

Types of Noise Measurements and Sound Monitoring Applications

Measurement of sound or unwanted sound (noise) encompasses a very broad range of decibel levels and many diverse applications - ranging from the study of extremely quiet sounds levels emanating from animals in their natural habitat - or monitoring the quietude of our most remote national parks - up to extremely loud and noisy events such as the launching of a rocket or the din produced by guns discharging on a firing range. The noise monitoring process itself may be a simple instantaneous 'grab sample' of the noise level coming from a known source like a stamping press or a vehicle with a faulty muffler, or it may be an unattended monitoring station that is set up to perform continuous monitoring around the clock for weeks at a time. While there are many diverse sampling methodologies, measurement parameters and acoustic phenomena to be quantified, the Casella CEL product range can be easily tailored to meet any of the following application categories and their subsets:



Occupational Noise

- Industrial Hygiene Exposure Monitoring
- Regulatory Compliance
- Risk Assessment
- Engineering Noise Controls
- Hearing Conservation
- Hearing Protection Device Selection

Environmental (Ambient) Noise

- Planning and Environmental Impact Studies
- Site Development
- Wind Turbine Noise
- Transportation Noise
- Aircraft Noise
- Railroads and Mass Transit
- Highway Noise Studies
- Vehicle Noise

Community Noise Code Enforcement

- Nuisance Noise Complaints
- Performance Venues / Sporting Events
- Boom Cars
- Construction Site Noise
- Landscaping Noise
- Drilling and Blasting Noise
- Noisy Neighbours in Apartments and Condos

Product Noise

- Product Design and Development /Sound Quality
- Product Safety Ratings / CE Marking