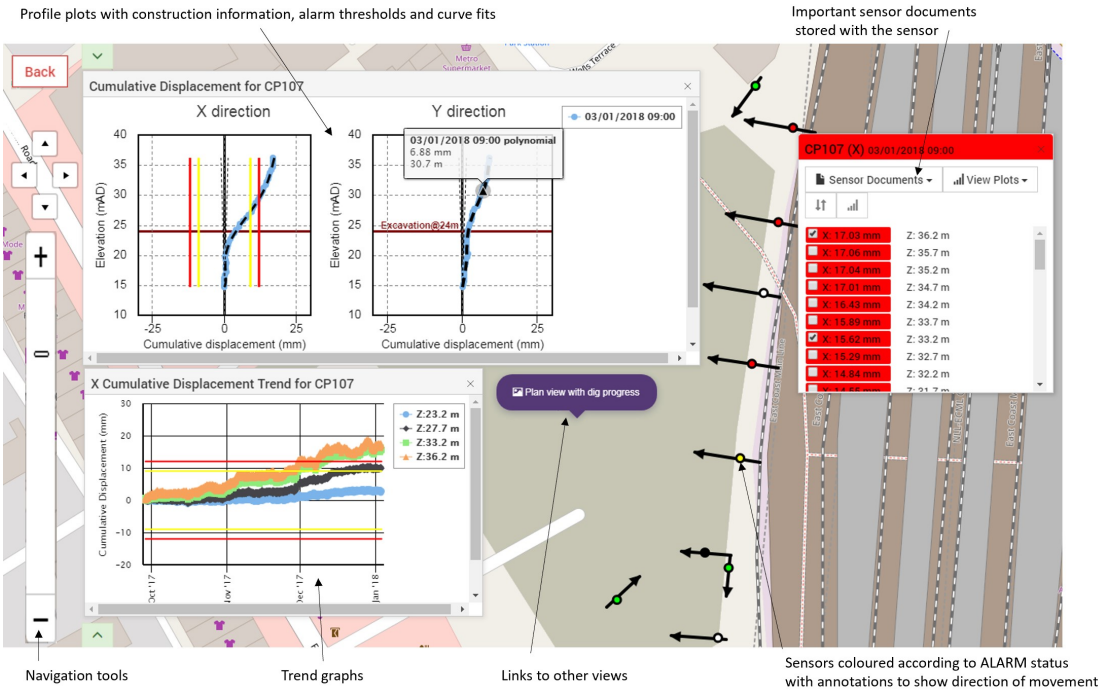
Geodaisy®
Web-based “Real-time” Monitoring Software

Geodaisy® is Geotechnical Observations’ software solution for collecting, presenting, analysing, and interpreting geotechnical monitoring data. It has been designed for engineers and to avoid the need for spreadsheets to undertake independent analysis of monitoring data. Geodaisy® provides you with the ability to create your own graphs and store them in your own space so that they automatically update with new data when it becomes available. Geodaisy® keeps your graphs and real-time data safe in the same place and accessible from any internet connection through your own secure login. Geodaisy® can also be used to store documents and photos so you have a full record of all the relevant project information in one place.

The basic presentation for your monitoring data is through an interactive map or view (e.g. a drawing or a photograph) of your site.



Each instrument is represented by symbol which is clearly coloured according to the ALARM status of the instrument and can have annotations added to indicate the direction of the movement. Hovering over a symbol shows a box with the timestamp of the latest readings that are coloured according the ALARM status at each elevation and from where important sensor documents such as calibration sheets and instrument datasheets can be accessed. Trend plots can be created showing the displacements at chosen elevations. Profile plots can be accessed for cumulative and incremental deviations and displacements. All plots can include ALARM thresholds, construction information and data can be modelled using a range of curve fitting tools. Maps can also include links to other views, discrete graphs, and web pages.

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Trusted Monitoring Solutions

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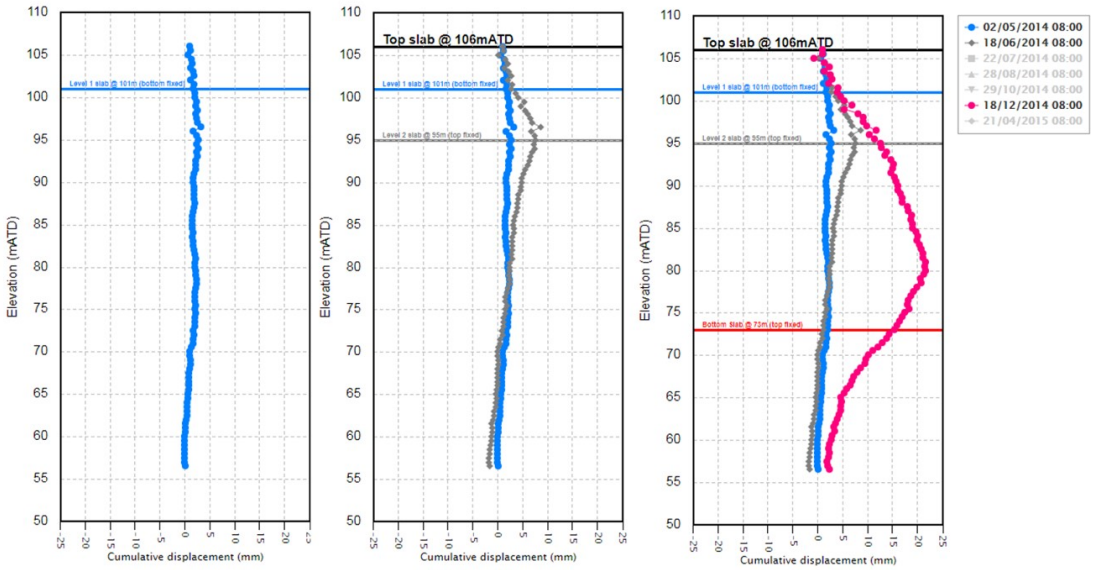
INCLUDE CONSTRUCTION INFORMATION

Construction progress such as the depth of excavation adjacent to a retaining wall can be added and tagged to the displacement profiles. The reference end can be independently set for each displacement profile and linked to survey data where translation is detected.



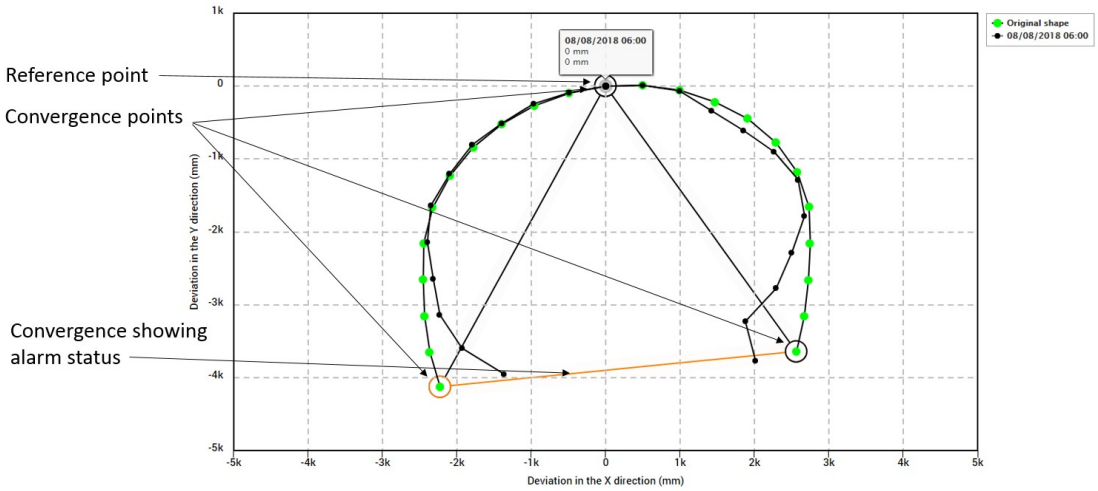
Excavation from the top. Bottom fixed, top free to move.

Top fixed by slab. Bottom free to move as excavation continues.

The graph above shows ShapeArray measurements from a retaining wall where construction started with displacements referenced to the bottom of the instrument and then changed to the top of the instrument when the top slab was added.

CONVERGENCE GRAPHS FOR TUNNELS

For ShapeArrays placed in tunnels the reference point can be independently chosen to suit the mechanism of displacement and any number of points can be selected for the calculation of convergence. Alarms can be raised against a convergence.



INTELLIGENT ALARMING

There is no limit to the number of thresholds that can be defined. The system can issue alarms when a threshold is crossed. It can also issue warnings when the data departs from a threshold after having been at or around a threshold for a while and it can provide estimates of when another threshold is likely to be reached based on a predictive algorithm. Alarms can be issued with tasks to be completed and the system can track the progress of these tasks and continue to issue alarms and warnings until a task has been closed out.