

Adventum Tech service: SafePit

Sensors: SafePit

Analytics: Liveload.app

Price is subject to project-specific parameters



The offer includes:

1. SafePit sensor system
2. Wireless monitoring of retaining wall stability, tilting, and loadbearing
3. Real-time notification system for detected failure patterns
4. Access to **Liveload.App** system for structural stability analytics
5. Adventum Tech technical support
6. On-site delivery and sensor installation
7. Travelling costs
8. Base station and Data plan
9. Monthly Liveload.app usage: 50 USD/month/project



SafePit

Technical Datasheet



Product Overview

SafePit is a sophisticated wireless monitoring system designed by Adventum Tech specifically for monitoring the stability of construction pit retaining walls, including secant pile walls, diaphragm walls, sheet pile walls, and slurry walls. The system provides continuous monitoring and immediate alerts when potential stability issues are detected, enabling proactive maintenance and safety measures.

Why Monitor Retaining Wall Stability?

Monitoring construction pit stability is essential for:

- Preventing catastrophic wall failures
- Protecting worker safety and adjacent structures
- Ensuring compliance with construction safety regulations
- Optimizing construction processes through data-driven insights

Key Features

- **Comprehensive Monitoring:** Continuous tracking of wall stability, tilting, and loadbearing
- **Real-Time Alerts:** Immediate notification when failure patterns are detected
- **Advanced Analytics:** Automatic data processing through liveload.app platform
- **Secure Data Management:** All data stored and analyzed through the liveload.app interface

Technical Specifications

Parameter Details:

- Measurement Range: Angle (Degree)
- Precision: 1%
- Signal Intensity: Customer specific
- Data Transmission: 4G, Wireless, LTE
- Protocol: LoRa
- Frequency: 868 MHz

Physical Specifications:

- Dimensions: 120 x 110 x 160 mm
- Weight: 850 g
- Battery Type: Li-ion, rechargeable
- Battery Life: 1 year



Available Accessories:

- LED Display
- PV Panel
- Extended Battery
- Digital Thermocouple

Benefits of SafePit

Technical Benefits

- Real-time stability monitoring
- Early warning system for potential failures
- Improved site safety
- Enhanced quality assurance

Commercial Benefits

- Reduced risk of structural failures
- Optimized construction planning
- Enhanced reputation
- Insurance benefits
- Competitive advantage in tendering

Environmental Benefits

- Reduced risk of environmental incidents
- Better community relations
- Documented compliance with regulations

Software Integration

SafePit data is seamlessly integrated into **liveload.app**, offering:

- Real-time data visualization and analysis
- Secure, cloud-based storage
- Project-specific dashboards
- Exportable reports for documentation
- Compliance monitoring



About Adventum Tech

Adventum Tech delivers cutting-edge wireless real-time monitoring solutions for the construction industry. With extensive global experience, Adventum Tech understands the end customers' needs, offering comprehensive, turn-key solutions that improve quality, safety, and efficiency.

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