

Vibration & Noise Monitoring

Typical applications include:

- Plant Emission Monitoring
- Equipment Emission Monitoring
- Human Vibration Dose Monitoring
- Asset Monitoring
- Pipework Pulsation Monitoring
- Component Acceleration Monitoring

Commonly used instrumentation detailed below:

- Vibration Meter
- Accelerometer
- Noise Meter





Vibration Meter

Variables measured
Range

Sensitivity

System operation

Data access

Reading frequency

Peak particle velocity (mms^{-1})

Measurement 0.0005ms^{-2} to 50ms^{-2} (acceleration dependant)

1 V/g

Automated

Remotely or on site

0.5Hz to 20kHz

Additional Information:

- Suited for use on short to long term projects.
- Accurate & rugged monitoring equipment.
- Ideal for construction monitoring.
- Highly sensitive tri-axial accelerometer.
- Real-time 1/3 & 1/1 octave analysis.
- Real-time data filtering.
- Real-time trigger alert system.



Accelerometer

Variables measured	Acceleration (g) & peak particle velocity (mms^{-1})
Range	Measurement $\pm 10\text{g}$
Non linearity	$\pm 0.2\%$
Sensitivity	200mV/g
System operation	Automated
Data access	Remotely or on site
Reading frequency	0-500Hz

Additional Information:

- Suited for use on short to long term projects.
- Accurate & rugged monitoring equipment.
- Ideal for high frequency dynamic monitoring of components / plant.



Noise Meter

Variables measured	Noise (dB)
Range	Measurement 17dB to 140dB
Resolution	0.1dB
System operation	Automated
Data access	Remotely or on site
Reading frequency	0.5Hz to 20kHz

Additional Information:

- Suited for use on short to long term projects.
- Accurate & rugged monitoring equipment.
- Ideal for monitoring noise prior to and during construction phase.
- Highly sensitive noise monitoring equipment.
- Numerous statistic profiles measured (i.e. Leq, LMax, LMin, LPeak etc.).
- Real-time data filtering.
- Real-time trigger alert system.