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Geotechnical Monitoring Solutions

UTNT with its rich experience in measurement and monitoring solutions do offer variety of products for various applications which needs real time monitoring, IOT solutions for remote data access, alerts and control.



Environmental Monitoring

Tough weather and pollutants are major factors for life threatening deceases and strokes for the peoples working regularly in the mines. Monitoring makes us informed and information can be used for quick decision making for avoiding the losses due to extreme weather conditions and pollution.

Our solutions for monitoring of weather and pollution from reputed in world Indian brands like Aeron Systems, Oizom and many other products from different expert manufacturers from the world.

Mining

The slopes of open pit mines typically consist of a series of benched, steep cuts. Movement of slope walls and groundwater levels can be monitored to watch for areas of instability or aid in pit dewatering efforts.

The various openings, tunnels, and shafts of underground mines can experience ground failure or instability. Monitoring programs can consist of instruments to monitor tunnel roof subsidence/ convergence and shaft instability

Slope Stability Monitoring

Whether it is surface of subsurface slope stability, UTNT have solutions for both the problems. Excellence of Shape Array from Measurand and complimenting Geotechnical Measurement Solutions from RST instruments.

Measurand designs and manufactures Shape Array, which is used to monitor deformation of soil and structures like mines, dams, tunnels, walls, and buildings. Shape Array is an automated shape-measuring, inclinometer-style instrument on a reel, which has set a new standard for ease of installation. Shape Array data are available in real-time, enabling engineers and designers to reduce risk and save money by making smarter, faster decisions.

Geotechnical instruments manufactured by RST Instrument typically complement geospatial or radar systems, which monitor surficial movements.





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Structural Health

Aged or new structures like bridges, railway tracks, tunnels or building, monitoring them makes engineers and maintenance staffs pre-informed for optimizing the recurring maintenance cost and keeping the safety on priority.

As a comprehensive variety UTNT offers a huge range from high end to low cost IOT solutions to keep the eyes intact on your structures and maintain them when an alarm/alert reaches to the threshold setup by user.

Products engineered and manufactured by RST Instruments, Measurand and Monnit Corporation are widely used of variety of such applications.



DAM

Whether be it a new construction of the DAM or repair/rehabilitation work on the existing DAMs Geotechnical monitoring instruments has played a key role for keeping informed in real time to the decision makers.

Vibrations, movements, cracks, joints, pressure, piezometers or temperature, exclusive products manufactured by our partners RST and Measurand complements each other for the wide range of sensors for real time monitoring for DAMs.

Our solutions are not limited to geotechnical, but Level and discharge monitoring are also integrated part of the solutions offered by UTNT for DAM monitoring.