Automatic noise monitoring

The AVA Monitoring System for noise measurement is ideal for situations that require unattended field monitoring of noise with high availability and precision. Measurement and uploading of measurement data are fully automated, and you always have direct access to up-to-date information from your PC, tablet or smartphone.

With the cloud based AvaNet measurement system and the Sonitus EM2030 noise meter, you can measure and record noise in unattended environmental monitoring projects, such as construction and infrastructure projects. No installation is needed; just plug in and let the noise meter start its work.

Field monitoring with high availability and precision

The system is ideal for all situations that call for unattended noise monitoring in the field with high availability and precision. The robust design of the instrument allows prolonged use in demanding outdoor environments.

The field instrument records and communicates measurement data and is remotely controlled over the mobile phone network and the Internet. You get full access to your measurement data over a regular web browser, at any time and wherever you are.

CLOUD SYSTEM

The cloud system AvaNet is the hub of our product package and takes care of all data collection, communication, processing, monitoring and storage of measurement data. Here you can also set alerts that automatically send an e-mail or SMS to those responsible if a measurement exceeds permitted limits or if a failure occurs. With AvaNet Noise you can operate the noise monitor remotely and keep an eye on your measurement data in real time, wherever you are.

Field instrument

Sonitus EM2030

The Sonitus EM2030 field instrument is easy to use and requires no configuration in the field. Just power on to start measuring.

It consists of a robust measuring unit, a weatherproof microphone, stand with cable and mains cable.

Continuous noise monitoring

The Sonitus EM2030 noise meter suits all types of projects where you need safe and accessible environmental noise monitoring, such as:

• Construction sites and demolition projects
• Planning projects
• Industrial noise measurement
• Monitoring noise levels
• Events such as concerts
• Runways and small airfields

Benefits
• Continuous measurement and operational monitoring round the clock
• 1/1 and 1/3 octave analysis options
• Measurement data in real time
• Reliable field equipment to withstand demanding outdoor environments
• Audio capture option
• Uncorrupted measurement data
• Automatic alerts via e-mail and SMS
• Simple to install and operate
• Weatherproof microphone
• Secure and flexible cloud-based reporting

Technical specifications

Measurement
• Accuracy: IEC 61672 Class 1
• Dynamic range: 17dB to 121 dB(A)
• Frequency range: 20 Hz to 20 kHz
• Sampling frequency: 96 kHz
• Frequency weighting: A and C weighting
• Parameters: LEQ, L05, L10, L50, L90, L95, LMAX
• Fast and slow LMAX options

Logging
• Measurement period: 1, 5, 10, 15 or 30 minutes
• Data storage capacity: 5 year (5 minute logging)
• Procedure: Measurement and logging are automatic
• Optional audio capture (.wav files)

Microphone
• Sensitivity: 50mV/Pa
• Connection: BNC to BNC (3m cable as standard)
• Power supply: Constant current ICP, 18V 4mA

Communications
• User interface: 802.11 b/g (Wi-Fi)
• Data upload: HSPA/UMTS (3G)

Enclosure
• Protection: IP65 die-cast aluminium
• Dimensions: 110mm x 140mm x 60mm
• Weight: <800g
• Mounting holes: 4 x 5mm

Operating Conditions
• Temperature: -10°C to 50°C
• Humidity: 0% to 95% RH

Power Requirements
• Power input: 110V-240V AC
• EM2030: 8-16V DC (battery option)
• Power consumption: 2.4W

Calibration
• Performed using a standard 1/2" acoustic calibrator at a user defined level.

Interface
• The EM2030 and online interface are accessed using any standard web browser.
• WiFi (at site user interface)

AVA monitoring®