

Ackcio Mesh Telemetry System



Innovative and versatile product suite transmits data and analytics from monitoring instruments to your fingertips in real time.

Setup:

Plug-and-play style setup and user-friendly system.

Compatibility:

Compatible and field tested with most geotechnical and structural sensors from all major instrument manufacturers.

Battery Life:

Battery life of over 5 years.

Certifications:

IP67



BEAM-VW-S1 1 sensor
BEAM-VW-S8: 8 sensors



ANALOGUE NODES



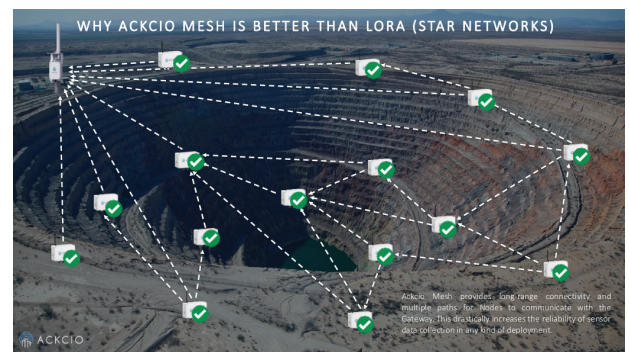
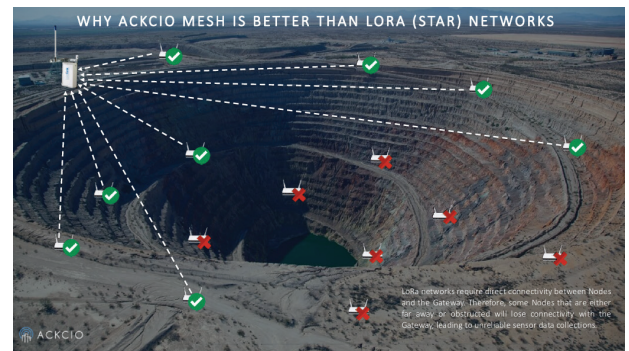
DIGITAL NODES



GATEWAY



RELAY NODES



ADVANTAGES OF THE ACKCIO BEAM SYSTEM

- Long-range, mesh-enabled wireless communication system
- Plug-and-play operation with almost all types of sensors used in TSF monitoring
- Rapid and reliable data collection from TSF sensors
- Low-power design that provides years of maintenance-free operations
- IP67 ingress protection allows for deployments in harsh environments
- FCC and CE certified, and therefore can be used in almost any country
- Cost-effective to allow for deployments in both active and decommissioned mines

MESH MAP



Ackcio Mesh Telemetry System



Ackcio Gateway (BEAM-GW) receives sensor data from Ackcio Nodes and uploads them to Ackcio Cloud or third-party servers.

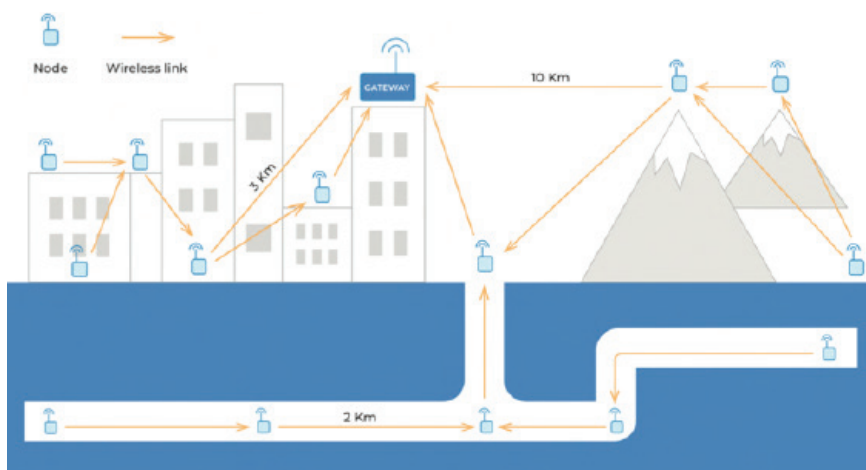
Vibrating Wire Nodes monitor all types of vibrating wire sensors like piezometers, strain gauges, load cells and crack meters. With up to 10 hops and 150 nodes per Gateway, the Vibrating Wire Nodes come in two formats – single channel and eight channel.

Analogue Nodes monitor all types of sensors that have analogue outputs such as 4-20mA Tiltmeters, LDVT sensors, and extensometers. Analogue Nodes come in two formats based on the number of sensors they can connect with – single sensor and four sensor.

Digital Nodes monitor digital sensors like IPIs that follow RS232, RS485 and SDI-12 protocols.

Relay Nodes extend the wireless range of other Nodes in the Mesh, allowing them to communicate with Ackcio Gateway when deployed in isolated, hard-to-reach locations.

Ackcio Software provides all stakeholders with real-time access to every data point collected from your projects, thereby allowing you to make informed and collective decisions that reduce delays and increase productivity and safety.



An illustration of how Ackcio Mesh works in large sites and tunnels where all sensor data can be sent to one gateway via our long-range mesh networking system.



ON-PREMISE AND CLOUD-HOSTED SOFTWARE SUITE

- Geotechnical data management dashboard
- Insightful visualization of data and trends
- Real-time sensor data processing to give meaningful information
- Compatibility with 3rd party platforms and software.
- 24x7 on-premise or cloud access



COMPANION SMART PHONE APPLICATION

- Easy to use mobile app to configure devices
- Simple on-site troubleshooting
- Useful mesh network analysis
- Standalone mode for disconnected nodes

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