

WIRELESS MONITORING

WiSen are an innovative provider of intelligent wireless monitoring solutions and uniquely placed in the market to offer MeshNET and MeshWAN systems in both Mesh & Star topology. MeshNET being a shorter range 2.4GHz radio system more suited to high sensor density and sampling transmission rates and MeshWAN the long-range 868MHz radio version giving benefits such as radio transmission through physical obstructions. Each systems offers mirrored sensor nodes which cater for the detection and recording of a variety of movement parameters such as tilt, distance displacement, temperature variance or visual alerting through camera image or sensory alarms, as well as interacting with 3rd party geotechnical and structural sensors giving the client a one stop portfolio solution.

Empowering the user is at the heart of the system, allowing users to have full ownership and control changes of systems and providing intelligent smart tools which assist in the decision making and reporting process.

WiSen systems are suited and can be deployed in multitude of industries such as Railways, Tunnels, Bridges, Construction Sites & Critical Infrastructure.



TRACK MONITORING

Safeguarding railways by attaining changes associated to rail cant, twist longitudinal settlement, alignment fault, voiding and temperature.



SLOPE MONITORING

Providing a trigger mesh system for near instantaneous movement detection and informative alerts.



BRIDGE MONITORING

Longer term assurance monitoring of structural asset.



TUNNEL MONITORING

Monitoring the structural movement associated to ground pressure.



CONSTRUCTION MONITORING

Ensuring the safety of site personnel and neighbouring stakeholder assets.

Products

- Innovative cost-effective products that can react and cater for different movement parameters.
- Integration with a range of 3rd Party Geotechnical Sensors. Empowering the user to control and manage all site instrumentation.

Physical Threat

- Discreet instrumentation which is quick to install, and means less time spent in vulnerable locations with visible and expensive equipment.
- Equipment less aesthetically appealing than comparative systems such as total stations

Safety Critical Staff

- Fewer possessions and reduced safety critical staff requirement throughout the duration of the project.

Boots off Ballast

- Reduction in the footfall of personnel on track compared to more conventional or manual monitoring equipment schemes.

Data Control

A comprehensive data management suite you control which offers:

- Automatic Alerting
- Remote setting changes.
- Creation and issuing of auto-reports
- One visualisation platform for all WiSen & Geotechnical Sensors

Mitigated Manual Handling

- Minimal tool and pre-preparation requirements for installation.
- Small size and weight sensor technology, which is easier to transport and safer to handle, which helps reduce the risk of physical injury.

Less Frequent Site Visits

- Reduced site visits and putting staff at risk to traffic incidents when travelling.
- Resilient and long-life power options for both Gateways and Sensor Nodes.

Reduced Fatigue

- Quicker installation reduces the quantity of hours and days associated with installation and decommissioning of system.
- Staff exposure to alternating day/night shift patterns reduced and more manageable.

