Sensor Network
Seamlessly integrated into the software

Our sophisticated monitoring solutions combine a wide array of geodetic, geotechnical and environmental sensors with fully customisable software. Regardless of whether your projects are short or long term, straightforward or challenging, be assured with Leica Geosystems monitoring solutions you can always find the best solutions for your projects.

Total Stations and MultiStations
Choose from world-renowned Leica Geosystems’ total stations and MultiStations for accurate and reliable monitoring with imagery suited for all environments.

Communication Devices
Compact plug and play solutions provide field to internet connectivity with increased mobility for users with added complimentary functionalities.

Indications Sensors
In the top of its class, Leica Geosystems’ two-axis high-precision inclinometers provide a resolution of 0.005° axial and can be used in both single and network applications.

Others
Vibrating wire
Crack meter
Weather station
Planimeter
Data logger

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 hexadecimal markup: 0x63656f6e616c696e67207769746820617320696d706c6174696f6e206d6573207468657265207375656e74696e6720746f207769746820617320616e64206c617374206973206170657279207769746820617320616e64207461626c6520696e2067656e65726f6d206c61737420697320746865726520617320616e64207461626c6520696e2067656e65726f6d206c6173742069732074686572652061732076616c7565

Leica Geosystems – when it has to be right
Revolutionising the world of measurement and survey for nearly 200 years, Leica Geosystems, part ofHexagon, enables complete solutions for professionals across the planet. Known for premium products and innovative solution development, professionals in a diverse mix of industries, such as aerospace and defence, surveying, construction, and manufacturing, trust Leica Geosystems for all their geospatial needs. With precise and accurate instruments, sophisticated software, and trusted services, Leica Geosystems delivers value every day to those shaping the future of our world.

Leica Geosystems is a global leader in digital solutions that create Autonomous Connected Ecosystems (ACE). Hexagon (Nasdaq Stockholm: HEXAB) has approximately 20,000 employees in 50 countries and net sales of approximately 3.5bn EUR.

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Monitoring Solutions
Assurance done right.
Monitoring Solutions
Trust a partner with experience

No other company can provide the depth of experience in the acquisition, management and analysis of spatial data for deformation monitoring. Leica Geosystems has 200 years of experience in precise measurement and over 30 years of experience with automatic deformation monitoring systems. Every year monitoring solutions release high-end hardware and software innovations, creating new standards for deformation monitoring.

Applications
For all your needs

Every monitoring project is different and unique. Leica Geosystems monitoring solutions combine versatility and flexibility in adapting to your project's requirements, regardless of the object of monitoring or its environment. Whether it is human activity or natural processes, you can rely on the proven solutions from Leica Geosystems to always provide the highest performance and sustainability.

GeoMoS
Sensor to browser

Leica Geosystems monitoring solutions provide seamless integration of hardware and software. Simple to install in the field, the sensors are promptly connected to the cloud or on-premise GeoMoS solution, which informs you about all the movements and changes instantaneously. The comprehensive visualization of results is easily accessible over the browser from any mobile device, at any time.

Planning
In the planning phase of a project, monitoring aids in the preliminary analysis and risk assessment of a site. This helps to determine the suitability and stability of the ground and its general surrounding area before any construction work takes place.

Construction
With constant impact and movement, construction poses many major risks. Be it tracking the stability and verticality of the construction or any ground movements that might also affect surrounding structures, it is important that monitoring is performed throughout the construction phase. This is critical especially for the health and safety of those working on and around the site.

Structural Health Monitoring
Monitoring does not end after the planning and construction phases and in fact also plays a crucial role for existing structures. Long-term monitoring ensures the stability of structures despite the impacts of maintenance and aging as well as the potential impact of surrounding construction activity, seismic activity and other natural hazards.