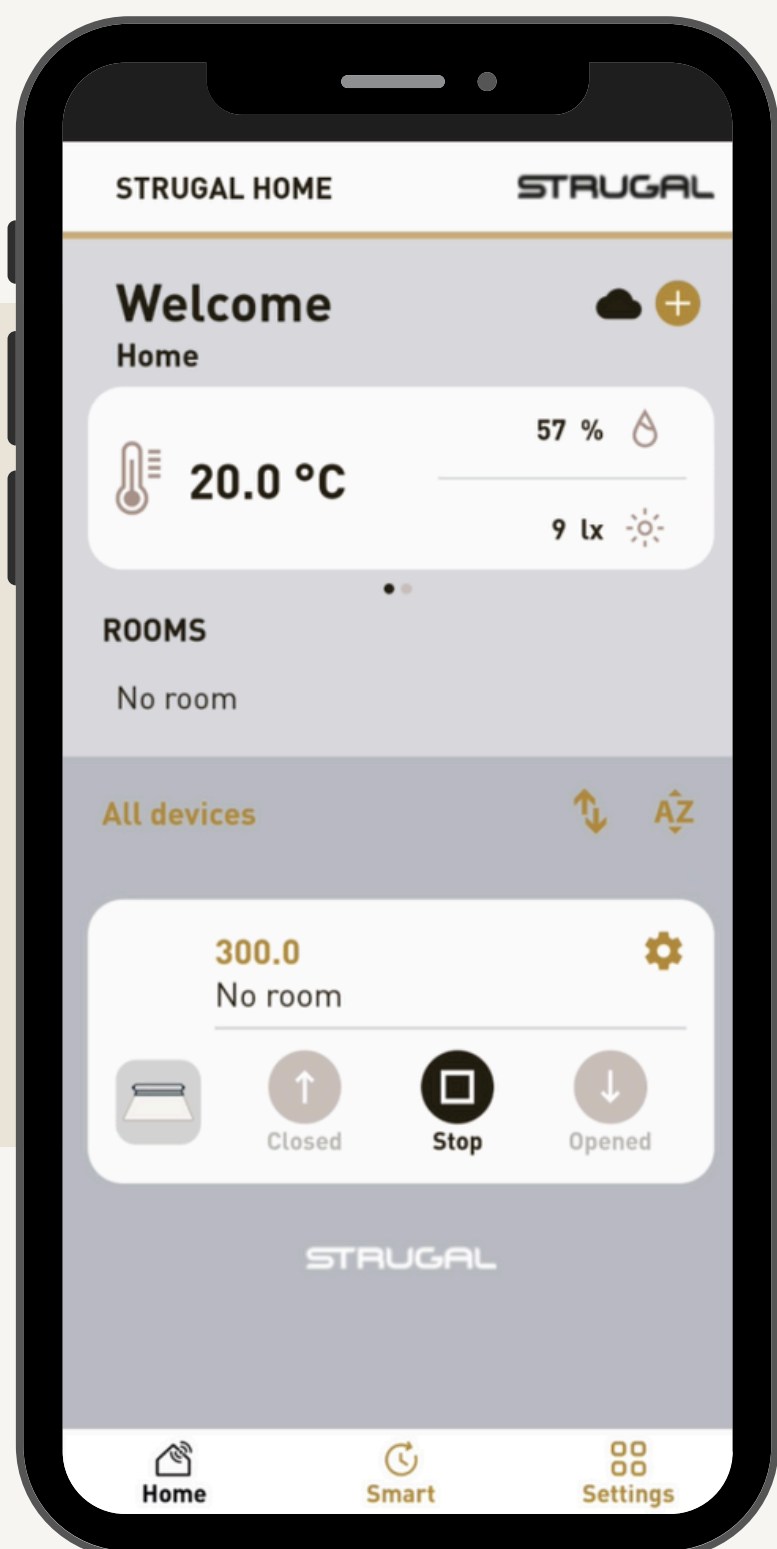


Fig. 46

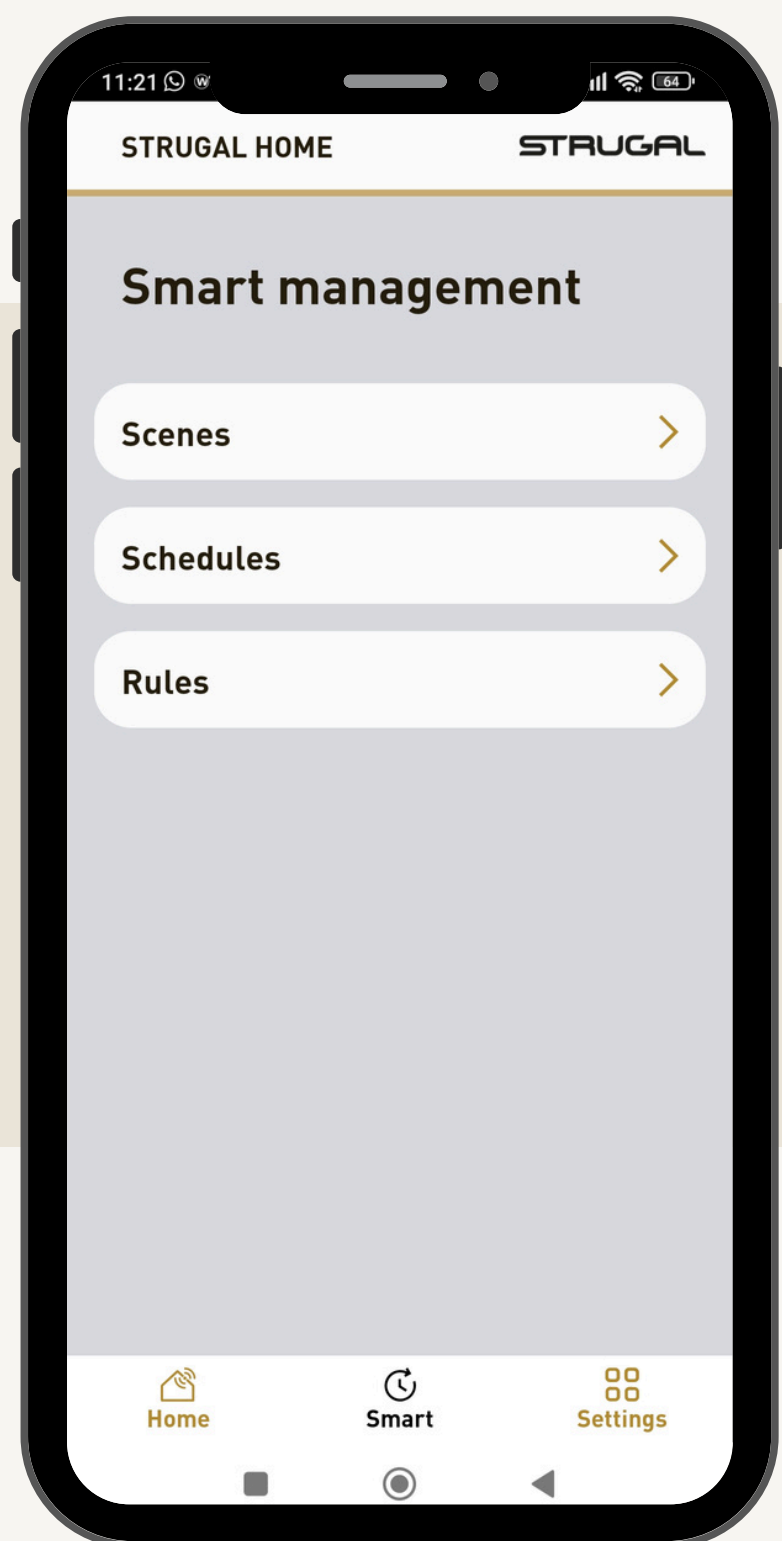


Fig. 47

From the main screen (fig. 46), you can access the “Smart Management” screen (fig. 47) from which you can configure the scenes, program the switching on and off of the devices and establish rules of interaction between them.



RESET AND RESTORE GATEWAY FACTORY SETTINGS

00 00 Ajustes

Go to the “Settings” page in the lower menu and look for the “System” section to access “Gateway commands” (fig. 48-49).

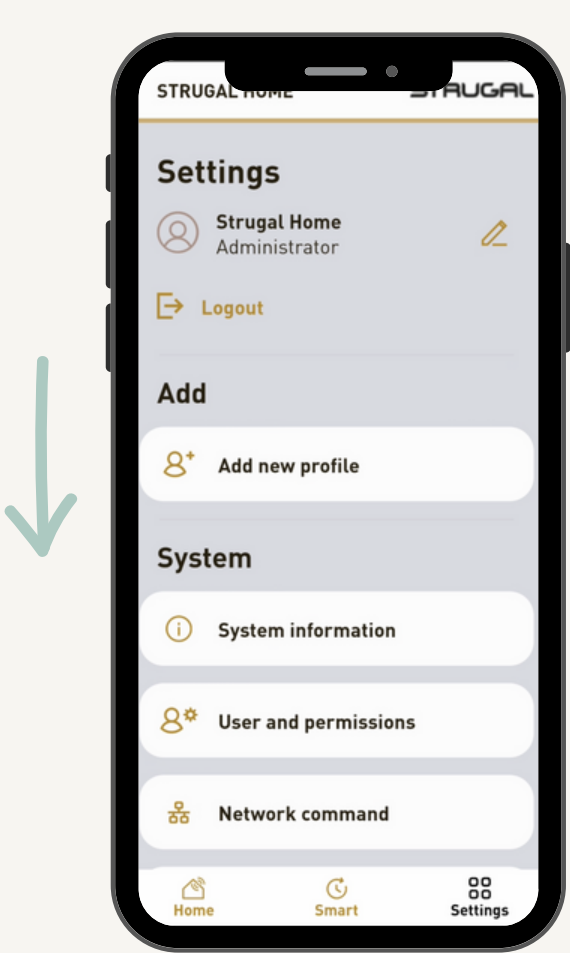


Fig. 48

A list of actions to be carried out will appear. Choose the required action from these (Fig. 50).

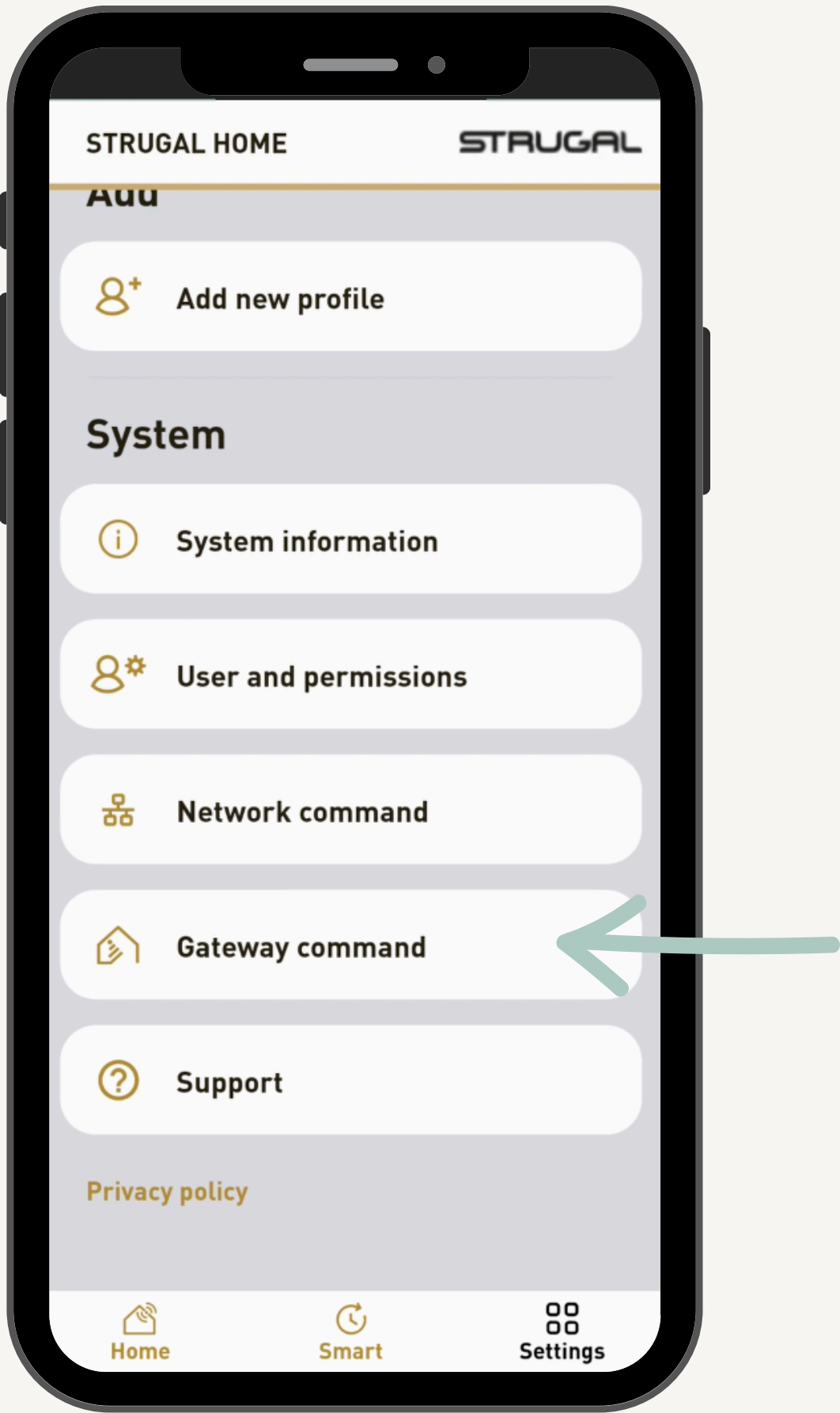


Fig. 49



“Restart the gateway”

Click on this option to force a restart of the device.

“Restore network and users data”

Click on this option to restore the factory settings.

Fig. 50



If this option fails, press and hold the Reset button for 10-15 seconds until the bright RED LED lights up.

After approximately one minute, the status LED will begin to flash rapidly in RED-GREEN-BLUE, indicating that the reset/update procedure is in progress.



BACKUP AND RESTORATION

OF THE GATEWAY



To create a backup of your installation, first insert an empty USB memory device into the Gateway.

In order to carry out these actions we must have an administrator profile.



Then open the app, go to “Settings” and “System” section to access “Gateway commands” (steps on page 28).

A list of actions to be carried out will appear, where you must select “Backup” (fig. 50).

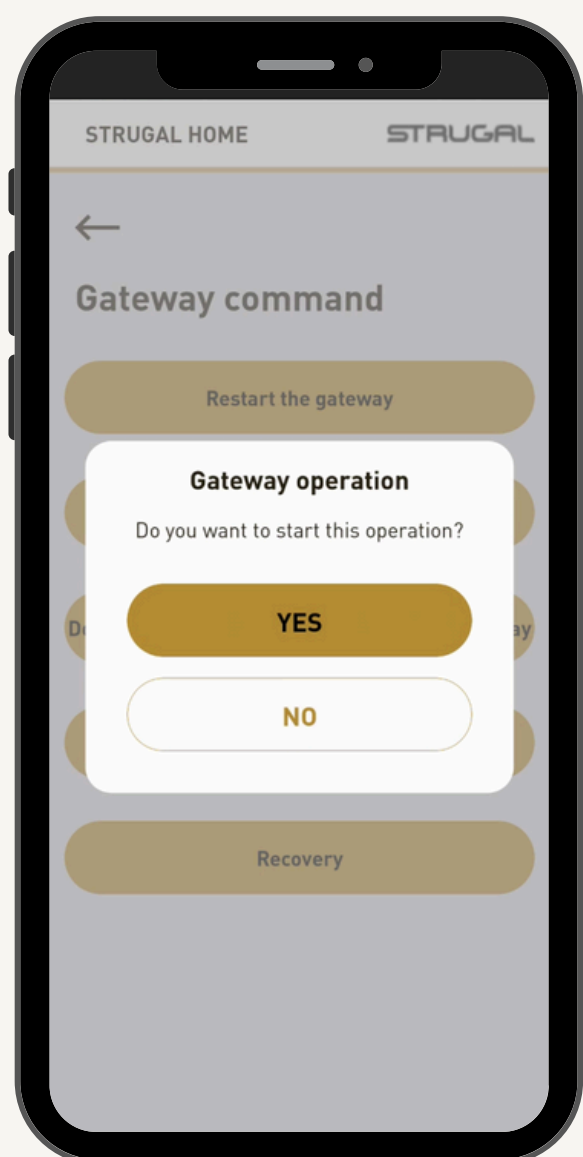


Fig. 51



Fig. 52

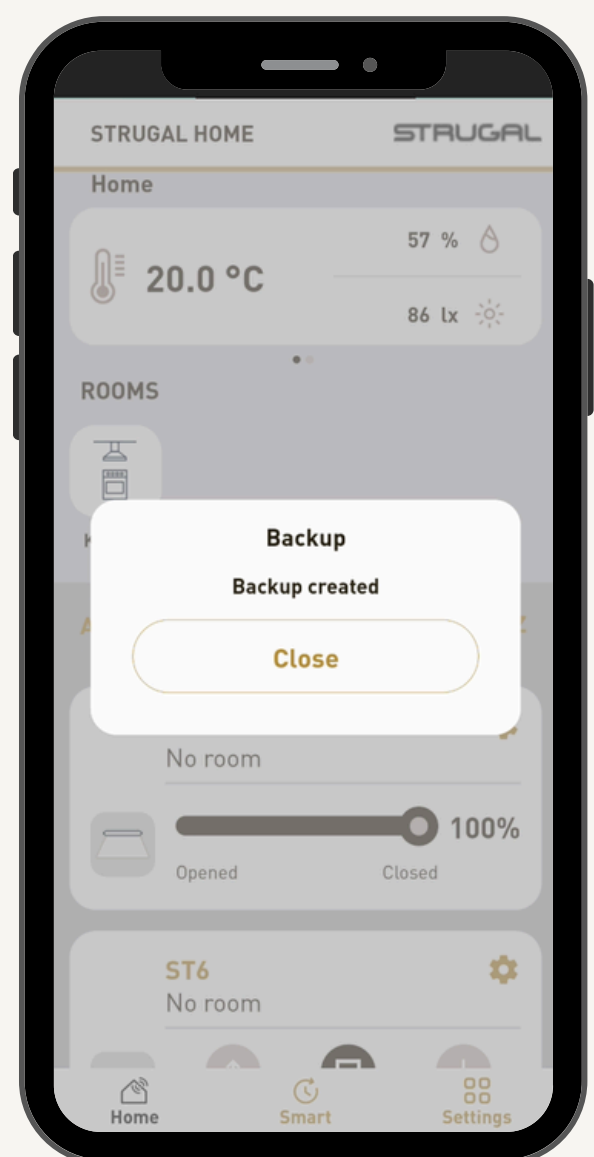


Fig. 53

After selecting Backup and accepting the operation (fig. 51) you will have to wait for it to notify you that the action has been completed (fig. 52-53)



Once your backup has been saved, you can restore these parameters when you need to, or set them on another Gateway that has already been set up.

To do this, insert the USB with the backup into the Gateway and follow the steps on page 28 to get to the “Gateway Commands” section. Once there, press “Restore” and accept the action (fig. 54-55). After this, the session will close (fig. 56).

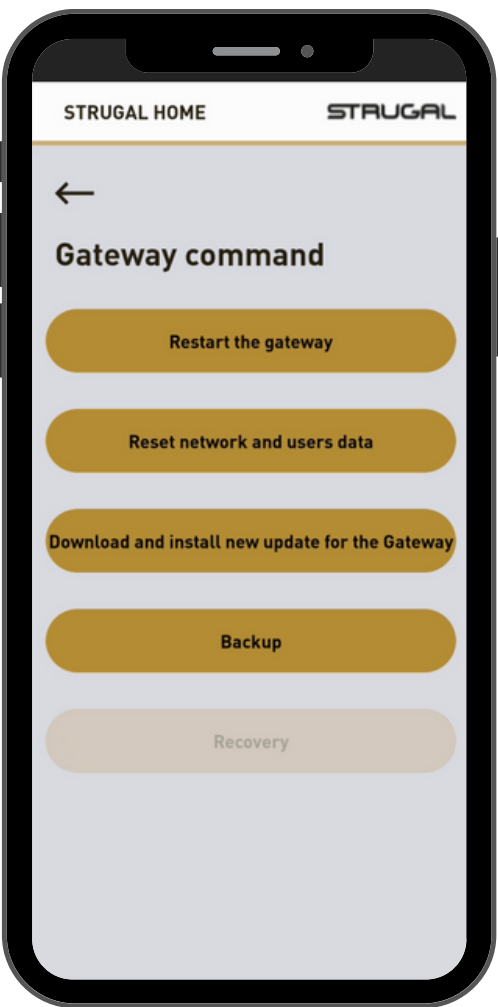


Fig. 54



Fig. 55

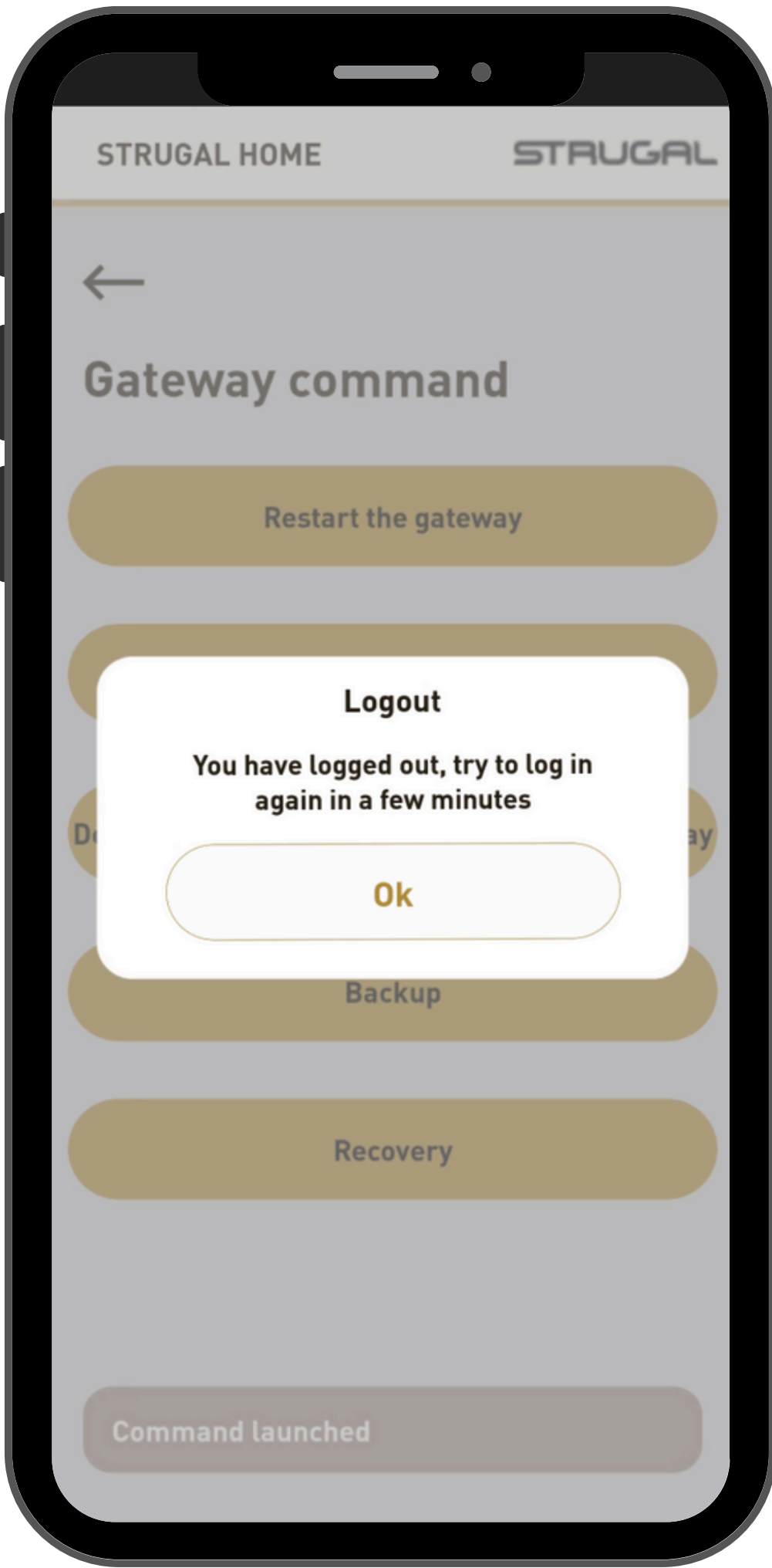


Fig. 56

When you log in again, the configuration will be that of the backup.

USB UPDATE

PROCEDURE

Turn off the Gateway.

Connect the USB memory stick containing the update file provided by the manufacturer and restart the Gateway by pressing the power button.

As soon as the Gateway detects the update file on the USB memory stick, the LED will start flashing GREEN-RED. To proceed with the update, leave the USB memory stick inserted in the Gateway, otherwise remove it within 10 seconds.

If it proceeds with the update, the Gateway will restart, at which point the YELLOW LED will light up again and after a few moments the RED-GREEN-BLUE rapid flashing will begin. Do not remove the USB memory during this phase.

After the update, which can take several minutes, the Gateway will restart (YELLOW status LED). At this point, remove the USB memory stick to allow the Gateway to start up normally and to prevent the update from being repeated.



ST