

APPENDIX K

ENVIRONMENTAL MONITORING SPECIFICATIONS



Riverside Environmental Services Ltd
Unit 12 : Whiffens Farm : Clement Street :
Hextable : Kent : BR8 7PQ

Telephone:
0870 950 0161

Fax:
0870 950 0162

Email:
info@riversideenvironmental.co.uk

Website:
www.riversideenvironmental.co.uk

Company Registration No. 4620034

Dust monitoring:

Direct reading airborne particle monitors, Osiris is a general purpose instrument which can be used as a portable instrument or deployed in a semi-permanent installation. Fitted into a Lamp Post Box, Osiris can be quickly deployed to study short or long term pollution hotspots in towns and cities and exceedance areas rapidly determined.

Osiris will continuously indicate the concentration of TSP, PM10, PM2.5 and PM1 particles with a resolution of 0.1 micrograms per cubic metre. In its workplace mode, it will indicate inhalable, thoracic and respirable concentrations. Osiris has achieved the Environment Agency's MCERTS certification, ensuring its accuracy in recording data.

An internet-based server is available for Osiris, providing a web interface, camera capability and internet communication and provide text and email alerts. The unit can be powered by battery for short term monitoring 2-3 days and 110v electrical connection for continuous long term monitoring.

Noise monitoring:

Our sound level meters offer outdoor microphone outdoor protection so IEC 61672: Class 1 performance is assured (and had been independently type tested). Our web server provides the means of seeing live data from the instrument and controlling it via a user-friendly web interface and is user configurable.

Some of the main features of system are:

- Live Data direct to a secure website via LAN or 3G connection - see it on your computer, your phone or your tablet
- Fully EC 61672 Class 1 compliant system including the Double Skinned Windshield this system incorporates.
- User Friendly Instrumentation □ User Friendly Web Interface
- User Settable Alarm Levels - up to 5 simultaneous limits, up to 24 x 1 hour periods in a day and different limits on different days if necessary.
- Alarm e-mails & SMS when limits are exceeded
- Amber alerts when Leq limits are in danger of being exceed

- Audio clips recorded when limits exceeded (audio enabled monitors only)
- Live audio streaming (audio enabled monitors only)
- Unrivalled Data Security - Your data is on the SD card in the instrument and at a UK-based data centre on a dedicated Raid 10 Server with nightly off-site backup.
- See Your Monitoring Locations on Google Maps
- Icons Indicate whether Limits Are Being Exceeded, Have Been Exceeded or are In Danger of Being Exceeded
- Real-time comparison with Leq limits using cumulative Leq and Effective Remaining Noise Level
- Live feed showing system health (memory capacity, power and connection)
- Community Engagement - You can give viewers controlled access to data for selected measurement positions
- Rapid download of data as a CSV file directly from the Web Interface

Vibration monitoring:

Which complies with the requirements of DIN 45669:2010. Our system provides the means of seeing live data from the instrument via a user-friendly web interface and is highly user configurable. You, as a vibration professional, are in control. Some of the main features are:

- Live Data direct to a secure website via LAN or 3G connection - see it on your computer, your phone or your tablet
- DIN45669:2010 Compliant
- BS 7385-2:1993 Frequency Dependent Cosmetic Damage PPV Limits & Displacement
- BS 5228-2:2009 "Perception" and "Complaint" Limits.
- User Selectable Broadband and Frequency Dependent PPV Limits
- User Friendly Web Interface with containing graphical display of PPV vs. Time, PPV vs. Frequency and the option to show Displacement vs. Time when the Dominant Frequency is 4Hz or below.
- Up to 24 x 1hr periods can be configured per day, each with multiple limits
- Different Limits and Periods Can Be applied to each day of the week
- Alarm e-mails when limits are exceeded
- User Selectable RED and AMBER limits
- Unrivalled Data Security – Data is stored at a UK-based data centre on the dedicated server with nightly offsite backup
- Monitoring Locations Shown on Google Maps – sitewide overview of exceedances and system health.
- Icons Indicate limit state - whether Limits Are Being Exceeded, Have Been Exceeded or are In Danger of Being Exceeded.
- Community Engagement – controlled stakeholder access to current and historic data for selected measurement positions
- Rapid download of data as a CSV file directly from the web interface
- Mains or Battery Powered – 50+ days Battery Life whilst uploading data directly to the website every 5 minutes as standard with other battery & solar options available