Adventum Tech service: LiveLoad

Sensors: LiveLoad

Analytics: Liveload.app

Price is subject to project-specific parameters

The offer includes:

1. LiveLoad sensor
2. Wireless monitoring of loadbearing capacity and support pressure distribution
3. Real-time overload detection and alert system
4. Continuous weight monitoring of reinforcement and concrete application
5. One-month access to **Liveload.App** system for structural load analytics
6. Adventum Tech technical support
7. On-site delivery and sensor installation
8. Travelling costs
9. Base station and Data plan
10. Monthly Liveload.app subscription fee

ADVENTUM TECH

LiveLoad

Technical Datasheet

Product Overview

LiveLoad is an advanced wireless monitoring system developed by Adventum Tech specifically for monitoring loadbearing capacity of temporary and permanent supports in construction projects. The system provides real-time data on structural loads, enabling early detection of potential overload situations and ensuring safe construction practices.

Why Monitor Structural Loads?

Monitoring structural loads is crucial for ensuring construction safety and structural integrity. Proper load monitoring helps prevent:

- **Structural Failures**: Early detection of overloaded supports prevents deformation and potential collapse
- **Construction Errors**: Real-time weight monitoring ensures proper material distribution
- **Safety Incidents**: Continuous monitoring provides immediate alerts for dangerous load conditions
- **Cost Overruns**: Preventing structural issues saves on repairs and delays

Key Features

- **Real-Time Load Monitoring**: Continuous tracking of support pressures and load distribution
- **Instant Alert System**: Immediate notification when loads exceed predetermined thresholds
- **Weight Recording**: Accurate measurement of applied reinforcement and concrete weights
- **Data Analytics**: Advanced analysis through liveload.app platform
- **Wireless Operation**: Easy installation and maintenance-free operation
- **Cloud Integration**: Secure data storage and access through liveload.app

Technical Specifications

Parameter	Units	Tolerance/Precision	Signal Intensity	Additional Specifications
Load Capacity	kN	±0.1 kN	15 min (Adjustable)	Range: 0-1500 kN
Weight Measurement	kg	±0.5 kg	15 min (Adjustable)	Cumulative measurement
Data Transmission	-	-	Real-time	Wireless protocol: LoRa
Alert Response	sec	< 1 sec	On-event	Configurable thresholds

Battery Life: 1 month to 20 years (configuration dependent)

How LiveLoad Enhances Construction Quality

- **Preventive Monitoring**: Identifies potential overload situations before they become critical
- **Quality Control**: Ensures proper weight distribution during construction
- **Process Verification**: Validates construction sequences and material applications
- **Safety Assurance**: Provides continuous monitoring of structural loads

Benefits of LiveLoad

Technical Benefits

- Real-time load monitoring
- Early overload detection
- Improved construction safety
- Enhanced quality control

Commercial Benefits

- Reduced risk of structural failure
- Optimized material usage
- Enhanced project documentation
- Lower insurance premiums
- Competitive advantage in tendering

Environmental Benefits

- Optimized material consumption
- Reduced waste through proper loading
- Lower environmental impact
- Support for sustainable construction

Software Integration

LiveLoad seamlessly integrates with **liveload.app**, providing:

- Real-time load visualization
- Historical data analysis
- Automated reporting
- Alert management
- Cloud-based data storage
- Multi-user access

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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