feelbat

NOTICE


# SIGFOX TEST BUTTON GUIDE

Test the Sigfox network reception level

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# 01 Introduction

## How to ensure reliable data transmission?

This guide explains how to configure and use the network test button.

It is strongly recommended to carry out this test before installing connected sensors with a Linkfeel token, in order to verify the proper automatic transmission of the measured data.

Thanks to an Android mobile application, the test button allows you to visualize the Sigfox network reception quality, regardless of the installation location.

**You must be equipped with the test button and your Android smartphone with the application installed on site in order to perform the network tests.**


**To test the Sigfox radio network, you must:**

Send an email to sav@feelbat.fr with the following information for registering the tester in our database and assigning the Linkfeel token (without this step, the tester will not be usable):

- User (Last name / First name / Company)
- Company address
- Test button purchase date
- Order number
- Tester ID number (located on the back of the tester)
- PAC number located under the ID

⚠ At the time of purchase, the network tester is sold with one year of Linkfeel subscription. After this period, renewal through the purchase of a Linkfeel token is required to ensure continued proper use of the network tester.

# 02 Download Coverage

## Prerequisites

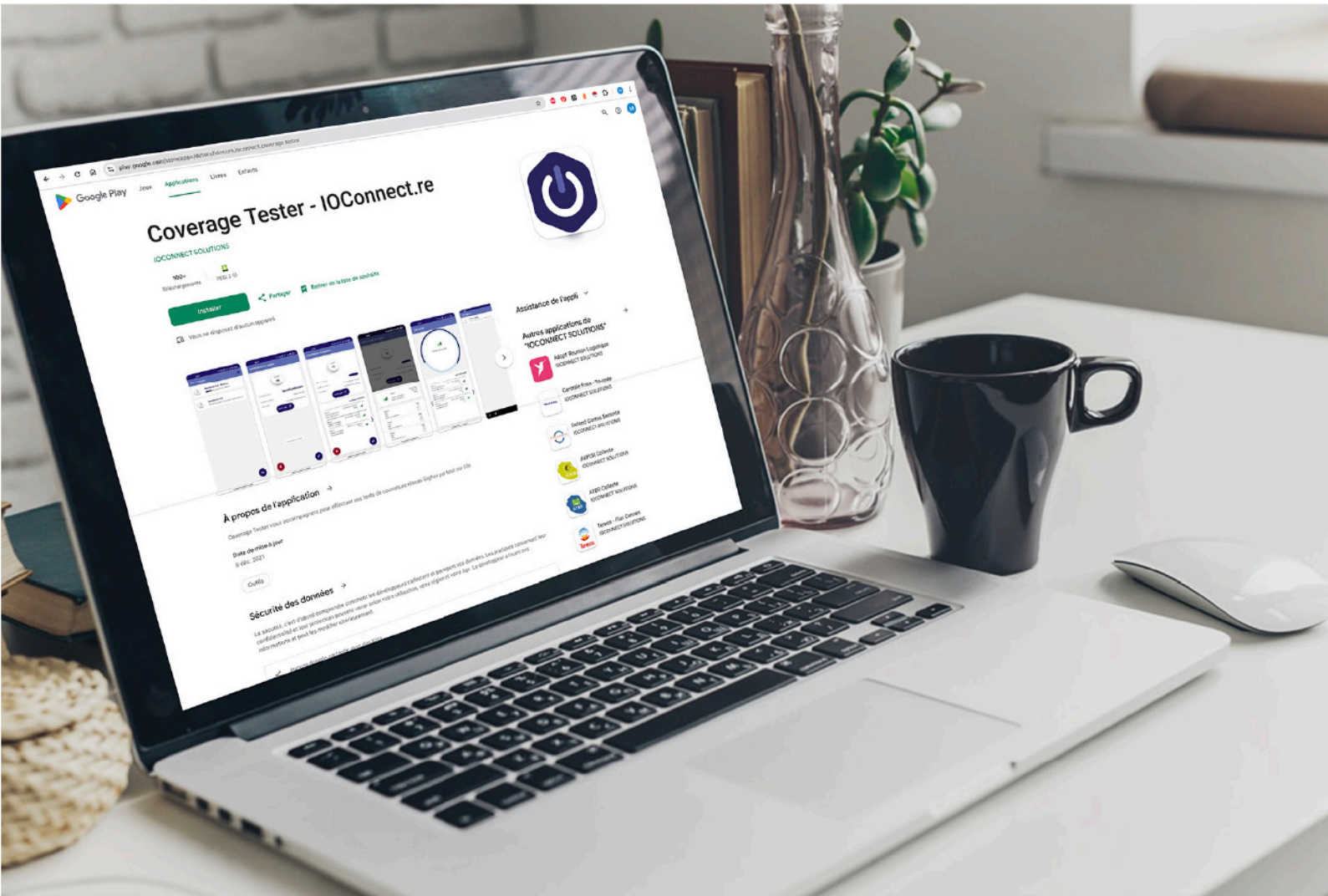
An active network tester

An Android phone or tablet

The Coverage Tester application

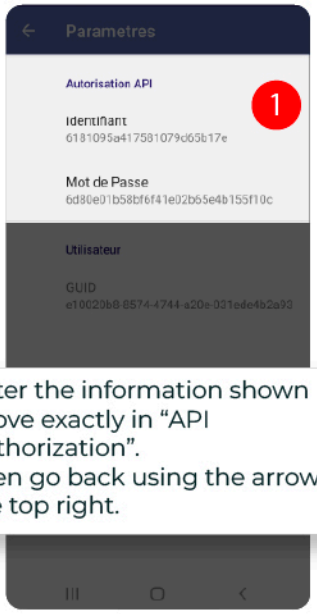
https://play.google.com/store/apps/details?id=com.ioconnect.coverage.tester

**Download the application**

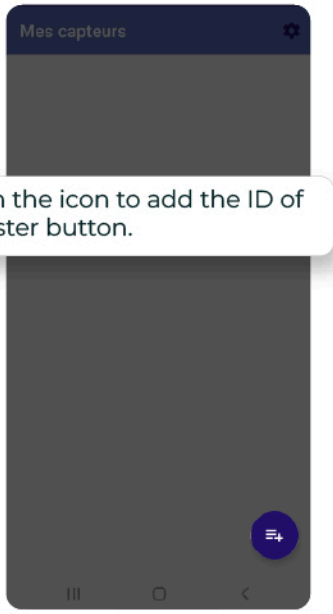


# 03 Installation

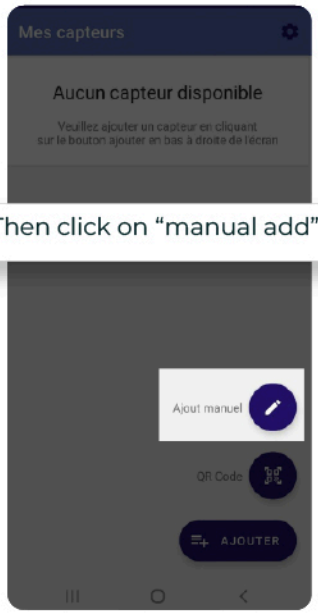

**01** Click on the settings icon.




**02** Enter the information shown above exactly in “API Authorization”.
Then go back using the arrow at the top right.

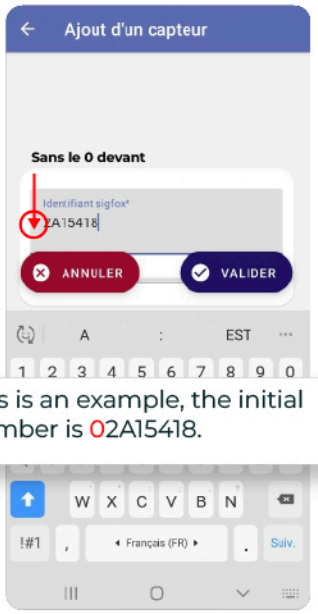



**03** Click on the icon to add the ID of your tester button.




**04** Then click on “manual add”.

**05** Then enter the ID indicated on the back of your tester **(without the 0)**, then click on “Validate”.
You can also add a label and a description, but these fields are optional.

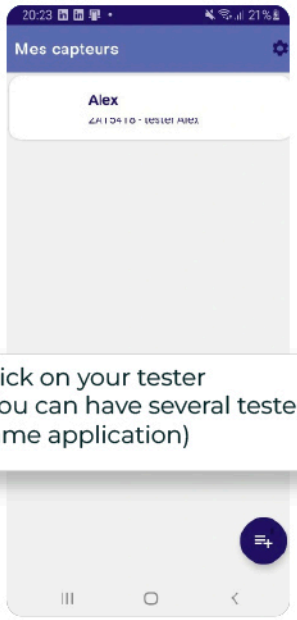

**06** This is an example, the initial number is 02A15418.

1 **Identifier**
6181095a417581079d65b17e

**Password**
6d80e01b58bf6f41e02b65e4b155f10c

- The application can be installed on several Android phones using the same ID.
- ⚠ Warning: if one of the users starts a network test, all devices linked to the same ID will receive the network notification.

# 04 Network Analysis

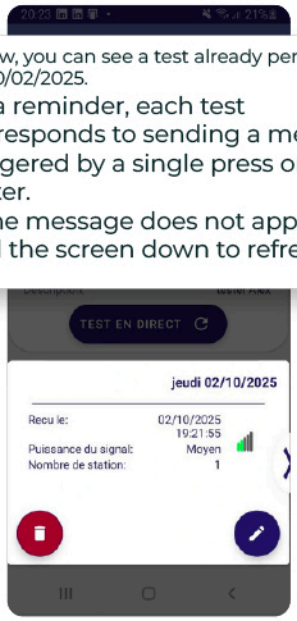



**01** Click on your tester
(You can have several testers in the same application)

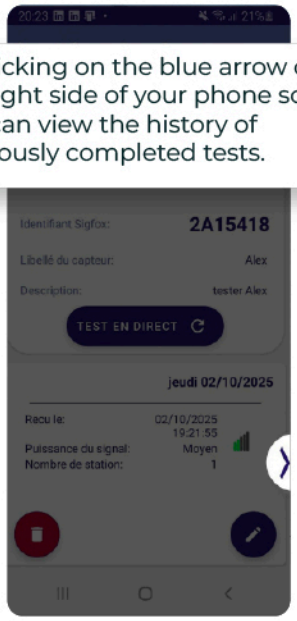
**Press your tester button <u>once</u>**

After pressing it, the LEDs will flash (red, green or blue). The displayed color has no relation to the test result.

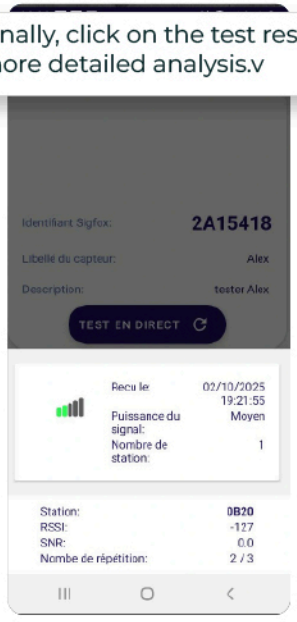
Do not pay attention to the test time
(local time: Réunion)




**02** Below, you can see a test already performed on 10/02/2025.
As a reminder, each test corresponds to sending a message, triggered by a single press on your tester.
If the message does not appear, pull the screen down to refresh.

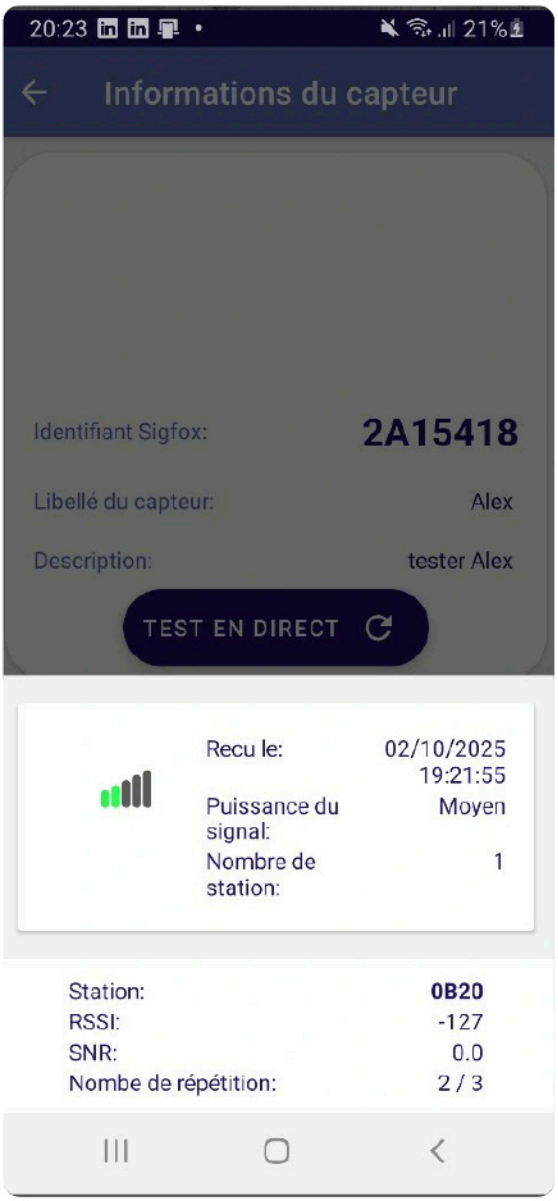



**03** By clicking on the blue arrow on the right side of your phone screen, you can view the history of previously completed tests.




**04** Finally, click on the test result for a more detailed analysis.v

# 05 Network Analysis (Detailed Results)




Test date = 02/10/2025

Number of stations: Number of Sigfox antennas transmitting = 1

Number of stations: Number of Sigfox antennas transmitting = 1

**Station**
Antenna number received

**RSSI**
Signal strength indicator received (in dBm) – negative value

**SNR**
Signal-to-noise indicator – generally close to 0

**Number of repetitions**
Each press on the button sends 3 test messages via Sigfox.
The indicator “3/3” confirms that all 3 messages were correctly received.

## Tip

Note: The lower the RSSI, the lower the number of repetitions, and the better the SIGFOX transmission quality.

If you do not receive any message after several presses, this means that you are in an area not covered by the SIGFOX network.

# 06 Useful information

| RSSI Value | Receiver Redundancy | Indicator | Interpretation |
|---|---|---|---|
| -122 dBm < RSSI | 3 | Excellent | Sigfox ok |
| -135 dBm < RSSI < 122 dBm | 3 | Good | Sigfox ok |
| -122 dBm < RSSI | 1 or 2 | Good | Sigfox ok |
| -135 dBm < RSSI < -122 dBm | 1 or 2 | Average | **Plan a Sigfox repeater** (depending on site analysis) **Or plan a FEELBOX** (depending on site configuration) |
| RSSI < 135 dBm | 1 or 2 | Limited | **Plan a Sigfox microstation** (depending on site analysis) **Or plan a FEELBOX** (depending on site configuration) |

The interpretation provided by FEELBAT is intended to assist you in analyzing the on-site signal in order to optimize your instrumentation project.
On site, it is the user's responsibility to map the area to obtain a global view of future installations.

## Feelbat Support Contact

For any request, please contact Feelbat technical support, who will be able to offer a solution or direct you to the appropriate department as quickly as possible.

+33 4 123 800 90

Option 1: Sales department
Product information or order tracking.

Option 2: Technical department
Assistance in case of doubt or on-site difficulty, before or during an intervention.

## TIP

Using a repeater allows you to relay the signal when you have medium/good/excellent radio coverage, and when your sensor is placed in specific conditions (cellar, behind a thick wall, etc.).

When you have no network coverage and you wish to benefit from remote data management, it is recommended to use a mains-powered microstation equipped with a 4G M2M dongle.

# If you have a crack
# You FEELBAT

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