NoiseMeters

Guardian Environmental Monitor - Noise, Dust, Vibration



Features

- Noise Sound Level, Class 1
- Dust Particulate PM10, PM2.5, PM1.0
- Vibration PPV, triaxial geophone
- Web hosted reporting
- Easy self-install
- Connection via mobile network (supplied configured and running)

Applications

- Construction Sites & Demolition Sites
- Boundary Monitoring
- Roadside Traffic Monitoring
- City Environment Monitoring
- Compliance Monitoring
- Planning Guidance

Overview

The Guardian is a multi-agent environmental monitor with options for noise, particulate (dust) and ground vibration monitoring. The monitor automatically uploads all measurements via the cell network to the cloud. Reports are accessed using a web browser and alerts can be sent by email or text message.

Sensors - Noise, Dust, Vibration

The **Guardian** can be fitted with any combination of the three main sensor types: noise, dust or vibration. It can also be fitted with wind speed and direction sensors, which are of particular interest when measuring dust or noise.

You choose which sensors you need and the unit is delivered fully assembled - it just needs power.

See the **Sensors** tab above for more information.

Mobile Connection

The measurements are uploaded to the web servers over a standard mobile connection.

An eSIM, which is an electronic version of the old SIM chip, is fitted so you don't even have to sort out a phone contract. The **Guardian** will connect to the strongest signal from a selection of networks.

Browser Based Reporting

The monitors automatically send the measurements to a cloud server, where they are kept for long-term storage and reporting.

Users simply log in to a web site to view the results, produce reports and set up alerts.

Reports can be exported or emailed for local or other off-cloud storage.



NoiseMeters

Guardian Environmental Monitor - Noise, Dust, Vibration

Specifications

Technical Specifications

The exact specifications for the Guardian Environmental Monitor depend on the options that are fitted. These options, or sensors, include noise (sound level), dust (particulate, PM10, PM2.5, PM1.0) and ground vibration.

General Specifications

Enclosure	IP65	
Protection		
Operating	<5% to 100%	
Humidity		
Logger	Built in. Transmission by	
	GPRS	
Power	100 to 250 VAC	
Mounting	Wall or 50 mm Pole Mounting	
Dimensions	400 x 300 x 150 mm	
Weight	< 13 kg	
Noise Measurement		

Noise Measurement

Standards	IEC 61672-1 Class 1, ANSI
	S1.4 Type 1
Parameters	LAeq, LAmax, LA10, LA90
Measurement	20 to 140 dB RMS
Range	
Calibration	Use CEL120/1 Acoustic
	Calibrator
Particulate	

Particulate

Sensitivity	1 µg/m3
Zero Stability	±2 µg/m3
Size Fractions	Simultaneous PM10, PM2.5 and PM1.0
Inlet	Heated to reduce moisture

Head Office

NoiseMeters Ltd 7 Javes Park Ockley Surrey RH5 5RR

Telephone +44 130 677 0855 Fax +44 845 680 0316

Email: info@noisemeters.com Support: support@noisemeters.com

Vibration

Transducer	Geophone	
Туре		
Number of	3-axis	
Channels		
Frequency	2 to 250 Hz	
Range		
Measurement	±200 mm/s	
Range		
Resolution	0.01 mm/s	
Environmental	IP65	
Rating		
Wind Speed and	d Direction	
Wind Speed		
Range	0 to 60 m/s	
Accuracy	±2%	

Accuracy Resolution Threshold

:Z% 0.01 m/s 0.01 m/s

Wind Direction

Range Accuracy Resolution

0 to 359° (no deadband) ±3% 0.1°

Web Sites

Main site: https://au.noisemeters.com

Product shortcut: https://au.noisemeters.com/p/celg-n/

Tech Support: https://support.noisemeters.com