

iSS1 PC Application Software



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Features

- Compatible with sensor command protocol, available to flexible setting the parameters of the sensor
- Long-time monitoring, support to up to 24 hours of historical data playback
- Support data export to Excel, TXT, CSV file format
- Support the alarm setting in positive and negative directions at three levels
- Sensor factory recovery available
- Support sensor firmware upgrade
- Support Windows XP/Win7 system or specified with Android platform
- Support users secondary development, provide related API interface



Descriptions

iSS1 PC application software is tailor-made for SST series inclinometer of Vigor, it is not only convenient for users to set inclinometer parameters, but also combined into an efficient online monitoring system with SST series inclinometer, the system is able to achieve a horizontal attitude online monitoring, alarms, data analysis and preservation on industrial site. It is an economical, reliable small tilt measurement system.

iSS1's advanced functions and features are as below:

- √ By virtue of curve trend chart, online display inclinometer posture changes trend, facilitating the analysis inclinometer variation
- √ Able to long-time data acquisition, monitoring, and save
- √ Playback previous 24-hours historical data
- √ Support data export to Excel, TXT, CSV format
- √ Safe and reliable data storage mechanism, ensure that the collected data will not be lost even in the case of a sudden power failure
- √ Support the positive and negative directions, alarm at three levels, to meet different levels of security warning demands
- √ Save data in segments, help to extract and analysis of abnormal data
- √ Compatible inclinometer command protocol, to flexible setting parameters, such as refresh rate, address, gravity, the filter coefficients
- √ Original factory setup recovery available for inclinometer
- √ Support local firmware upgrade
- √ Support secondary development function, provide related API interface

Parameters

Table 1 Parameters

iSS1 PC application software	
Compatible sensors	SST series with RS-232 etc. digital output of SST inclinometer
Secondary development	Provide API SDK, support Labview2010, Vc6.0, c#2008 development
Firmware upgrade	Only support SST300~900 with digital output inclinometer
Operation system	Support Windows XP and Windows7 system
Operating environment	Microsoft .net Framework 2.0 Adobe PDF Reader(the latest version) Microsoft Office 2007
Hardware environment	CPU: Celeron 1.7 or high , memory:512MB Hard disk: minimum 1GB free space,according to the time requirements for data storage, in accordance with a daily 53MB of space increments
Resolution	1024 x 768 or higher

Software menu

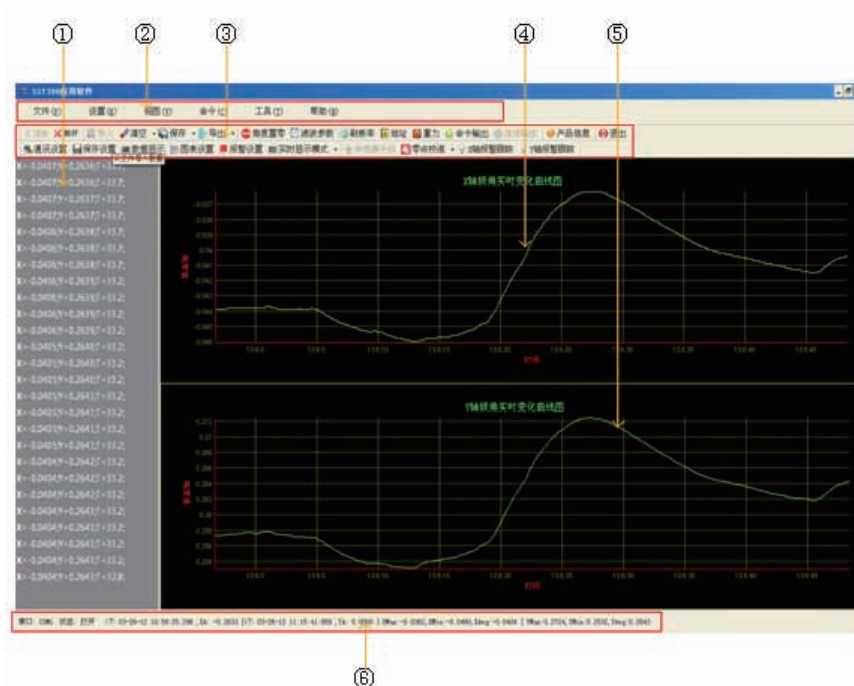


Table 2 Software menu

Marker	Description
1	ASCII display area, online refresh X&Y angle outputs and temperature in ASCII
2	Menu bar, contains commands for connecting sensors, setting parameters, recording data, view/hidden display areas etc. functions
3	Tool bar, contains shortcuts for quick operation
4	Axis for X output 2D curve display
5	Axis for Y output 2D curve display
6	Status bar, display the status of the current connected sensor, curve information etc. parameters

Main Functions

Table 3 Main Functions

Item	Description
Online display	Online angle data display Online dynamic curve display Zoom in & zoom out, for easy data point positioning With maximum, minimum, average values display
Data playback	24 hours saving data playback, maximum, minimum, average values will be displayed when playback
Grading alarms	Three levels of the positive and negative directions alarm service Enable to quickly locate abnormal data by the alarm settings
Data save	Support default and custom data saving modes Detecting abnormal exit, automatically saving data when suddenly power cut off
Parameters setting	Available to flexible setting inclinometer parameters such as refresh rate, address, gravity, filter coefficient
System setting	COM port set: choose COM port, baud rate, etc. Display chart related property settings, such as: background color, curve color, coordinate adaptive coordinate range, the cursor color, etc. Save data setting, such as: the default save path, and whether to adopt the default file name. The data display settings, such as: data display area background color, display width, display font, font size, etc. Alarm parameter settings, able to set the alarm point, three levels of the positive and negative directions
Data analysis	Import up to 24 hours of historical data, quickly locate abnormal data, point to peak values, Over alarm-setting values, viewing historical data of relative sensor information, export the data conversion TXT, CSV and Excel file formats
Bias calibration	Easy to conduct the bias calibration on a leveled surface
Firmware upgrade	Support firmware upgrade via PC