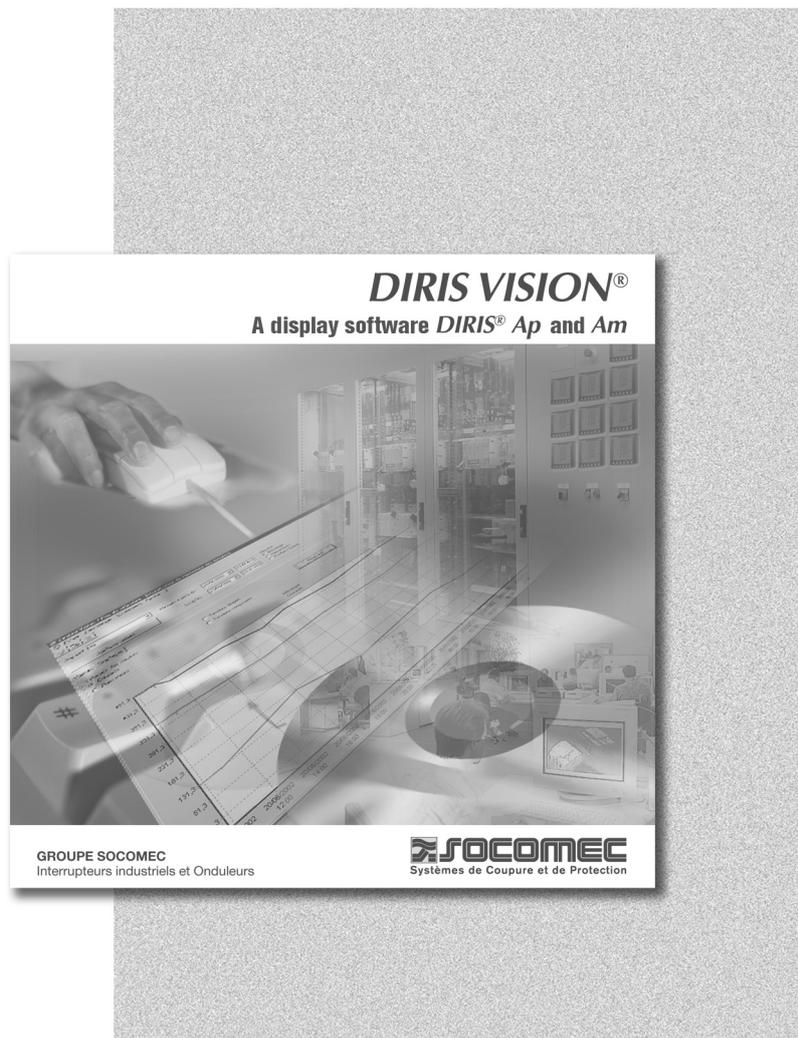


Software **DIRIS VISION**

Operating instructions



SOCOMECC GROUP SWITCHING PROTECTION & UPS



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GUARANTEE AND LIABILITY LIMITS

Although the programs described in this manual have been thoroughly tested, SOCOMEC does not guarantee, either explicitly or implicitly, the manual or the programs which are described in it, their qualities, their performance or their ability to meet the requirements of any specific application.

Consequently, these programs and the manual are sold as such and the purchaser buys them at his own risk concerning their quality and their use.

SOCOMEK can in no way be held responsible for any direct or indirect prejudice, of whatever nature, resulting from any imperfection in the program or the manual, even when aware of the possibility of any such prejudice. In particular, SOCOMEC can bear no responsibility for any programs or data saved or used by DIRIS VISION. The purchaser does however have the right to benefit from a legal guarantee in cases where and only where this guarantee does not exceed any exclusion or limitation.

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person. According to the law, the expression “copy” includes any translation into another language. Consequently, you may use the software on any computer belonging to you, but you may not produce a copy for this purpose.

Windows is a registered brand name of Microsoft Corporation. Pentium is a registered brand name of Intel. All product names or brands mentioned in this manual are registered by their respective owners.

PRELIMINARY OPERATIONS

The following points should be checked when you receive the product:

- The state of the packaging
- Does the device reference number correspond to your order?
- Is the installation CD in the package?
- Had the packaging been opened before you received it?

FUNCTIONS

The DIRIS VISION software provides for, through the dialogue with the Socomec DIRIS Ap, Am, A20, A40 and A41 devices, the retrieval of the following:

- the display in the form of a individual, analogue and digital, of instantaneous values summary,
- the display in the form of a general summary of instantaneous values and meters,
- the storage and export of such data in Excel.

PRESENTATION

This software should be installed on the hard disk of a computer under a Windows environment and it interacts with devices such as DIRIS Ap, Am, A20, A40 or A41 via one (or more) series ports connected to a RS485 bus.

SYSTEM REQUIREMENTS

DIRIS VISION requires the following minimum system configuration:

Windows:	98, Millenium, NT4 (≥ service pack 6) 2000 or XP
Software:	Excel
Processor:	Pentium III
RAM:	64 megabytes
Hard disk:	200 Mo of permanently free disk space
Screen:	17", colour VGA 1024 x 768 resolution
Ports:	RS232 or RS485 series for connecting devices



it is essential that Excel is not used at the same time as DIRIS VISION.



DIRIS VISION should be installed on an assigned computer.



3D or graphic screen savers should be disabled.



It is imperative that the Excel software is installed on the station.

INSTALLING

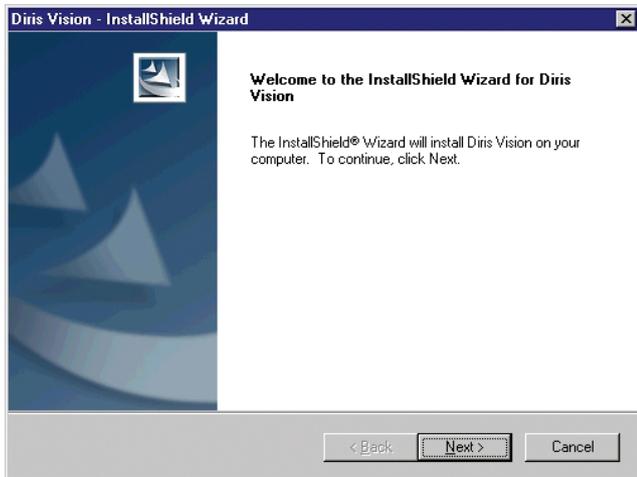
To install DIRIS VISION under Windows, please proceed as follows:

- close all current applications,
- insert the CD into the CD ROM player,
- the installation software will run automatically,
- if not, click on the installation icon on the DIRIS VISION CD ROM,
- follow the instructions on the screen.



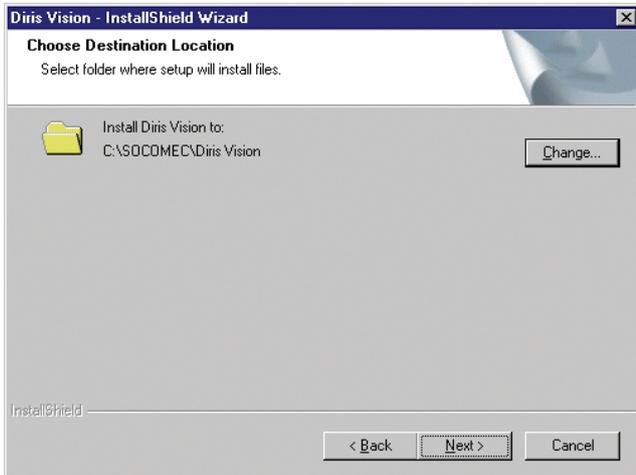
accessing different languages

 Depending on your version of Windows, it is essential to be under "administrator" or to have a "write" access to the disk or to the register base.



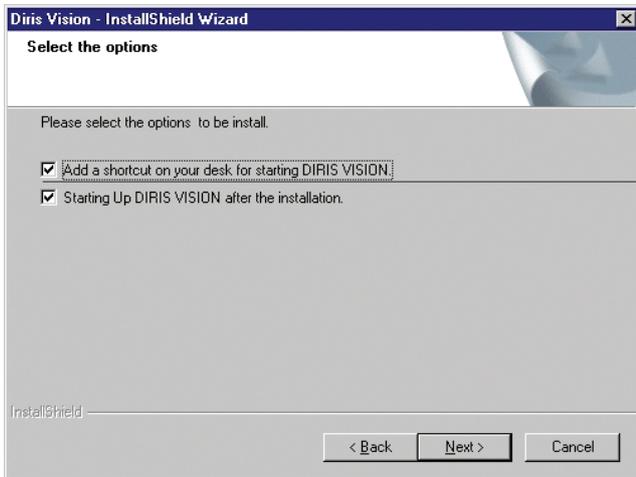
- ▶ Selection of destination location
- ▶ Selection of options
- ▶ Summary of installation procedure

SELECTION OF DESTINATION LOCATION



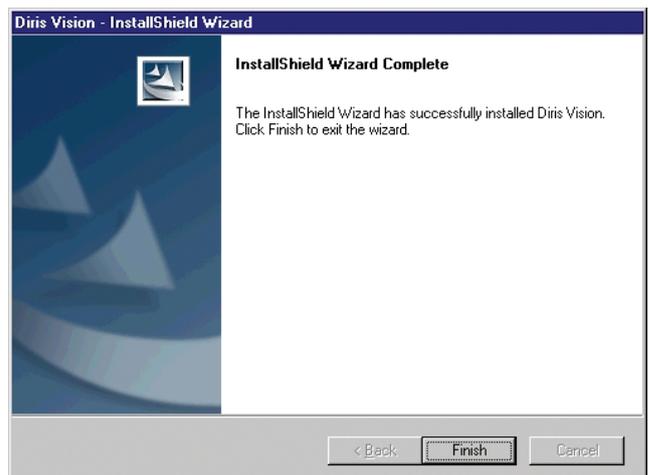
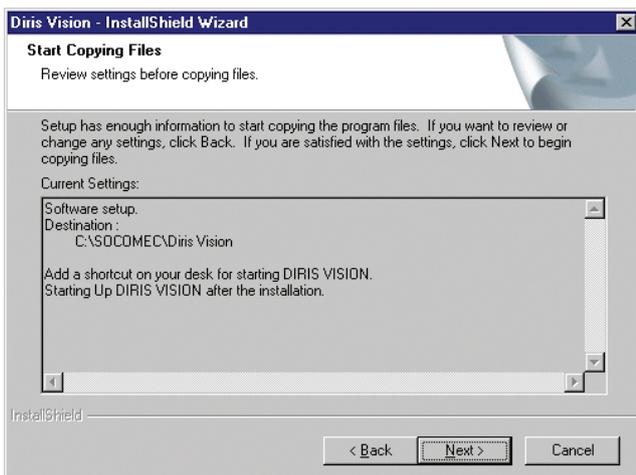
 The chosen directory must be located on the local disk. Do not choose a network disk or a remote unit.

SELECTION OF OPTIONS



you can choose to add icons to your windows desk to run these programs directly

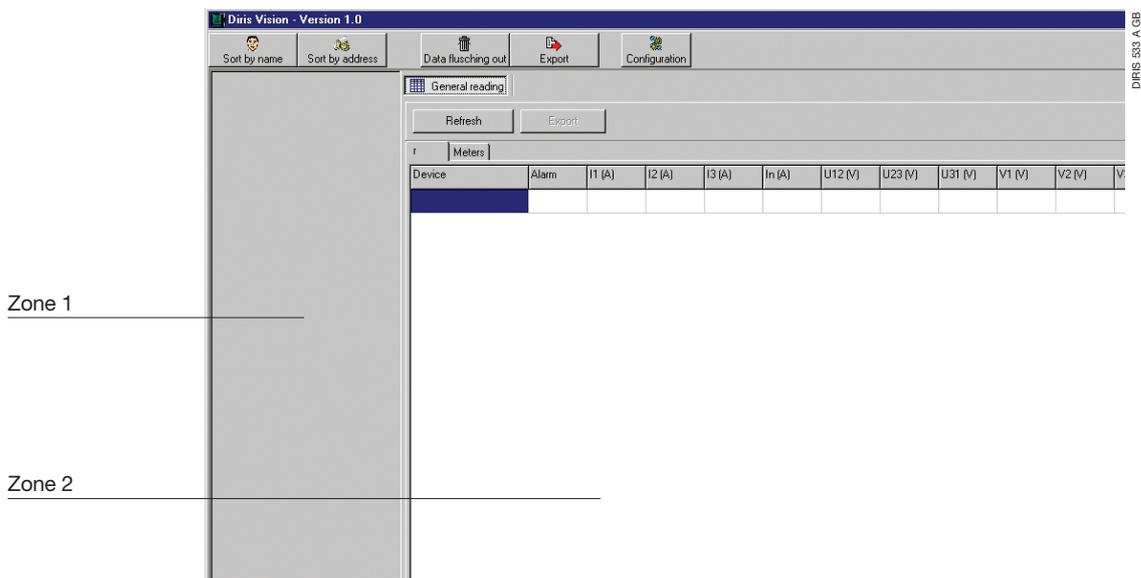
SUMMARY OF INSTALLATION PROCEDURE



STARTING UP THE SOFTWARE

DIRIS VISION is run by double clicking on the icon on the Windows desk. If the icon is absent, click on “Start”/programs/Socomec/Diris Vision/Use or double click on the “DirisVision.exe” file in the DIRIS VISION directory under Windows Explorer.

DESCRIPTION OF THE MAIN DIRIS VISION SCREEN

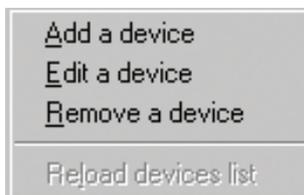


The top part of the user interface has buttons giving you direct access to a given function.

With, in the left-hand section the list of products entered (zone 1) and the display window for the values requested in the right hand section (zone 2).

Zone 1: list of devices entered

Click on this zone with the right hand mouse button to display the following contextual menu:



DIRIS 540 A GB

ADD A DEVICE

DIRIS 541 A GB

opens the “enter a new device” window in which the following must be entered:

- the name of the device to enable you to located it on the network (TGBT12, EDF room, etc.),
- communication channel: this is the serial port (COM port in Windows) to which the RS232 / RS485 or RS232/TCP-IP interface is connected,
- address: defined in the DIRIS configuration,
- speed of communication: enter a speed identical to that of the DIRIS and the communication accessories,
- type of DIRIS: select Ap, Am, A20, A40 and A41,
- save the instantaneous values: if it is checked when this DIRIS is selected, all electrical values returned shall be saved to an Excel spreadsheet.



Selecting this option increases the size of the Excel file.



Back-up only concerns the DIRIS selected.

MODIFY A DEVICE

Opens the “modification of device selected” window in which the entry parameters may be modified.

DELETE A DEVICE

Deletes, after a confirm message, the device on the list and the data saved to the Excel file.



Deletion concerns the device selected.

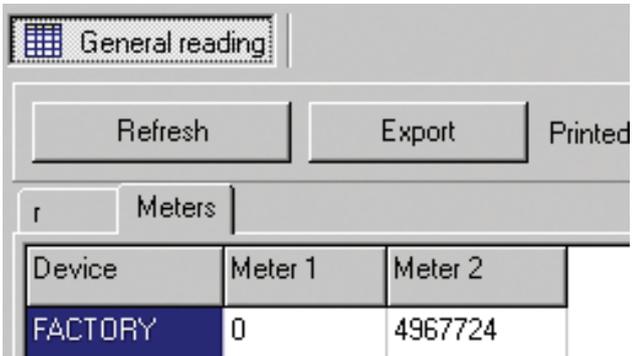
Zone 2: summary window

IF NO DIRIS ARE SELECTED IN THE LIST

> General summaries



- “Measurements and alarms” tab: a table containing all instantaneous values, the power indices and alarm data for all products entered, with one line per DIRIS.



- “Meters” tab: a table containing the indices of the DIRIS Ap, Am, A20, A40, A41 impulse meter inputs.

> Buttons



- Update: generates a new communication session with the DIRIS to refresh the values in the table.



- Export: opens the “save as” window which is used to enter the name and path of the Excel file which contains the table values.

Zone 2: summary window

IF A DIRIS IS SELECTED IN THE LIST

> Digital display

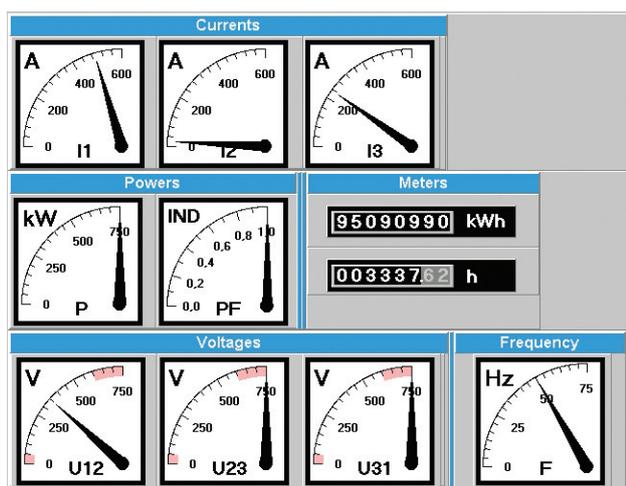
Measurements									
I1	I2	I3	Avg I	In	P	Q	S	FP	
409,7 A	19,9 A	237,4 A	249 A	723,5 A	Phase 1 170,6 kW	0 var	170,6 kVA	0,999	
U12	U23	U31	Avg U	F	Phase 2 0 W	0 var	0 VA	1	
348,5 V	2,5 kV	2,1 kV	1,7 kV	50 Hz	Phase 3 587,9 kW	0 var	588 kVA	0,999	
V1	V2	V3	Avg V		Total	758,5 kW	0 var	758,6 kVA	0,999
348,5 V	0 V	2,5 kV	941,8 V						
Meters									
Ea +	Er +	Ea -	Er -	Es					
95090,989 MWh	2250,4 MVarh	663,941 MWh	160,256 MVarh	97734,393 MVarh					
Meter 1	Meter 2	Meter 3	Meter 4						
0 kWh	4967724 kWh								
Harmonics									
Thd I1	Thd I2	Thd I3	Thd In	Thd U12	Thd U23	Thd U31	Thd V1	Thd V2	Thd V3
4,8 %	37,1 %	4,7 %	4,8 %	4,9 %	4,8 %	4,7 %	4,8 %	0 %	4,8 %



Certain fields are not indicated if the option is not available on the apparatus.

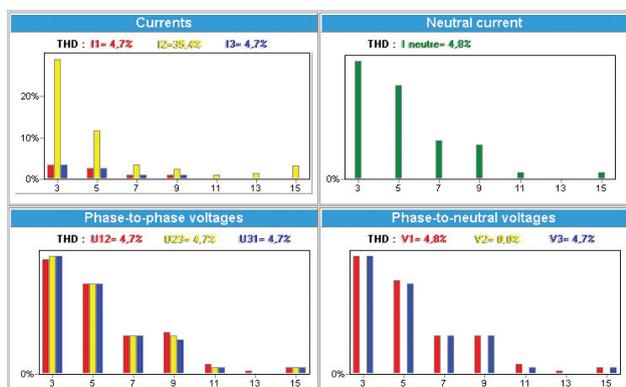
Instantaneous values of the device selected.
This window is updated automatically every 5 seconds.

> Analogue display



Instantaneous values of the device selected in the form of an analogue indicator.
This window is updated automatically every 5 seconds.

> Display of harmonics



Instantaneous values of the harmonics of the device selected in the form of a spectrum.
This window is updated automatically every 5 seconds.

> General summaries

- “measurements and alarms” tab: a table containing all instantaneous values, power indices and alarm information for all products entered with one line per DIRIS
- “meters” tab: a table containing the indices of power and impulses meter of the DIRIS Ap, Am, A20, A40 and A41 impulse meter inputs. Available according to the version of the product.

Button

SORTING BY NAME



Is used to display the list of devices entered in alphabetical order.

SORTING BY ADDRESS

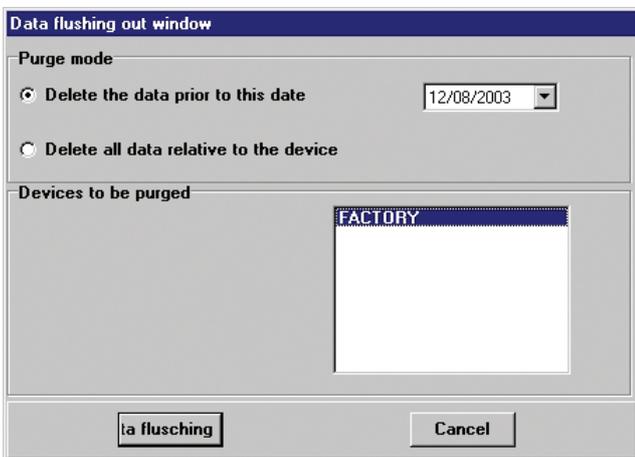


Is used to display the list of devices entered according to their slave addresses.

PURGING



Open the purging window which is used to select the deletion of data (all or from a date to be specified) of one or more devices:

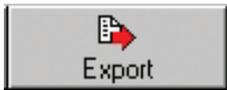


- Purging mode: select deletion before a given date (to be specified by clicking on the pull-down menu) or deletion of all data.
- Devices to be purged: select one or more DIRIS (hold down the "Ctrl" key on the keyboard to select several devices or Shift if they are not next to each other in the list).

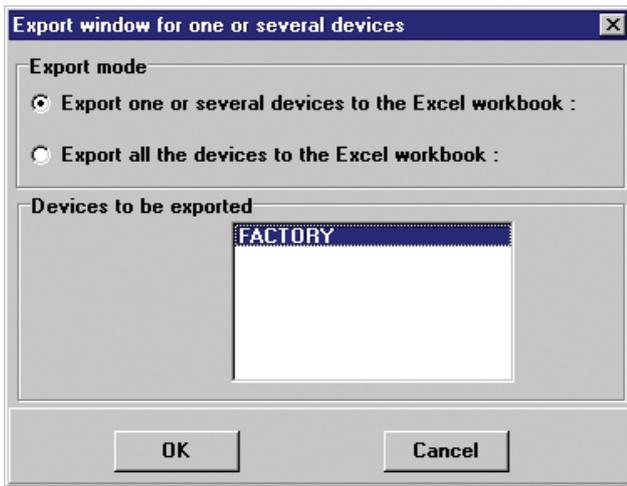
Click on the "purge" button to start the operation immediately.

Button

EXPORTING

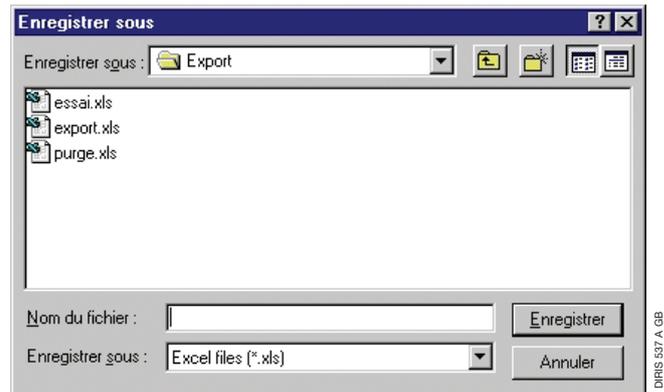


Opens the export window which is used to save the values of one or more devices to an Excel spreadsheet (see page 8, “Add a device”):



- Export mode: select one or more DIRIS.
- Devices to be exported: select one or more DIRIS (hold down the “Ctrl” key on the keyboard to select several devices or Shift if they are not next to each other in the list).

Click on the “OK” button to open the “save as” window in which you can select the name and location of the Excel file.



DIRIS VISION communicates with only one product at a time. Consequently, when there are several products, DIRIS VISION will interrogate the products one after another. The values saved in the xls file will be the values of the DIRIS selected on the main screen.

Button

CONFIGURATION



Opens the window used to select the language of the user interface and the history parameters:

> Languages

Click on the flag of the language required.

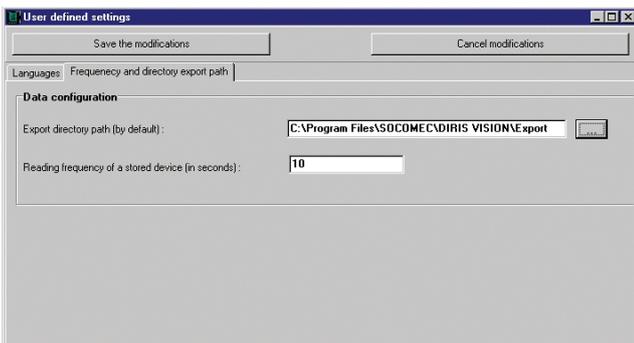


DIRIS 539 A GB



The change of language is only taken into account the next time the software is opened.

> Export frequency and directory



DIRIS 539 A GB



A frequency value that is too low implies the frequent summary of measurements and therefore significant saving to the Excel file.

- Using the browse button, enter the access path to the directory in which the export file is to be saved by default
- Enter the polling frequency (in seconds) of the device selected (if entered as “recorded”), which also corresponds to saving to an Excel file.

Since the number of storage lines in Excel is limited, saving is in FIFO mode, depending on polling frequency, after a certain time (for example 40 days if the frequency is 30 seconds) and the last values stored overwrite the first.

Click on the button “save the modifications” to validate the configuration, “cancel the modifications” restores the configuration saved during the previous validation.

UNINSTALLING



> To uninstall DIRIS VISION, please proceed as follows

- Shut down all open applications
- Put the software CDROM in the CD drawer
- Installation will start up automatically
- If not, click on the installation DIRIS VISION icon on the CD
- Follow instructions on the screen

Or using the “add/delete program” menu in “control panel”, select DIRIS VISION and click on “delete”.

> Uninstalling DIRIS VISION does not delete the following files

- DIRISVISION.INI to be formed in the software installation directory
- The installation directory itself
- Files present in the software directory (export...).

If you wish to delete these files, please do so using Windows explorer.



Do not attempt to delete files or directories manually beforehand.

