

OVERVIEW OF SENTINEX

SentineX® Remote Data Acquisition and Reporting Platform is a remote environmental monitoring, data acquisition, communication and reporting system. It provides advanced capabilities for continuous monitoring of environmental conditions with minimal human intervention.

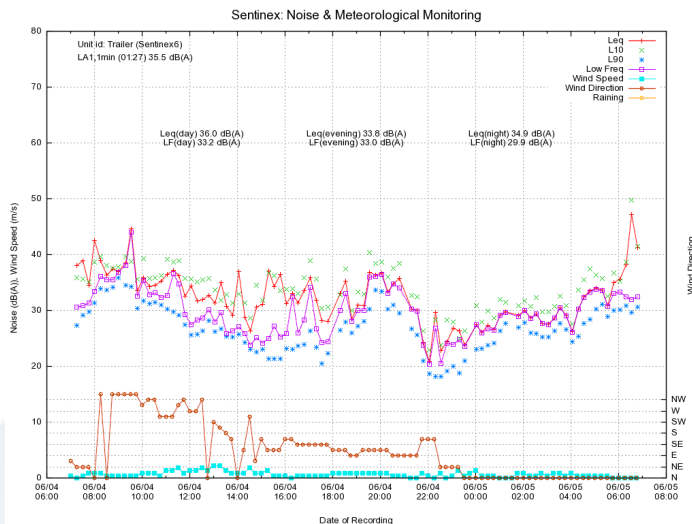
The SentineX product line currently includes:

- SentineX Noise (noise monitoring and continuous audio recording)
- SentineX Dust (dust level monitoring and alarming)
- SentineX Met (meteorological condition monitoring)
- SentineX Odour (odour monitoring and alarming) – *in development*
- All or any combination of the above in a single unit or networked system

REPORT-GENERATING PLATFORM IS THE KEY

SentineX represents a leap forward from data logging. It automatically summarises data into preformatted reports, logs and graphs, then emails a data package to users on a daily basis. It can also be set to transmit alarms to your mobile phone when certain conditions are met (e.g. noise levels are exceeded).

The **Daily Monitoring Chart** provides all the data necessary to quickly assess the impact of operations over the last 24 hours:



This sample chart includes 15 minute noise monitoring results, corresponding wind speed and direction data plus calculated daytime, evening, and night time period noise levels and an evaluation of 1 minute sleep disturbance noise level

FEATURES OF SENTINEX

- Automatic data summaries, reports and graphs.
- Email reporting system and interrogation of live data via SMS.
- SentineX Data Repository - access to near real-time data on the web.



SentineX can be supplied as a fixed or mobile unit

TESTIMONIAL

“The Sentinex noise, dust and meteorological system has been operating successfully at a number of our projects for nearly three years and has proved an invaluable tool in assisting the operations to meet their strict environmental commitments. To my knowledge no other system can provide the same flexibility. With simplified automated reports and near real-time access to the monitoring data, the Sentinex system allows operations to be more proactive in addressing environmental issues, making everyone's job easier.”

- Geoff Marschke -

Environment Manager
Thiess Mining NSW



SentineX helps improve community relationships

OVERVIEW OF SENTINEX

- Continuous mp3 audio recording (in SentineX Noise unit).
- The SentineX platform is extremely flexible, so can also be integrated with any other data capture device for any monitoring purpose, e.g. water quality/flow, pressure, vibration, machine monitoring, energy consumption, security – the potential applications are vast, and not limited to environmental situations.

IMPROVE UNDERSTANDING OF YOUR OPERATIONS

- The wireless communication system transmits near real-time data to the repository. Users access the repository via the web to view historical and current data in graphical format, and interrogate and interact with remote units.
- Immediate feedback to key operational personnel can be used to manage your operational practices day-to-day.

REDUCE YOUR RESOURCE REQUIREMENTS

- Staff resources and time spent analysing data can be significantly reduced. Review of daily charts takes less than 5 minutes.
- If required, an hour of audio data can be assessed within 15 minutes to determine the source of an exceedance.

DEMONSTRATE COMPLIANCE

- SentineX will improve your ability to achieve and demonstrate compliance with licence and consent conditions.

IMPROVE COMMUNITY RELATIONSHIPS

- SentineX will improve your ability to meet community expectations – exceedances can be proactively managed **before** a complaint is received.

SIGNIFICANCE OF SENTINEX TO INDUSTRY

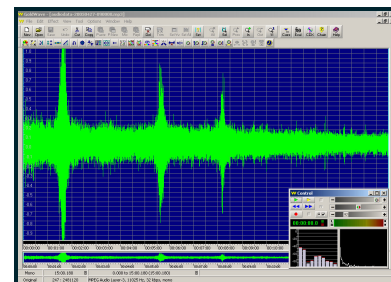
- Interpretation and understanding of monitoring results is greatly improved, e.g. characterising mine noise using the lower frequency spectrum.

AWARDS AND TESTIMONIALS

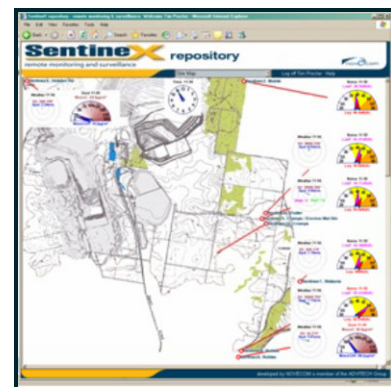
- Testimonials are available on request from environmental managers of leading companies such as Xstrata Coal, Peabody Resources, Thiess Mining, Centennial Coal and OneSteel.
- Winner of two awards at the 2006 Newcastle and Hunter Environmental Achievement Awards.
- Highly Commended at the 2006 NSW Minerals Council Conference Environment & Community Excellence Awards.

PRICING

- SentineX is competitively priced against similar products.
- Flexible sale, hire or leasing packages available.



Visual representation of 15 min audio file showing slightly elevated background noise and three discrete events (one truck and two cars passing)



SentineX Data Repository provides access to real-time and historical data at any time, via the web

MORE INFORMATION

SentineX was designed and developed by Novecom in consultation with **Advitech** personnel highly experienced in environmental monitoring and information technology.

www.sentinex.com.au

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