SISGEO

Smart Export

PORTABLE DATALOGGER SOFTWARE

User Manual

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INTRODUCTION

SmartExport program is a conversion software to be used with Sisgeo portable dataloggers (Archimede, Leonardo, newLeonardo, Galileo).

SmartExport has been designed to run under Windows OS associating Sisgeo Datalogger' s readings file and automatically convert them in Microsoft Excel or text file format.

Once installed on a computer, it associates an icon to readings files (.SGR and .SGT files); double click on the icon and the conversion process starts automatically, asking the user to select destination Microsoft Excel file.

Usually Smart Export program is installed with Smart Manager program: see Smart Manager manual for further details

There are two types of readings files:

- .SGT file for inclinometric tube data (from Archimede datalogger);

- .SGR file for all the other instruments readings (from Galileo, Leonardo and newLeonardo dataloggers).

Following you can find all icons and associations.

Icon	Extension	Description
	.SGR / .SGT	Readings of all site instruments SGR file are all readings associated to a site, except inclinometer tube test readings. SGT files are inclinometric tube test reading. Usually they come in form of TTT-NN.SGT where TTT is the name of tube and NN is the test sequence number (01, 02, etc.).
	.SGP	Inclinometric Tube Configuration
	.SGI*	Instruments and Probes Configuration
	.SGW*	Worklist Configuration
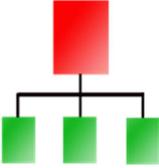
	.SGM*	Multiplexer Configuration(also for chains of digital inclinometers)
	.SGS*	SwitchPanel Configuration
	.DFU*	Firmware
		Program Icon

* only associated if SmartManager program installed (see SmartManager Manual for further details)

This icons associated with files depend on the O.S. It may happen that the icons are different. This is due to the compatibility of these extension files by other installed softwares.

So, if you want to download a reading file (.SGR or .SGT) from the portable datalogger to the PC:

1. establish DL connection to the PC using the USB cable furnished (see DL manual for details),

2. now the DL will be shown as an external drive,

3. double click on the icon and choose the destination for the converted file.

EXPORTED FILE FORMATS

The exported files for readings are in Microsoft Excel format.

The Microsoft Excel file will have one sheet for manual readings and one sheet for each "array of instrument" (Multiplexer, Worklist and Switch Panel).

Each reading (X axis, Y axis, temperature) of each digital inclinometer in a chain is exported like in a Multiplexer sheet.

The instrument's information inserted in a multiple reading device (e.g. Switch Panel, Multiplexer and Worklist) will be displayed only in the instrument's sheet but not in the multiple reading device' sheet.

Similary for the Note inserted in a multiple reading device.

Inclinometer tube test data are exported in different formats, depending on the kind of test:

- Inclinometer test and Spiralometric tests are exported in Sisgeo format to be used by analysis tools ("Incli2"software for example);

- T-REX test are exported in Microsoft Excel format, ready to be processed by analysis tools ("T-REX Analyzer" Software for example).

SYSTEM REQUIREMENTS

Hardware

Description	Minimum	Recommended
Microprocessor	Pentium 1 GHz	Pentium 2 GHz
Memory	512 MB	2 GB
Hard Disk Free Space	50 MB	500 MB
Monitor	800x600 16bit color	1024x768 24bit color
1 Free USB Port		

Software

Description	Supported
Operative System	XP/ Vista x86 x64/ Seven x86 x64
.NET (Included in setup .NET 4.0)	4.0 or newer

CONNECTING PORTABLE DATALOGGER

DL connection is established using an USB cable. Your computer must have a free USB port to connect to DL. From the DL Main menu select " *4-Communication*" and then "*1-USB Disk*". Wait few seconds for the PC to detect the new connected device. Now the DL will be shown as an external USB Storage Disk: all the common file operation can be executed using the default OS tools.

The DL memory is organized as a storage disk. The disk contains folder and files: each folder represent a "SITE" and contains all files related to it. Each kind of file on a DL is identified by an icon and associated to a specific actions.

Also if the memory's maximum capacity is remarkable, DL export and syncronization speed with the PC depend on the inner data quantity.

We advise not to charge exceedingly DL's memory and to use it ONLY to save the DL's files

STARTING PROGRAM

To start the conversion of a data file(*.SGR and *.SGT), which is recognized by its icon, just double click it. SmartExport will ask to choose the folder and the filename for saving the file converted in Microsoft Excel format.

double click on the reading file
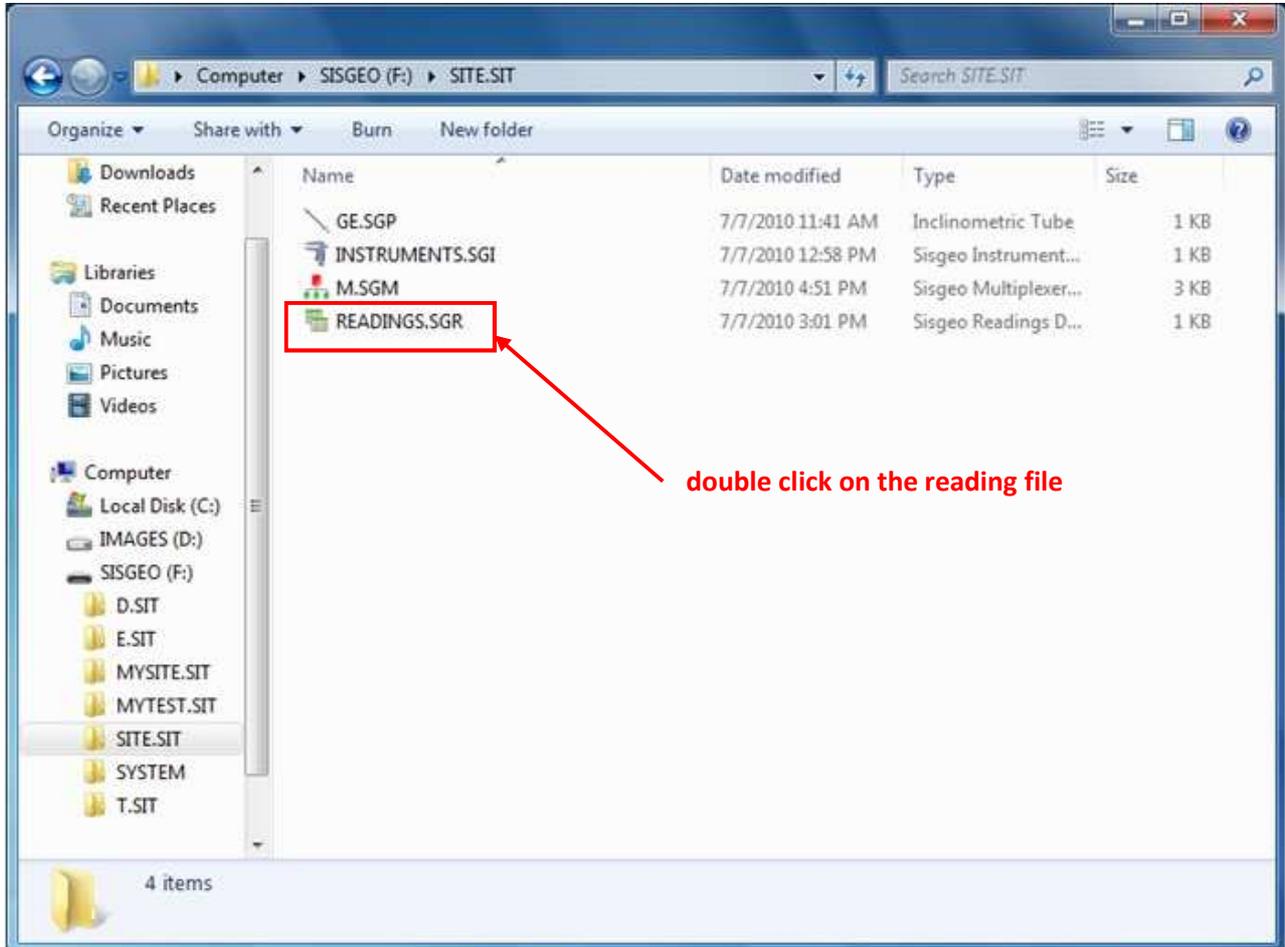
MANUAL START OF THE PROGRAM

SmartExport program can be started manually by selecting *Menu->Programs->Sisgeo->SmartExport* from start Menu. SmartExport will ask for the source file (.SGR or .SGT), and the Microsoft Excel file name for the conversion result.
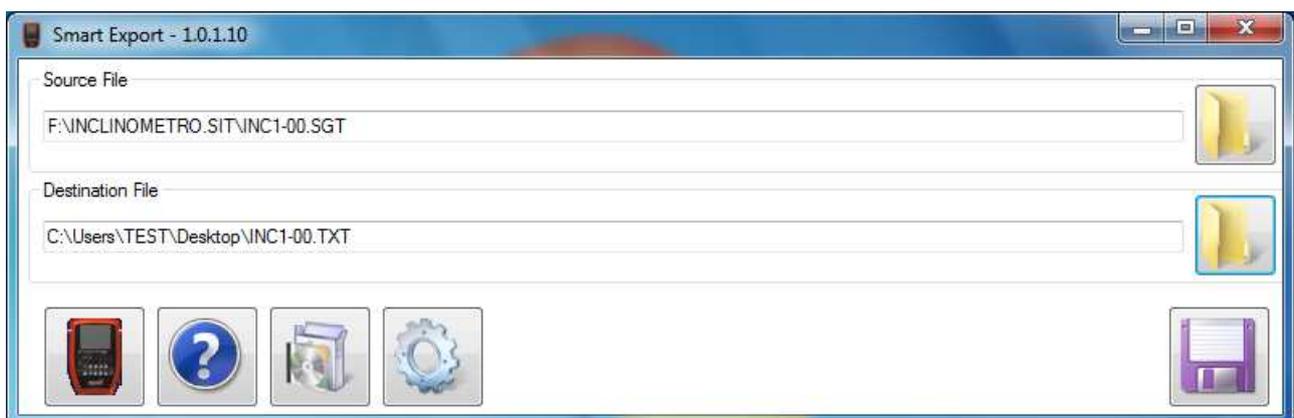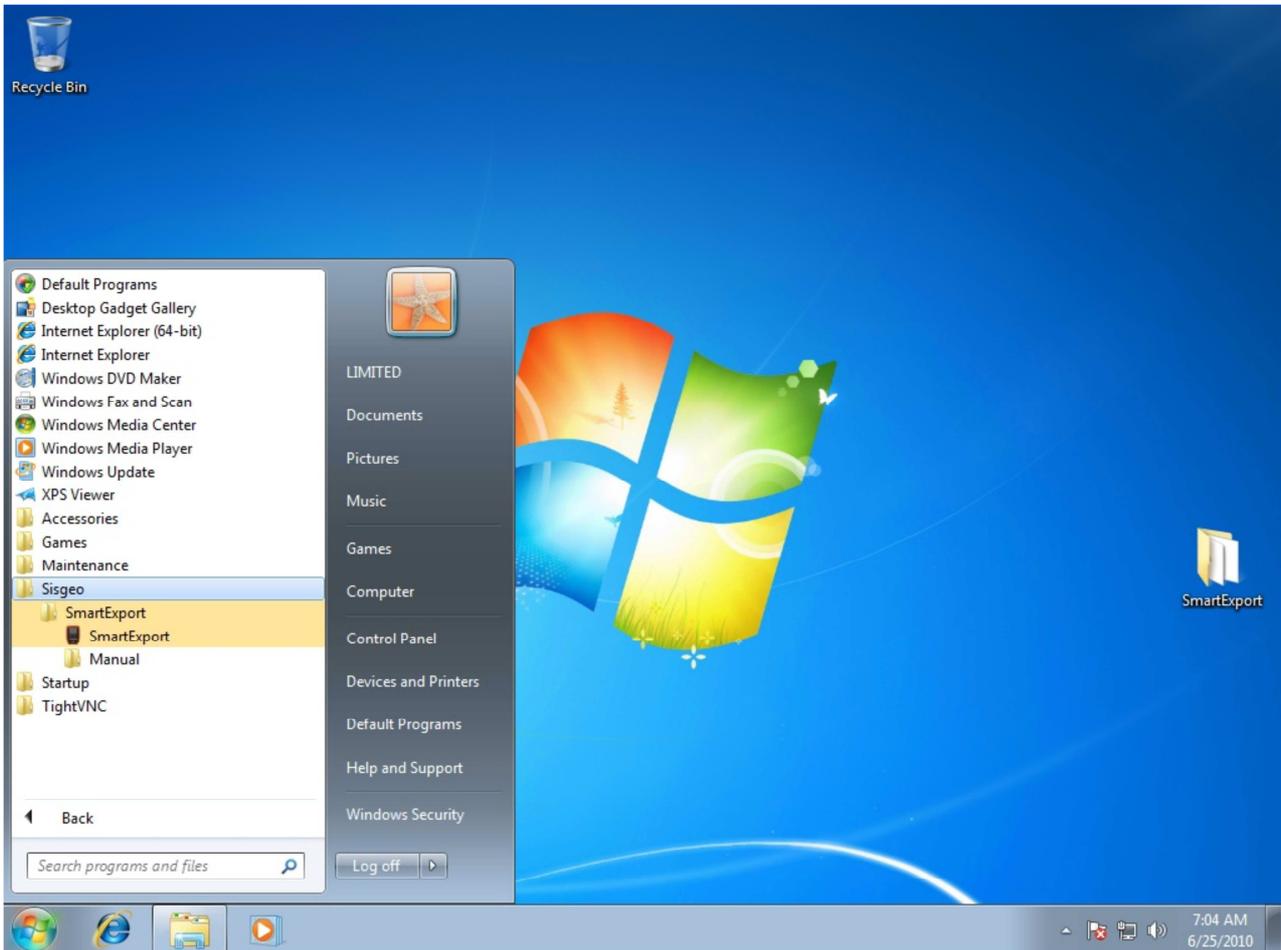
The main window contains a section named Source File. By clicking the associated Browse button you can select the readings file.

The Destination File section contains the folder and the file name for the Microsoft Excel file to be saved. You can use the associated browse button to select the destination file.

Four button are located at the bottom of the window.

This button allows to export readings in Microsoft Excel format.

This button shows version information and user license.

This button shows online help guide.

This button checks for online software updates.

This button let user change program options.

TROUBLESHOOTING

Problem	Cause	Recommended action
Reading files can't be exported or the file does not have inside the last readings	The USB connection could be wrong	Check that the USB cable is inserted well both in the PC and in the DL port
	The path for the file saving does not exist	Select another existent path
	There is a file saved with the same name.	Check that there is no file with the same name
The exported file has no information inside (e.g. Note)	There have been made changing to a device (multiplexer, work list etc.) previously configured.	The new information will be inserted in the export file only for the readings made after the modifications
	Information have been added in a different device	The information added in a device (e.g. Switch Panel) will be displayed only in that device, also if the instruments are in another device (e.g. Work List)
The exported file has no congruous value inside	The readings are exported converted with the calibration factors inserted during the calibration	Check the configuration of the instrumens with wrong readings, especially the calibration factors.

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