



Casella BOUNDARY Guardian



Ensure compliance and an impressive ROI, through remote monitoring of noise, dust and vibration.

BOUNDARY Guardian is a web-based remote monitoring system for noise, dust and vibration emissions from construction, demolition or process sites to ensure compliance with regulatory limits. Savings on consultancy fees mean an easily demonstratable return on investment with payback typically less than 6 months.

Applications

- Demolition phase monitoring
- Construction sites
- Roadside / traffic monitoring
- Waste transfer stations
- General compliance monitoring
- Site monitoring strategies
- Planning guidance monitoring
- Section 61 compliance (UK)
- PPG24 compliance (UK)

Key features

- Real time dust (PM10, PM2.5 or TSP) and noise levels (LAeq, LAFmx)
- IEC61672-1 Compliant Sound Level Meter
- Heated inlet to reduce moisture interference
- Vibration level (peak particle velocity)
- Maintenance free wind speed and direction sensor (optional)
- Noise percentile readings (e.g. L90)
- Email and text alarms for exceeded noise, dust and vibration levels
- Web hosted data with a secure private login
- Noise or dust only versions available



The only on-site and boundary monitor you will ever need

Casella BOUNDARY Guardian for boundary and site monitoring applications provides simultaneous, remote monitoring of noise, dust and vibration, wind speed and direction.

Local alarms and email can be transmitted to site managers if limits are exceeded.

The first simultaneous multi parameter monitor for noise, dust and vibration manufactured in the UK from a single manufacturer.

The system can be purchased with any combination of noise, dust, vibration and wind speed and direction to meet your site's requirements.

Environmental noise, dust and vibration compliance made easy

Data Anytime and Anywhere

- Access your data via any web browser
- Receive real-time e-mail alerts
- Extract data and produce reports easily

The data is transferred via GPRS to a dedicated, secure, website www.dataview247.com. This can be viewed in any web browser, via private login, showing real-time and historical data and in addition real-time alarms can be set up via email.

Reports can be easily created for multiple parameters: Noise: LAeq, LA_{max}, LA₁₀, LA₉₀, PM₁₀, PM_{2.5} levels. Vibration: Maximum vector sum (5 minute period) TSP as well as wind speed and direction; all over selectable time periods.

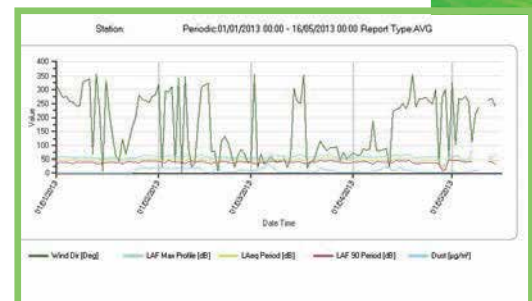


Simple menu structure

Altin Lleshi, Safety, Health & Environment Advisor with Keltbray, explains: "We were working on a project at Mitre House in the City of London in close proximity to a private educational institution, where the dust and noise associated with the deconstruction work we were carrying out had to be carefully managed."



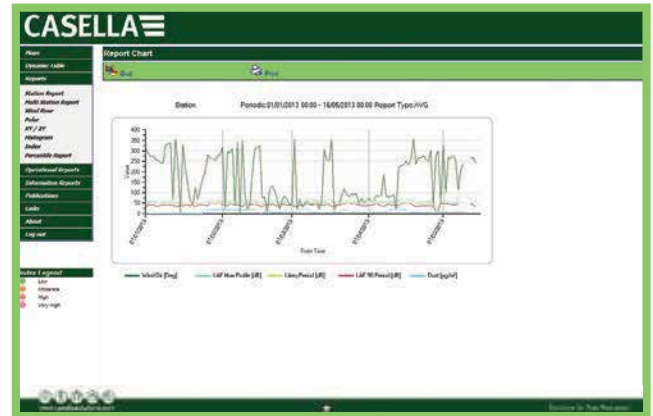
Construction monitoring





Demolition monitoring

*"What's more", Altin concludes:
"The Local Authority
Environmental Health Officer
welcomed the use of the
BOUNDARY Guardian because
the versatility of the monitor
helped us to achieve full
environmental compliance."*



Access and analyse your data via our dedicated website
www.dataview247.com



Waste management

DATE TIME	LAP Max Period	LAP Min Period	LAP 10 Period	LAP 15 Period	Wind Speed	Wind Dir
01/01/2013 00:00	70.46	45.53	48.50	30.58	1.7	0.0
01/01/2013 01:00	62.06	49.88	50.75	35.58	2.1	0.0
01/01/2013 02:00	58.60	45.23	49.00	33.00	2.2	0.0
01/01/2013 03:00	66.38	42.33	46.41	30.33	1.9	0.0
01/01/2013 04:00	63.02	41.72	45.63	29.13	2.0	0.0

Easy to print, export and report data



Roadside monitoring



Produce Graphical or text reports

He continues: "This required real time 24-hour monitoring. We chose the Casella BOUNDARY Guardian because it has some new features such as local alarms and emails that inform us when dust or noise limits are exceeded, plus a dedicated website for viewing real time and historical data from the unit."

Specification:

Noise:

Accuracy: Class 1 to IEC61672-1
 Parameters: LAeq, LAmax, LA10%, LA90%
 Measurement range: 20-140dB RMS
 Calibration: Via provided acoustic CEL-120/1 calibrator (supplied)

Particulate:

Sensitivity: 1ug/m³
 Zero stability: +/-2ug/m³
 Size Fractions: Selectable TSP, PM10 or PM2.5
 Inlet: Heated to reduce moisture affecting measurements
 Calibration: Insert provided for onsite calibration.

Vibration:

Transducer type: Geophone
 Number of channels: 3-axis
 Frequency range: 2-250 Hz
 Measurement Range: +/- 200 mm/s
 Resolution: 0.01 mm/s
 Environmental rating: IP65

Wind Speed and Direction Sensor:

Wind Speed: 0-60m/s
 Accuracy: +/-2%
 Resolution: 0.01m/s
 Threshold: 0.01m/s
Wind Direction: 0-359° (No Deadband)
 Accuracy: +/-3%
 Resolution: 0.1 degrees

General:

Enclosure Protection: IP65
 Operating Humidity: <5% to 100%
 Logger: Inbuilt logger data transmission via GPRS
 Power: 220-240VAC or 110V (optional)
 Mounting: Wall or pole mounted (50mm pole).
 Dimensions: 600mm x 400mm x 230mm
 Weight: Approx. 23kg

Ordering Information:

208110D BOUNDARY GUARDIAN - NOISE & TOTAL DUST
 208111D BOUNDARY GUARDIAN - NOISE & DUST (PM10 OR PM2.5)
 208112D BOUNDARY GUARDIAN - NOISE, VIBRATION, DUST (PM10 OR PM2.5)
 208160D BOUNDARY GUARDIAN - NOISE & TOTAL DUST PLUS WS&D
 208161D BOUNDARY GUARDIAN - NOISE, DUST (PM10 OR PM2.5) PLUS WS&D
 208162D BOUNDARY GUARDIAN - NOISE, VIBRATION, DUST (PM10 OR PM2.5) PLUS WS&D

 208120D NOISE GUARDIAN
 208140D NOISE GUARDIAN PLUS WS&D
 208121D NOISE & VIBRATION GUARDIAN
 208142D NOISE & VIBRATION GUARDIAN PLUS WS&D

 208130D DUST GUARDIAN (TOTAL DUST)
 208131D DUST GUARDIAN (PM10 OR PM2.5)
 208150D DUST GUARDIAN (TOTAL DUST) PLUS WS&D
 208151D DUST GUARDIAN (PM10 OR PM2.5) PLUS WS&D

 208132D DUST (PM10 OR PM2.5) & VIBRATION GUARDIAN
 208152D DUST (PM10 OR PM2.5) & VIBRATION GUARDIAN PLUS WS&D

Communications:

DATA: Access to dataview247.com is provided via secure login (GPRS requires a fixed IP SIM Card) Each Guardian system requires a minimum of one 'data' communications order, see below.

DATA COMMS1	Guardian O2 UK Data
DATA COMMS2	Guardian O2 UK SMS
DATA COMMS3	Guardian Vodafone Global Data
DATA COMMS7	Guardian Vodafone UK Data
DATA COMMS8	Guardian Vodafone UK SMS

Option:

208004A Guardian 110V Upgrade

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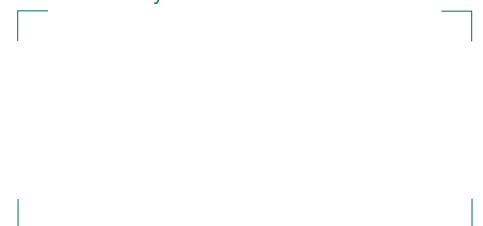
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