

we control NOISE & VIBRATION



water



energy



gas



industrial



home
automation



m2m

WEB-based noise monitoring system

WE500 Noise Cloud is an integrated solution for real-time monitoring of environmental noise, that provides Internet based remote control and easy access to noise measurements through a standard web browser.

Integrated noise monitoring solution

The system is composed of a WE500 monitoring device connected to a standard sound level meter, acting as a measurement front-end, and optionally a remote server for data storage and access. The built-in web interface provided by WE500 allows monitoring and download of logged data, and is available through 2G/3G wireless data connection, LAN or WLAN.

Autonomous system

WE500 needs only a data enabled SIM card and a power source for accomplishing its activities. The system does not need any kind of on-site human interaction after installation and setup. No more frequent visits to remote sites are required to retrieve data from the sound level meter memory. The system can be kept fully operational even for long term or permanent installations, thanks to its web-based remote control interface.

User friendly

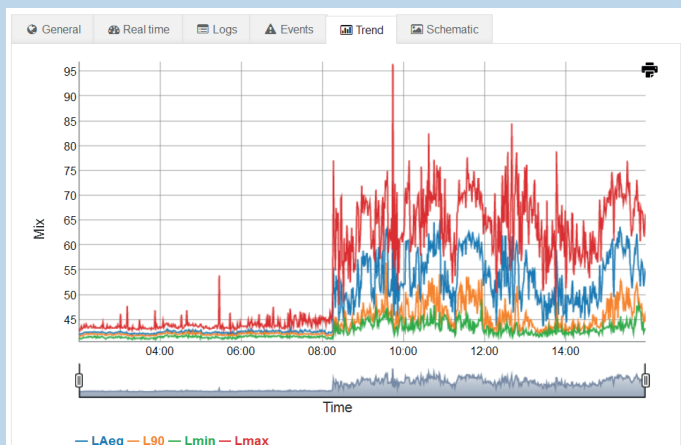
The web interface is self-explanatory and versatile. Data are presented with tables and multi-trace graphics that allow to compare several parameters in a single plot, such as LA_{eq} , L_{min} , L_{max} , L_{90} , and more. Data tables and reports can be exported in common file formats like TXT, CSV, XLS and PDF.

Customizable and expandable

Several items of the user-interface can be customized, for example the company logo and colours, to obtain the desired look & feel. Noise measurements can be easily integrated with data coming from other sources and sensors, such as geophones and vibration sensors, weather info (temp, humidity, wind speed and direction), geographical location (GPS), etc...

Mobile connectivity

The web interface can also be accessed from any mobile device (tablets and smartphones) using the iOS or Android apps provided.



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Applications

WE500 Noise Cloud can be used in all applications that require real-time access to noise measurements or even off-line data storage for post-processing.

Environmental noise monitoring -
Wind turbine noise -
Construction site noise monitoring -
Transport noise: road, rail and air -
Motorsport and entertainment -

Operating Mode

WE500 automatically logs noise measurements coming from the meter, storing the results in internal non volatile memory and optionally uploading them to a webserver, an FTP server or a cloud storage service (Dropbox).

Collected data can be viewed connecting either to the device itself or the web server, using just an Internet connection and a standard web browser, from a personal computer, smartphone or tablet. Noise tables and charts can be presented on screen, downloaded to a local computer and printed as needed.

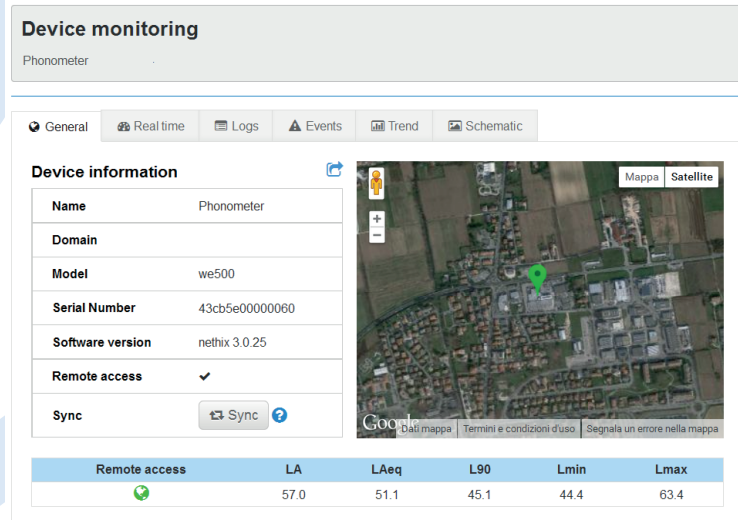
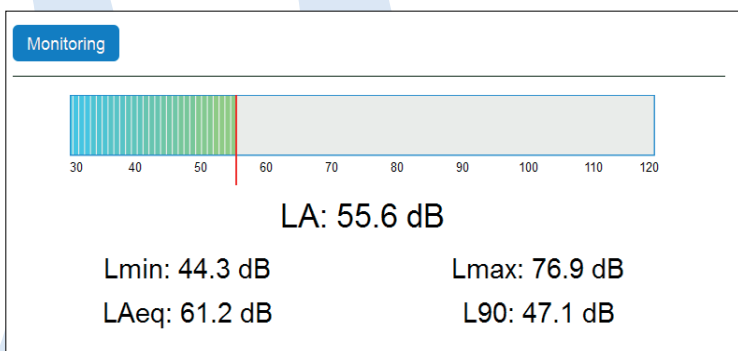
The system can also be programmed to detect and report high noise levels through an advanced alert system that sends notifications to selected users by SMS or email. Only authorized users can access the device and view noise measurements, thanks to a login system with programmable usernames/passwords and other security related protocols and features (HTTPS, VPN).

Compatibility

WE500 Noise Cloud is compatible with almost all models of Sound Level Meters available on the market, provided with a RS232 or USB connection and a documented protocol. On request the device can be customized for interfacing to different sources of information (sensors or other instruments) using the available communication channels (RS232, RS485, LAN, WAN, USB, Modbus).

WE500 Technical data

- CPU: ARM 32-bit
- Memory: 1 GB Flash
- Communications: 2x RS-232, 1x RS-485, MODBUS
- Local I/O: 8 digital IN, 2 digital OUT, 2 analog IN
- Wireless: Modem 3G/HSPA or 2G/GPRS
- Connectivity: Ethernet 10/100 Mbit RJ45
- Optionals: Dual modem, USB, WiFi



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