



# DELTA X-P

Variation in groundwater level





**The DELTA X-P sensor comes with a submerged piezometric level probe to monitor changes in groundwater levels.**

The piezometric probe is equipped with a reinforced cable with a waterproof connector, which also incorporates an atmospheric pressure equalisation system.



**Compact & Durable**  
Polycarbonate / IP66



**Precise**  
< +/- 0,3% of PE



**Plug & Play**  
Easy to use and install



**Autonom**  
Battery 3,6 V - 17 Ah



**Connected**  
LPWAN or  
Bluetooth network



**01**  
Sealed chamber for measuring atmospheric pressure

**02**  
Waterproof female connector

**03**  
316 stainless steel measuring probe | PASSIVATED

## Features

<b>Battery</b> 3,6 V - 17 Ah - <b>Autonomy</b> 1 to 7 years*	<b>Protective case</b> IP66	<b>Operating temperature</b> -20°C to +60°C <i>(in liquid phase)</i>
<b>Connection</b> Bluetooth & Radio LPWAN	<b>Case Temp. measurement</b> - Accuracy 1°C	<b>Probe Accuracy</b> < +/- 0.3% PE
<b>Espacement de mesures</b> de 10 min à 24h	<b>Temperature drift</b> < +/- 0.02% PE / °C <i>Value given for PEs &gt; 4 m, Drift (-20 to +60 °C) +/- 0,03% of PE / °C</i>	<b>Probe</b> 316L passivated stainless steel
<b>Mémoire interne</b> for 250,000 measurements	<b>Probe length available</b> 5, 10, 15 and 20 m	<b>Probe Ø</b> 21.4 mm +/- 0.1mm, length 170mm +/- 0.2 mm

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

The DELTA X-P incorporates a piezometric sensor used to measure variations in the groundwater level.

The system incorporates an atmospheric correction system to ensure maximum accuracy.

Its mounting box, specially designed for reliable and secure installation, allows for optimal cable organisation inside a cabinet.

It effectively protects the DELTA X-P piezometric probe from the elements and shocks.

The mounting box is made of robust ABS with a secure closure, ideal for demanding environments. The base is designed to allow direct passage of the piezometric tube (diameter 65 mm), which facilitates installation.

Versatile, it can be sealed or integrated into a concrete slab for reinforced hold.

Finally, once activated, the LINKFEEL service automatically transmits data to the secure FEELBAT cloud via the LPWAN radio network, combining low power consumption, long range and reliable communication.

## SIMPLE AND EASY TO INSTALL

### 01 The DELTA X-P mounting bracket

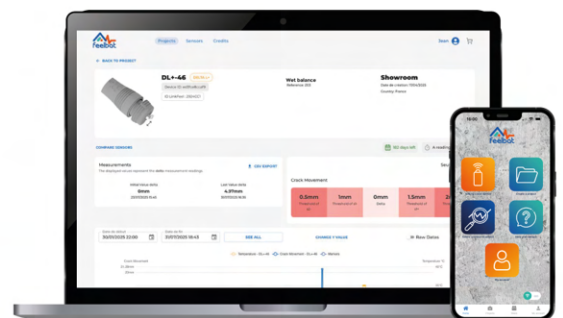
- **Material: ABS**
- **Dimensions : 300 x 200 x 130 mm**
- **Locks with a triangle lock**
- **Supplied with triangular key**
- **Fixing screws included**
- **Protects the sensor from view and external damage**



### 02 View your data in real time and remotely

Install your sensors, configure them, and monitor your structures in real time wherever you are. **Receive alerts if a predefined threshold is exceeded, for effective prevention and optimal security.**

**Edit PDF reports in just a few clicks!**



# Our other products



## DELTA X-L 100

The DELTA X-L100 is a connected electronic potentiometric sensor designed specifically to accurately monitor large-amplitude crack movements. It offers a displacement range of 0 to 100 mm. Equipped with a displacement sensor, it features special ball joints for easy attachment at the ends.

**Large amplitude crack sensor**



## DELTA L+

The DELTA L+ is a **connected electronic sensor that allows you to monitor a crack with high precision and autonomy.**

It allows you to monitor crack movements nearby or remotely, as well as the outside temperature, from your smartphone.

**Opening - Shearing - Angle measurement - Misalignment**



## DELTA R

The DELTA R is a connected dual-axis tilt sensor that allows you to **monitor the tilt movement of walls or structures with high precision and autonomy.**

It allows you to monitor tilt movements on both axes as well as the external temperature from your smartphone.

**Two measurement axes: Y - X**



## DELTA L+ mini

The DELTA L+ MINI provides autonomous and accurate crack monitoring, while assessing the impact of solar exposure on the cracked substrate.

It can be installed in seconds using adhesive, without drilling.

**The smallest connected crack sensor in the world!**



## Pack DELTA L+ extenso

The Extenso pack allows you to measure and monitor movements and displacements in structures such as tunnels, bridges, or buildings.

**It enables you to assess the stability and integrity of the structure by detecting changes in convergence,** thereby helping you to take preventive measures.

**10 ML fil INVAR or 20 ML fil INVAR**



## DELTA X-Hs

The DELTA X-Hs is a connected sensor equipped with an electronic probe for **measuring soil moisture with high accuracy and autonomy.**

The probe, which is buried at the foot of structures, provides relevant data for effective diagnostics in the field of clay shrinkage and swelling.


**The most functional choice for the RGA**



**If you crack...  
you FEELBAT**


## Contact us

 [contact@feelbat.fr](mailto:contact@feelbat.fr)

 +33 4 123 800 90

 [www.feelbat.fr](http://www.feelbat.fr)

  
[contact@feelbat.fr](mailto:contact@feelbat.fr)  
**04 123 800 90**

  
4 rue Louis Breguet  
JACOU 34830 FRANCE  
Headquarter 20 rue Maxime Riviere  
97490 SAINT-DENIS

  
[www.feelbat.fr](http://www.feelbat.fr)  
in f o