Adventum Tech service: SoundControl

Sensors: SoundControl

Analytics: Liveload.app

Price is subject to project-specific parameters

The offer includes:

1. SoundControl sensor system
2. Wireless monitoring of surrounding noise levels (dBA)
3. Real-time notification system for exceeded noise limits
4. Access to **Liveload.App** system for vibration 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 subscription fee

OVERDESIGN

CO_2 FOOTPRINT REDUCING

SAFETY EXCELLENCE

SoundControl

Technical Datasheet

Product Overview

SoundControl is a wireless real-time monitoring system developed by Adventum Tech to measure, analyze, and report noise pollution levels (dBA) on construction sites and within urban environments. This system provides real-time alerts when noise levels exceed pre-set thresholds, ensuring compliance with regulations, reducing environmental impact, and fostering community trust.

Why Monitor Construction Vibrations?

Monitoring construction site vibrations is crucial for:

- **Compliance with Regulations**: Ensures adherence to local and international noise control standards, preventing fines or project delays.
- **Protecting Nearby Communities**: Reduces disturbance for nearby residential, commercial, and institutional areas, fostering better relations with stakeholders and the public.
- **Liability Management**: Documents noise levels to protect against claims or disputes related to excessive noise impacts.
- **Improving Construction Efficiency**: Identifies high-noise activities, allowing for better scheduling and mitigation strategies to reduce environmental impact.
- **Broader Applications**: Suitable for construction companies, city planners, developers, rail authorities, airports, and marine projects to monitor and manage noise impact efficiently.

Key Features

- **Continuous Noise Monitoring: Tracks dBA levels 24/7 to provide precise data on noise emissions.**
- **Real-Time Alerts: Immediate notifications when noise thresholds are exceeded, enabling rapid corrective actions.**
- **Advanced Analytics**: Leverages Adventum Tech's **liveload.app** for sophisticated data visualization, analysis, and reporting.
- **Compliance Documentation**: Generates detailed reports for regulatory audits and documentation.
- **Customizable Thresholds**: Allows users to set project-specific noise limits and alarm configurations.
- **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: 30 dBA–130 dBA
- Precision: ±1 dBA
- Signal Intensity: Customer specific
- Protocol: LoRa
- Data Transmission: LoRa or 4G, Wireless, LTE
- Frequency: 868 MHz

Physical Specifications:

- Dimensions: 120 x 110 x 160 mm
- Weight: 900 g
- Battery Type: Li-ion, rechargeable
- Battery Life: 1 -12 month

Available Accessories:

- LED Display for real-time visual feedback
- PV Panel for sustainable power supply
- Extended Battery for prolonged usage

Benefits of ControlControl

Technical Benefits

- Real-Time Noise Monitoring: Captures noise levels instantly for actionable insights.
- Regulatory Compliance: Simplifies adherence to environmental and occupational health regulations.
- Improved Project Planning: Data aids in mitigating noise during critical phases of construction.
- Enhanced Quality Assurance: Ensures noise control measures are effective and sustainable.

Commercial Benefits

- Reduced Risk of Claims: Documented evidence helps defend against noise-related disputes.
- Enhanced Reputation: Shows commitment to sustainability and community well-being.

- Competitive Advantage: Provides a transparent framework for noise management in bids and tenders.
- Cost Optimization: Reduces potential fines and disruptions associated with excessive noise.

Environmental Benefits

- Minimized Impact on Communities: Promotes harmony between construction activities and nearby residents or businesses.
- Better Stakeholder Relations: Demonstrates proactive efforts to limit environmental impact.
- Improved Urban Planning: Helps authorities and developers design noise mitigation strategies for sustainable growth.

Software Integration

SoundControl 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.

Contact Adventum Tech

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