

# EMU HEARS NOISE AND FEELS VIBRATION

Assess nuisance, evaluate structural impact and capture ambient vibration monitoring with our innovative Environmental Monitoring Unit - EMU.

From airports to construction, mining and ports, the EMU is built to provide you with a continuous monitoring solution that captures noise, weather, ground vibration and blast overpressure measurements - all in single unit.

## Solution

The EMU offers permanent and portable monitoring of industrial activities that require unattended outdoor measurement for uses such as:

- Ensuring compliance with noise and vibration legislation in the outdoor environment
- Assessment of background levels
- Combined vibration and blast overpressure monitoring in mining and demolition
- Protecting against structural damage during construction activities
- Ambient vibration monitoring around sensitive imaging equipment at hospitals or manufacturing



## EMS Bruel & Kjaer

Melbourne · Level 12, 432 St Kilda Road · Melbourne · Victoria · Australia · Tel: +61 3 9508 4900 · [emsbk.com](http://emsbk.com) · [info@emsbk.com](mailto:info@emsbk.com)  
 Sacramento · 2330 East Bidwell, Suite 210 · Folsom · CA 95630 · USA · Tel: +1 916 265 7700  
 Denmark · Skodsborgvej 307 · DK-2850 · Nærum · Denmark · Tel: +45 7741 2000  
 Taiwan · 13FL-1, #128, sec.3 · Min Shen E. Road · Taipei · Taiwan · Tel: +886 2 25462988  
 Madrid · C/ Teide 5 · 28703 San Sebastián de los Reyes · Spain · Tel: +34 91 659 08 20



EMU includes simultaneous weather, vibration, Class 1 noise, and blast - all in one.

Key features include:

### Easy to operate and cost-effective

- Noise, weather, vibration and blast overpressure in a single outdoor unit delivers ease of use and cost savings
- Fully integrated solution combining measurement, remote communication, system monitoring and power supply, meaning procurement, setup, operation and maintenance is simpler
- Continuous uninterrupted measurement with self-monitoring and auto-restart capabilities for increased uptime and minimal gaps in data

### Highest Quality

Precision measurement covering wide range of noise and vibration measurement standards

- Robust, IP67 chassis, for use in the harshest conditions reduces the risk of damage or unit failure
- Noise: IEC 61672 Class 1 specifications; uniquely, including windscreen effects
- Vibration: high sensitivity (VC-E) with standard transducer

### Standalone or combined with Sentinel or ANOMS managed service

- For standalone use, the EMU has a built-in web server which can be accessed via Wi-Fi from a laptop or smart device
- The EMU is specifically designed to work seamlessly with EMS Brüel & Kjær’s Sentinel and ANOMS managed services
- Simply switch the unit on and it automatically connects, configures itself and starts delivering data as part of a multi-unit system

Widely applicable in industries such as:

#### Airports

Noise concerns are often a big obstacle to airport growth, but annoyance is about more than just exposure. By using the EMU, airports support their noise action plan with accurate, unimpeachable data.

#### Mining and construction

The simple-to-use device can protect against structural damage from construction and mining operations. It automatically delivers alerts via email or SMS to avoid breaching set limits; enables remote data transmission to reduce site visits; and provides data to show regulatory compliance and consideration of neighbour comfort.



*EMU set-up on site with Microphone and Weather Sensor*



#### Hospitals

The unit monitors and sends alerts regarding ambient vibration levels close to sensitive hospital imaging equipment, semiconductor manufacturing plants, historical buildings and museums.

Not to forget about ports, power generation and the oil and gas industry.

As with all EMS Brüel & Kjaer solutions, the EMU is built to last. The unit is robust and built to withstand the harshest conditions to ensure it is operational and measuring accurately – no matter the environment.

The EMU’s superior build ensures that it continues to meet requirements after it has been deployed in the field, meaning you can rest assured that it will continue to perform – year on year.

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