



DELTA R

Monitoring of tilt movements

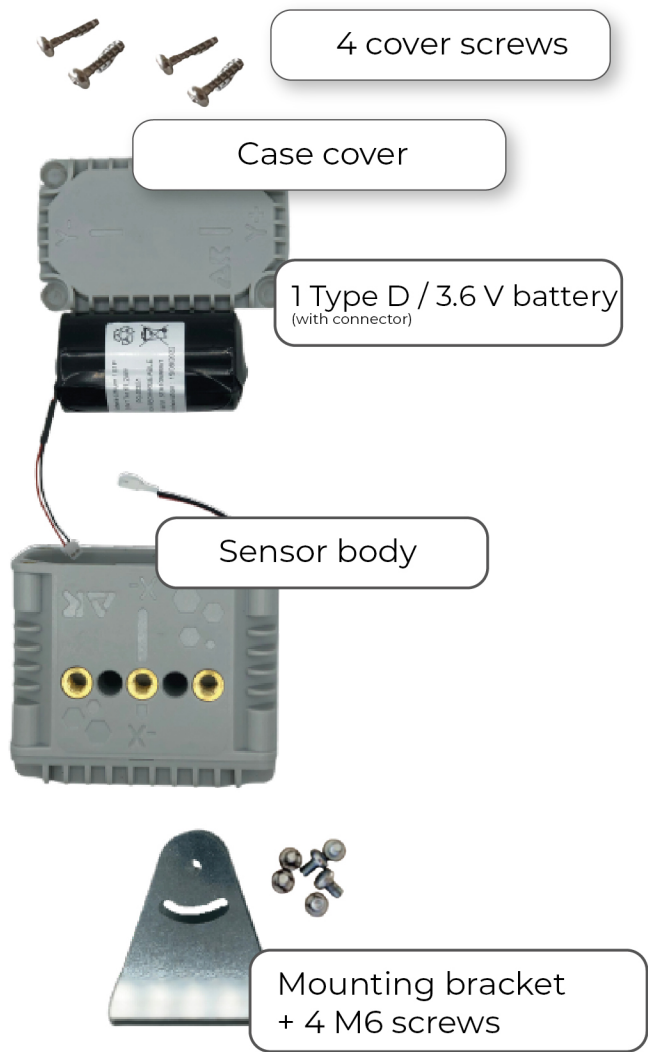


Packing List

The DELTA R connected crack sensor offers an efficient solution for remote monitoring of inclination movements.

Compact, easy to install, and connected to your smartphone.

It provides a wealth of relevant data for reliable and remote diagnostics via your mobile application.



The Delta R is a dual-axis connected inclinometer designed to monitor the inclination movements of walls or structures with high precision and autonomy.

It allows you to track inclination movements on both axes as well as the external temperature, all accessible directly from your smartphone.

Battery: 3.6 V - 17 Ah - Autonomy 1 to 7 years*	Weight: 350 g	Dimensions: 8x8 cm / Thickness: 5 cm
Resolution: 0.001° (angles) - 0.1° (T°)	Bluetooth & LPWAN Network Connection	Protection: IP66
Precision: 0.005° angle / 0.5° T	Measurement intervals: From 10 minutes to 24 hours	Mounting options: 2
Internal memory: 250,000 measurements	Resolution: 0.005° - 0.5°	Measurement range: +/- 10°

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

Download the App



Download the Feelbat app from your smart-phone's store.



Accept all access requests to use the app.



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

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



Sensor Startup



01

Remove the DELTA R cover.

⚠ Do not remove the cover where it says "radio module," and do not open it!

You will see the connected battery with the connection plug inside the DELTA R.

⚠ Pay attention to the plug's orientation.



02

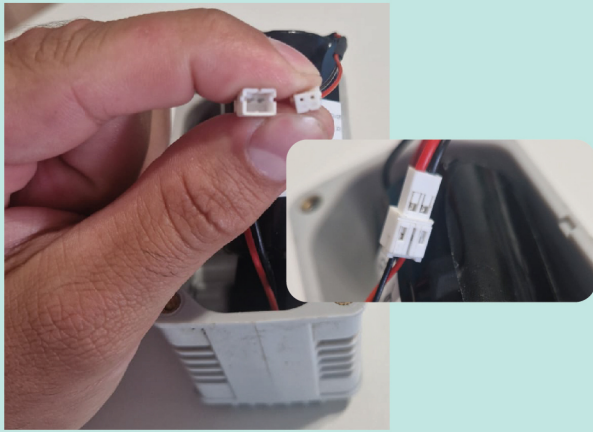
Replace the DELTA R cover, ensuring the O-ring is correctly positioned to properly seal the cover.



03

Screw the cover back on.

⚠ Use silicone grease to lubricate the O-ring before reassembly, and do not overtighten the screws—they are only meant to hold the cover in place.



Pay attention to the plug's orientation

If the red and black wires are not aligned, your connection should follow the image on the left.

Installation

Position yourself within 30 to 40 meters of the sensor in a direct line of sight, without any obstacles between you and the sensor.



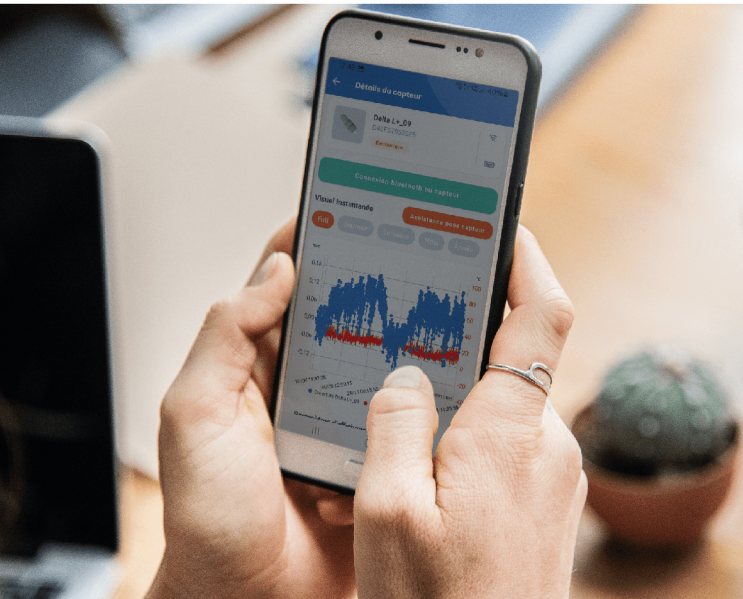
Don't forget to enable Bluetooth on your phone.



Without the LINKFEEL token, you will not be able to receive data remotely and will only synchronize via Bluetooth.

Now that your sensor is emitting a Bluetooth signal, connect your sensor to your account in the Feelbat application so no one else can connect to it.

The Application



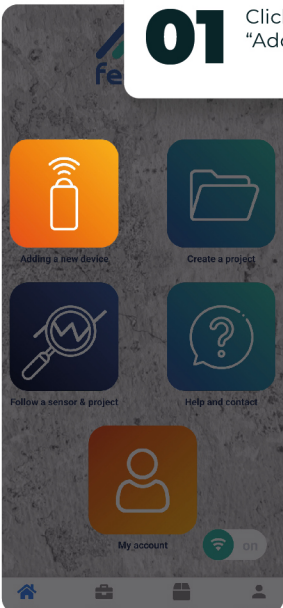
Web & Mobile Application

Feelbat offers a mobile application that allows you to monitor crack movements in a simple and efficient way.

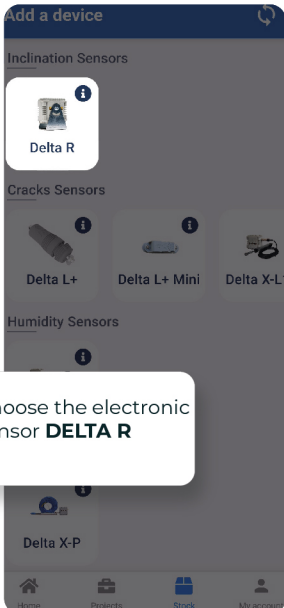
Before starting, you need to create an account via the application for it to function properly.

[Access the Web Application](#)

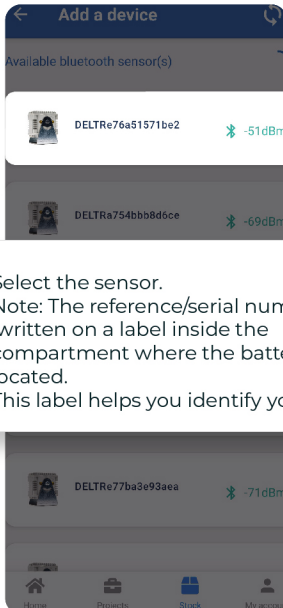
Configuration



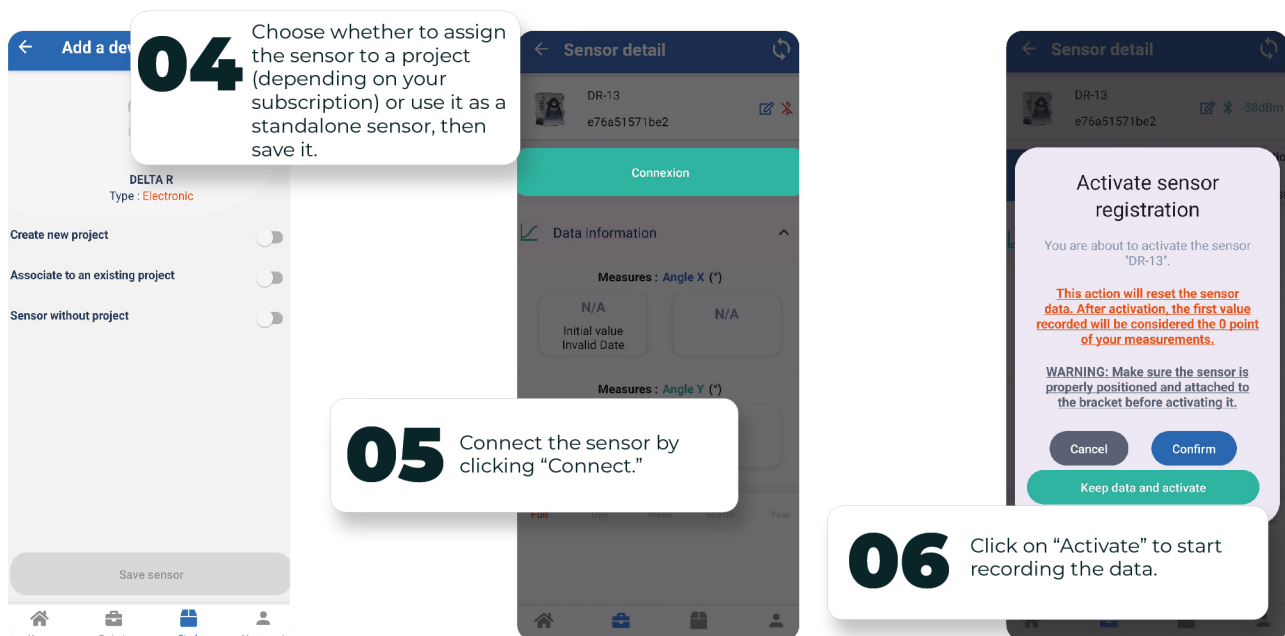
01 Click on "Add a sensor."



02 Choose the electronic sensor **DELTA R**



03 Select the sensor.
Note: The reference/serial number is written on a label inside the compartment where the battery is located. This label helps you identify your sensor.



To enable recording, click on "Activate data recording." By default, a measurement interval is set (you can change it in the configuration based on your subscription) and save the sensor.



Once connected via Bluetooth, you can select the assistance mode, which allows you to monitor in real-time the opening and closing movements recorded by the sensor and take full control of it.

- Ensure the battery is properly connected.
- Ensure Bluetooth is enabled on your phone.
- Verify that you are in front of the correct sensor.
- Check our FAQ at the end.

If you encounter any issues, contact us at: SAV@feelbat.fr



If you are within 30 meters of the sensor with no obstacles but cannot establish a connection:



Go back, click on the sensor again to restart the connection.



Completely close the application, restart it, and try again.*



Ensure proper connection and sufficient battery charge.



If the issue persists, contact us:

SAV@feelbat.fr

Completely close the application, disconnect Bluetooth for 10 seconds, reconnect Bluetooth, and restart the application to re-initiate the connection.

Sensor Installation



01

Locate the installation area, position the bracket, and mark the locations for the fixings on the surface.
Depending on the chosen fixing system, adjust the drilling diameter and secure the bracket.



02

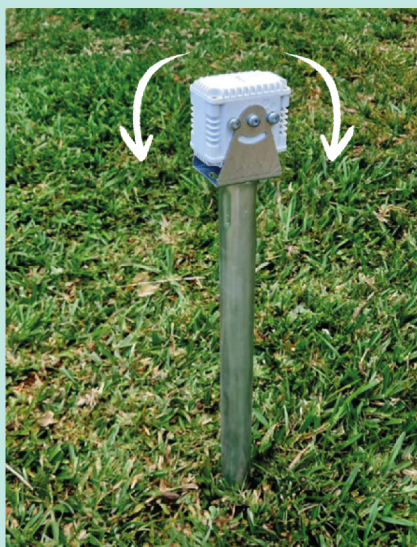
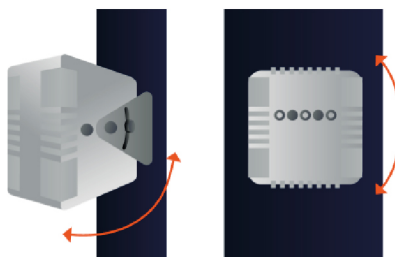
Place the bracket, ensure it is level, and tighten the fixings. The bracket must be secured at a minimum of two or three points and firmly pressed against the mounting surface.



03

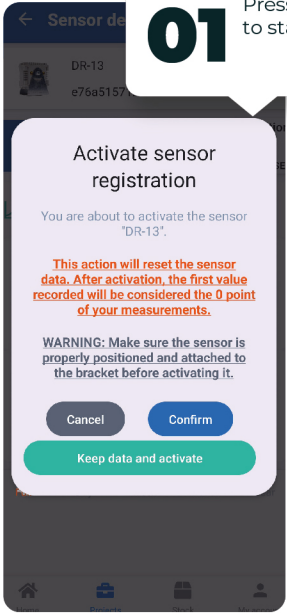
Slide the sensor into the bracket, ensuring that the side marked "radio wave module – do not open" is facing up and the "Y+" side is facing you.
Then tighten the clamping bolts to secure the sensor and ensure it remains stable over time.
Set up your sensor and level it by connecting via Bluetooth and selecting the "instant view" mode.

2 angle measurements **X and Y**

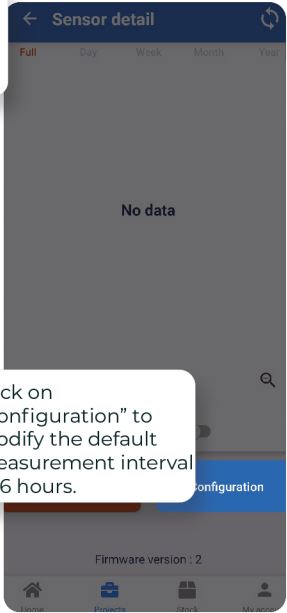


Recording

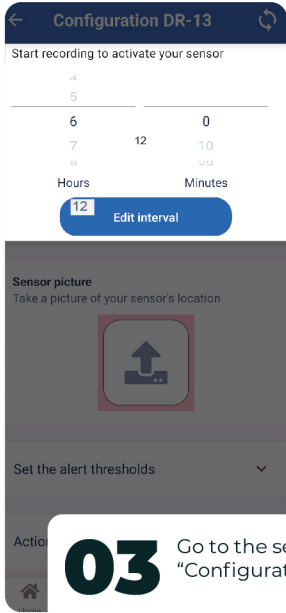
01 Press the "Activate" toggle to start recording data.




02 Click on "Configuration" to modify the default measurement interval of 6 hours.

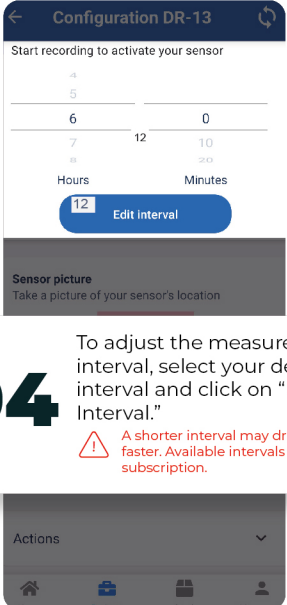


03 Go to the sensor's "Configuration" menu.

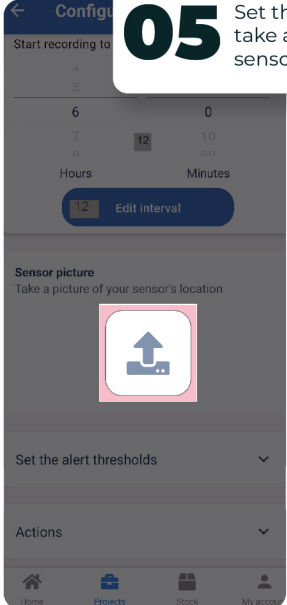


04 To adjust the measurement interval, select your desired interval and click on "Edit Interval."

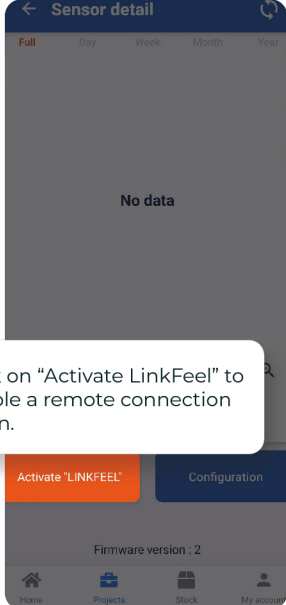
 A shorter interval may drain the battery faster. Available intervals depend on your subscription.



05 Set thresholds and/or take a photo of the sensor in place.



06 Click on "Activate LinkFeel" to enable a remote connection token.



The subscription via a LINKFEEL token commits the sensor for one year to send data to the cloud.

An active sensor with a LINKFEEL token will only send data if the sensor is located within a coverage area for the SIGFOX LPWAN network.

To check SIGFOX coverage, scan the QR code below. For optimal network quality, we strongly recommend using a network test button available in our product range.



Good to Know

The displayed curve represents the "delta" displacement compared to the initial value measured at the start of recording.

To view raw data, click on "Show Raw Data."

Displacements are displayed in blue (in millimeters), and temperature is displayed in orange (in degrees Celsius).

To export the data, click on the "Export Data" tab, and you can send the data in CSV format via email.

To set alert thresholds, you must enter the thresholds, which represent the "delta" displacement compared to the initial measurement taken by the sensor during startup.

To receive alert notifications for threshold exceedance, simply assign the sensor to a project and enable the corresponding email notifications. Alerts are sent during sensor synchronization via Bluetooth or through activation of the LinkFeel token for real-time alerts. This depends on your subscription linked to the application.



The minimum interval is 12 hours for a FEELGOOD subscription, 1 hour for a PREMIUM subscription, and 10 minutes for an EXPERT subscription.

Good to Know



If you want to remove a sensor from a project, you must first save its data to your personal database or with a CSV report.

Attention: Stop data recording before performing the steps to remove the sensor.

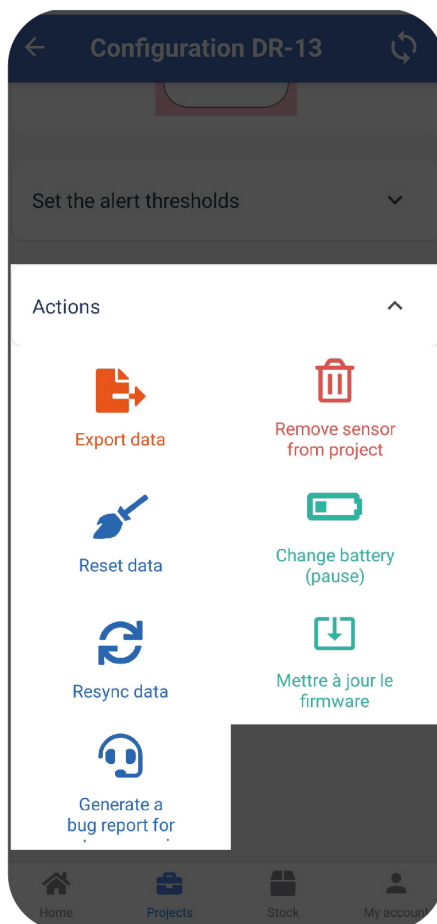


Reset Data: This button allows you to clear all recorded data. We recommend using it when starting the sensor on a new project.



Report an Issue: This button allows you to report a problem with your sensor. A detailed technical report will be generated to help resolve the issue efficiently.

Onglet « configuration »



Changer de pile (mise en pause)

Change Battery (Pause): This button pauses the sensor to ensure accurate battery calculations and assess the sensor's durability with a new battery.



Stock

Stock: When a sensor is removed from a project, it is placed in the "stock" area. To remove it from the application and free up space, click on "Delete Sensor."



Firmware Update: This button allows you to install the latest version of the sensor's software. Ensure you are connected via Bluetooth and the sensor is turned on.
Note: The sensor may reboot during the firmware update.

Solutions to Expand Your Network and Retrieve Sensor Data



Test Button

The test button is the ideal tool for determining the exact coverage of the worksite and choosing precise locations for your sensors. By activating this button, you can test Sigfox coverage and ensure the proper functionality of your monitoring system.



Repeater

The repeater strengthens signals from sensors in areas where Sigfox network coverage is weak. It supports up to 15 sensors and 140 messages/day.

Battery life: Up to 7 years, with an option for renewal.
Suitable for both indoor and outdoor use (-20°C to +60°C).



Sigfox Microstation

Extends Sigfox network coverage in indoor areas or remote locations, operating on 220V and requiring an Ethernet or 3G/4G connection.

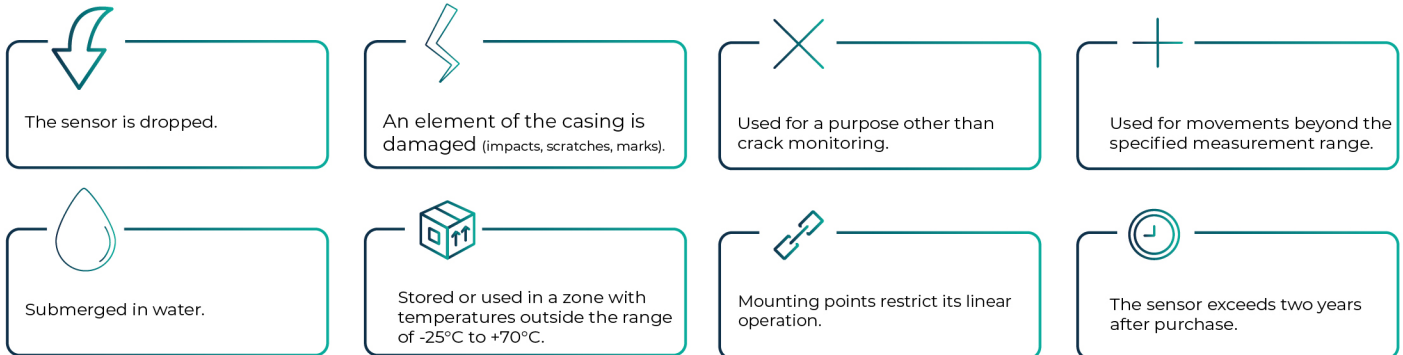
Comes with IP65 protection, recommended for outdoor installations in harsh conditions.
Optional USB 3G/4G keys and SIM cards available.

For any questions, contact us at:
SAV@feelbat.fr

Warranty

FEELBAT products are covered by the legal conformity warranty, which covers defects in compliance with the sales contract that appear within two years from the date of product delivery. They are also covered by the hidden defects warranty, which applies to non-visible defects at the time of sale that render the product unfit for its intended use or significantly diminish its usability.

The warranty does not apply in the following cases:



FAQ

I can't create an account:

01

Verify that you used the correct email address.

Ensure there are no spaces before or after the email address.

02

Check your SPAM folder to validate your email address.

03

Retry the account creation process.

I can't add my LinkFeel tokens:

01

Ensure that you have purchased LinkFeel tokens (check your invoice or account).

02

Verify that you haven't already used all your purchased tokens.

03

Log out and log back in.

The sensor does not connect via Bluetooth to the application:

01

Ensure Bluetooth is enabled on your phone.

02

Make sure you are within 30 meters of the sensor with a clear line of sight.

03

Ensure the sensor's logo is facing you.

04

Verify that the batteries are properly connected.

05

Close the application, disconnect Bluetooth, reconnect it, reopen the application, and try connecting to the sensor again.

I can't add an electronic sensor or some features are missing:

01

Verify that you have the correct subscription for the task you want to perform.

02

Log out and log back in.

03

Check if the sensor is already connected to another account.

04

Have you requested access from the sensor's owner?

The sensor is unresponsive during data retrieval:

01

Verify that the battery is not defective, improperly inserted, or low on charge.

02

Ensure you are in an area with mobile network coverage; if not, activate offline mode.

03

Make sure you are the only user logged into your Feelbat account.

04

Check if the battery is properly connected.

05

Move closer to the sensor and click on "Connect to Sensor" to attempt a Bluetooth reconnection.

The sensor is activated with a LINKFEEL token but does not send data:

01

Verify that the battery is properly connected.

02

Check if the battery is not empty (use a multimeter or test it in another sensor).

03

Confirm that the sensor is in an area covered by the SIGFOX network.

01

Have you tested the radio network using a tester before installation?

02

Have you conducted a network test with the sensor installed and via the app?

03

If using a repeater or microstation, have you correctly configured the device according to the FEELBAT instructions?




**If you have a crack,
you FEELBAT**

Discover our video tutorials

Watch the help videos


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