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About Digital-G

The best innovations are humanly relevant. they start with a purpose – a focus on why the innovation is needed and who will benefit from it.

At Digital-G, we're committed to delivering innovation that helps digitize the construction industry through the use of emerging technologies such as IoT & AI.

Shaping the future of construction businesses as they, in turn, shape cities and communities the world over.

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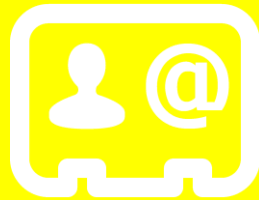
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WISENMESHNET

Automated Wireless
Infrastructure Monitoring System

digitalG

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ABOUT WISENMESHNET

Real-time and Robust site monitoring system

Create Inspirations

WISENMESHNET discovers everything you need to know about your site automatically in real-time. Within minutes you will have the monitoring, alerting and graphing needed to maintain and optimize site infrastructures.

Data is acquired remotely from most geotechnical and structural sensors manufactured by all major instrument providers.

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WISENMESHNET wireless mesh network system is flexible, allowing radio traffic between sensor nodes to be relayed to the gateway node via other sensor nodes (thereby allowing the creation of a resilient network, able to span a large area up to few kilometers)



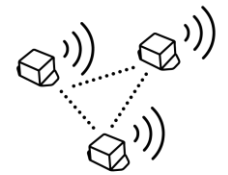
WISEN Wireless Nodes

- Various models such as Tilt & Compass/Laser distance/Liquid Level Settlement/Vibrating Wire/ Foil Gauge sensor nodes
- Radio Frequency 2.405 - 2.480GHz (16 Channels of 5MHz Bandwidth)
- 10 Mesh Hops supported
- IEEE802.15.4 Standard



WISEN Wireless Gateway

- Dimension 180 x 140 x 60mm
- Weight <2.0kg
- IP66 rating, Powdercoated
- Operating Temperature -40 to 85°C
- 8GB (Min. 1.5 years local storage)
- 4 x 3.6V Lithium primary D- Cell or 110- 240VAC to 12VDC adaptor
- 2G/3G/4G Micro SIM card
- Connect up to 200 nodes



WIRELESS NODES

Transmit data
various sensors



WIRELESS GATEWAY

Relay data
to cloud



ONLINE MONITORING
PLATFORM

Access data
remotely

MULTIFACETED SYSTEM

WISEN

Types of sensors to interface

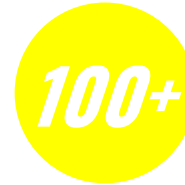
- Tilt
- Movements & deflections
- Vibration / Impact
- Groundwater
- Cracks
- Settlement
- Rain gauge
- Load cell

Monitoring site conditions under adverse and challenging conditions such as construction sites, deep bored tunnels, bridges are made possible by making use of sensors with WISEN wireless system.

+8 year BATTERY LIFE

KEY BENEFITS

What makes WISEN System better



Compatible with over 100 different sensors from various manufacturers



Reduces manpower and chances of error or mishaps



Stay updated through real-time data delivery



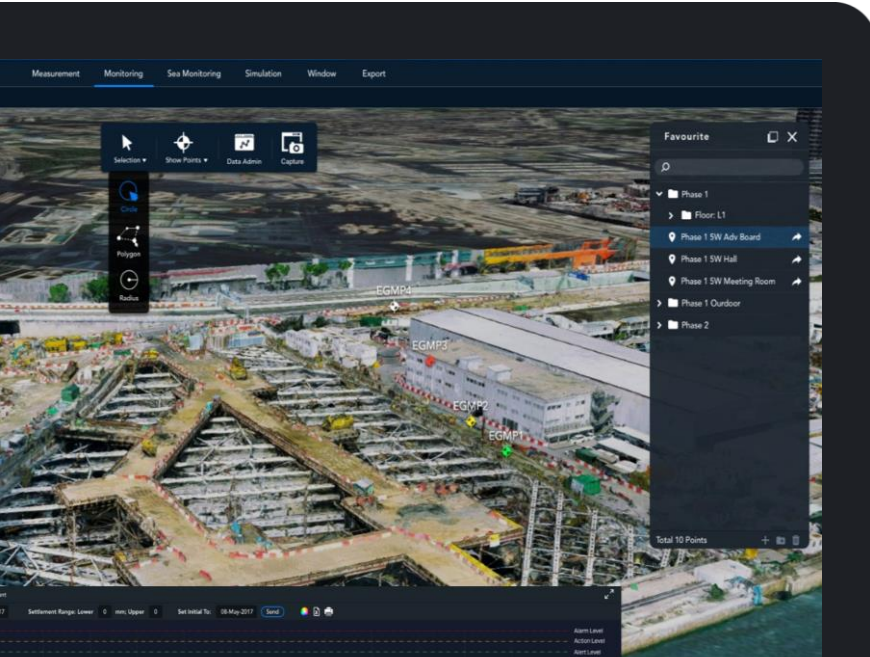
Wireless network system reduces long term investments and eases maintenance

Helps reduce your long term investments in site monitoring by up to

80%

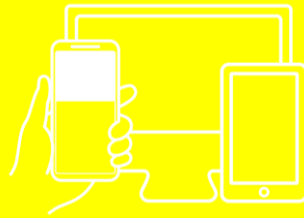
Create Inspirations





GEOMON

Cloud data monitoring platform



WISENMESHNET monitoring software allows you to view and monitor the data collected from the sensors in your network and receive alerts so you can take decisive actions. Registered users can login to the platform anywhere and anytime 24/7, increasing productivity and accountability.

LYRIC THEATRE COMPLEX comprises a 1,450-seat lyric theatre, a 600-seat medium theatre and a 270-seat studio theatre, a center of excellence showcasing the best of Hong Kong and international dance and theatre.

Due to the sheer size and complexity of the project, large number of strain monitoring sensors needs to be installed. Digital-G was engaged to provide WISENS real-time monitoring system which reduced manpower, increased site safety and greatly decrease project CAP-EX and OP-EX.



CASE STUDY LYRIC BASEMENT (HK)

Stunning Corporate Proposal