TNM

TRAIN NOISE MONITORING

The Train Noise Monitor (TNM) is a device that utilizes a camera and a high precision microphone, which are mounted on the wayside, to record the sound levels that are associated with the passage of a train. The system can identify high levels of noise, and an image that matches the sound can be used to identify the vehicle causing the noise.

The system uses a non-contact distance sensor to detect the presence of a train, and it can monitor multiple tracks at one location. None of the equipment is installed within three meters of the track center.

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TNM SYSTEM

The TNM system is compatible with KinetiX's wayside database FleetONE™, which provides a comprehensive set of statistics to monitor the performance of train noise control programs and measure noise levels near residential areas.

The system is suitable for both day and night applications, and it is self-contained, utilizing a solar array for power and a 3G connection to transfer data to the FleetONE database.

GENERAL FEATURES

measurement

Web-based database for evaluating train noise levels

Day/Night view

Anti-vandalism mounting

Solar powered

Data is imported into FleetONE

KINETIX
TNM

GENERAL SPECIFICATIONS

Capacity: Train length – unlimited

RF Tags: Suitable for RF tagged vehicles (or virtual tagging reports)

Alarms: User configurable, delivered via SMS, email or message to Central Train Control
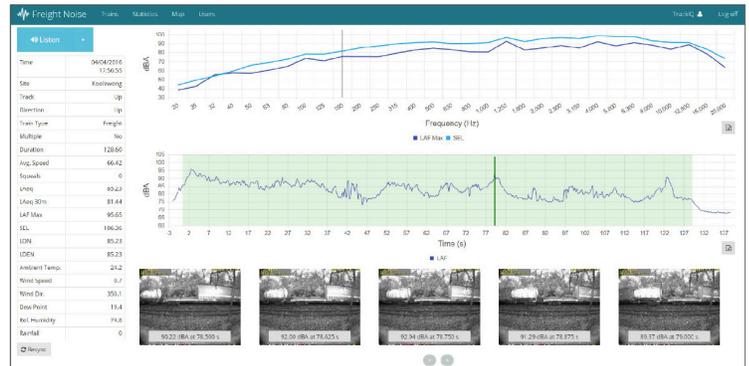
Operating environment: Main Line/ Depot

Fleet: Mixed fleet – heavy haul, inter-modal and passenger

Environment: Rail hardware suitable for arctic, tropical and desert environment

Wayside rack mounted equipment suitable for arctic, tropical and desert environment

Rail hardware IP65 or greater

Database: TNM information presented by the FleetONE database

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