



munisense

Infrastructure

The introduction of noise production limits, like the Dutch National Infrastructure that was enforced in 2012, are based on models. For municipalities and organisations, it is useful to compare these limitations to actual measurements. However, measuring infrastructure is complex, as it concerns locations where energy and/or internet access is poor or not available at all. With our INSIGHTNOW™ network this is easy.

Small and energy efficient

The small, low-energy sound meters are self-sufficient, suitable for solar energy and communicate wirelessly with the INSIGHTNOW™ cloud platform.

The approved devices (class 1 and 2) are quick to install, optimised for long-term use and constant available.

Automatic source detection and classification

Munisense supports multiple automated methods to identify the source and to classify the measurement data. Using the 3D sound level meter, that addition to the noise levels also records the direction it came from as an option, or by advanced correlation techniques, that are available in the INSIGHTNOW™ cloud platform.

When exact meteorological data at the measurement location are required, a low-energy weather station can be added. The network also records meteorological data from the main weather stations.

Measuring all locations

Small and energy efficient

Real-time and online

**Source identification
and classification**

Online analysis and reporting

Complete service package

Integration with Geluidsregister++



Online analysis and reporting

By default Leq, Lmax, Lpeak both in dB(A) and dB(C) are measured every second. From this data the other noise parameters are derived in our INSIGHTNOW™ platform. An audio stream and spectral data can be added as an optional extra. In the platform all data gives clear insight tailored to the role and the function of the user. Excesses are detected and notified to the authorized personnel. Measurement data is validated, background noise marked, or automatically filtered, and available for analysis, visualization and reporting.

Complete service package

Munisense can be your one-stop-provider of noise measurement data. Upon determining the measurement positions with our customer, we handle the rest. Even when the location is private property, we will coordinate with the owner and handle the lease and installation of the measurement equipment. Munisense remotely manages the measurement equipment and repairs any faults and arranges yearly equipment calibrations.

Integration with Geluidsregister ++

dBvision's Geuidsregister++ displays the information from noise data in a clear manner. A spreadsheet allows one to make indicative calculations of the noise levels from a track on a plot or at any residence. Munisense supplies the measuring stations through a cooperation with dBvision.

The solution

- One or more rapidly deployable, small noise meters that are self-sufficient, wireless and energy efficient, in accordance with IEC60651 / 802 standard (class 1).
- A gateway connected to the Internet via a wired connection or 4G.
- INSIGHTNOW™ to visualise and analyse the data obtained.

Extra options:

- Fixed weather resistant mast for measuring at a height of 4 to 10 meters.
- Placing a weather station.
- Audio Stream and spectral data.
- Registration of traffic.
- Extra battery for two months continuous measurement

About Munisense

Munisense develops, sells and manages highly innovative real-time and online measurement and control solutions for business and government. Solutions that provide immediate insight in noise, vibrations, water levels, energy use, lighting, water and air quality and that allows effective control over lighting levels, ventilation, and pump activity. Our INSIGHTNOW™ meters are connected to our INSIGHTNOW™ cloud platform where the data is stored in real-time for analysis, visualisation and reporting. The information from the platform can be viewed in a range of specific visualisations any time, any where through a web browser or using our phone or tablet apps. Our applications are developed in close cooperation with universities, governments, partners and customers.

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INSIGHTNOW™