IoT-Solution Crack Monitoring

Rocket NG
enabling IoT

Innovative Crack and Position Monitoring
Cost-efficient maintenance
with maximum safety

- **AI analyses and forecasts**

- **Early detection of potential problems**

- **Extended service life through predictive maintenance**

- **No on-site measuring operations necessary**

- **Precision and speed on a new level**

Crack & Position monitoring

autarkic • easy • wireless • precise

Autarkic

The IoT crack monitoring solution requires no power supply or network cabling.

15 Years

With a measuring and transmission interval of 15 minutes, the service life is 15 years. No battery change, no on-site operation!

Data transmission

The data is transmitted wireless and processed and stored centrally in the Rocket AI Core.

Flexible & Precise

Crack sensors

Up to 4 displacement sensors with up to 10 meters of cable on one node enable efficient and flexible use.

Sensors

All Rocket sensors can be combined with crack measuring. There are no limits in your IoT solution!

Inclinometer *Piezometer* *Temperature & humidity*

24 bit / 1.49 Nanometer

Highest resolution (1.49nm) and repeatability (10µm) for precise and reliable measurements

Simple installation

Optimised for quick and easy installation on the property. All functions can be controlled remote in the Rocket app.

Live

The data is immediately transmitted wireless and is available live in the Rocket App, the ScienceBoard & the API at any time.
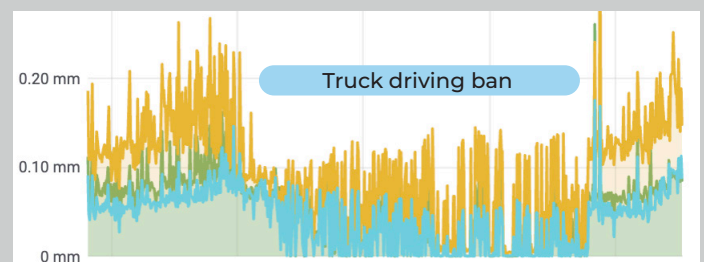
Data logger

If required, the measured data can be saved locally and transferred at any time.

AI Features

Vibration amplitude

Determining the maximum vibration amplitudes makes it possible to analyse the dynamic behaviour of structures, the effects of heavy traffic and the analysis (e.g. crack opening) due to heavy transport.

Truck driving ban

0.20 mm
0.10 mm
0 mm

Impulse events

Permanent measurement enables the detection and analysis of impulse events, which often only occur in the millisecond range but can cause enormous loads.

Crossing Heavy transport
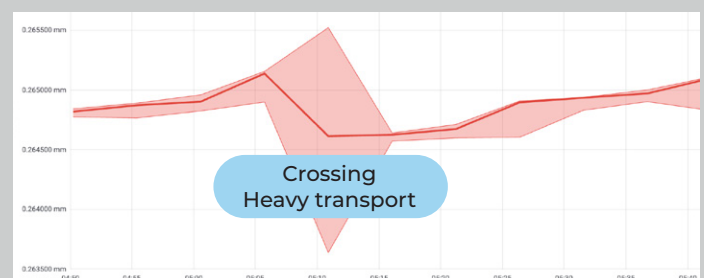
Compensation of temperature influences

Forecasts

Long-term analysis

Trends

Intelligent monitoring & alerting

and more

Typical applications

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Crack width

Simple and safe mounting of Crack width measurments for bridges, retaining walls, buildings and rock formations.

Monitoring and detection of structural weaknesses in structures with AI temperature compensation

Rugged

All components are suitable and tested for use in the toughest conditions and are fully proven.
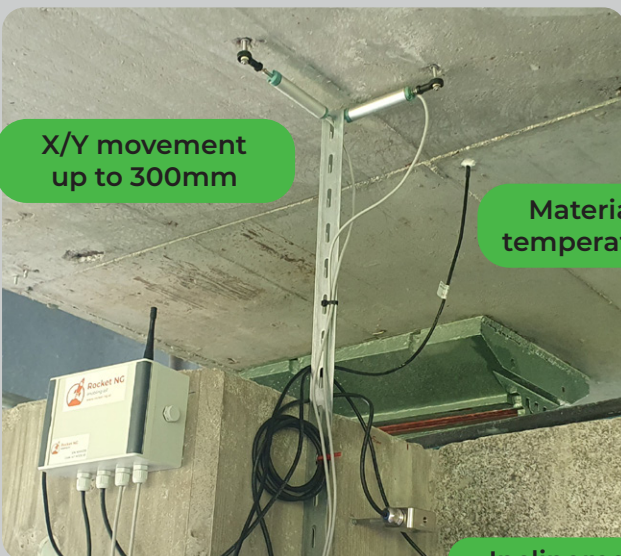
Multiple crack width

Efficient monitoring of multiple cracks up to 200cm

Strain measurements for the determination of utilisation, structural stresses, strains/compressions and loads on components

Displacements in bearings & structural movements

X/Y movement up to 300mm

Material-temperature

Inclinometer

Measure and monitor all relevant movements quickly and easily.

Easily combine with our high-precision inclinometer and monitor the inclination of piers with an accuracy of +/-0.00028°.

Up to 6 sensors for material temperature and humidity in combination with our AI functions offer optimal analyses as well as easily processed data and results!
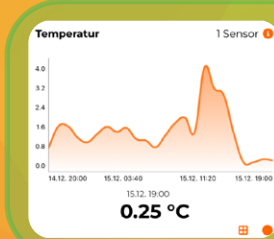
Determination of the stress range due to dynamic loading (also reinforcement) for assessment of the risk for fatigue
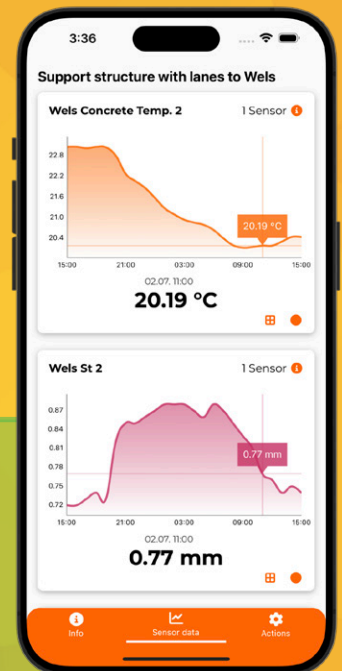
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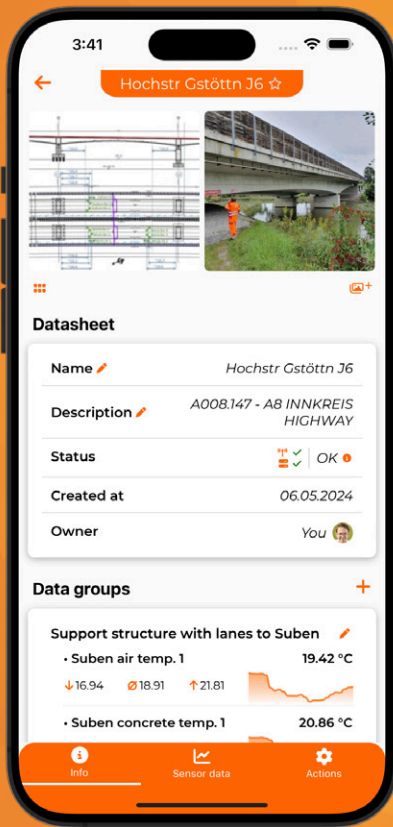
Manage your projects intuitively and clearly in the Rocket NG app

Keep your measurement data always in view

Analyse in our ScienceBoard

Interested?
Get in touch with us!

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