



## Adventum Tech service: SoundControl

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OVERDESIGN

CO<sub>2</sub>  
FOOTPRINT  
REDUCING

SAFETY  
EXCELLENCE

Sensors: SoundControl

Analytics: Liveload.app

Price is subject to project-specific parameters

## The offer includes:

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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



## Product Overview

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**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?

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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

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- 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

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### Parameter Details:

- Measurement Range: 30 dBA–130 dBA
- Precision:  $\pm 1$  dBA
- Signal Intensity: Customer specific
- Protocol: LoRa
- Data Transmission: LoRa or 4G, Wireless, LTE
- Frequency: 868 MHz

### Physical Specifications:

- Dimensions:  $120 \times 110 \times 160$  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 SoundControl

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## 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 noiserelated 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



## Contact Adventum Tech

For more details, custom configurations, or pilot projects:

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