dB NOISE MONITORING SOLUTIONS

Aretas Sensor Networks

HOW IT WORKS

MONITOR
Our monitors gather and transmit data to the communication bridge

GATHER DATA
Data from the communication bridge is sent securely to your private online data center account

ANALYZE & REPORT
Your data is archived, analyzed and reported in many useful ways

24/7 ACCESS
Decision-making is easy from any computer or smart device

SENSOR OPTIONS

CO	Carbon Monoxide
CO2	Carbon Dioxide
DP	Differential Pressure
NO2	Nitrogen Dioxide
PM	Particulate Matter
O3	Ozone
TRH-F	Freezer / Fridge
VOC	Volatile Organic Compounds

More options available

Overview

The Aretas dB noise monitoing system is an easy to install, wireless system that displays data online and sends customizable alerts via text message or email. Secure cloud based data allows decision-makers and maintenance staff to monitor dB levels from anywhere at anytime.

The dB monitor has a detectable frequency range of 50 to 100 dB. Its functionality can be expanded to include sensors such as CO, NO2, O3, and VOC. The dB detector comes standard with Temperature and Relative Humidity sensors offering more in depth data as well potential energy-saving and money-saving opportunities.

Why measure workplace decibel levels?

OSHA requires, "that employees be placed in a hearing conservation program if they are exposed to average noise levels of 85 dB or greater during an 8 hour workday" Measuring noise levels helps identify work locations where there are noise problems, employees who may be affected, and where additional noise measurements need to be made.

- Real-time remote wireless monitoring, 24/7, worldwide.
- Customizable alerts via text message and/or email.
- Access to live and historical data to track trends and make comparisons.
- Ability to add other monitoring systems and/or additional sensors, as needed.
- Simple, sturdy case designed to last.

The graph shows a 24 hour sample of noise in an office environment.

Product Specifications

Wireless dB Monitor Specifications

- Sound Level: 50 to 100 dB
- Sound Frequency: 100Hz to 8kHz
- Sound Resolution: 0.16dB
- Sensitivity: 1.4ms with 30cm seperation
- Accuracy (at 1kHz): ± 3 dB

Electrical Characteristics

Voltage input:

- 6xAA or 5V USB Mini-B

Connectivity:

- Digimesh + P2P 900MHz/868MHz long range
- Zigbee

Sensor polling rate: 2 min

Features

- Battery-powered option with customizable reporting intervals and low power modes that enable long-term battery-powered operation.
- Wireless communication between one or more monitors and the communication bridge or PC-based data collection.
- 24/7 remote monitoring and threshold-based alerting.
- With the optional Internet-based communication bridge, you can access data online from anywhere in the world.
- Data can be exported to geographic information systems or other custom mapping systems.
- Data can also be exported from our large scale data warehouse, via API, to be analyzed by other programs.
- High resistance to radio frequency and electrostatic field noise.

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monitor . analyze . react . live better