



# Sigfox Button Manual

Test the Network Reception Level

# Introduction



## How to Ensure Proper Data Transmission?

This document will guide you in setting up your network tester button and using it.

Performing this network test is strongly recommended before installing connected sensors with a Linkfeel token to ensure automatic transmission of the measurements sent by the sensor.

Through an Android mobile application, the tester button will give you access to the Sigfox network reception levels, wherever you need to measure them.

If you encounter a problem, contact us at:  
**SAV@feelbat.fr**  
(Check your spam folder if needed)

## To test the Sigfox radio network, you need to:

Send an email to [sav@feelbat.fr](mailto:sav@feelbat.fr) with the following information to register the tester in our database and assign a Linkfeel token (without it, the tester will be unusable):

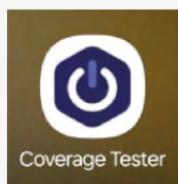


- User (Name/First Name/Company)
- Company address
- Purchase date of the tester button
- Order number
- Tester ID number (located on the back of your tester)
- PAC number located under the ID



When purchasing, the network tester is sold with a Linkfeel subscription. After the first year, renewing the subscription by purchasing a Linkfeel token is required to ensure proper use of the network tester.

## Terms of Use:



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

A network tester purchased from FEELBAT (after 02/05/2024 or before 02/05/2024 under the annual renewal of the Sigfox subscription).

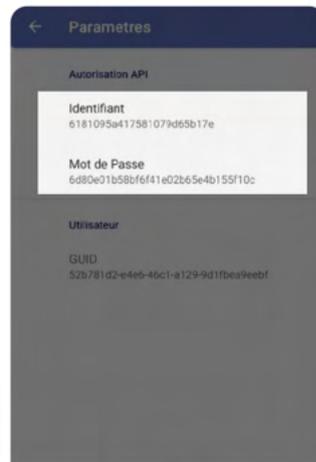
An Android phone or tablet to access the application.

Download the Coverage Tester application – available here by copying the link into your SMS/email or accessing it directly on your Android phone or tablet

# Installation



Click on the settings icon.



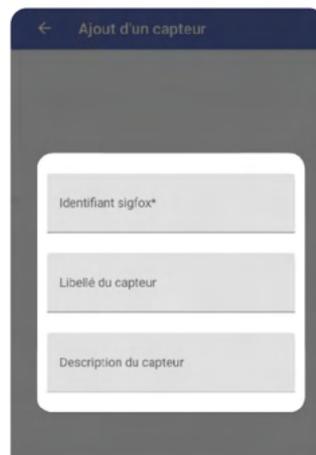
Enter the above information exactly as shown in "API Authorization". Then go back using the arrow at the top right.



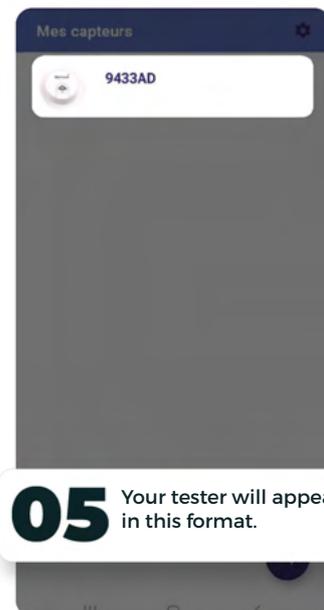
Click on the icon to add your sensor.



Then click on Manual Addition.



Enter the ID located on the back of your tester and click Validate. You may also choose to fill in a label and a description for the sensor. (These fields are optional.)



Your tester will appear in this format.

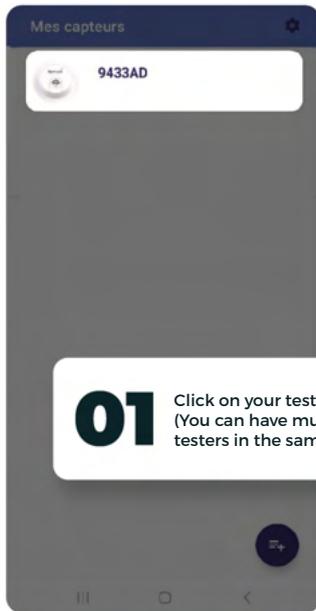


## TIP

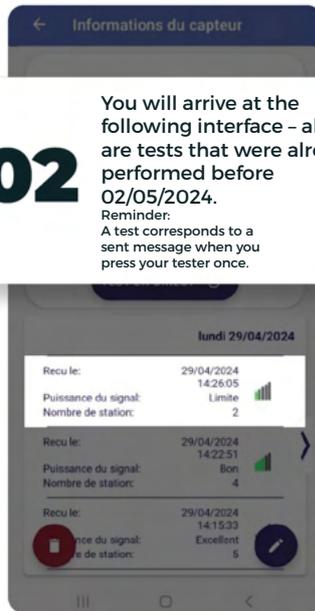
You can also choose the QR code option. To add your sensor, simply scan the QR code located on the back of your tester.

This application can be used on multiple Android phones with the same ID number. However, every time a user tests the network, all users with the mobile application and the same ID registered will receive the network notification (see next steps).

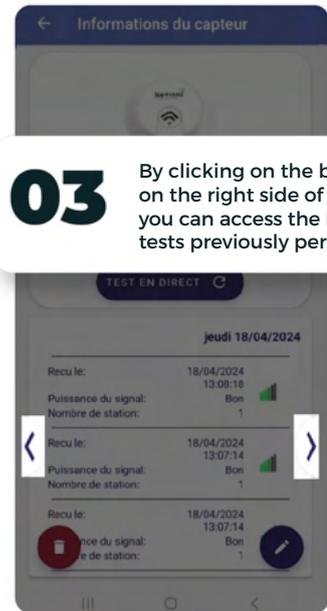
# Network Analysis



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



**02** You will arrive at the following interface - above are tests that were already performed before 02/05/2024.  
Reminder:  
A test corresponds to a sent message when you press your tester once.



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



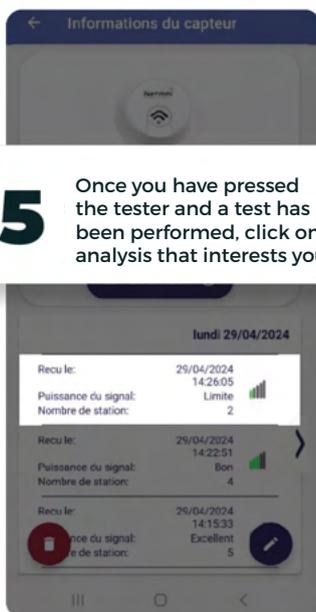
**04** By selecting the "Live Test" feature, place the tester button in the location where you wish to test the network.



**04** The network test will then proceed.



**05** Your tester appears in this format.



**05** Once you have pressed the tester and a test has been performed, click on the analysis that interests you.



**05** Then click on the test result for a more detailed and precise analysis.

# Good to Know

RSSI Value	Receiver Redundancy	Indicator	Interpretation
$-122 \text{ dBm} < \text{RSSI}$	3	Excellent	
$-135 \text{ dBm} < \text{RSSI} \leq -122 \text{ dBm}$	3	Good	
$-122 \text{ dBm} < \text{RSSI}$	1 or 2	Good	
$-135 \text{ dBm} < \text{RSSI} \leq -122 \text{ dBm}$	1 or 2	Average	Plan for a Sigfox repeater (Subject to on-site analysis)
$\text{RSSI} \leq -135 \text{ dBm}$	1 or 2	Limited	Plan for a Sigfox microstation (Subject to on-site analysis)

The interpretation provided by FEELBAT is designed to assist you in analyzing the signal on-site to refine your instrumentation project. On-site, the user's responsibility is to map the area to gain an overview of future instrumentation zones.



For assistance, contact FEELBAT technical support

**04 123 800 90**

**Option 1:** Commercial Service

For information on commercial products or order progress.

**Option 2:** Technical Service

If you have questions or encounter difficulties on-site during an intervention.

**Option 3:** Administrative and Financial Service

For any topics related to payments and general management.



## Tip

Using the repeater allows you to relay when you have a medium/good/excellent radio network, and your sensor is positioned in specific conditions (e.g., a basement, behind a thick wall, etc.).

When there is no network and you want remote data management, a microstation connected to the power supply and equipped with a Dongle + 4G M2M key is required.

# Test Analysis



Station: Number of the detected antenna.

RSSI: Signal strength indicator (in dBm) - negative value.

SNR: Signal-to-noise ratio indicator - generally a value close to 0.

Repetition count: Each press on the button sends 3 test messages via Sigfox; the repetition 3/3 confirms the reception of all 3 sent messages.

Test performed on: 29/04/2024

Signal strength: Good (Sigfox signal strength)

Number of stations: Number of Sigfox transmitting antennas = 4



## Tip

Note: The weaker the RSSI value, the fewer repetitions will be needed, indicating better Sigfox transmission quality.

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

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