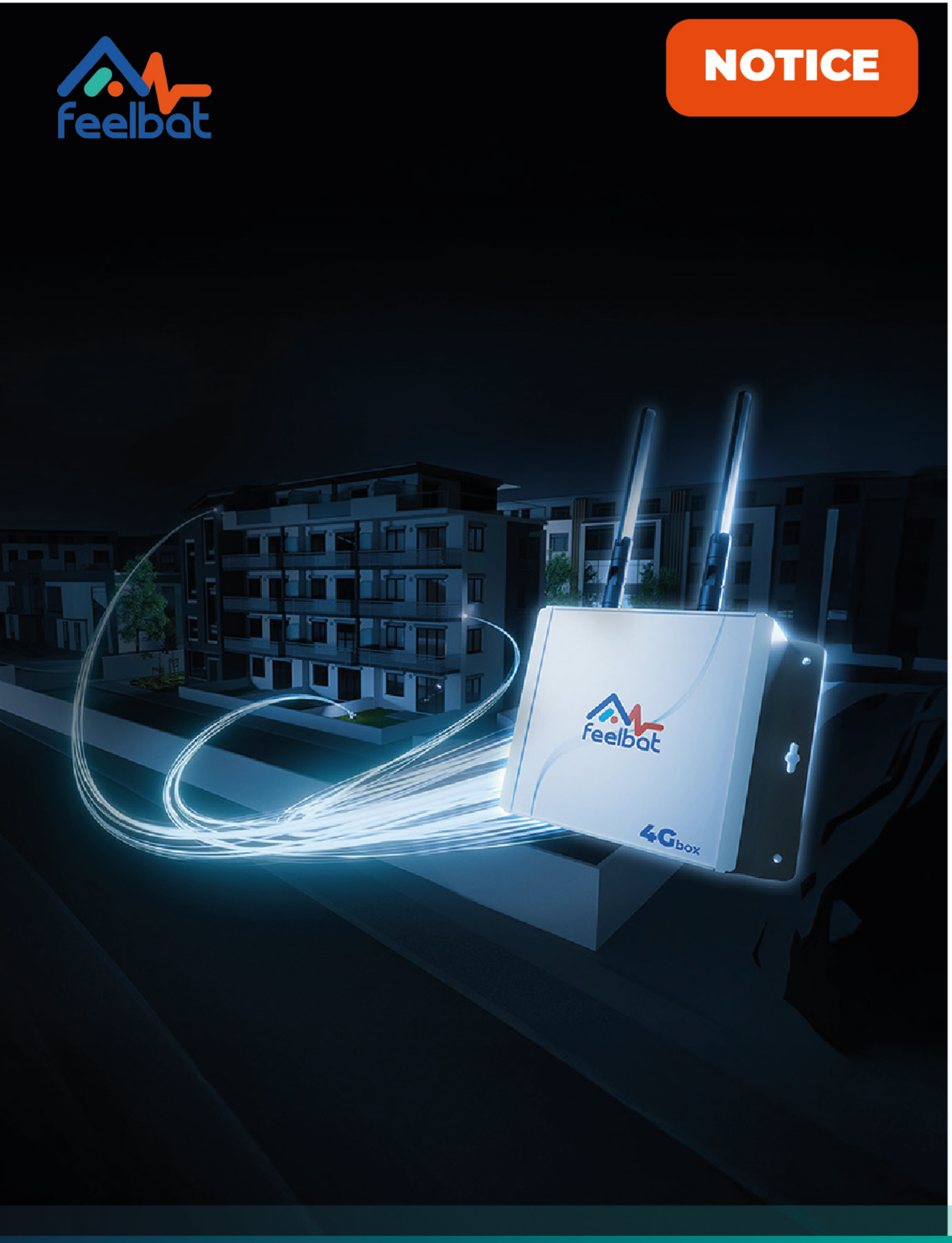
feelbat

NOTICE



FEELBOX

Connection via 4G network

The Feelbox is a connected gateway designed to centralize data from multiple remote sensors via the 4G network.

Compact, robust and easy to install, it ensures reliable and continuous monitoring, even on isolated or hard-to-access sites.

The FEELBOX, our new 4G gateway, provides optimal network coverage for your FEELBAT sensors, relying on major operators such as Bouygues, SFR and Orange.

Compact & Resistant
IP65

Autonomous
No wires or solar panels

Plug & Play
Easy to use and install

Batteries
3x Batteries 3,6 V - 17 Ah

Connected
Extended network coverage

Features

Batterie 3,6 V - 17 Ah - **Batterie life** up to 2 years*	**Protection** IP65	**Remote modification of measurement interval**
Dimensions 20 x 16 x 6 cm	**Range** 25 – 30 m in open field	**Up to 10 connected sensors**
Weight 300 g	Fully autonomous	Quick installation
4G SIM multi-operator technology	**Extended network coverage**	**Operating temperature** -20°C to + 70°C

* *Depending on the measurement interval, FEELBOX exposure and data transfer mode (Bluetooth, LPWAN, etc.).*

Wall mounting

Without mounting

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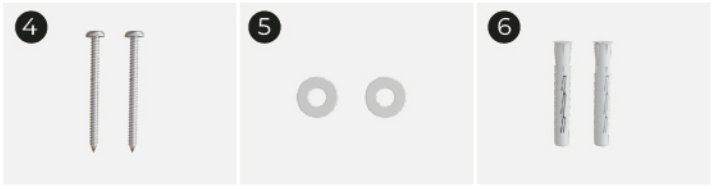
01 Packing List

Mounting hardware



4. 2 wood screws 5 × 60 mm
5. 2 flat washers M5, INOX A2
6. 2 universal nylon wall plugs, 8 × 52

02 Recommendations

This installation guide is also available in video format

Watch the configuration video

Mounting advice

- TORX T25 screwdriver
- Hammer
- Drill with suitable bit – drilling Ø 8 mm for nylon wall plug
- Mason's pencil

03 FEELBOX Start-up

Step 1

Please follow the numbers shown in green, they correspond to the items in the packing list.

To begin, **identify the 4G antenna** *(2)* **and the Bluetooth antenna** *(3)*.

⚠ The 4G antenna has a small visual mark on the top as well as a male connector.

First, connect the 4G antenna *(2)* to the 4G port (blue).

⚠ The 4G antenna has a small visual mark on the top as well as a male connector.

Then, connect the Bluetooth antenna *(3)* to the port (orange).

⚠ The Bluetooth antenna has a female connector.

Your FEELBOX is ready to be configured.*

Our FEELBOX is now

✓ **prepared**

*** Turn the antennas so that the bends face toward you, so that you can later fold them in the required direction according to the on-site network analysis.**

04 Download the application

To connect your sensor, you must install the FEELBAT mobile application.

GET IT ON Google Play

Download on the App Store

Download the Feelbat application from your smartphone's store.

Accept all access requests to fully use the application.

Sign up, then a confirmation email will be sent to you.

If you encounter any issues, contact us at: *(may appear in your spam folder)*
SAV@feelbat.fr

04 Connect your sensor

After registering, **open the FEELBAT application.**
You will then be guided to add and configure your first FEELBOX.

Stay nearby!

When connecting your FEELBOX, it must be close to you to detect Bluetooth.

Position yourself at a **maximum distance of 25–30** meters from the FEELBOX in open field (i.e. with no obstacles between you and the FEELBOX).

Without a communication token, you will not be able to receive data remotely.

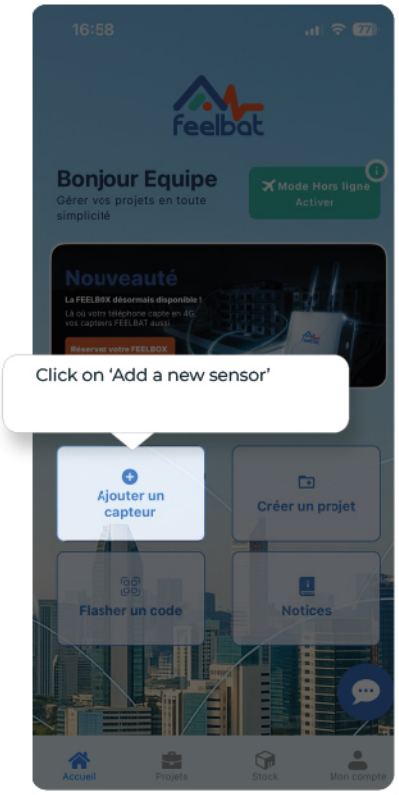
If you wish to activate remote connection, you must have at least 10 credits. To do so, contact your advisor or write to us.

If you do not have 4G coverage, the FEELBOX will not work.

⚠ **Do not forget to activate Bluetooth on your phone.**

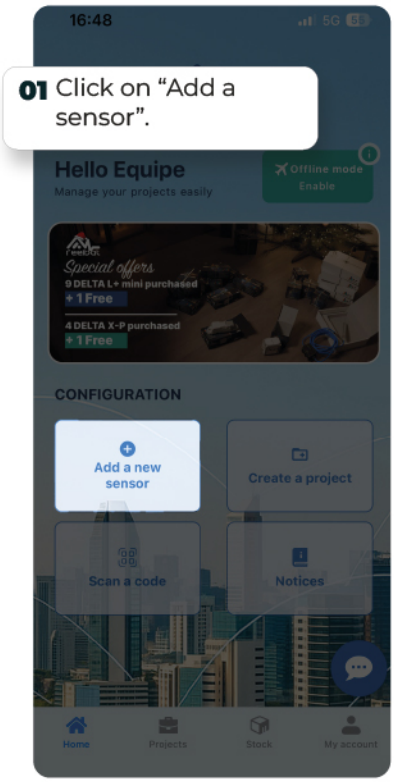
If you have not yet activated your communication token, it is not too late!
From the list of your sensors to be paired, you can activate the tokens directly.
Step 4: Pair your sensors

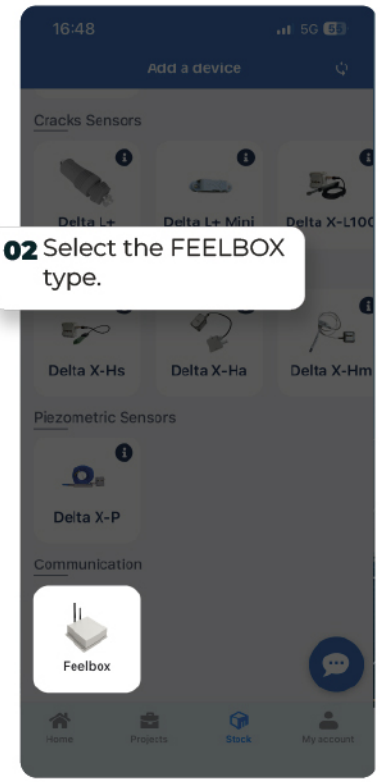
Once activated, the sensor will communicate within a few seconds to a few hours, depending on site exposure.
It is recommended to activate the token 24 hours before deployment.

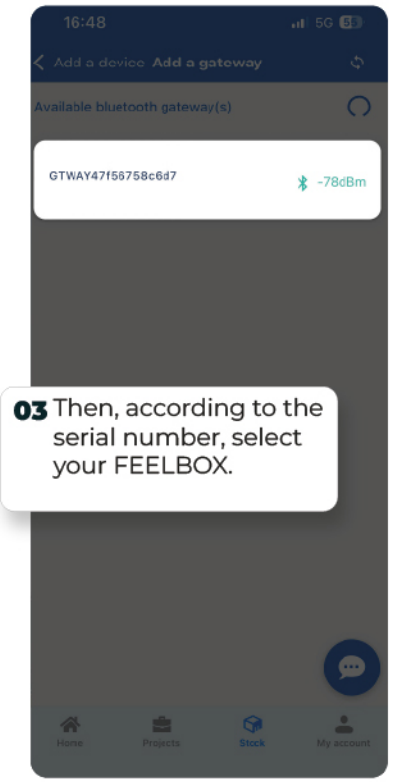


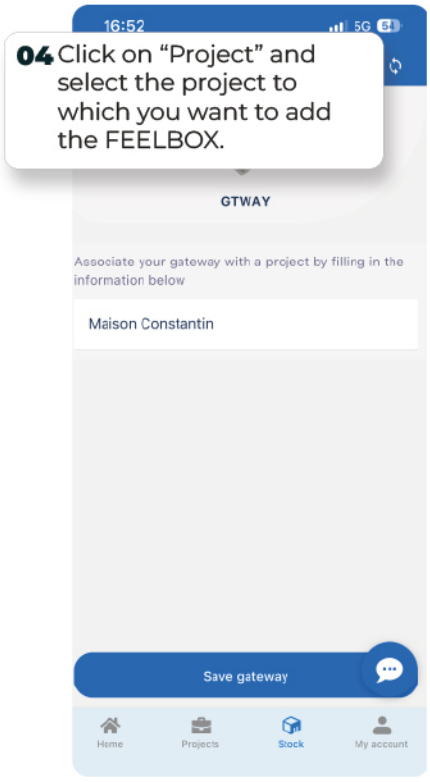
05 Add your FEELBOX to the application

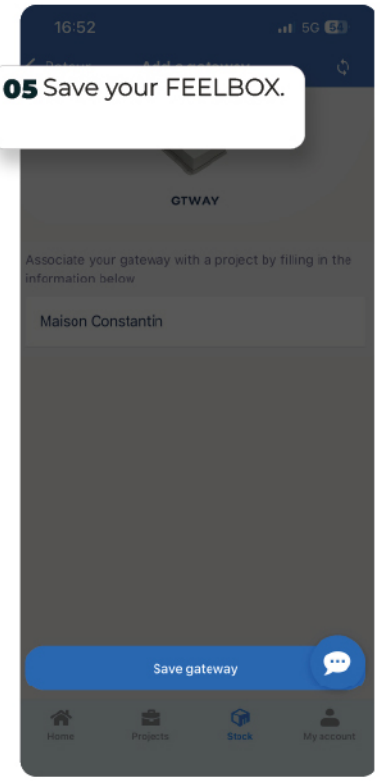
Add a FEELBOX

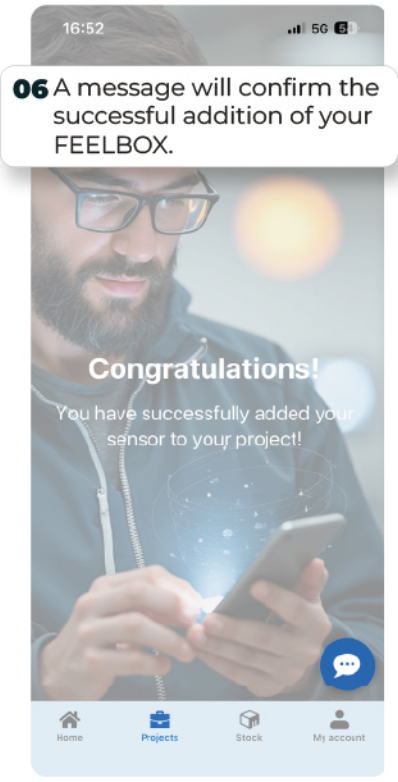




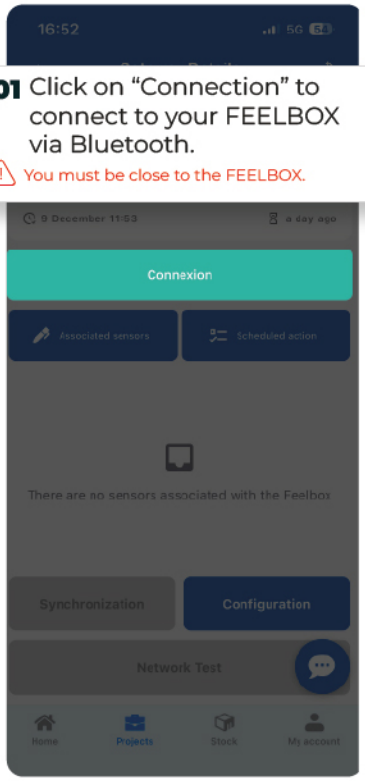








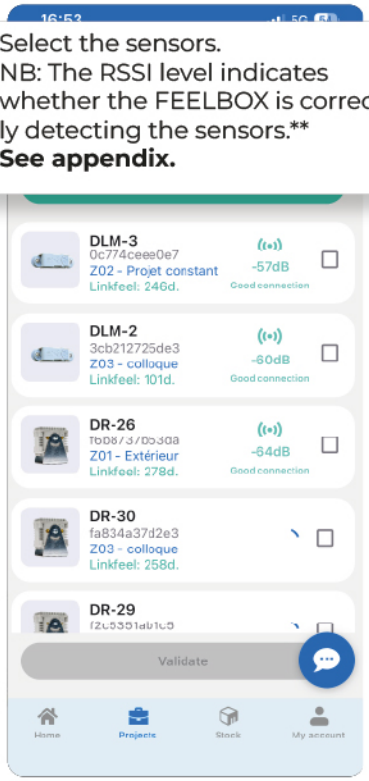
Pair your sensors



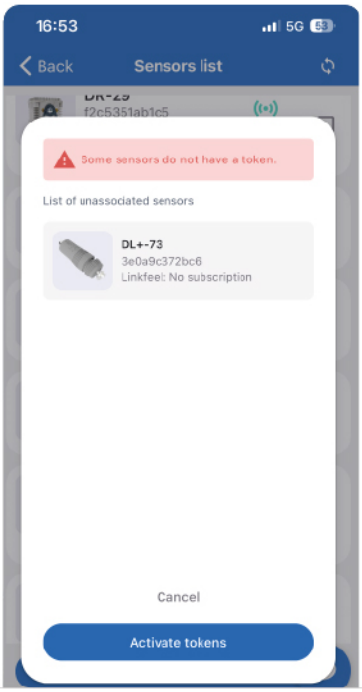
01 Click on “Connection” to connect to your FEELBOX via Bluetooth.

⚠ You must be close to the FEELBOX.

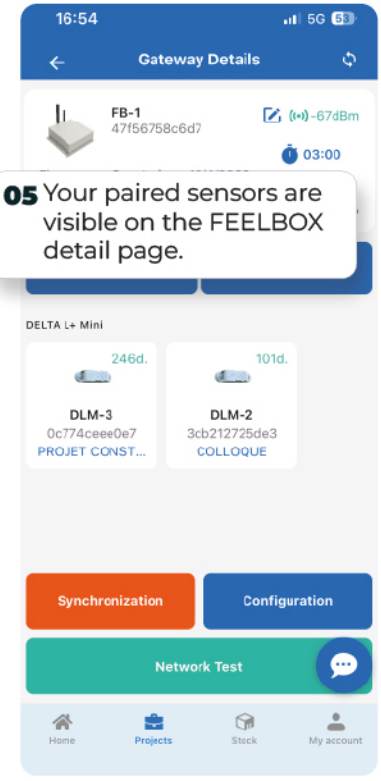
02 Then, pair the sensors you want to connect to the FEELBOX.



03 Select the sensors.
NB: The RSSI level indicates whether the FEELBOX is correctly detecting the sensors.**
See appendix.



04 All sensors must have a communication token to be connected to the FEELBOX.
If not, click on “Activate tokens”: they will then be automatically activated and linked to the FEELBOX.

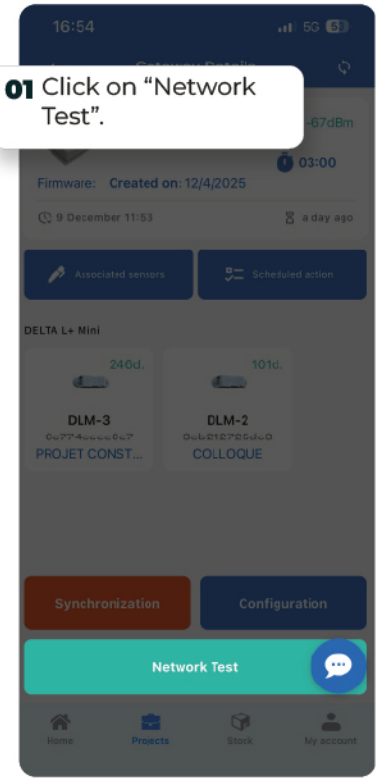


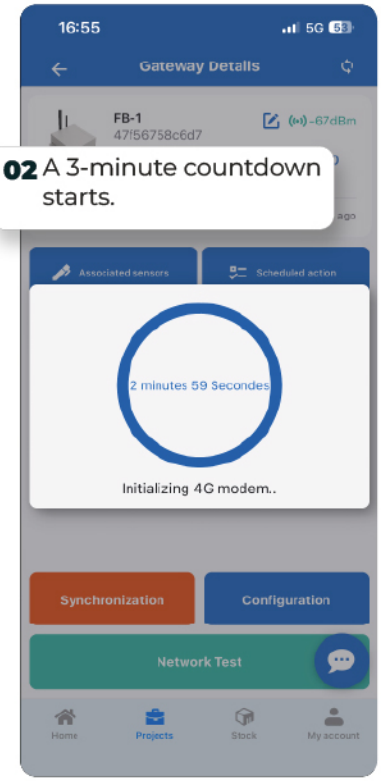
05 Your paired sensors are visible on the FEELBOX detail page.

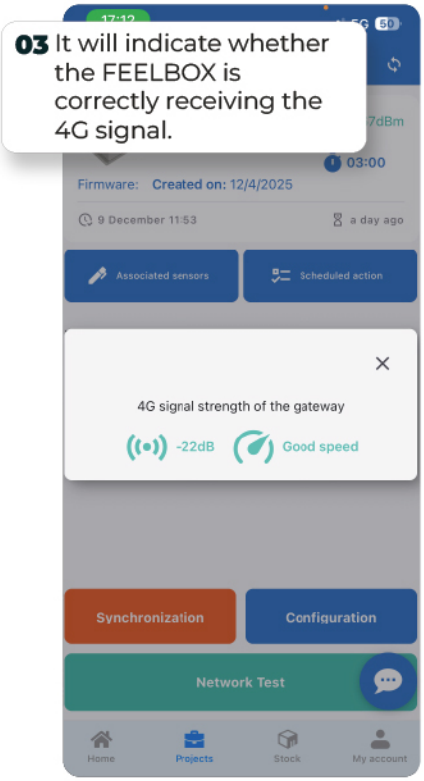
**This mapping makes it possible to determine the optimal location of the FEELBOX on site.

Depending on the RSSI values, move around the site with the FEELBOX and refresh the page to update the RSSI data.

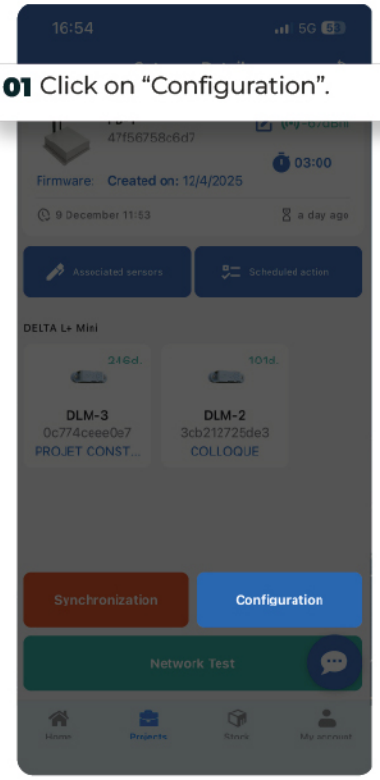
Mandatory network test

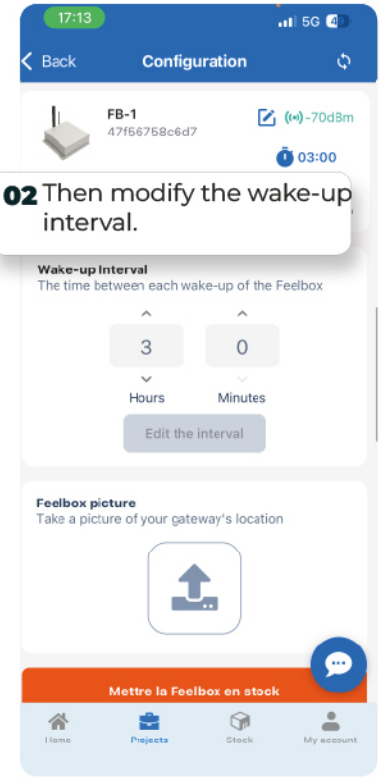






Setting the FEELBOX measurement interval



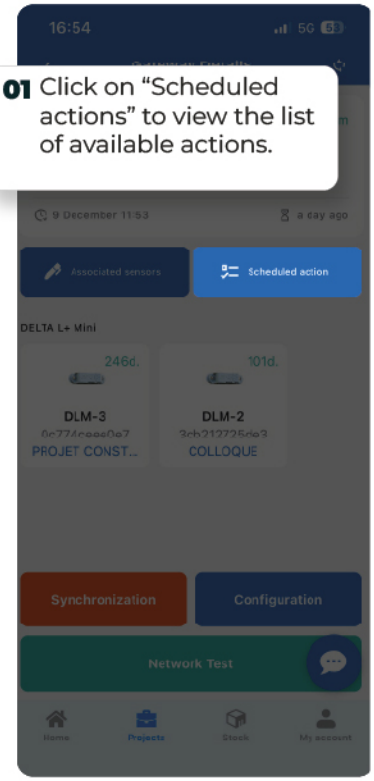


The wake-up interval defines the frequency at which the FEELBOX becomes active.
Data transmission and actions are performed according to this interval.
Each sensor stores all measurements in its internal memory and, thanks to the communication tokens, sends them via Bluetooth to the FEELBOX according to this measurement frequency.

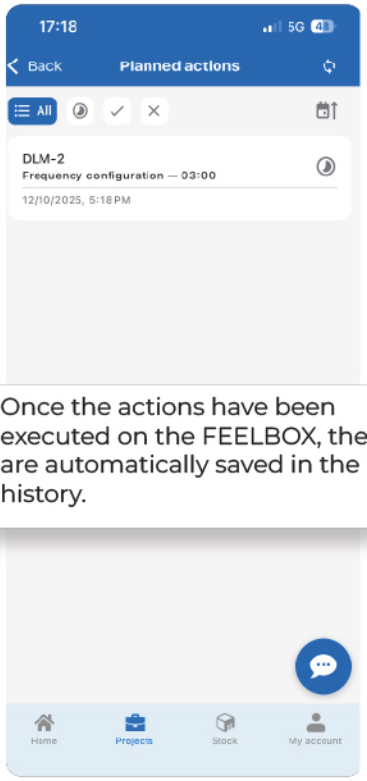
➔ It is also possible to change this measurement interval remotely (without being connected to the FEELBOX via Bluetooth).

The FEELBOX measurement interval is not the same as the sensor measurement interval.

Scheduled actions



01 Click on “Scheduled actions” to view the list of available actions.

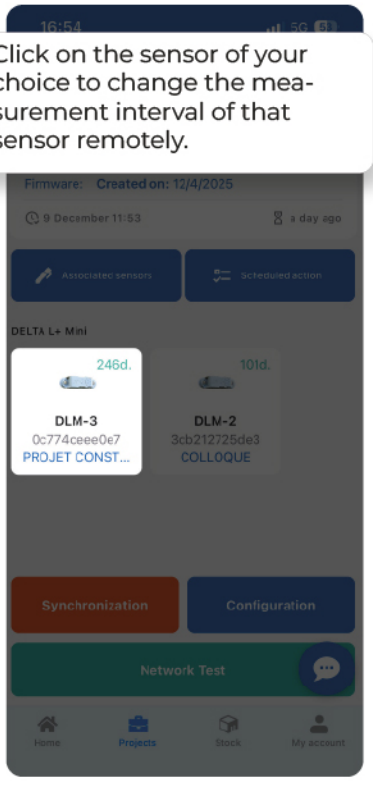


02 Once the actions have been executed on the FEELBOX, they are automatically saved in the history.

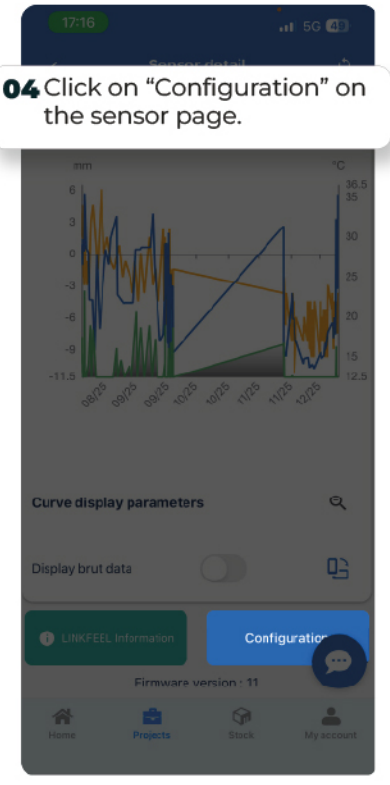
What are scheduled actions for?

Scheduled actions allow you to perform various remote operations, such as:

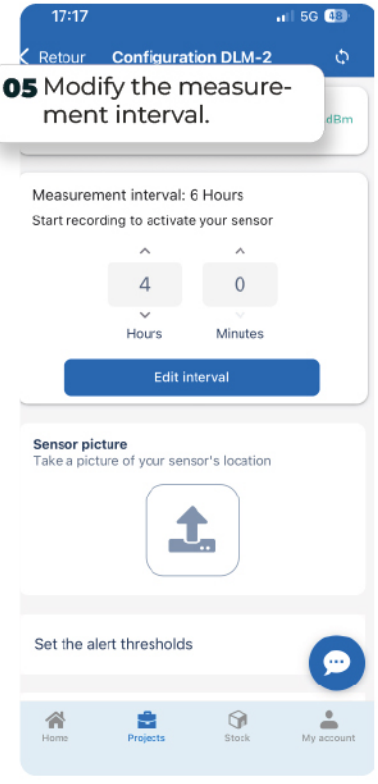
- Changing the measurement interval of one or several sensors (applied at the next FEELBOX wake-up)
- Remote data resynchronization
- Changing the FEELBOX measurement interval
- Generating a bug report



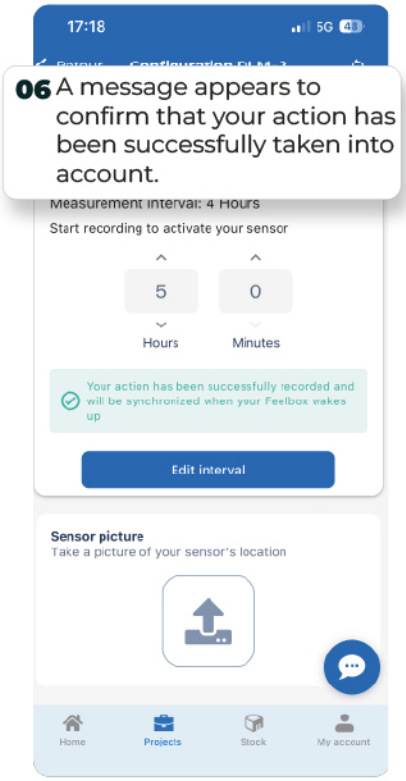
03 Click on the sensor of your choice to change the measurement interval of that sensor remotely.



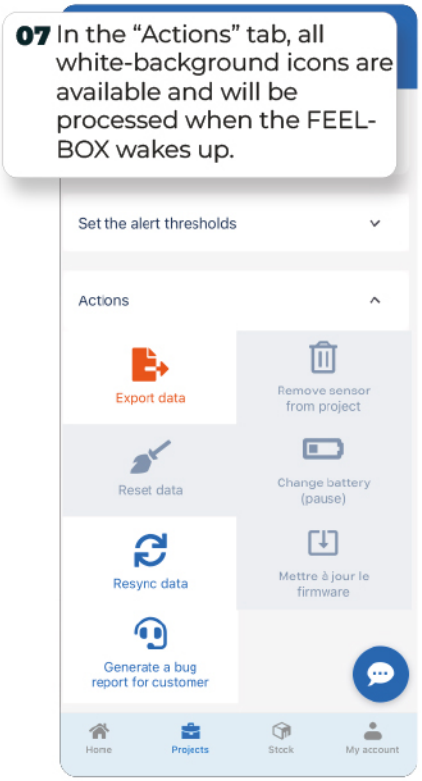
04 Click on “Configuration” on the sensor page.



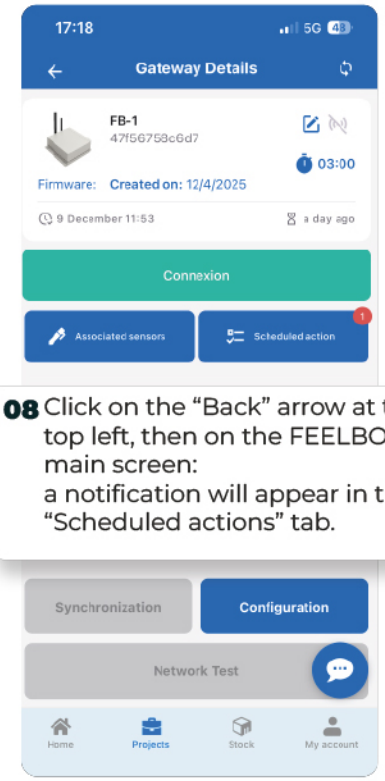
05 Modify the measurement interval.



06 A message appears to confirm that your action has been successfully taken into account.



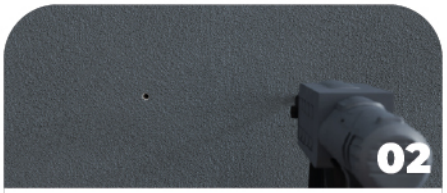
07 In the "Actions" tab, all white-background icons are available and will be processed when the FEEL-BOX wakes up.



08 Click on the "Back" arrow at the top left, then on the FEELBOX main screen:
a notification will appear in the "Scheduled actions" tab.

06 Install your FEELBOX

Mark the reference points using the FEELBOX as a guide.



Using a drill with a bit suitable for the material, **drill at the marked points with an 8 mm bit** (approx. 6 cm deep).

⚠ Remember to remove the dust using a blower.

Insert the supplied wall plugs *(6)* then tap them in with a hammer.

Then insert the washers *(4)* **and the screws** *(5)* **to fix the FEELBOX.**

Using a T25 screwdriver, tighten the screws. *(5)*

Your FEELBOX is now fixed to the wall.

For better reception, adjust the antennas (from 0° to 90°) and check the signal level of your sensors in the “Associate my sensors” window.

Step 07 is essential to ensure the ideal position of your FEELBOX.

Your FEELBOX is now:

- ✓ **connected**
- ✓ **configured**
- ✓ **ready**
- ✓ **installed**

If you have not yet activated your communication token, it is not too late!
From the list of sensors to be associated, you can activate the tokens directly.
Step 4: Associate your sensors

Once activated, the sensor will communicate within a few seconds to 4 hours depending on site exposure. It is recommended to activate the token 24 hours before deployment.

07 Appendix: RSSI

Bluetooth reception between the FEELBOX and the sensor

RSSI Value	Indicator	Interpretation Bluetooth connection to the sensor
40 to 85 dBm	Excellent	Good connection
85 to 95 dBm	Good	Average connection
+95	Limited	Poor connection Risk of intermittent data retrieval

07 Appendix: 4G Signal Strength

4G reception of the FEELBOX

Signal value	Indicator	Interpretation
- 90 dB	Good	Good connection
+ 90	Poor	Poor connection Risk of intermittent data retrieval
/	KO	No signal Reception impossible

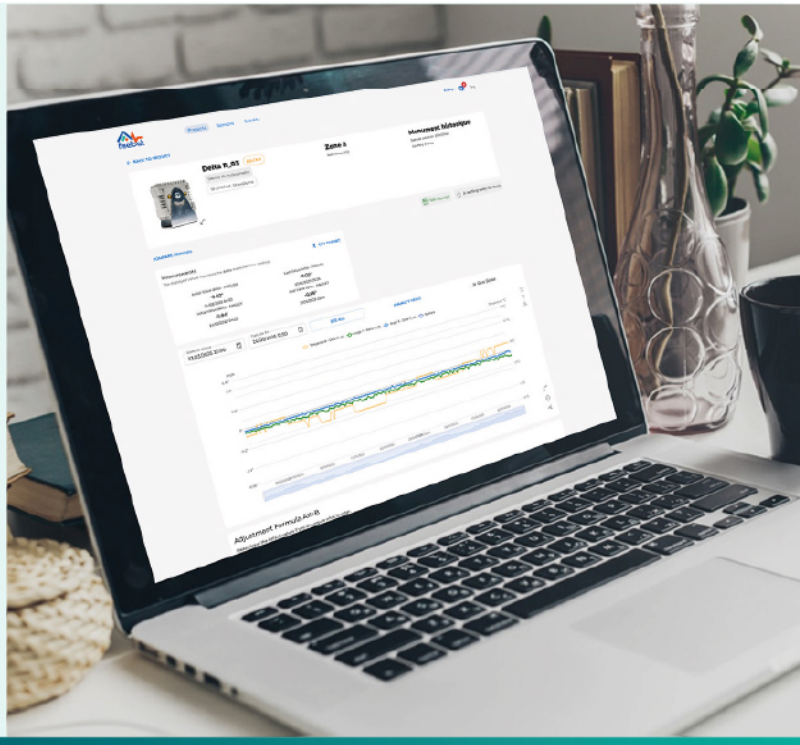
08 Web monitoring

Go further!

All the features available on the application are also accessible via the web, making it easier to analyze and compare charts.

- ✓ SIMPLIFIED PROJECT MANAGEMENT
- ✓ ZONE VISUALIZATION
- ✓ CURVE ANALYSIS
- ✓ PDF REPORT GENERATION

ACCESS THE WEB APPLICATION



Test Button

The test button allows you **to check Sigfox coverage** when the exact address or location of the sensors has not yet been defined, thus ensuring the proper functioning of the device.

Solutions to extend your network and ensure data recovery from your sensors

The FEELBOX

The FEELBOX is a 4G gateway that ensures data transmission from your FEELBAT sensors when Sigfox coverage is insufficient.
Wherever a 4G connection is available, your sensors can transmit their measurements.

The Repeater

The repeater extends the range of sensors in low Sigfox coverage areas.
It can relay up to 15 sensors (140 messages/day) and operates on battery power with a battery life of 1 to 7 years depending on use.
A 1-year subscription is included, renewable with a LINKFEEL token.

Sigfox Microstation

The Sigfox microstation extends Sigfox coverage indoors or in poorly covered areas.
It operates on 220 V with Ethernet or 3G/4G connection (optional).
An IP65 enclosure is recommended for outdoor use.
3G/4G USB dongles are available as an option (SIM card not included).

If you have any questions, please contact us:
SAV@feelbat.fr

09 Useful Information

FEELBAT products are covered by the legal warranty of conformity.
This warranty covers defects of conformity with respect to the sales contract that appear within two years following delivery of the product.
They are also covered by the warranty against hidden defects, which applies to defects not apparent at the time of sale and which render the product unfit for use or significantly reduce its use.
As such, the warranty does NOT apply in the following cases:

- The sensor has fallen
- The housing is damaged (impacts, cracks, marks)
- The sensor is used for non-compliant purposes
- The sensor has been immersed in water
- The sensor is stored or used outside the temperature range (-25 °C to +70 °C)
- The fixings restrict the linear operation of the sensor
- The sensor is used beyond its measurement range
- The sensor was purchased more than 2 years ago

Have a question?

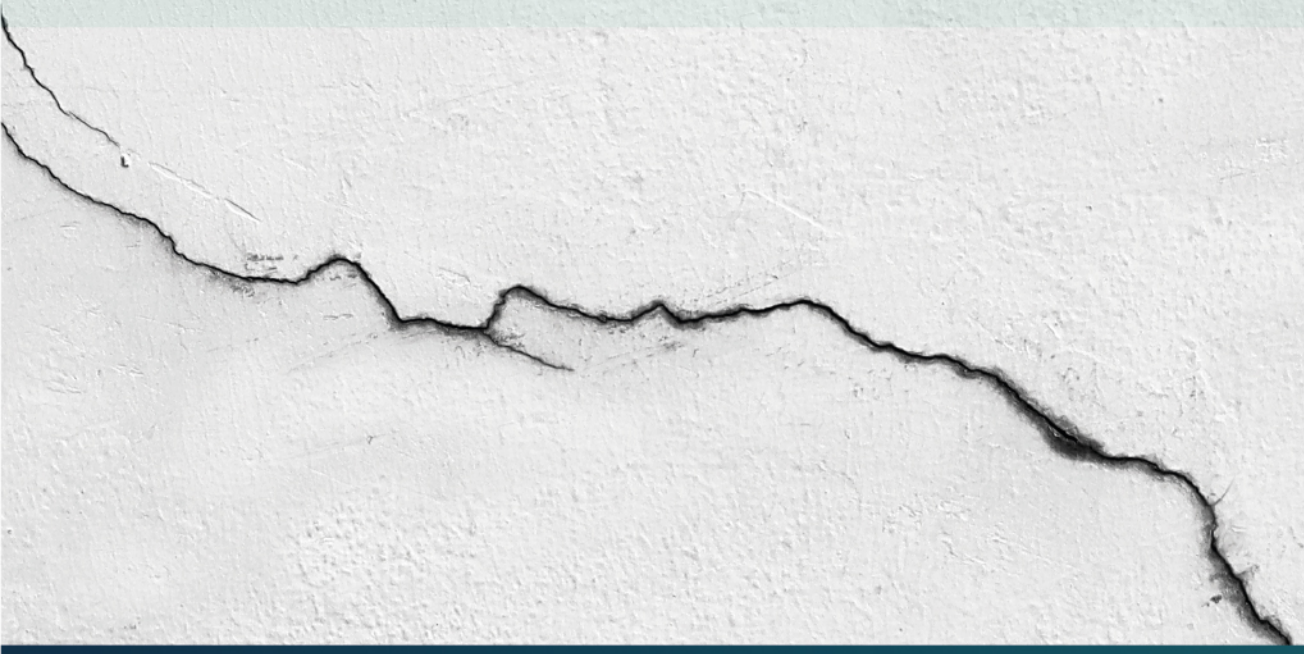
Visit our FAQ: it gathers answers to the most frequently asked questions and guides you step by step in using our solutions.

Access the FAQ

If you have a crack
You FEELBAT

Discover our tutorial videos

Watch the help videos



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