



Rocket NG
enabling IoT

IoT-Solution Dam Wall

Innovative Dam Wall Monitoring Cost-efficient maintenance with maximum safety

-  **Real-time monitoring of all important parameters**
-  **Early detection of potential problems**
-  **Extended service life through predictive maintenance**
-  **No on-site measuring operations necessary**
-  **Digitalisation of existing measuring systems**

Our Measurement Applications

autarkic • simple • wireless • precise

Extensometer

Continuous deformation measurements enable optimum maintenance and monitoring, provide immediate information in the event of large displacements (e.g. heavy rain), help to assess durability/safety and reduce traffic obstructions (no manual readings).

Groundwater Level, Water Level, Water Pressure

Continuous monitoring reveals anomalies in the water level at an early stage and also helps to assess durability/safety.

Pore Water Pressure, Suction Stresses

The continuous measurements enable cost-efficient assessment of soil behaviour, early detection of possible landslides or subsidence and planning/assessment of drainage measures.

Air Temperature/Humidity, Material Temperature/Moisture, Dew Point

Important for the assessment of material behaviour and undesirable chemical processes.

Forest Fire Risk

Determining the risk of forest fires enables preventive measures to be taken in good time. Analyses of the forest microclimate enable future-proof forest management.

Anchor Force

Continuous anchor force measurement helps to assess durability/safety and to detect anomalies and unplanned loads.

Existing Sensors, Extensions

In previous years, loggers or mechanical measuring devices that were often used had to be read manually. Digitalise your systems and collect actual measurements in the app or in the ScienceBoard.

Valves/gate valves/weirs/valve flaps

Operational safety can be increased by detecting faults at an early stage, thus avoiding costly breakdowns. Legal regulations, requirements in standards and environmental regulations can also be fulfilled.

Monitoring Drainage

This continuous monitoring allows early detection of blockages and inadequate drainage performance. Problems caused by water accumulation are avoided.

Displacements, Height Difference, Subsidence

Displacements in expansion joints and between components are important for the assessment, determination of causes and monitoring of structures.

Inclination

Regular monitoring of inclinations allows early detection of problems such as increased earth/water pressures, uneven settlement and unplanned transmission of forces.

Crack Monitoring, Crack Detection - Surface

The monitoring and detection of crack widths is crucial for structural assessment and safety.

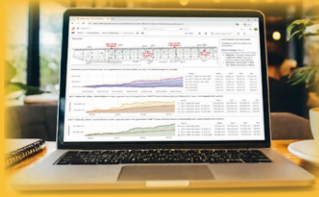
- Categories:
- Geotechnics
 - Stock
 - Temperature/weather/climate
 - Predictive Maintenance
 - Displacements/strains/forces



Rocket AI Core



Science Board

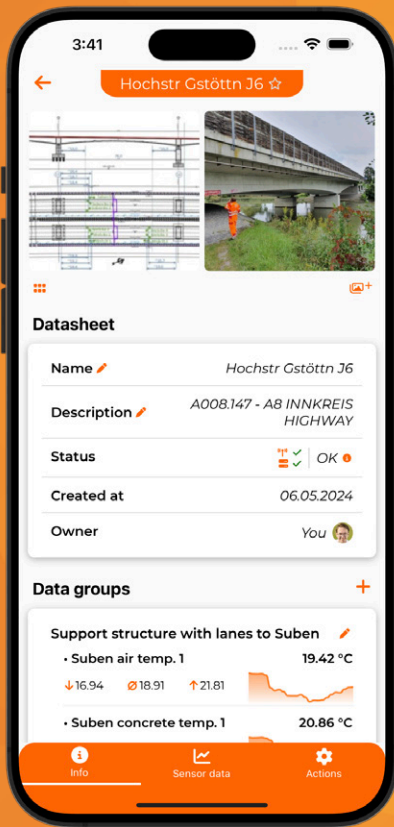


Rocket App & IoT-Solution Store

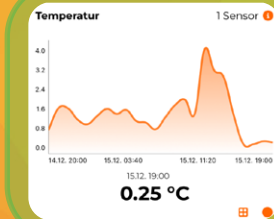
Rocket API



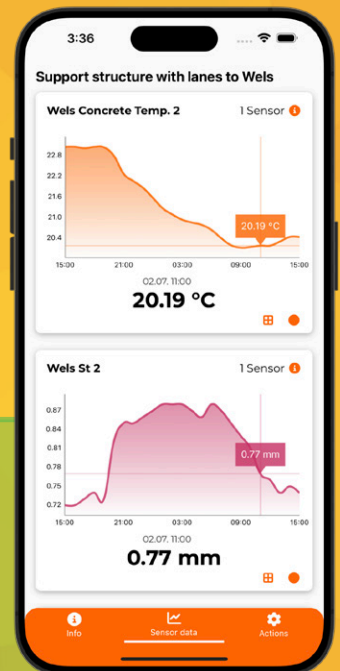
Rocket NG
enabling IoT



Manage your projects
intuitively and clearly
in the Rocket NG app



Keep your
measurement
data always
in view




Analyse
in our
ScienceBoard



Interested?
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