



ShakeZone

Vibration Monitoring System

ShakeZone is a state-of-the-art vibration monitoring system that combines sensors and a robust dashboard for site vibration monitoring. With a highly customizable platform, user-friendly set-up, wireless connectivity and automatically generated reports and alarms, ShakeZone is the most modern solution for vibration monitoring projects.



It has never
been this easy!



- Email alerts
- SMS alerts
- Automatic PDF reports sent by email

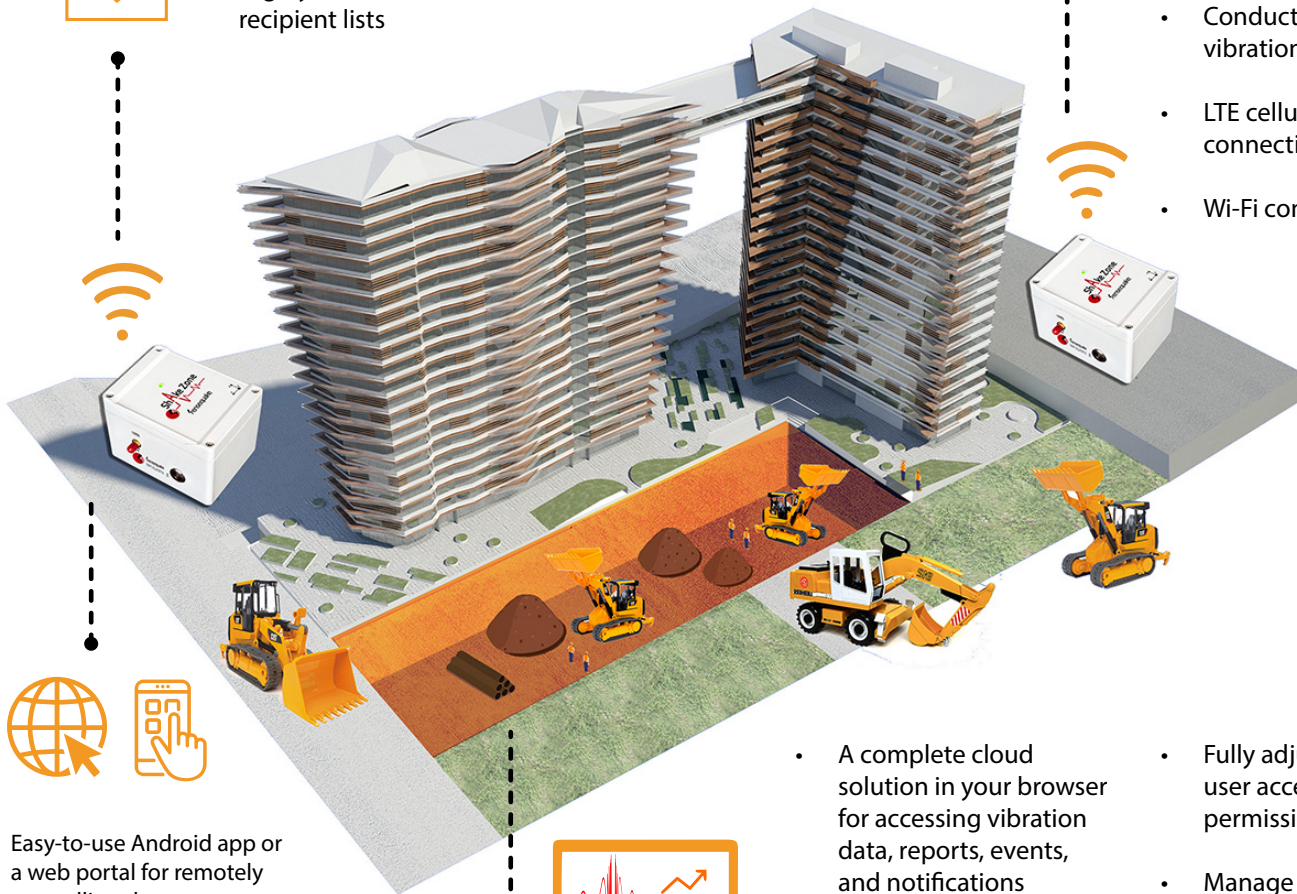


- Highly customizable recipient lists



Sensequake
Cloud

- 24 / 7 real-time monitoring
- Ensure site safety
- Avoid project downtime
- Conduct detailed vibration studies
- LTE cellular connection
- Wi-Fi connection



- Easy-to-use Android app or a web portal for remotely controlling the sensors



Sensequake
dashboard

- A complete cloud solution in your browser for accessing vibration data, reports, events, and notifications
- Select user-defined thresholds or standards
- Record peak-values at user-defined intervals
- Fully adjustable user access and permissions
- Manage projects by uploading site photos or drawings
- Time and frequency domain analysis

ShakeZone

Sensequake

for more information visit : www.sensequake.com/shakezone



Sensequake ShakeZone monitoring system records vibrations and compares their levels to vibration standards. You will receive immediate alerts if the vibration at the site start to exceed pre-defined limits.

The Sensequake Cloud Platform provides an online project management tool for you to store all the project information such as images, videos and documents, visualize vibrations in the time and the frequency domains, perform statistical studies, and export the data in CSV format. You can create several user accounts for your employees and also for your clients, with complete control over user permissions.



Easy to Use



Wireless



Light Weight &
Compact Size



Compliance
Standards



Cloud Data
Management



Easy Access via
Phone App or Web



Background
Vibration and Event
Reports



Email/SMS Event
Notifications

Records

- Velocity/acceleration waveforms
- Peak Particle Velocities
- Zero-crossing frequencies
- RMS velocity/acceleration

Sensor elements

- Triaxial velocimeter, range: ± 250 mm/s, 3 dB bandwidth: up to 488 Hz (depends on the sampling frequency)
- Triaxial accelerometer, $\pm 2g$ and $\pm 6g$
3 dB bandwidth: up to 150 Hz

Digital conversion

- 6 independent and differential 32-bit channels
- Sampling rates up to 3906 Hz
- Analog and digital anti-aliasing filters
- Dynamic range of 143 dB at 15 Hz and 134 dB at 488 Hz sampling

Self-noise density estimates

- Accelerometers : $8 \mu g/\sqrt{Hz}$ at 1 Hz and $5 \mu g/\sqrt{Hz}$ at 10 Hz
- Velocimeter: $1 \mu g/\sqrt{Hz}$

Communication

- LTE Cat-M1 low power
- Wi-Fi
- USB for data transfer and firmware update

Timing

- Internet timestamps (NTP)
- Optional GPS for microsecond precision

Storage

- 16 GB, FAT32 file system

Sensor control interface

- Android app
- Sensequake Cloud platform for remote control

Sensequake Cloud

- Project data management
- Complete control over user permissions
- Possibility to create client accounts
- Background vibrations, events, statistical studies
- Time and frequency analysis

Power supply

- Internal lithium battery, 2 days of operation
- Micro-USB port for charging
- Solar charging (optional)

Dimensions: 120 x 90 x 80 mm

Weight: 700 g

Temperature range: -30 to 50°C

