

Senceive

Remote Monitoring Technology Protecting People and Infrastructure

Senceive wireless remote monitoring technology helps you protect people and infrastructure.

Wireless Monitoring for Rail Infrastructure

Install robust, precise wireless sensors on track, structures and earthworks to monitor long-term movement such as changes in track geometry, as well as sudden events such as landslides and embankment failures. Low-maintenance, ultra-long-life sensing technology provides automated near real-time alerts of movement, while integrated cameras show the cause of movement without visiting the site.

A range of precise triaxial tilt sensors provide continuous data on track geometry parameters including cross-level, twist, lateral shift and settlement. Complementary sensors provide data on track temperature, strain, displacement and geotechnical parameters such as groundwater conditions and subsurface ground movement.

Built for Rail

Instruments are remarkably quick and simple to install without specialist training. They are rugged, designed specifically to withstand harsh railway conditions and they can last up to 15 years with minimal maintenance. Gateway base stations, with a variety of remote data transmission methods, forward data from your site to your cellphone or computer. These can be solar-



Tilt sensor on rail track



powered, so the system can operate without fixed power or comms infrastructure. Remote users benefit from online datasets typically updated within minutes, along with automated alerts if pre-set thresholds are breached, with increased data granularity based upon the severity of the breach.

Changing Weather – Safer Slopes

Changing weather conditions have increased the risk of railway slope failures in many parts of the world. Our award-winning InfraGuard™ responsive monitoring solution provides early warning of slope failure and can be used anywhere that slope stability is an issue, including cuttings, embankments and earthworks and structures prone to flood damage.

This intelligent system combines smart tilt sensors which transmit multi-level alerts and trigger cameras to send images in the event of sudden ground movement. Use the Digital Interface Node to monitor weather conditions at remote sites with near continuous updates on rainfall, windspeed and temperature.

Protecting People and Infrastructure

Remote monitoring technology puts critical data at your fingertips providing asset visualisation without mobilisation. It provides near real-time alerts when pre-set thresholds are breached, which means you can be confident that if there are potentially dangerous or

disruptive events on the network, you will be the first to know. That's why more than 40,000 Senceive sensors are in use on railways around the world today.

Unrelenting Invention

Come and talk to the team about the latest innovations including including rockfall monitoring solutions, and sat comms connectivity for remote sites beyond the range of the cellular network. Discover the Digital Interface Node and the growing range of third-party environmental, structural and geotechnical sensors that can be connected. Get an update on software developments including Senceive.io which provide unprecedented options for data storage, export and visualisation.

A Previa Company

Senceive will be sharing **Stand 275** in **Hall 22** with **Previa** group partners **RailMetrics** and **Eddyfi**.

[Click here to visit our website for more information](#)



Senceive



**Wireless monitoring solutions
for continuous assesment of track,
earthworks and structures**

InnoTrans 2024 September 24-27
Visit us at stand #510, Hall 23



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