



CitySurveys

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MONITORING SERVICES DATA SHEET



Our monitoring services are guaranteed to provide not only peace of mind, convenience and significant cost savings but also a valuable tool during the construction process.

Quite simply, we can help you to predict certain problems, preventing situations from becoming critical and reducing time, costs and risk in the process. City Surveys provide monitoring services to engineering firms throughout the UK, clients that range

from BAM Nuttall, Colas and Morgan Est to Stobart Rail, Bureau Veritas and The Ministry of Defence.

If you find any of our services particularly interesting or would like a no obligation quote, please don't hesitate to call a member of our team on **0151 726 8334**.

Alternatively, for information about our range of other engineering services, why not visit our website at www.citysurveysltd.co.uk

OUR UNIQUE ONLINE PORTAL – MAKING YOUR DATA EASY TO UNDERSTAND

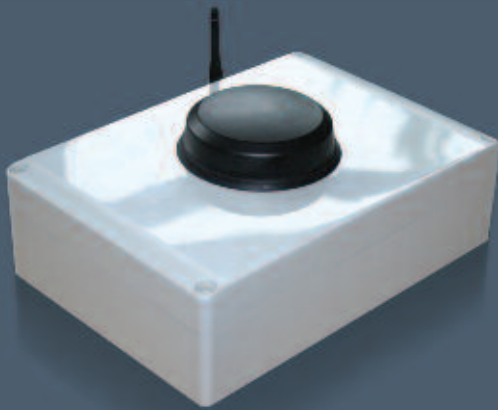
City Surveys has invested significant amounts of time and money into developing our own bespoke monitoring software that is included as part of all pressure, tilt and vibration monitoring projects. This enables us, our clients and their clients to view real-time data received directly from their sites without leaving their desk. Unique to the market place, this user-friendly customer interface is so simple to use that our clients are regularly up and running within 30 minutes of receiving their login details.

Simply choose the site you wish to view and be immediately presented with a live 'traffic light' view of your site. This screen delivers an instant overview of your site informing you of any areas of approaching or critical concern. At a glance you are given the current reading and alert status of each sensor as well as the temperature of the site at that moment.

Data for each site and individual sensor can also be viewed both historically and in real-time by simply changing the time/date range within the portal. The data within your chosen range (stretching from the last 10 minutes to the entire project) can be displayed both graphically and in tabular form. Furthermore, data from any range can be printed off or downloaded as a universally compatible CSV file which can then be manipulated by all major spreadsheets and data-handling packages.



ULTIMATE CONTROL AND FLEXIBILITY – THE ADVANTAGES OF GPRS/WIRELESS TECHNOLOGY



Our custom-made, industrial GPRS base stations are flexible and robust units and, in conjunction with our bespoke software, can be used to configure all sensors within their range. This advanced unit can listen to all related sensors and transmit data packages to a wide range of devices, thereby making control and group measurement very simple.

What's more, our various wireless sensor packages have countless applications across any number of engineering sectors.



REMOTE PRESSURE MONITORING

Whilst having numerous other applications, our completely wireless pressure transducers are most frequently connected to hydraulic props used on deep basement excavations. These sensors emit an analogue signal that is converted to digital via a series of acquisition modules before being automatically transmitted to our secure off-site server.

Should a sensor go 'out of bounds' or show an error, an immediate SMS text alert is sent to a group of designated numbers. Similarly, an email is also sent the instant an alert is reported keeping both our engineers and the client completely informed.



REMOTE TILT MONITORING

Our wireless tiltmeter systems can be used to measure the response of structures to influences such as loading, settlement or subsidence. The accuracy and insight that these techniques provide has proved invaluable to clients needing to monitor large structures such as bridges, dams, tower cranes and party/retaining walls.

This revolutionary technology is constantly being used by City Surveys to great effect, dramatically improving reliability and accuracy of results as well as reducing the cost of structure monitoring for our clients.



REMOTE VIBRATION MONITORING

By integrating industrial-spec vibration sensors into our unique Monitoring Data Portal, City Surveys can assess both vibration frequency and amplitude across a variety of engineering projects. Potential applications range from monitoring the levels of vibration causing discomfort to humans to assessing the effects of demolition upon surrounding structures.

All sensors and equipment are calibrated to BS 6955 and are fully weather-resistant, ensuring a faultless and reliable service for our clients.



TRACK MONITORING

As a Link-up accredited company, City Surveys regularly provide track monitoring services to a diverse range of principle contractors.

Employing fully qualified track engineers (Track Handback, TOS, Stressing-Surveying) and having obtained the relevant Achilles product codes for such activities, we provide track monitoring services and rail personnel to companies such as BAM Nuttall, Colas Rail, Amey Colas, Morgan Est and Stobart Rail.

Our monitoring service includes informed track geometry advice and appropriate action (including imposing speed restrictions) as well as daily geometry reporting. We typically provide this as part of a wider engineering service on a particular project but can deliver it in isolation.



STRUCTURE TARGET MONITORING

Since our inception, City Surveys have been contracted to monitor sheet piles, party walls, bridges, tunnels, motorways, embankments and, among other things, tower cranes and electric pylons.

Using cutting edge techniques and equipment, City Surveys operatives are able to monitor movement in any civil construction situation.