Inclinometer Data Reduction Software

Applications

SiteMaster is powerful software used to process and present inclinometer data. SiteMaster provides…
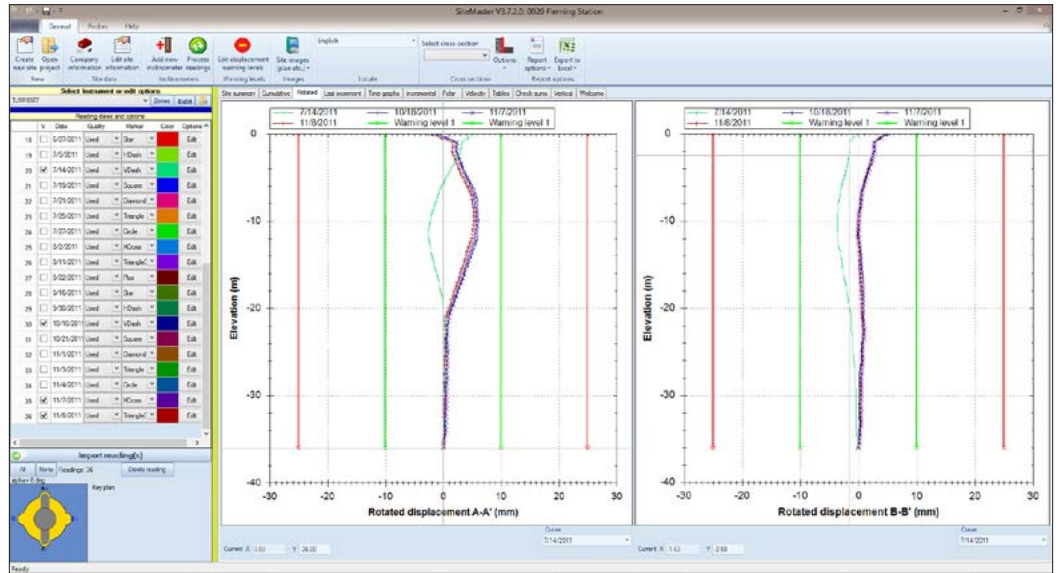
- **Current project status**
- **Customizable graphs**
- **Displacement and velocity warning limits**
- **Inclinometer locations**
- **Construction history data**
- **Flexible data management**

SiteMaster Plus adds the following features:

- **USB Key for use on multiple PC's**
- **Import DXF Site Plan drawings**
- **Interactive time graphs on DXF drawings**

● *Site Plan View screen shot.*

● *SiteMaster graph showing cumulative inclinometer displacements.*

Introduction

SiteMaster is a comprehensive inclinometer software package used for processing and managing inclinometer data, capable of handling all inclinometers within any particular project.

Compatible with any inclinometer that produces a text based data file, SiteMaster provides for automatic data reduction and error correction, and incorporates a variety of graphing, reporting, and presentation features.

In addition to the standard plots, SiteMaster can also generate plan view displacement graphs which can be correlated to construction (excavation) history.

Project site information is stored in easy to modify folders in which all data, site plans, soil profiles, inclinometer surveys etc., can be stored in systematic order, and with corresponding displacement graphs organized in an efficient way. Graphs are logically presented, and a zoom feature allows critical sections to be viewed in expanded fashion.

SiteMaster includes a powerful report function which supports both PDF and MS Word formats.

Operating Principle

SiteMaster allows the user to import data directly from the Inclinometer Field PC Readout and create incremental, cumulative and absolute profiles in graphical format. Data can also be entered by importing files or by manually inputting the data. All functions use a modern interactive interface which allows most operations to be performed using a point and a click.
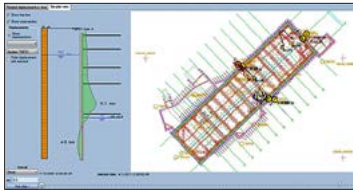
Program Features

SiteMaster includes a suite of many important and useful features; **Site Plan** allows a JPEG or PDF to be entered, scaled and formatted and onto which the displacements from all inclinometers can be plotted (a convenient **Key Plan** function allows for the rapid identification of any inclinometer on the Site Plan).
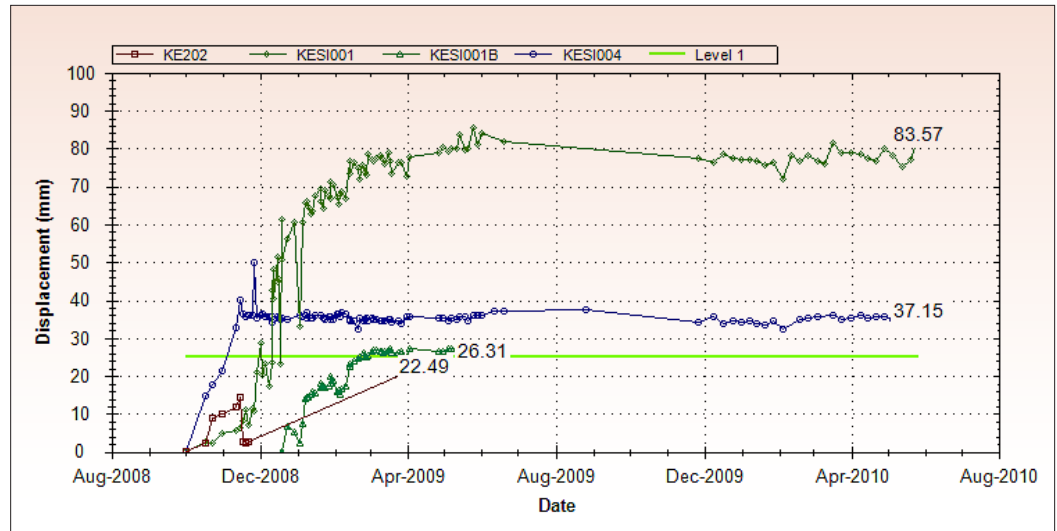
SiteMaster Plus allows DXF drawings to be imported for use with Site Plans and interactive time graphs.

Summary Tables present the current status of all inclinometers at any particular site, and **Construction History** provides for the correlation between inclinometer data vs excavation, water level, installation of tiebacks etc. **Warning Limits** can indicate when preset displacement and velocity limits have been exceeded, using a corresponding limit color.

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● SiteMaster is used to analyze inclinometer data from a 33 m excavation for a subway.

● SiteMaster graph presenting displacement over time.

Program Features (Continued)

Correction Options can be applied by survey or to individual readings and include corrections for Spiral, Bias Shift, Rotation, Probe Constant, Base shift and to transpose points over the depth of the borehole. A Checksum Logic Scanner examines checksums and identifies possible inconsistencies using easy to spot colors.

Customized Graphs permit the generation of time reports at any inclinometer depth, and Units allows the user to choose between Imperial (ft/inches) and metric (m/cm) measures. Date Format is selectable between US, EU, or any other user defined format.

SiteMaster incorporates a Smart Data System, an intelligent and flexible data management platform where critical data is stored in XML files and which can be easily adjusted using Windows Explorer.

SiteMaster Plus is provided on a USB Key, which allows the use of the software on any compatible PC (the USB Key must be plugged into the PC to operate the software).

System Requirements

Operating Systems	**Microsoft® Windows®** 8, 7, Vista, XP Professional
Memory Requirements	512 MB or more (minimum). More RAM will improve application performance.
Hard Disk Requirements	60 MB (minimum)

SiteMaster Software is a product of:

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