





# **Packing List**

The DELTA L+ connected crack monitoring sensor provides an effective solution for remote monitoring of crack evolution and ambient temperature.

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

A wealth of relevant data to enable you to perform reliable diagnostics remotely through your mobile application.





The DELTA L+ is a connected electronic sensor designed to monitor cracks with high precision and autonomy.

It enables the monitoring of crack movements both nearby and remotely, as well as external temperature – all from your smartphone.

Battery: 3.6V - 2.6 Ah - Autonomy: 1 to 4 years*	Weight: 250 g	Dimensions 13 cm x 5,5 cm
Resolution 0.01 mm - 1C°	Connection Bluetooth & Radio LPWAN	Protection IP66
<b>Precision</b> 5 μm - 0,5C° (+/-)	Measurement Interval: 10 min to 24 h	Mounting Options: 2 modes of fixation
Internal Memory: 250,000 measurements	<b>Operating Temperature:</b> -25°C to +70°C	Measurement Range: 0 to 25 mm (+/- 1 mm)

\*Depending on the frequency, sensor exposure, and data transfer mode (Bluetooth, LPWAN, etc.).

### **Download the App**





Download the Feelbat app from your smartphone's store.



Accept all access requests to fully utilize the app.



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



### **Starting the Sensor**



Remove the locking screw You will notice a sealing ring: make sure not to lose it and to place it back on the screw.



Position the sensor Place the sensor in the closed position or as close as possible to the contact point. Unscrew the cap by turning it counterclockwise.



Access the battery You now have access to the battery. Remove it, retrieve the connector, and connect it to the battery, ensuring the connector is oriented correctly.



Bluetooth Signal Your sensor is now emitting a Bluetooth signal. Connect it to your account to make it inaccessible to other users. Place the battery at the bottom and secure the connector in the slot.



Check the O-ring Ensure the O-ring is properly positioned in the groove of the cap; if not, reposition it correctly.

Attention: Ensure the battery wires are not caught in the threads when screwing the cap back on.



Close the cap Tighten the cap by turning it clockwise until the two alignment arrows are matched.

NB: When the closure cap is fully tightened and the arrows are aligned, check the alignment of the locking holes to insert the locking screw.

Attention: Ensure the connector is properly oriented.



Alignment Check Check the back of the device to ensure the holes are aligned.



Insert the Screw Place the screw with the sealing ring into the rear hole of the cap and tighten without forcing the thread.



Attach the Connection Plate Reposition the connection plate, paying attention to the notch, and secure the system with the three screws. Tighten the screws gradually, 1/3 at a time, ensuring proper contact between the block and the cap.



Different mounting packs are available depending on your support type:

- Solid surface mounting pack
- Hollow surface mounting pack
- Magnetic mounting pack
- Bi-axial mounting pack

For more information, refer to the catalog available for download on our website.

## Installation

During installation, make sure the sensor logo is facing the wall and directly facing you.

Position yourself within 30 to 40 meters of the sensor in a direct line of sight, meaning no obstacles between you and the sensor.



Don't forget to activate Bluetooth on your phone.



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

Now that your sensor is emitting a Bluetooth signal, connect it to your account in the Feelbat app to ensure no one else can connect using their account.

## **The Application**



#### Web & Mobile Application

Feelbat provides a mobile application allowing you to monitor crack movements simply and quickly.

Before starting, you must create your account via the app for it to function.

Access the Web Application

# Configuration



To enable recording, click on "Activate Data Recording." By default, a measurement interval is proposed (you can adjust it in the settings based on your subscription).



Once connected via Bluetooth, you can select the sensor installation assistant mode, allowing you to monitor in real-time the opening and closing movements recorded by the sensor and get familiar with its functionality.

- Ensure the battery is properly connected.
- Make sure Bluetooth is activated on your phone.
- Verify 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



Attention, ff you are within 30 meters of the sensor with no obstacles in between but the connection is not working:



\*Ensure the app is completely closed (not running in the background), disconnect Bluetooth for 10 seconds, reconnect Bluetooth, and relaunch the app to repeat the connection steps.

#### **Sensor Installation**



Position the anchors of the sensor on either side of the crack. The recommended spacing for the anchor axis is 16 cm.

Attention: Ensure the spacing is accurate for optimal operation. If necessary, refer to specific anchor kits for various surfaces.



Slide the sensor on both sides while ensuring the "DELTA" logo is positioned outward.

Attention: The logo and arrow should always be clearly visible to ensure the alignment and correct placement of the sensor without obstacles.



Place the locking bolts and use threadlocker to ensure a secure hold over time. Make sure the sensor is stable and correctly positioned.

## Recording



#### 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 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**



#### **Solutions to Expand Your Network and Retrieve Sensor Data**



(-20°C to +60°C).

for outdoor installations in harsh conditions. Optional USB 3G/4G keys and SIM cards available.

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

Suitable for both indoor and outdoor use



**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.



### FAO



#### I can't add my LinkFeel tokens:

**O1** 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.

#### 01 02 03 Ensure Bluetooth is Make sure you are within 30 Ensure the sensor's logo is meters of the sensor with a facing you. enabled on your phone. clear line of sight. 04 05 Close the application, disconnect Verify that the batteries Bluetooth, reconnect it, reopen the are properly connected. application, and try connecting to the sensor again.

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



#### The sensor does not connect via Bluetooth to the application:



#### 01

Have you tested the radio network using a tester before installation? Have you conducted a network test with the sensor installed and via the app?

02

03

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





boutique en ligne

#### If you have a crack, you FEELBAT

#### Discover our video tutorials

Watch the help videos

info@feelbat.fr 04 123 800 90

 $\bigotimes$ 

0

4 rue Louis Breguet JACOU 34830 FRANCE Siège social 20 rue Maxime Riviere 97490 SAINT-MAXIME ي www.feelbat.fr in f ∎