



# NETWORK REPEATER MANUAL

Remote monitoring via Bluetooth



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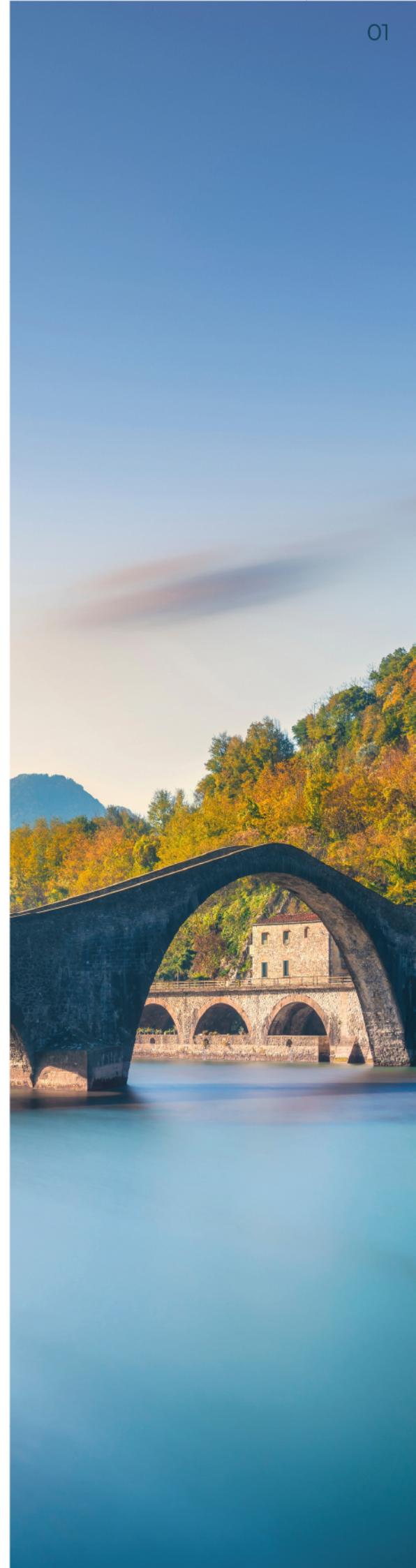
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## 01 Introduction

In an area covered by the Sigfox network, there may still be shadow zones (such as a cellar, basement, etc.).

It is recommended to use a repeater, which creates a link between the sensors and the Feelbat cloud for data retrieval.

⚠ Warning: the sensors must be located at a distance of 15 to 20 meters in open field from the repeater, and the repeater must be placed in an area covered by the Sigfox network to ensure reliable data transmission.

**Once the repeater is configured and installed, you will be able to receive and view data in real time on your smartphone or computer, and generate alerts if necessary (see diagram below).**

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



Note: the repeater can send a maximum of 140 messages per day\*  
 See section 6 for information related to battery consumption.

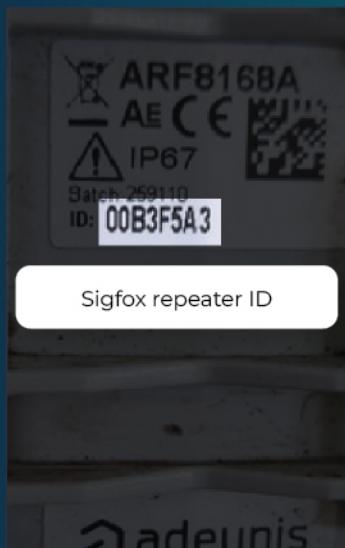
## 02 Technical specifications

<b>Battery</b> x2 3,6 V - 8,2 Ah	Communication Bluetooth & LPWAN network	<b>Mounting system</b> DIN rail, wall, clamp*
<b>Dimensions</b> 185 x 50 x 27 mm	<b>Range</b> between 15 and 20 m	CE certification
<b>Operating conditions</b> -25 °C +70 °C	<b>Weight</b> 135 g	<b>Enclosure</b> IP67

\*not included

## LED indicators

MODE	RED LED	GREEN LED
<b>Factory mode</b>	OFF	OFF
<b>Magnet detection</b>	ON as soon as the magnet is detected	ON for 1s when activated via magnet
<b>Switching to installation mode</b>	Flashing (2 times per second)	Flashing every 500 ms
<b>Configuration</b>	ON	ON
<b>Operation: frame detection</b>	ON until detection ends	OFF
<b>Operation: frame repetition</b>	OFF	Flashing per repetition
<b>Operation: heartbeat frame transmission</b>	OFF	Flashing per repetition
<b>Operation: duty cycle issue (no message repetition)</b>	Flashing (100 ms ON / 100 ms OFF) ×3	OFF



Message sent to the network



LED on for 1 second (steady)

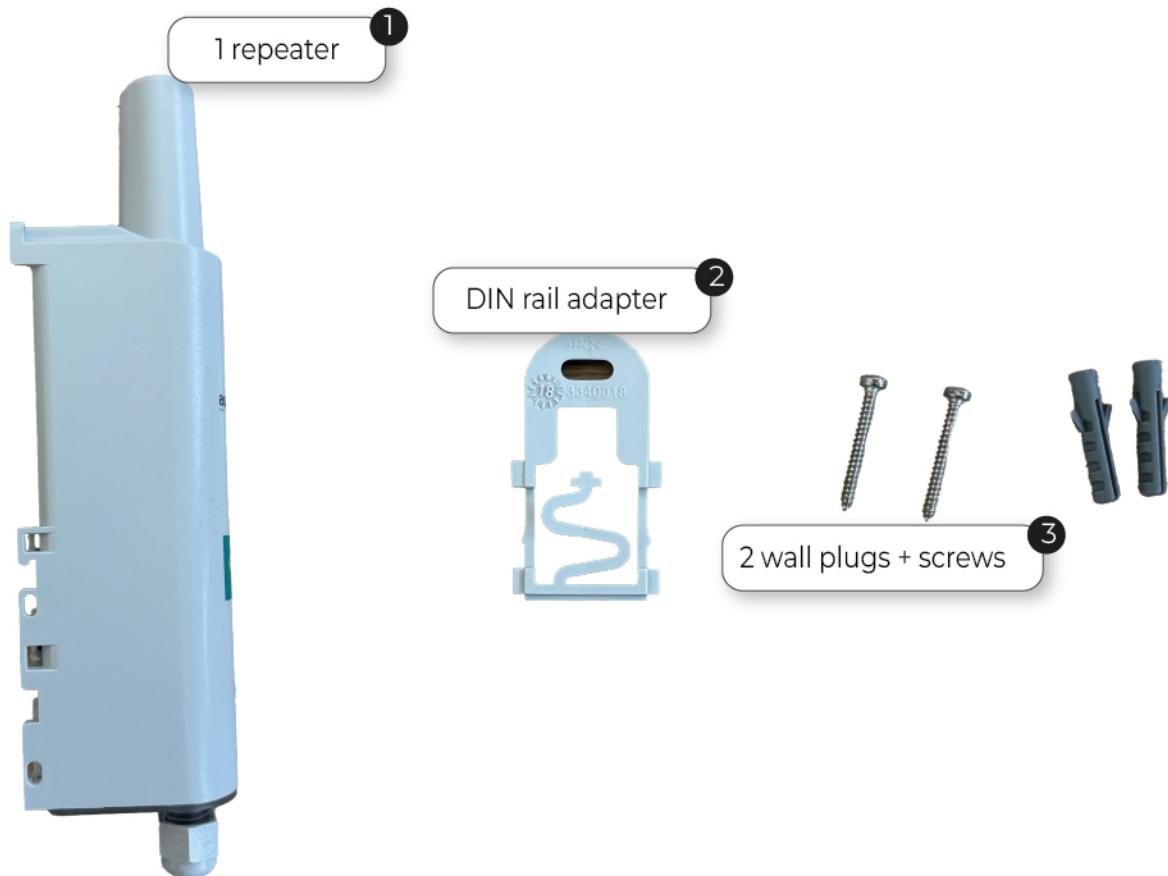


Message not transmitted to the network



The LED indicators are located under the repeater and are only activated when the device repeats or sends a message.

## 03 Packing list



### 💡 Mounting advice

- A drill with a 4 mm drill bit
- A PZ1 screwdriver
- A USB to USB-B cable for data transfer (see photo)
- A smartphone, tablet or PC to download the application (excluding Apple)
- A magnet



**⚠ Important information :** before any configuration, you must send the repeater ID number by email to:  
**sav@feelbat.fr**

This will allow a LINKFEEL token to be assigned so that you can proceed with the configuration.

**Please notify us at least 72 hours before commissioning.**

## 04 Repeater start-up



We strongly recommend connecting and configuring your repeater before going to the job site.

**Please notify us between 72 and 96 hours before commissioning, so that our support team can intervene if necessary.**

### Step 1

Before installing your repeater, you must connect the cable.



To begin, remove the cover located at the rear of the repeater.



Remove the board in order to connect the USB to USB-B cable.



**Use a USB-B data cable** (not a charging-only cable) to ensure proper data transmission.



You can now download the application as a ZIP file.

See the link below.

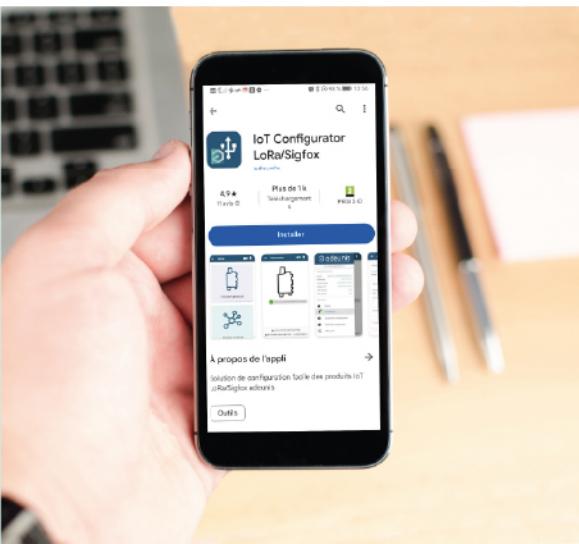
### Download the ADEUNIS application on a smartphone or Windows computer



**The application is not available on iOS (Mac and iPhone).**

Go to the link below, download the ZIP folder and follow the Windows installation instructions to install the application:

[https://drive.google.com/drive/u/0/folders/17ALb4GiM\\_OwLCUdMH315iTbu1359Qp8Sk](https://drive.google.com/drive/u/0/folders/17ALb4GiM_OwLCUdMH315iTbu1359Qp8Sk)



## 05 Configure the repeater

**The repeater is supplied with a LINKFEEL token for a one-year connection. You can extend this connection by contacting your regional sales representative.**

**The subscription via a LINKFEEL token activates the repeater for a period of one year, allowing it to transmit data to the cloud.**

Once activated with a LINKFEEL token, the repeater can transmit data only if it is installed in an area covered by the SIGFOX LPWAN network.

To check network coverage, scan the QR code (the map is indicative only).

**To ensure good signal quality**, we strongly recommend using the network tester button available in our product range.



01

Click on "Start configuration".

02

Skip this step\*.  
⚠ Warning: if your repeater does not start, you will need to pass the magnet over the device and then return to this step.

03

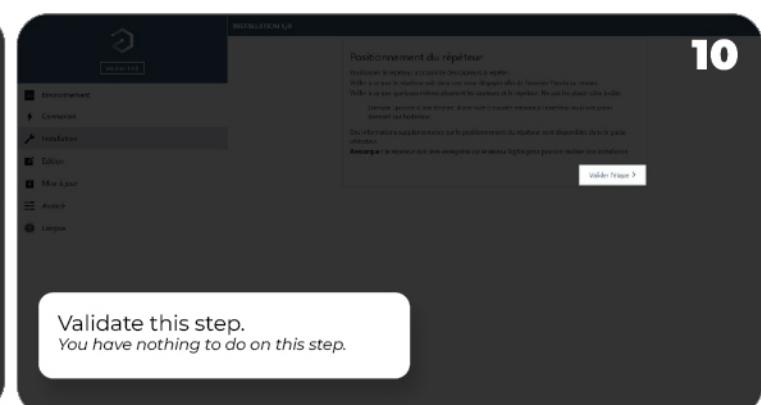
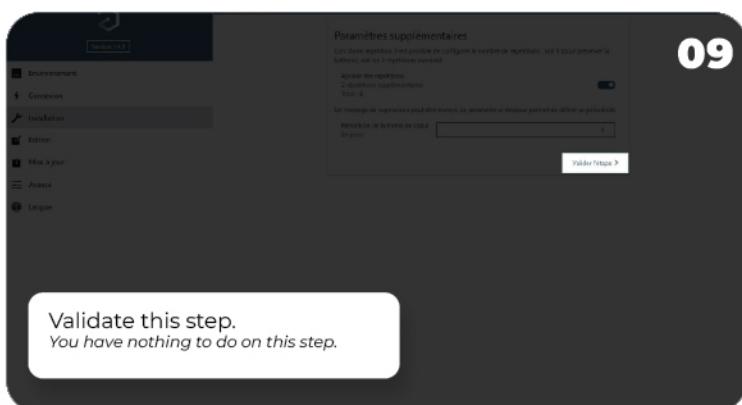
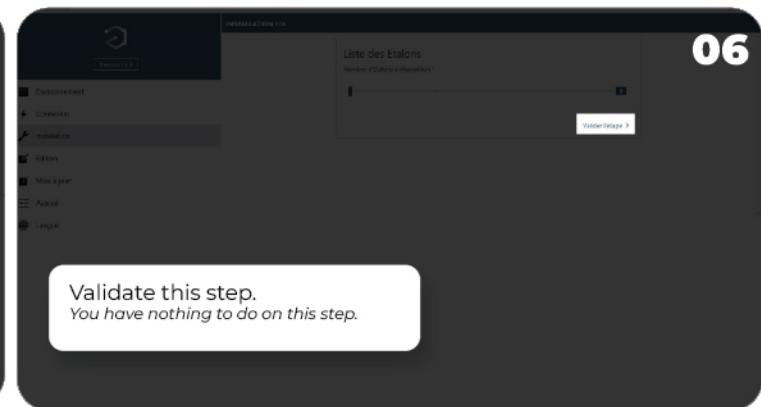
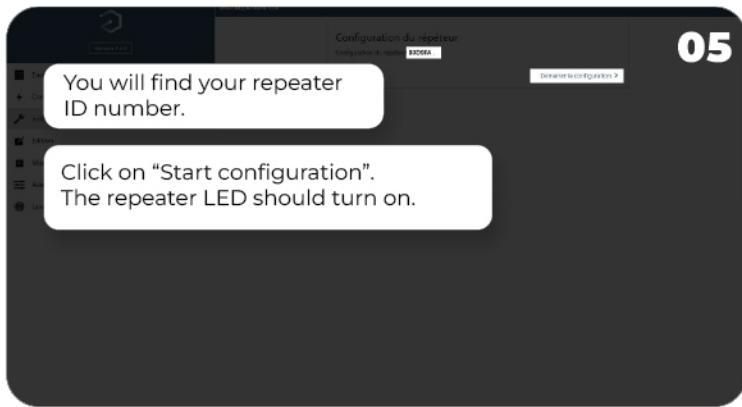
When connecting the repeater to the computer, you will hear an audio notification.

04

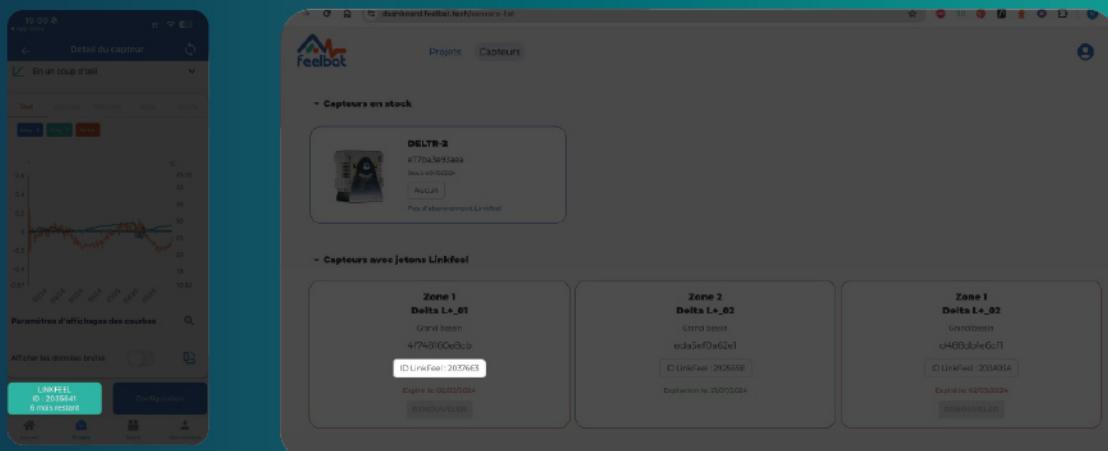
Click on "Connect and install".  
⚠ Warning: if your repeater does not start, please return to step 2 and place the magnet.

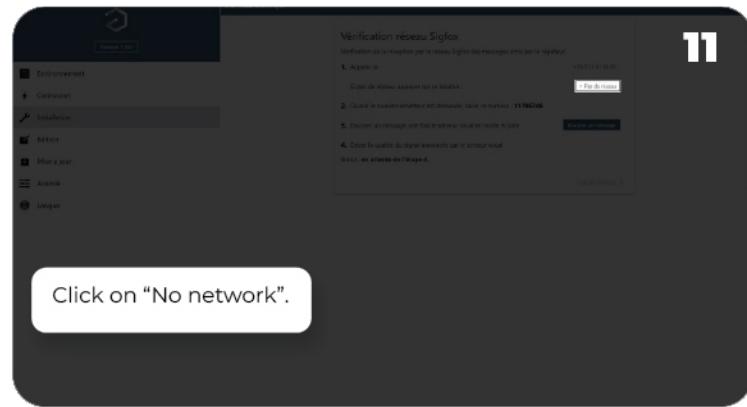


If the magnet is used too frequently, the red LED will turn on and the repeater will enter safety mode. You will then need to wait 24 hours for it to unlock.

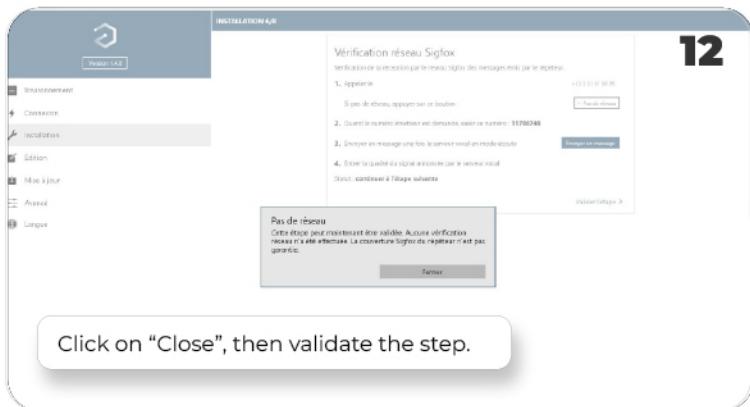


\* Your sensor ID is available on the web and mobile application, as shown in the image below.

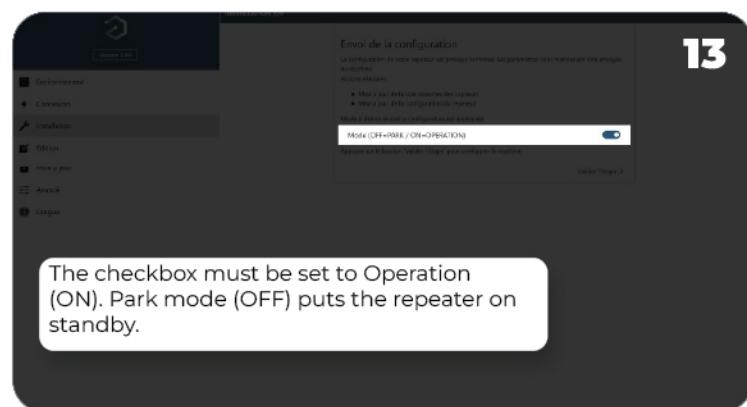




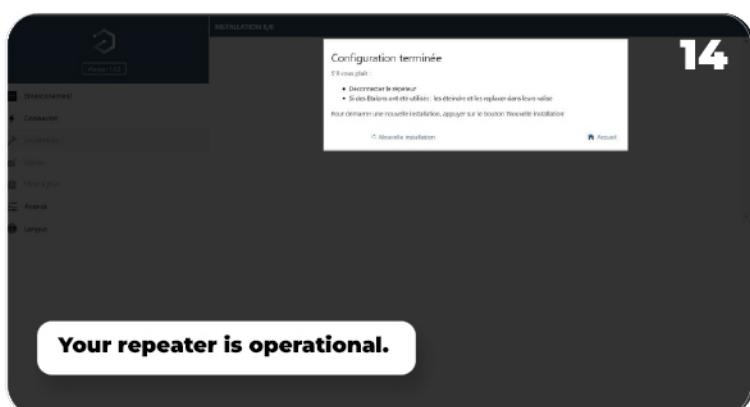
11



12



13



14

**Repeater ready for use**  
**You can now use your repeater:**  
**your sensors transmit their data to**  
**the FEELBAT cloud.**

Each repeater is associated with a LINKFEEL token valid for one year.

At the end of this period, the token must be renewed to ensure continuous data transmission.

- ✓ Remember to record the expiration date.
- ✓ Carefully keep the white label, as it will be required for renewal.



## 06 Battery life

Depending on the number of sensors repeated by the device, it is recommended to plan a battery replacement according to the table below:

Use case	Nmb. of devices	Total nmb. of repeated messages per day	Battery life (estimated for one repeater)
<b>Best use: the device transmits one message per day</b>	1	1	7 years
<b>5 devices, each transmitting 2 messages per day</b>	5	10	6 years
<b>15 devices, each transmitting 5 messages per day</b>	15	75	3,5 years
<b>Unfavorable use: 140 messages per day</b>	RAS	140	2 years

## 07 Closing the repeater cover



01

Disconnect the repeater from your computer.



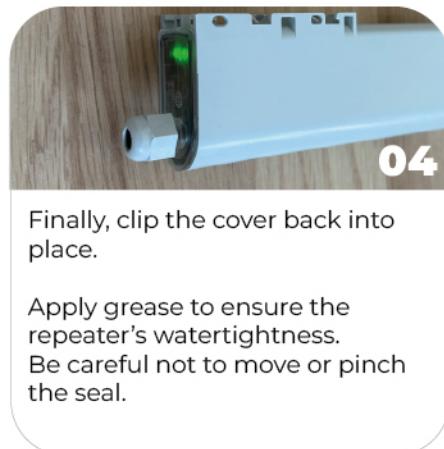
02

Insert the keying tab into the notch provided for this purpose on the electronic board.



03

Then reposition the cover so that the electronic board aligns with the two small notches.



04

Finally, clip the cover back into place.

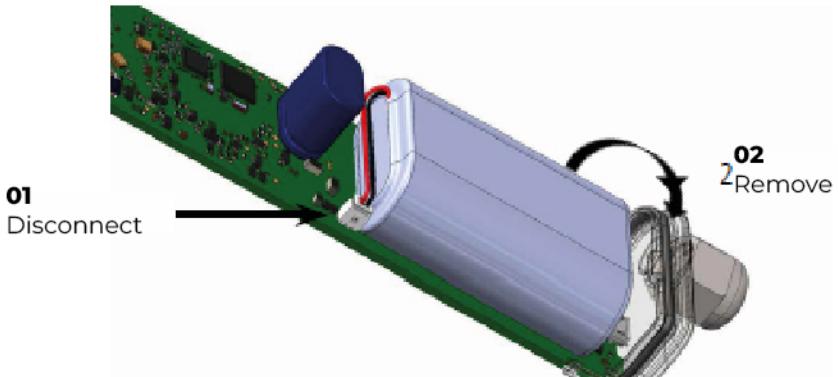
Apply grease to ensure the repeater's watertightness. Be careful not to move or pinch the seal.

## 08 Battery replacement

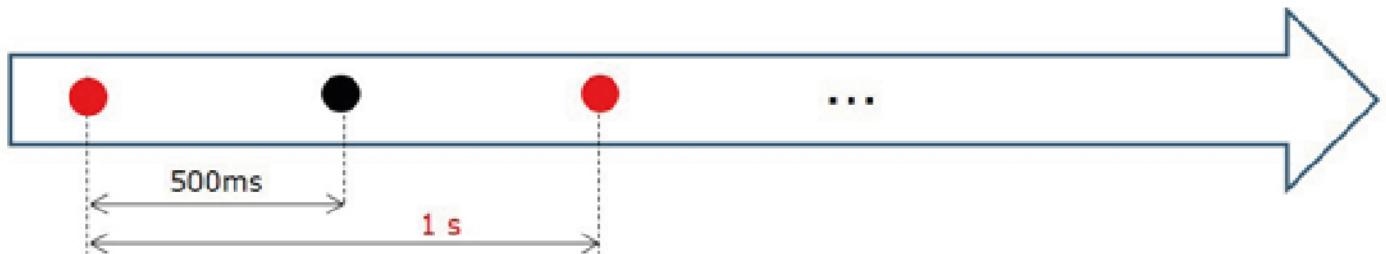
### Battery replacement

Start by opening the enclosure using the cable gland as a lever.

Then, **disconnect the old battery** from the electronic board as shown in the image.



Connect and insert the new battery, then close the enclosure.



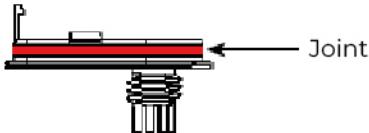
The LED flashes **red** once per second for 20 seconds.

Then follow the activation procedure described in the “Repeater activation” section to check the LED behavior.

If the battery has sufficient power, the repeater switches to PARK mode; otherwise, it remains in DEAD mode.

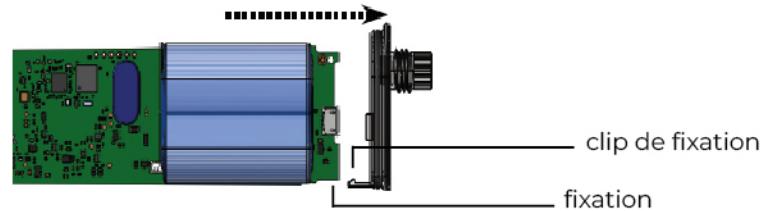
## Enclosure closure

After completing the previous steps, you can close the Sigfox repeater enclosure.



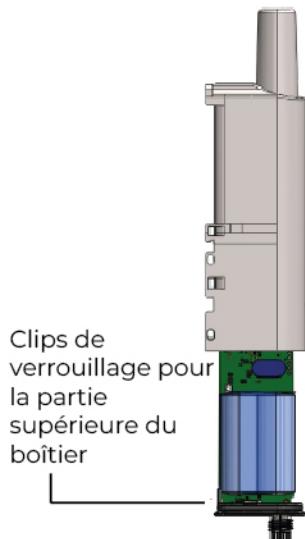
**01.**

Make sure the seal is correctly positioned on the base.



**02.**

Clip the electronic board onto the enclosure. Ensure that the locking clip is properly secured in its slot on the board.



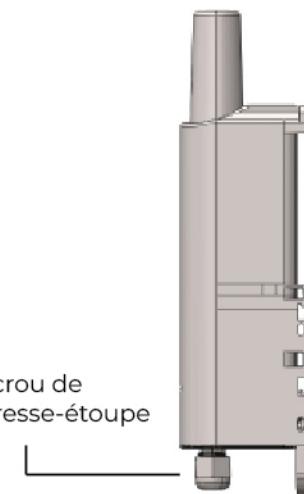
**03.**

Insert the upper part of the enclosure into the guide rails and make sure the board is correctly positioned.



**04.**

Once the board is in place, fold down the upper part of the enclosure and lock it firmly to ensure IP67 sealing.



**05.**

Finish the assembly by tightening the cable gland nut.

## Product start-up

Once the product is configured and assembled, it is ready to be started.

Start-up is performed using a magnet, placed on the upper part of the repeater.

After validation, the Sigfox repeater immediately transmits status frames, followed by a data frame (according to the configured transmission interval).

## 09 Informations utiles

### 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](#)



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