Worksite Monitoring - Dust, Noise, Vibration & Gasses

Real-time, continuous environmental monitoring of multiple parameters including dust, noise, vibration and gasses for a wide range of construction, worksite, and industry applications.

Adroit is New Zealand's leading real-time environmental monitoring provider for councils, worksites, construction, civil and heavy industries.

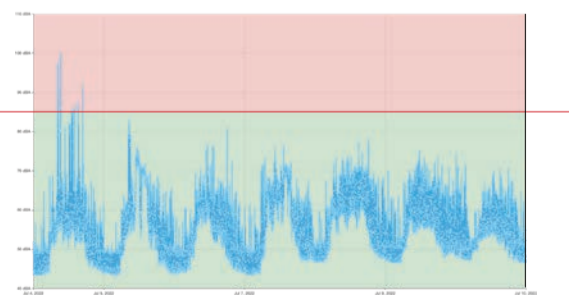**adroit**
Environmental IoT

Worksite Monitoring - Dust, Noise, Vibration and Gasses

Adroit provides complete managed environmental monitoring solutions which include equipment, network connection, cloud platform, training, installation, servicing and support. The ability to continuously monitor environmental parameters in real-time including particle matter (dust), noise, vibration and various air quality parameters such as temp, humidity, pressure and gasses on any type or size of worksite, provides data that can assist in critical decision making and site management. The data can also provide valuable insights to aid compliance and complaint mitigation, and can help ensure the site is a safe and healthy environment for employees and surrounding communities.

Adroit utilises global IoT technology for fixed installation environmental monitoring on any type and size of worksite, including civil and construction, and a wide range of industrial applications.

Environmental worksite monitoring gives your team access to real-time data which can be visualised on the Adroit App, accessible from any connected device

Visualisation of noise data showing Lmax thresholds

Worksite environmental monitoring key benefits

Feature rich app
Customisable thresholds and alerts. Downloadable data and available APIs for integration

Real-time monitoring
Get a clear view of the environmental dust, noise, vibration and gas levels on your worksite

Easy installation
Quick and easy setup on pole mount or existing structures. Relocatable options

Accurate measurements
Highly accurate and factory calibrated sensors measure various worksite parameters that can aid in strategic planning & site management

Health and safety
Ensure a compliant, healthy and safe worksite for employees, communities and environments
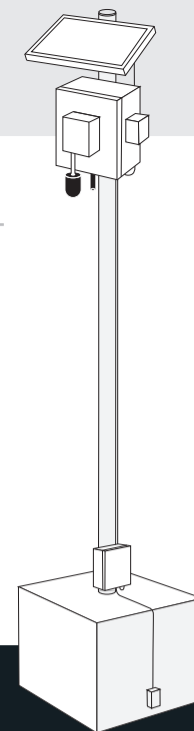
Compliance and complaint mitigation
Historic and real-time data to aid management of compliance and complaint mitigation

Compliance Reporting
Adroit products provide accurate, cost effective, continuous monitoring to assist with health & safety, complaint mitigation and internal compliance management. Sensors are validated to compliance standards, however for some applications are not suitable for statutory compliance reporting. We recommend discussing your reporting requirements with your Adroit sales lead and where appropriate consulting a compliance specialist.

How it works

API's

Notifications

Dashboard

Mobile App

adroit platform

Noise & dust monitoring fixed installation

Dust (µg/m³)

Monitoring dust or particle matter (PM1, 2.5, 10) on worksites helps ensure a safe and healthy environment for employees, adjacent properties and surrounding communities. Alerts when dust thresholds are reached, enables better site management via improved decision making.

Noise (dB)

Worksite noise (dB) can be a constant challenge to site management, particularly when heavy works are scheduled. Alerts when site noise reaches thresholds helps pinpoint activity that needs attention. The real-time data, including historical reporting can also help with compliance and complaint mitigation.

Noise monitoring fixed installation

Vibration (mm/s)

Worksite activity can create vibration that can affect adjacent properties and buildings. Real-time data can enable site managers to have a clearer picture of what vibration is created from various worksite activity. This can help mitigate any possible complaints and damage, and can improve health and safety for site employees.

Gasses

Ability to monitor air quality for gasses, some of which could be noxious, such as CO_2, CO, NO_2, SO_2, S_2 is paramount in ensuring a healthy and safe environment not only for employees, but also surrounding communities.

Making environmental compliance easier for Dempsey Wood

Dempsey Wood worked with Adroit to develop an environmental IoT solution for their worksites and has implemented three installations, all of which are now successfully reporting data and giving the company confidence in its mitigation systems.

"Environmental IoT technology gives Dempsey Wood a good understanding of our site activities from real time data, and this enables us to run a safe and compliant work site for our employees and the wider community."

WALT KERKMEER - PROJECT MANAGER, DEMPSEY WOOD

Build a sustainable future with technology and expertise

Spark IoT is proud to bring the expertise of Adroit to our customers across the public sector, worksites, construction, civil and heavy industries.

Help your business prepare for the future with Spark IoT, contact your Spark Client Lead or iotsales@spark.co.nz to find out more.

Spark nz hello tomorrow **IoT**