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

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Vibration Meter

Variables measured: Peak particle velocity (mms$^{-1}$)
Range: Measurement 0.0005ms$^{-2}$ to 50ms$^{-2}$ (acceleration dependant)
Sensitivity: 1 V/g
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 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 ±10g

Non linearity
- ±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.