

# DELTA X-L100S

Submersible crack meter



**This connected crack meter allows you to accurately monitor crack movements, even when submerged or in extreme environments.**

It offers a travel range of 100 or 250 mm. It is equipped with a strain gauge sensor encapsulated in a high-performance elastomer. It is designed to withstand water, dust and the harshest climatic conditions.



**Compact & Durable**  
IP68



**Precise**  
0.01 mm - 1°C



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



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



**Connected**  
LPWAN or  
Bluetooth network

## Features

<b>Battery</b> 3,6 V - 17 Ah - Autonomy 1 to 7 years*	<b>Probe protection</b> IP68	<b>Variable cable length</b>
<b>Resolution</b> 0.01 mm - 1°C	<b>Connection</b> Bluetooth & Radio LPWAN	<b>Maximum force</b> 120 N
<b>Accuracy</b> 0.5% PE - 0.5°C	<b>Metal connector, waterproof and robust</b>	<b>Compensation for environmental variations</b>
<b>Internal memory</b> for 250,000 measurements	<b>Operating temperature</b> -40 °C to +85 °C	<b>Measurement range</b> 100 or 250 mm

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

**This sensor is designed to monitor cracks in the most demanding environments: flood zones, underground structures, and structures exposed to moisture or harsh weather conditions.**

**It provides reliable monitoring of crack progression, even in extreme conditions, ensuring continuous surveillance where other technologies reach their limits.**

Its high-performance silicone encapsulation combined with a stainless steel housing gives it exceptional resistance. It can therefore be installed in prolonged immersion without risk of damage, guaranteeing long-term measurement reliability, even in humid or submerged environments.

The DELTA X-L100s is easy to use independently, without needing to connect it to another system or manually intervene. Once connected to the DELTA X system, the sensor automatically transmits its data via the LPWAN or Bluetooth network, depending on the chosen configuration.

This sensor has been designed to be easy to use by all professionals. Installation, adjustment and monitoring of measurements are facilitated via the FEELBAT mobile app or the FeelMonitoring web portal, for a smooth and efficient user experience in the field.

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.



## 01 Simple and easy to install

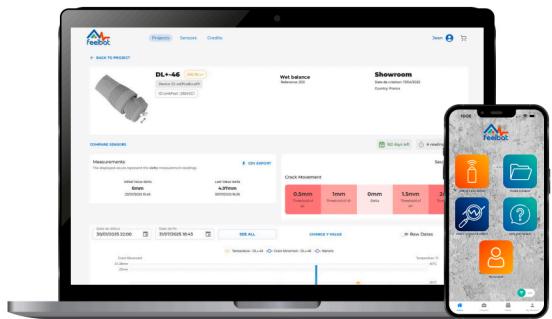


## 02 View your data in real time and remotely

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



## 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 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!**



## 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**



## DELTA X-P

The X-P sensor, a piezometric sensor, allows automatic monitoring of the groundwater level.

The piezometric probe is equipped with a reinforced cable with waterproof connectors and an atmospheric correction system.

**X ml reinforced cable (several cable lengths available)**



**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)  
  