

Portable Monitoring Worksite Vibration

PMK

VIBRATION

Real-time, wireless,
portable environmental
monitoring for safe,
compliant worksites

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



Portable Monitoring Kit - Vibration

To help ensure your worksite remains compliant to resource consent standards and to avoid costly downtime, install the Adroit PMK Vibration. The portable unit measures and monitors vibration in real-time, providing site managers with alerts when thresholds have been breached. Site data is visualised easily on the Adroit app, it can aid in complaint mitigation and helps provide a safe and healthy worksite for employees.

The unit is designed and built in New Zealand to the DIN4150 standards. The sensor uses a highly accurate industrial MEMS accelerometer that measures Peak Particle Velocity (mm/s) in 3 directions on the x,y,z axis. The unit is suitable for construction, civil and heavy industry vibration monitoring. The PMK features simple to install sensor plates which allows the sensor to be detached and easily relocated to another site.

The Adroit App - designed for the worksite.



Visualise the vibration level from your site activity on any connected device

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.

Key benefits



Meets DIN4150 standard for resource consent compliance and complaint mitigation

Historic and real-time data to aid management of compliance and complaint mitigation



Portable

Quick and easy set-up. Rugged case for transportation. Quick release plate for easy relocation



Real-time monitoring

Get a clear view of the environmental vibration levels from your site activity



Feature rich app

Customisable thresholds and alerts. Downloadable data and APIs available for integration



Accurate measurements

Highly accurate MEMS accelerometer measures peak particle velocity (mm/s) in 3 directions



Health and safety

Ensure a compliant, healthy and safe worksite for employees, communities and environments

How it works



Portable vibration monitoring features

- Built to the DIN4150 vibration standard
- Frequency range: 1 to 250 Hz at a Resolution 0.05 mm/s
- Measures peak particle velocity (mm/s) in X Y Z axis
- Historic, Residential & Commercial settings
- Battery life up to 1 working week* from fully charged or mains powered
- Rugged casing IP67 waterproof. (414 x 345 x 129 mm, weight 5.4kg)
- Sensor measures vibration continuously and transmits data to Cloud every 15 minutes
- Automatic wireless connection via the Spark Cat-M1 network

*Battery life based on a 50hr standard work week



How it works

- The vibration sensor continuously scans vibration activity across the X Y Z axis.
- Every minute, the sensor outputs the highest peak particle velocity (mm/s) detected for each axis relative to its DIN limits for the last minute, and the frequency at which the peak value was detected.
- All readings are then uploaded to the Adroit Platform every 5 minutes

Building types

- Historic** (3mm/s)
- Residential** (5mm/s)
- Commercial** (20mm/s)

Mounting options

- Concrete slab**
- Deadmans block**
- Ground screw**

Portable vibration monitoring pricing

Pricing excludes GST

Monitoring solutions	Equipment & installation	Monthly plan
PMK - Vibration	\$8,995	\$80

Equipment payment terms of 1, 2, 3 and 4 years available for monthly billing on your Spark account.

1 year \$710 p/m	2 year \$375 p/m	3 year \$265 p/m	4 year \$215 p/m
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Optional PMK Wall/Post Mounting Bracket sold separately \$199 +gst



Adroit standard pricing includes upfront equipment and installation and a monthly plan. Adroit configures, installs and supports your environmental monitoring solution to meet your requirements. Adroit provides equipment servicing at locations nationwide. Client self-servicing option available with tools and training provided. Equipment warranty 12 / 24 months as per manufacturer.

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.

