Unattended Noise Monitoring

NOISESCOUT WEB PORTAL
XL2 TYPE-APPROVED SOUND LEVEL METER
WEATHERPROOF OUTDOOR STATION
NETBOX COMMUNICATIONS HUB
DATA EXPLORER PC SOFTWARE
Long-term noise monitoring is typically found on construction sites, traffic routes, residential areas, wind farms, etc. We offer three monitoring solutions. The choice largely depends on how you prefer to access your measurement data. The choice is also restricted by the remoteness of the location, i.e. the availability of a data connection (e.g. mobile phone network).

- Data stored at the location — Standalone noise monitoring without internet connectivity
- Data available via FTP connection — NoiseScout Gateway Mode
- Data stored in the cloud with a rules engine — NoiseScout Managed Mode

### NoiseScout Managed Mode at a Glance:

- Easy commissioning and operation
- Data automatically managed in the cloud
- Automatic alarm emails
- Remote access via PC or mobile phone
- Comfortable firmware updates
Stand-alone Noise Monitoring

Autonomous Noise Monitoring without Data Connection
At locations where there is no data network, the monitoring station logs data to itself. Sufficient storage and power provide for long measurement periods. The monitoring station must be visited from time to time to physically collect the data by exchanging the external hard disk.

Required Components

- Type-Approved XL2 Sound Level Meter with Outdoor Microphone
- NetBox with external hard disk storage
- Weather protection, wind sensor, power supply
NoiseScout Managed Mode

Remote Monitoring in Managed Mode

In this mode, emails are sent by the system automatically, notifying when noise level limits are exceeded. The measurement data is stored in the cloud, including weather data and audio snippets of when limits are exceeded.

Required Components

- NoiseScout website controls multiple measurement stations
- Type-Approved XL2 Sound Level Meter with Outdoor Microphone
- NetBox for communications, web access through www.noisescout.com
- Weather protection, wind sensor, power supply
NoiseScout Gateway Mode

Remote Monitoring in Gateway Mode
Remote monitoring via FTP server is of particular interest to those users who want to manage their own measurement data. In this mode, data can be manually downloaded remotely from the monitoring station at any time. The XL2 screen and controls are remotely accessible, via a mobile phone for example, as if you were standing in front of the actual monitoring station.

Required Components
- Type-Approved XL2 Sound Level Meter with Outdoor Microphone
- NetBox for communications and an SFTP-Client
- Weather protection, wind sensor, power supply
The Monitoring Station

NetBox
The NetBox is the station’s data communications hub. It synchronizes measurement and audio data from the XL2 to the hard disk, cloud or FTP client. It also handles weather and GPS data.

Weather Protection Case
The weather case protects the sensitive electronics from harmful environmental influences. There are two types:

- Heavy Duty Outdoor Case (IP43 or IP51)
- Weatherproof Enclosure (IP65)

Power Supply
There are three alternatives for the long-term power supply to an outdoor sound level monitoring station:

- **a** Fixed connection to the power grid
- **b** Rechargeable battery with sufficient capacity
- **c** Solar panel

The variants **b** and **c** are often combined with one another, i.e. the solar panel serves as an energy source and the battery as an intermediate store. These configurations can usually not be ordered as standard solutions from the catalog, but must be configured on a project to project basis.
Data Analysis and Reporting

The Data Explorer PC software is ideal for post-processing and analysis of measured long-term levels. After importing the data, it is clearly displayed and can be filtered, grouped, weighted and mathematically linked from a variety of perspectives.

**Features**

- Personalized periods for exclusion
- Tone & Impulsiveness
- Percentiles and Level Statistics
- Rating Level
- Convenient creation of reports

**Features**

- Level History and Spectrogram
- Flexible Data Analysis
- Results Tables
All information is subject to change without notice.

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