

PlantVisorPRO Locale



Full User Manual

→ LEGGI E CONSERVA
QUESTE ISTRUZIONI ←
→ READ AND SAVE
THESE INSTRUCTIONS ←

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1. Minimum system requisites

1.1 Minimum hardware requisites (recommended)

- Processor: Pentium IV 3.0 GHz (or equivalent) or superior
- Ram : 1GB
- Fixed disc: 80 GB (of which 200 MB for the installation and about 1MB for each size sampled/5min./6 months)
- Resolution of the Monitor : 1024 x 768
- CD-Rom
- a serial port available for converter 232/485 (PcGate) or a USB portal for converter CVSTDUMOR0
- a COM or USB portal for modem connection (optional)

1.2 Software Requisites

- Operational systems supported:
 - Microsoft Windows XP Professional SP2 with File System NTFS
- Browser :
 - Internet Explorer 6.0 or superior

1.3 Preparation

The supervisor computer must be prepared with the installation of the following "network components":

- Remote access or network boards
- TCP/IP protocol

1.4 Languages

- Italian
- English
- German
- French
- Spanish
- Portuguese
- Russian
- Greek
- Chinese
- Turkish
- Czech

2. Basic concepts for the use of PlantVisorPRO

2.1 Supervisor

Programme able to manage the hardware connected to the computer. Its main task is to control the status of the devices and act according to the rules set by the user, keeping a trace.

2.2 Local supervisor

The local supervisor is a device control and management system.

2.3 Remote supervisor

A remote supervisor is a local supervisor centralised control system.

3. Installation and activation of the PlantVisorPRO programme

The PlantVisorPRO programme must be installed and appropriately configured before being activated as supervisor.

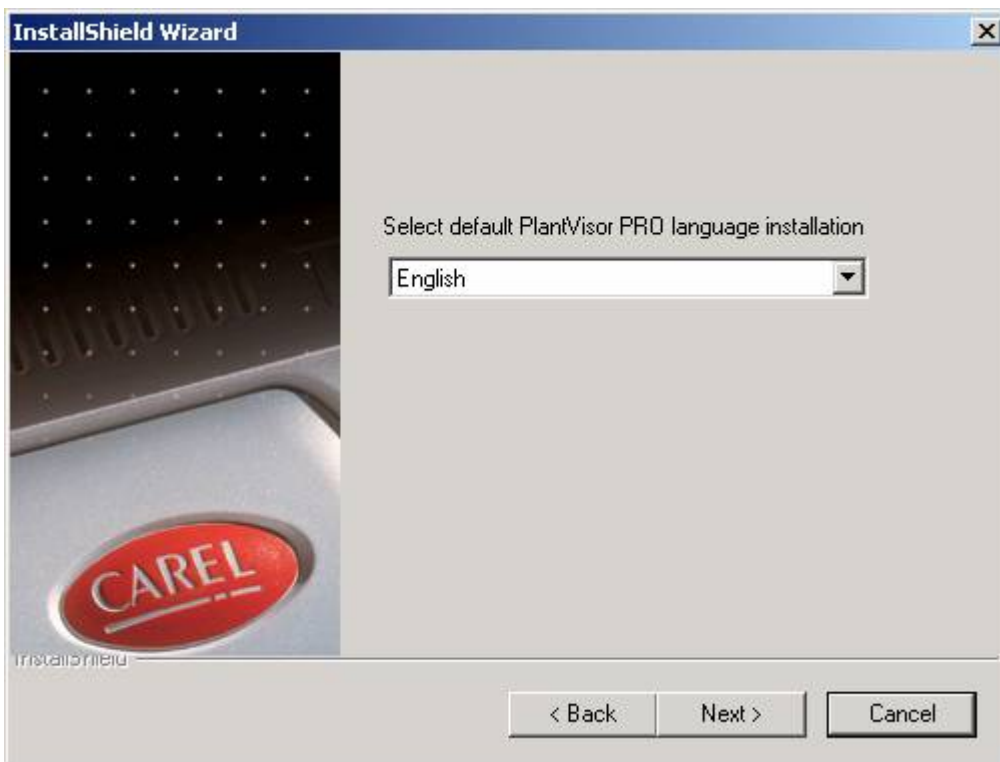
ATTENTION: it is necessary to access the system as administrator user of the computer in order to install the software correctly.

Once the installation CD has been placed inside the computer the browser will open automatically with a page explaining installation. The following components required by PlantVisorPRO will be installed:

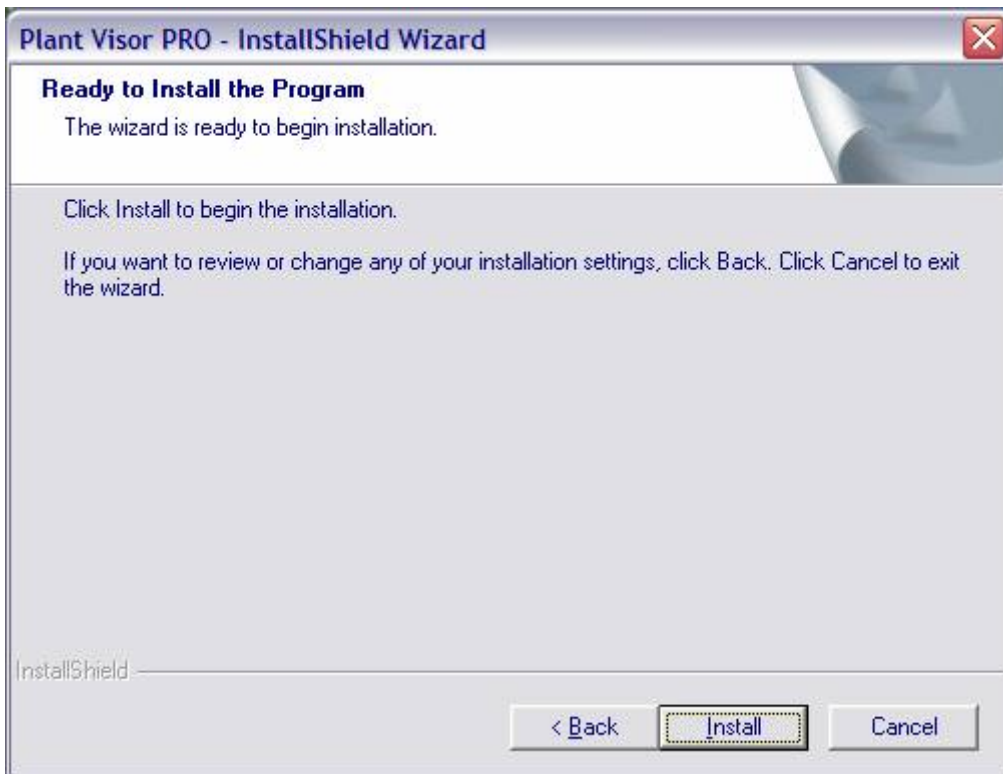
- JAVA 2 Platform Standard Editing Development Kit 5.0
- Macromedia Flash Player 8
- PostgreSQL

Select the “setup.exe” link.

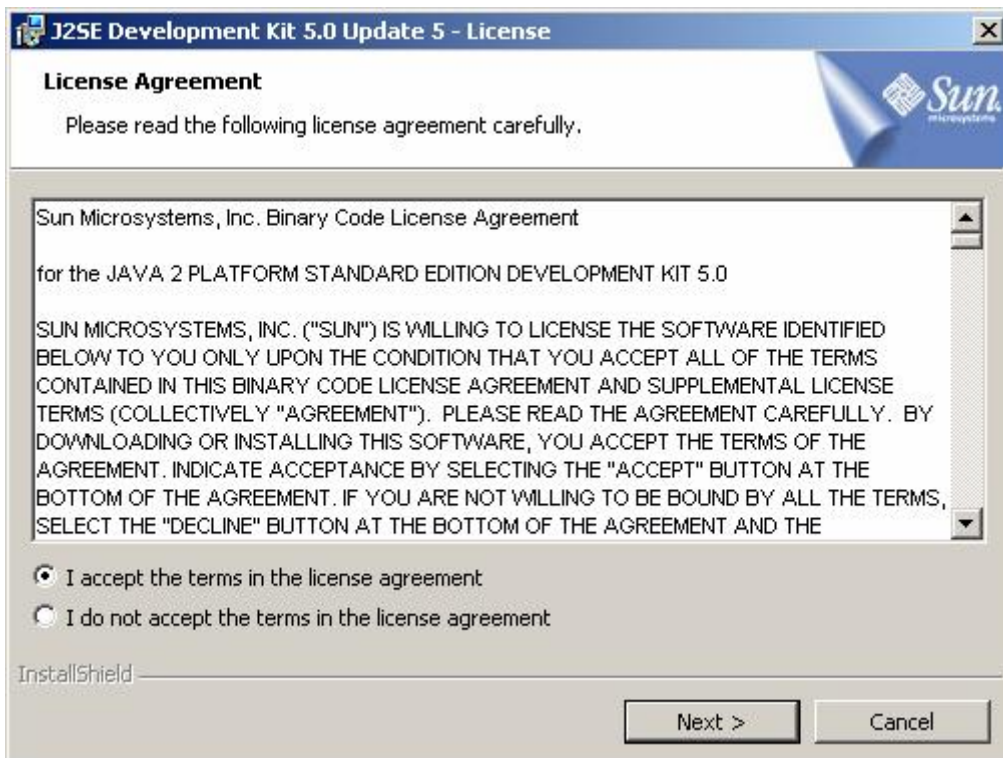
Select “Carry out from the actual position” in the mask that could open and answer “yes” to any protection warnings.



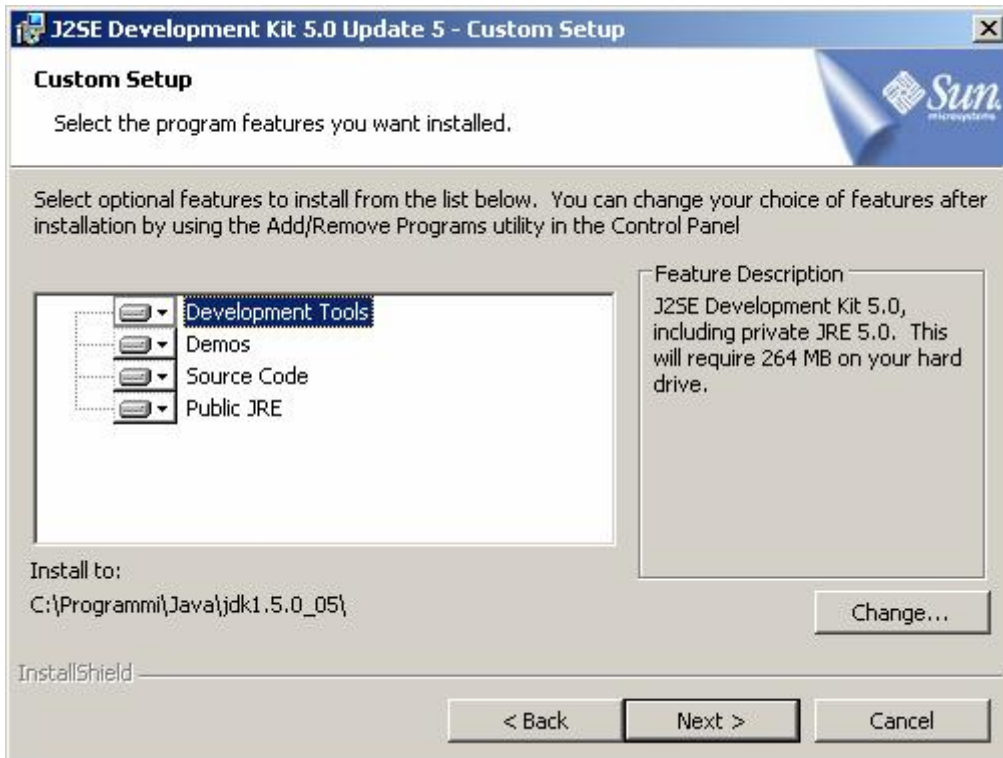
Select a language and then click on “Next”.



Click on "Install".



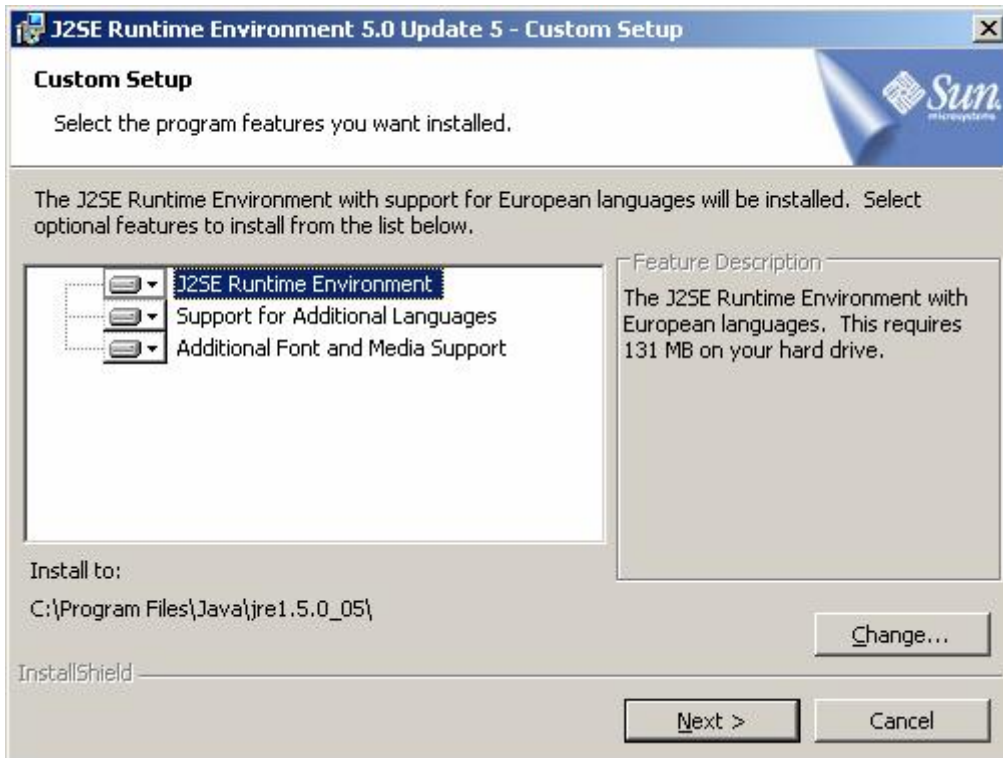
Tick "I accept the terms in the license agreement" and click on "next"



Click on "next"



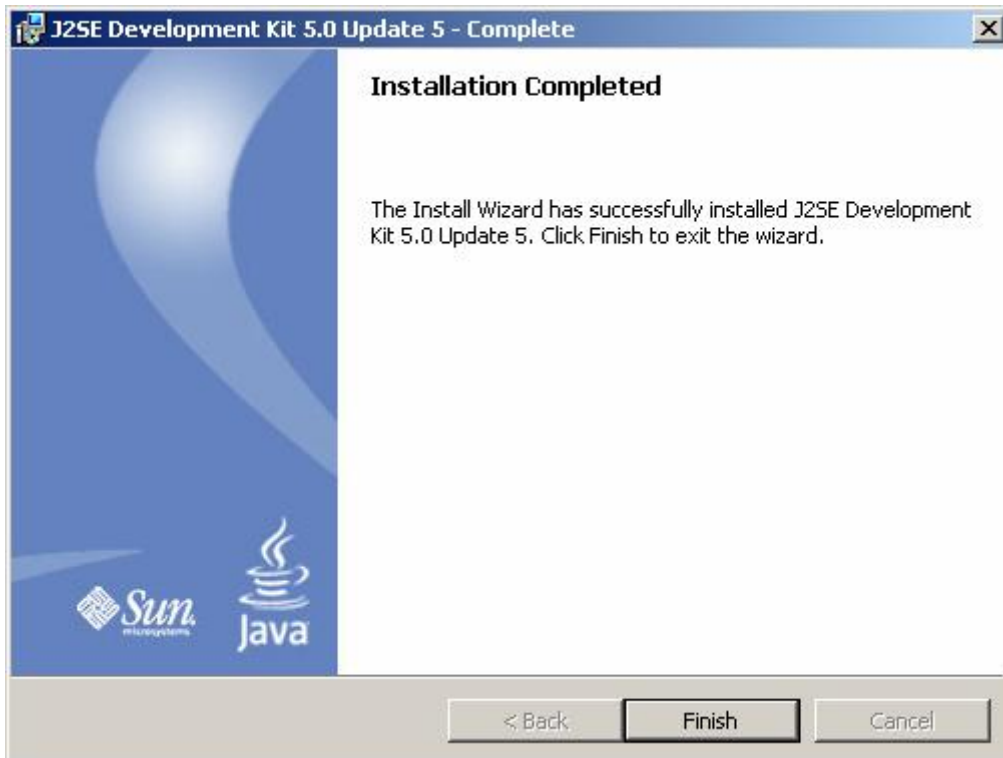
Click on "next"



Click on "next"



Click on "next"



Click on "finish"

At this point the system will launch the installation of Macromedia Flash.

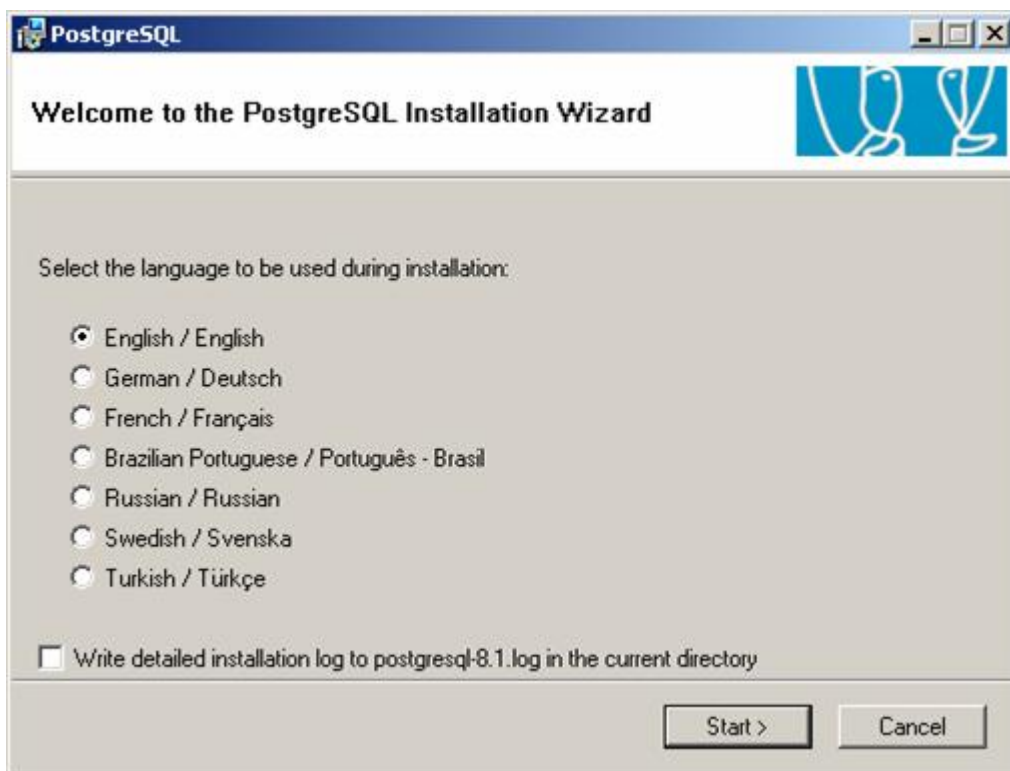


Click on "Install" and wait.

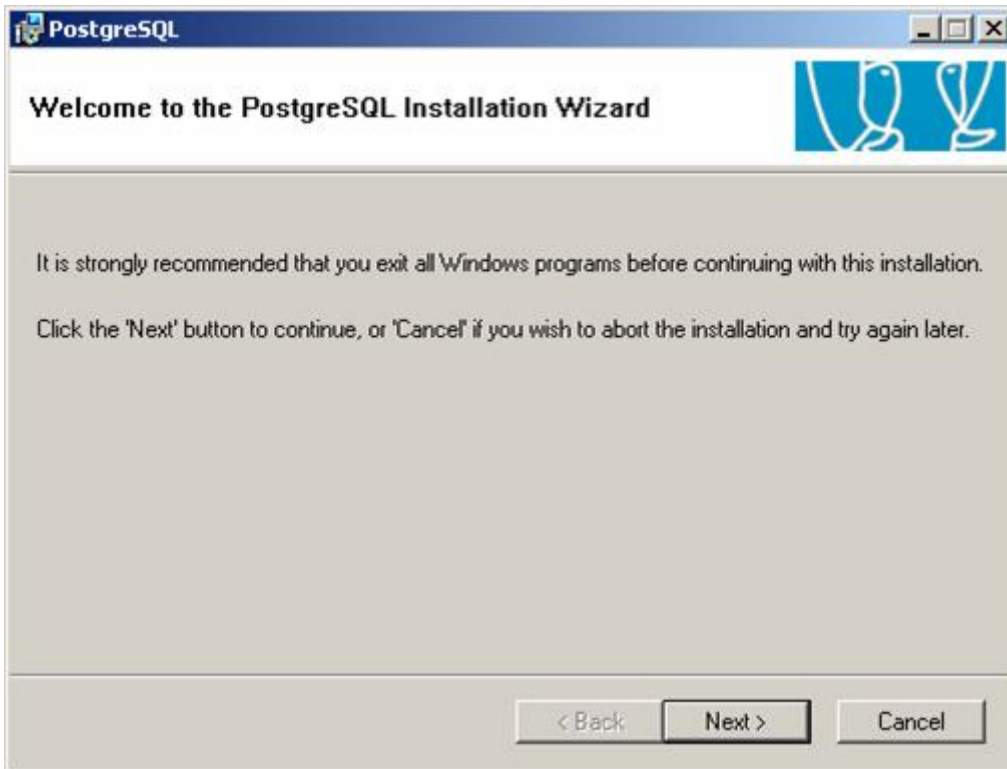


Click on "Finish".

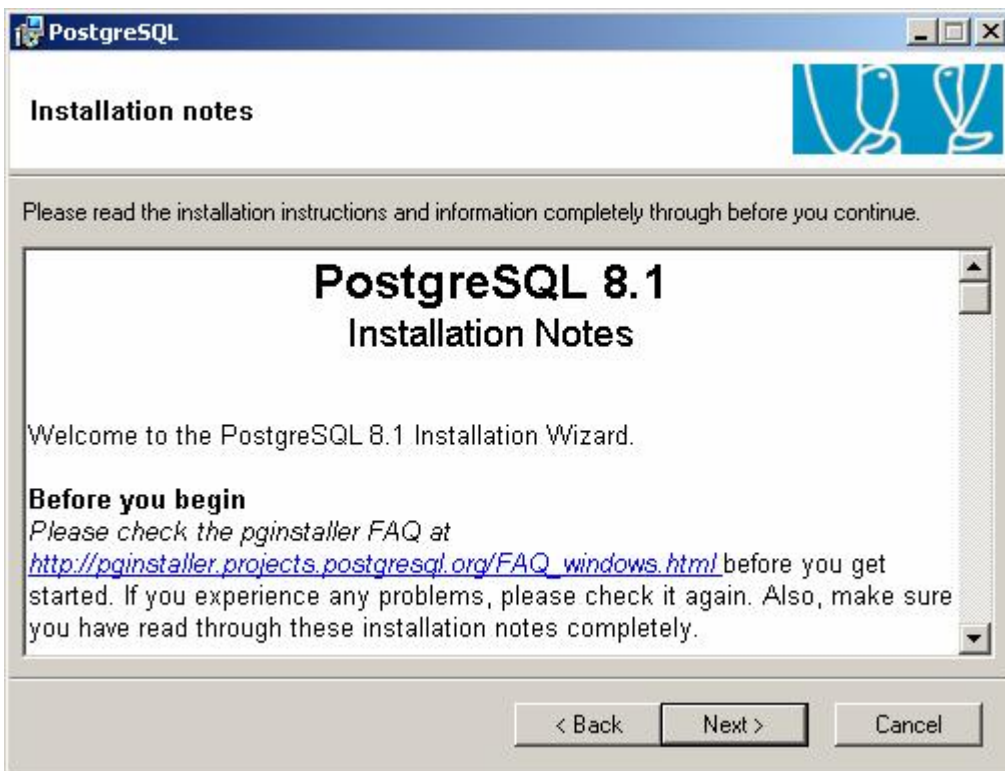
At this point the system will launch the installation of PostgreSQL.



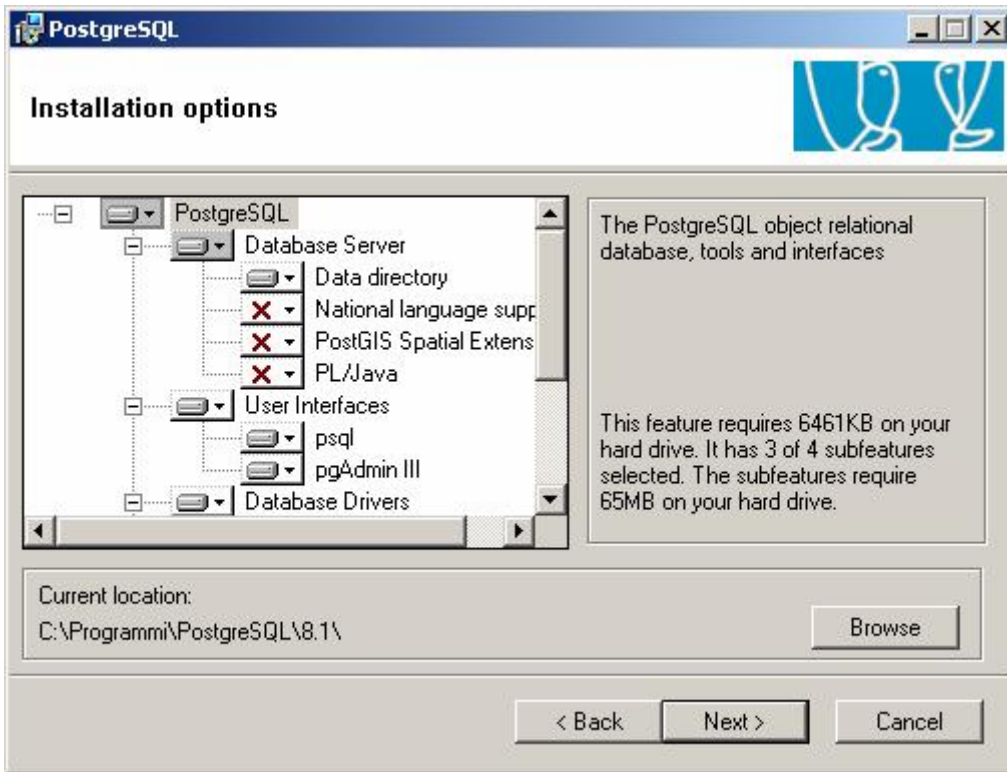
Leave "English/English" and click on "start"



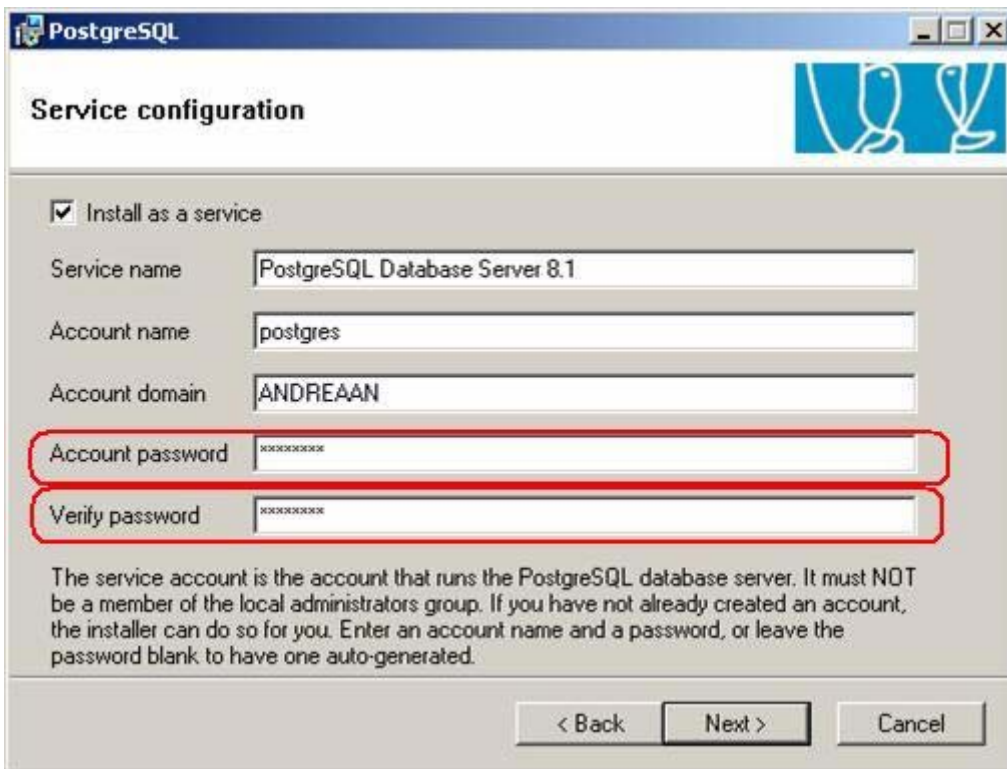
Click on "next" to advance installation.



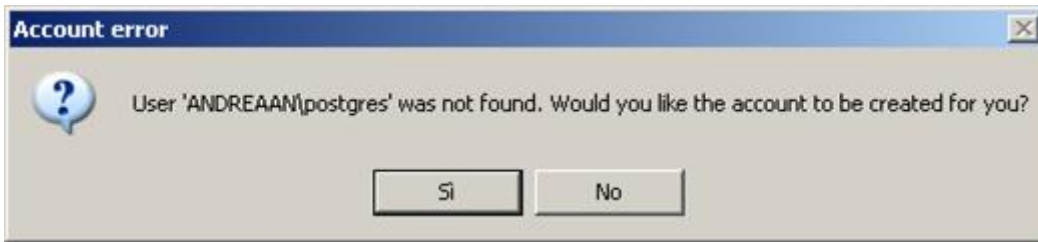
Click on "next"



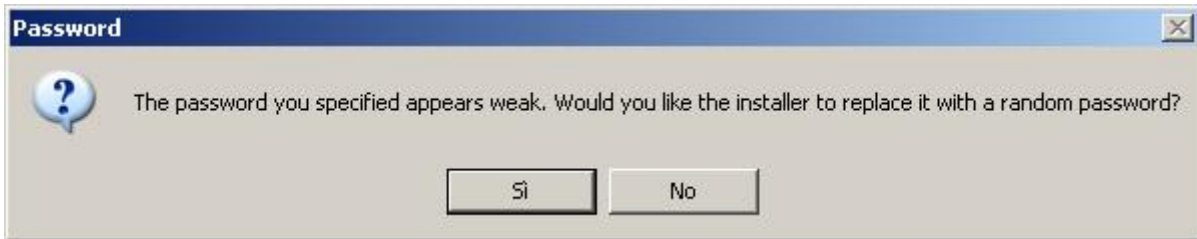
Press "next" to advance installation



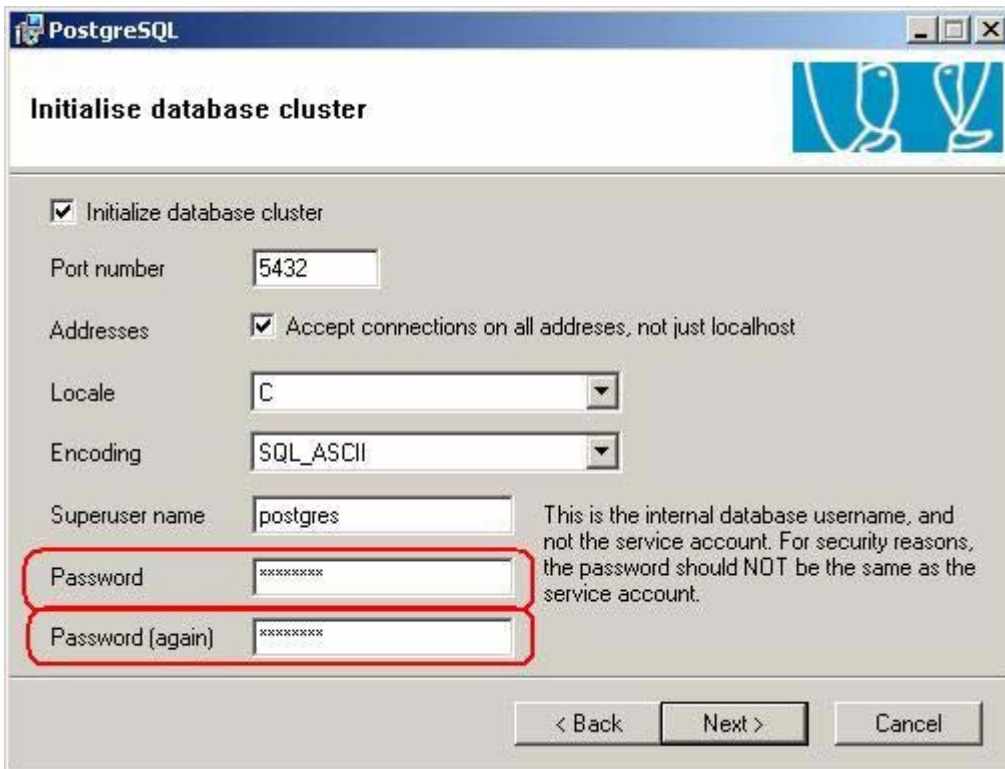
Insert "postgres" in the "Account password" fields and "Verify password".



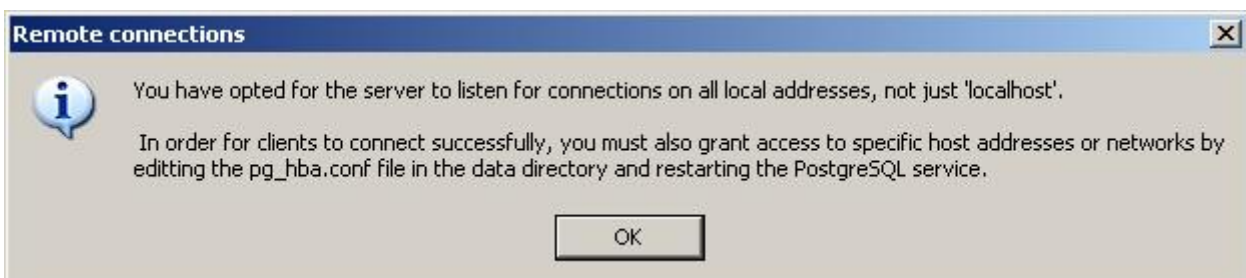
Press "Yes" to create the user



Press "No" to maintain the previously set password.



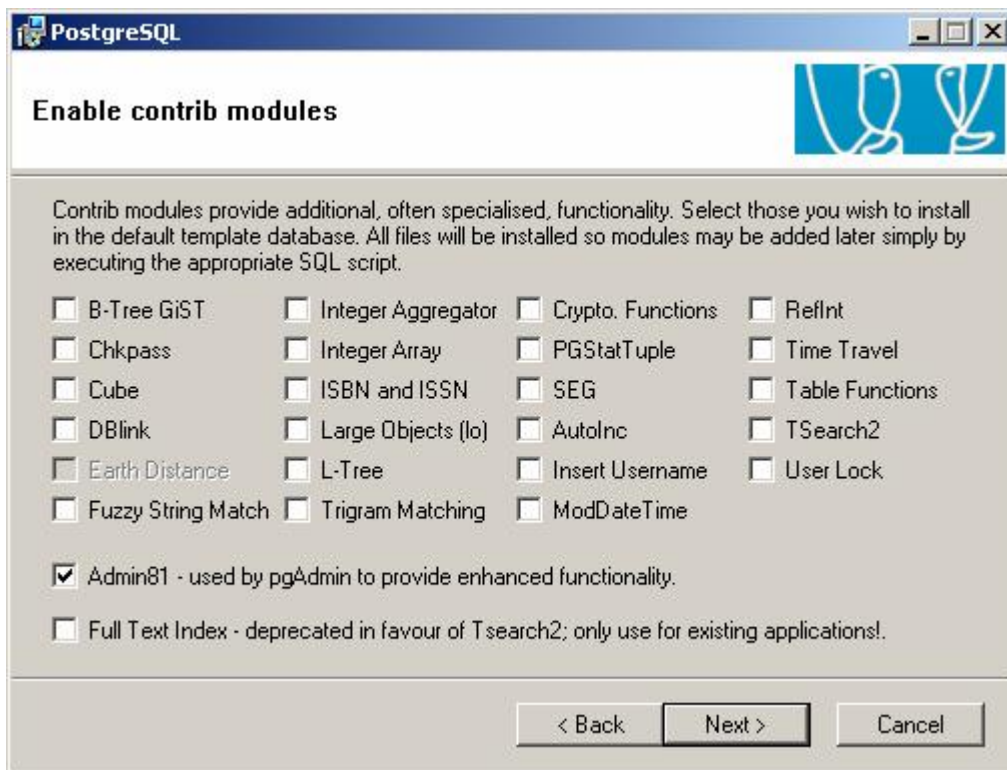
Inset "postgres" into the "Password" fields and "Password (again)".



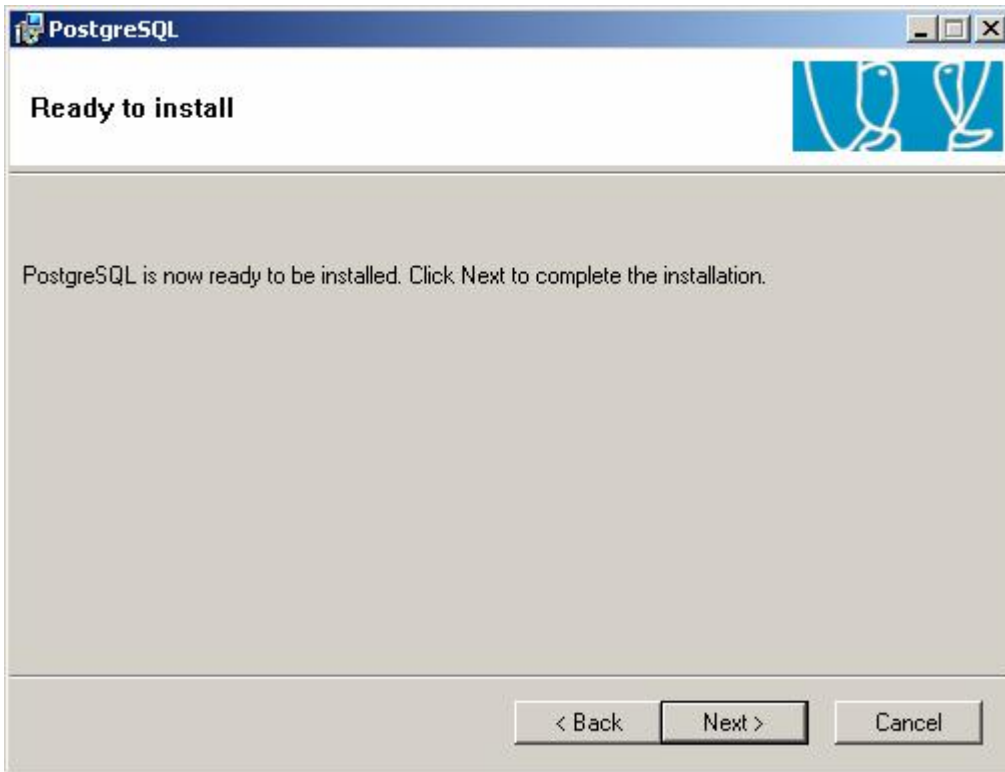
Press "OK"



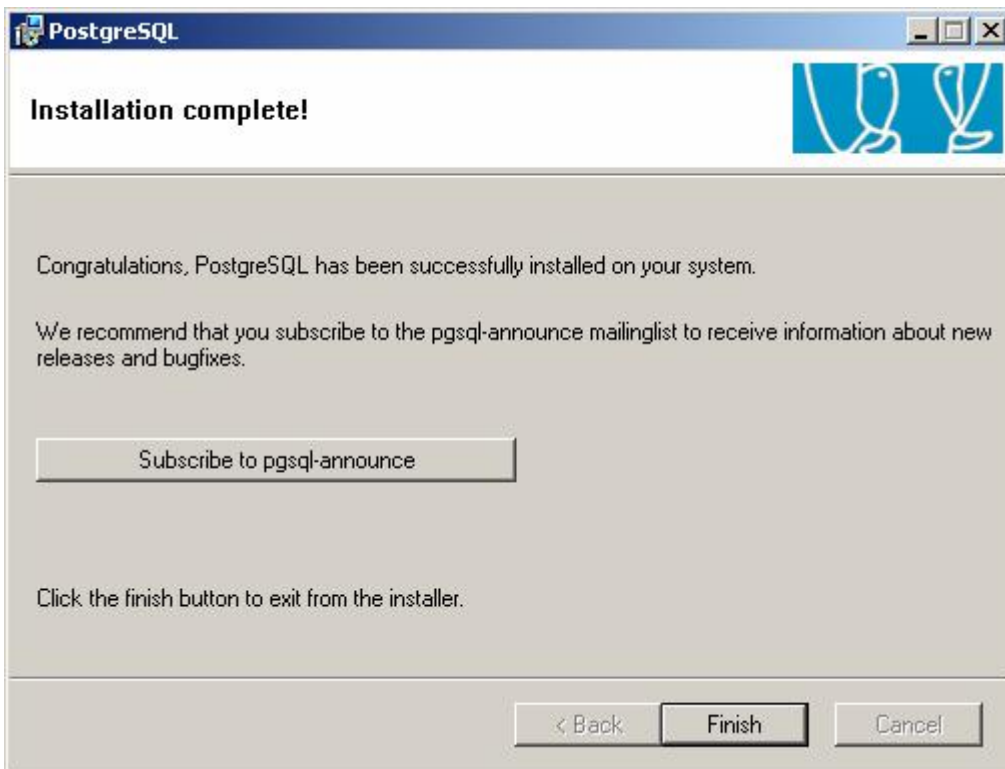
Click on "Next" to advance



Click on "Next"



Click on "Next" to advance and wait



Press "finish" to end installation.



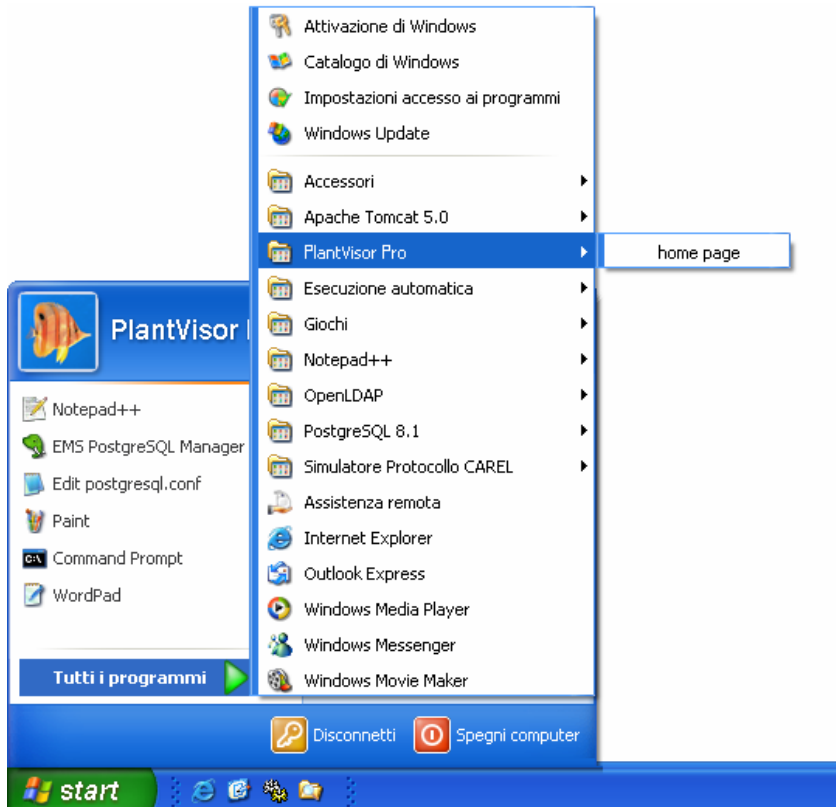
Press "Finish" and re-start the system.

4. Access to the PlantVisorPRO system

To access the PlantVisorPRO Locale visualise the following page in the browser



In order to do this select Programmi\Care\PlantVisorPRO from the Windows "Start" in the link folder named "Homepage":



4.1.1 Entry to the PlantVisorPRO system



To access PlantVisorPRO for the first time introduce:

User admin

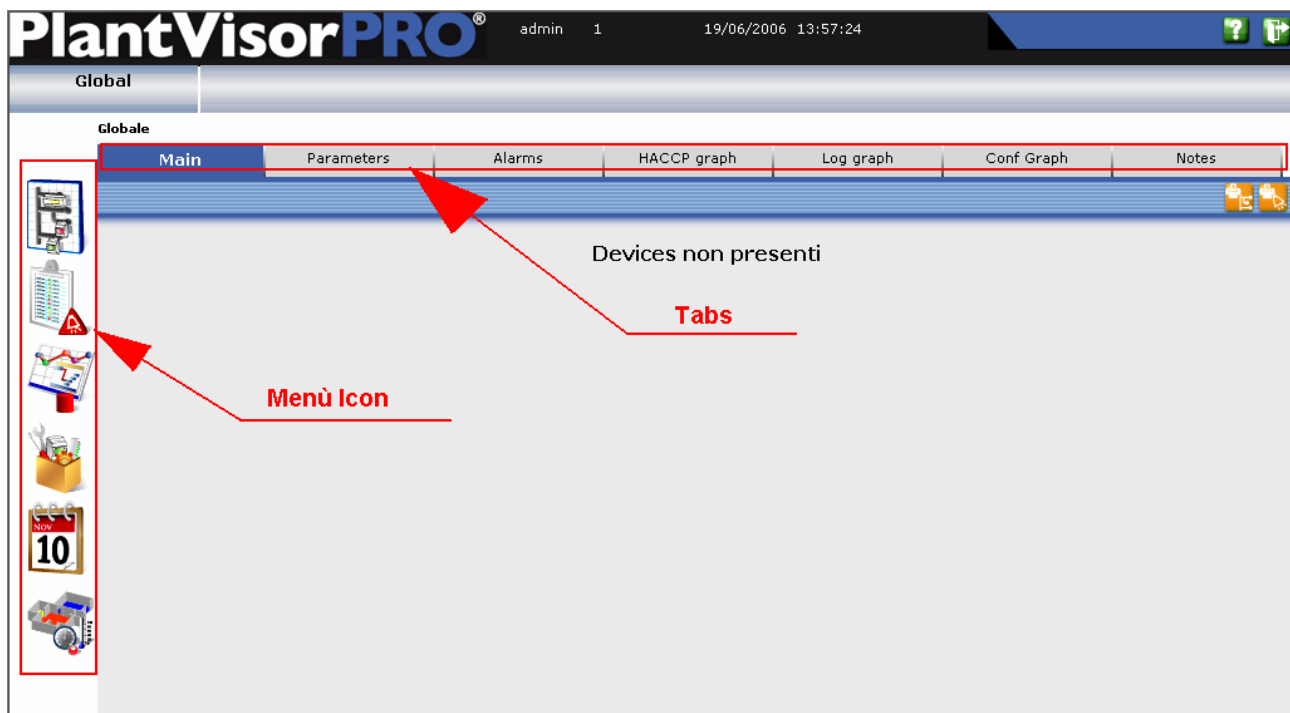
Password admin

(only use lower case characters)

and click on the "Login" key to confirm access.

(The following times depends on the utilities set in the "Utilities configuration" section)

The following page will appear:



5. PlantVisorPRO devices

PlantVisorPRO can have two types of device:

- Physical devices: that refer to physical objects
- Logical devices: that refer to devices created to optimise the system

They will both be described successively

5.1 PlantVisorPRO physical devices

A PlantVisorPRO physical device is an electronic device connected to a supervision network and manageable by the mentioned supervisor. Each device has its own variables that are setting parameters and/or status conditions of the device itself.

5.1.1 Introduction of the physical devices into the PlantVisorPRO

The plant is configured by setting the serial lines and the relative devices they contain.

The devices are connected to each other by data lines, which may be more than one in the same plant. Each line is connected to a different serial portal of the computer onto which the PlantVisorPRO Locale of the computer is installed.



In order to configure the plant take the mouse arrow onto the  icon. A menu will open; select "Site configuration".

PlantVisorPRO[®] admin 1 19/06/2006 14:04:26

Global

Globle

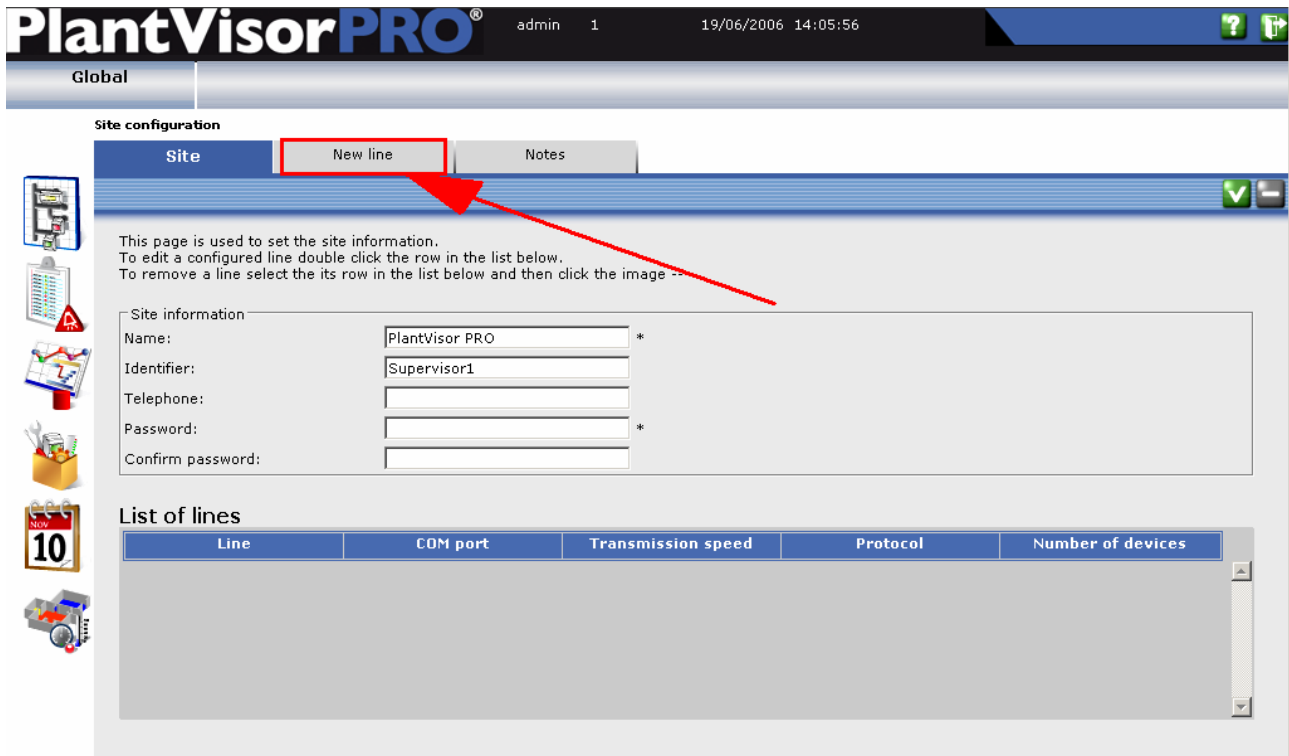
Main Parameters Alarms HACCP graph Log graph Conf Graph Notes

Devices non presenti

CONFIGURATION

- Site configuration
- Logical configuration
- Logical device creation
- Logical groups
- Logical areas
- I/O configuration
- I/O test page
- System page
- User configuration

The following page will appear:



Introduce a name in the "Name" field that identifies the plant where "PlantVisorPRO Locale is installed. In an eventual remote supervisor, this site will be listed with this name (example: "Supermarket refrigeration").

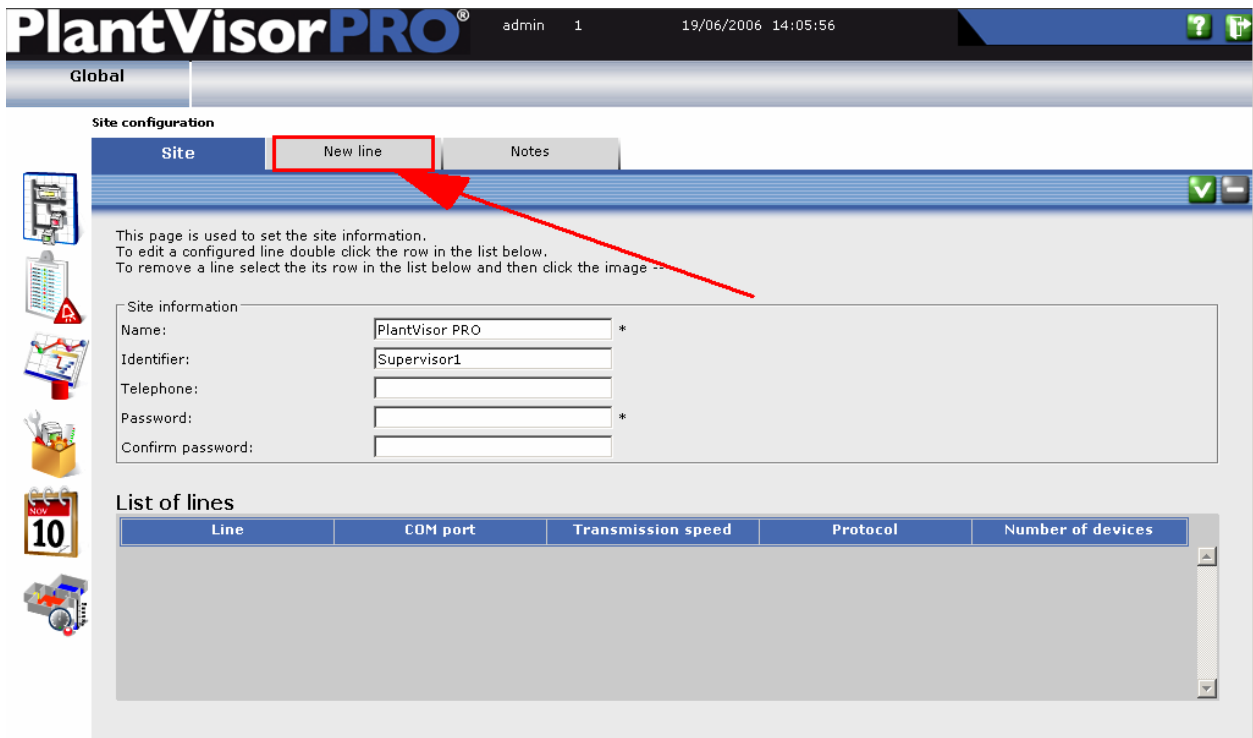
The "Identification" field allows an eventual PlantVisorPRO Remoto supervisor to distinguish a local plant from other local plants. Making reference to this context, write a number in the "Identification" field that is different to that of the other plants. It is advised to use the telephone number of the site that is being configured as identification.

The "Telephone" field is a useful pro-memoria if the site is connected to a Remote supervisor by means of a dedicated modem. The telephone number of the line to which the modem is connected must be introduced.

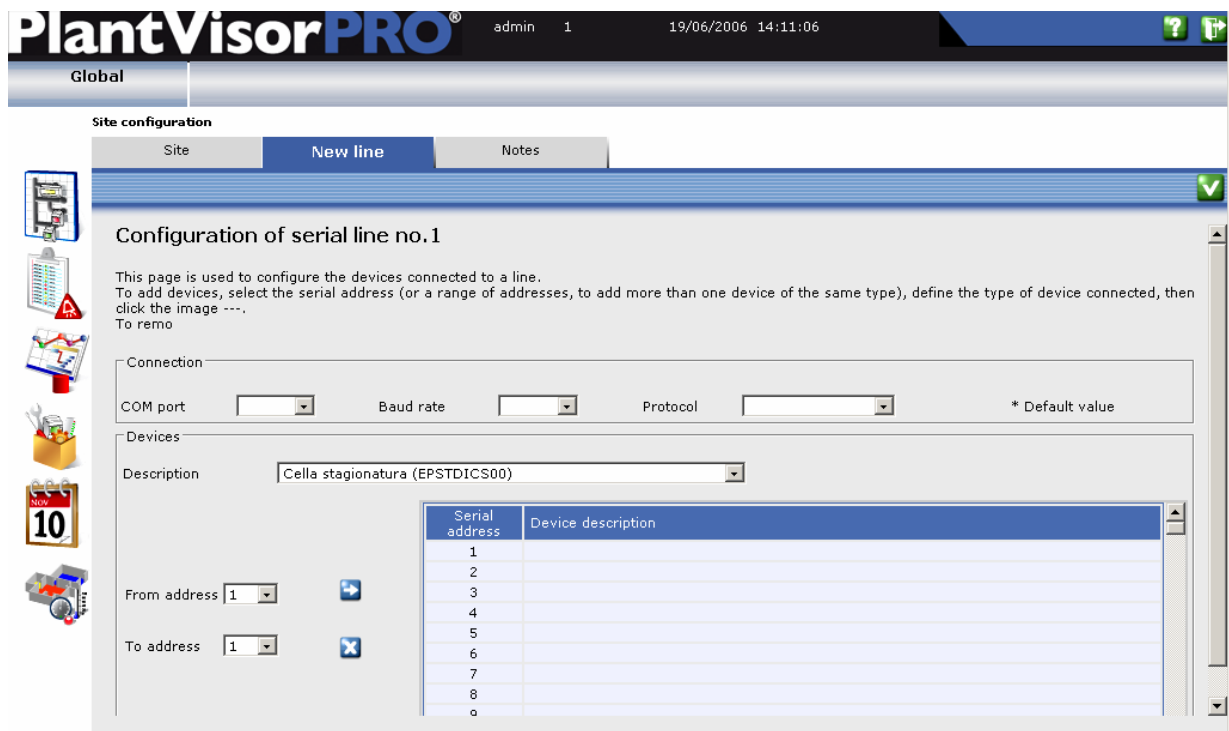
The "Password" field is necessary to protect access to the supervision system if it is connected to a dedicated modem. This password is necessary to enter this site from remote. The minimum number of characters is 6 and the maximum 16, and distinction is made between upper and lower case characters. The password must be re-introduced in the "Confirm password" field. The password will only be accepted if the data in the "Password" and "Confirm password" fields are the same.

Click on  to save the settings.

To set the lines select the "New Line" tab":



The following page will open:




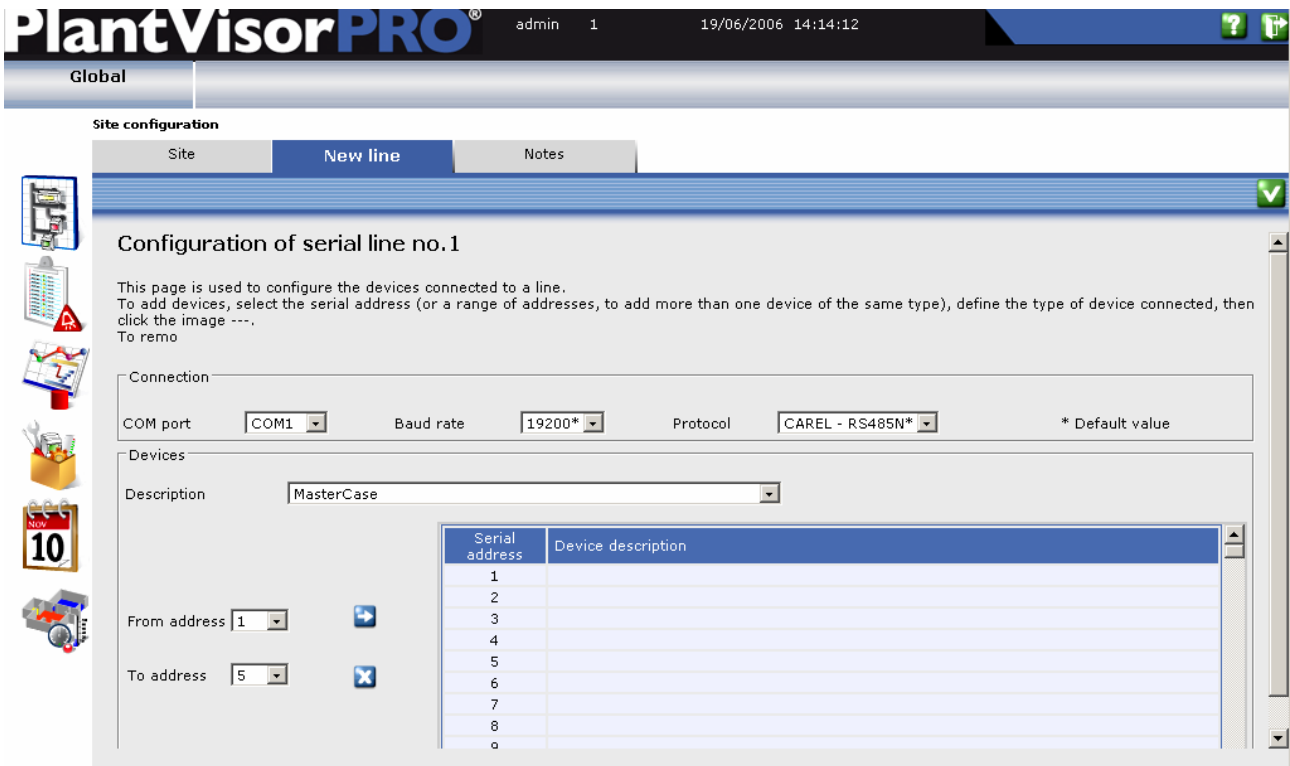
Set:

- The computer serial portal to which the converter is connected (usually COM1) in the "COM Portal" field,
- The transmission speed of the portal (usually 19200 baud) in the "Transmission speed" field,
- The type of communication protocol, which depends on the type of device and type of serial converter used, in the "protocol" field.

Note:

use RS485 protocol for the PC485KIT00 (98C425C001) converter
 use RS485N protocol for the PC-Gate (CVSTD00000) serial converter or for the USB Converter (CVSTDUMOR0)
 Every line is made up of devices that must each be set with its own address.

Making reference to the "Devices" field, introduce the devices into the serial line: select the initial address in the "from address" field, the final address from the "To address" field, and the type of device that must be introduced into that range in the "Description" field. Click on .



PlantVisor PRO admin 1 19/06/2006 14:14:12

Global

Site configuration

Site **New line** Notes

Configuration of serial line no. 1


This page is used to configure the devices connected to a line.
 To add devices, select the serial address (or a range of addresses, to add more than one device of the same type), define the type of device connected, then click the image ---.
 To remove


Connection

COM port Baud rate Protocol * Default value

Devices

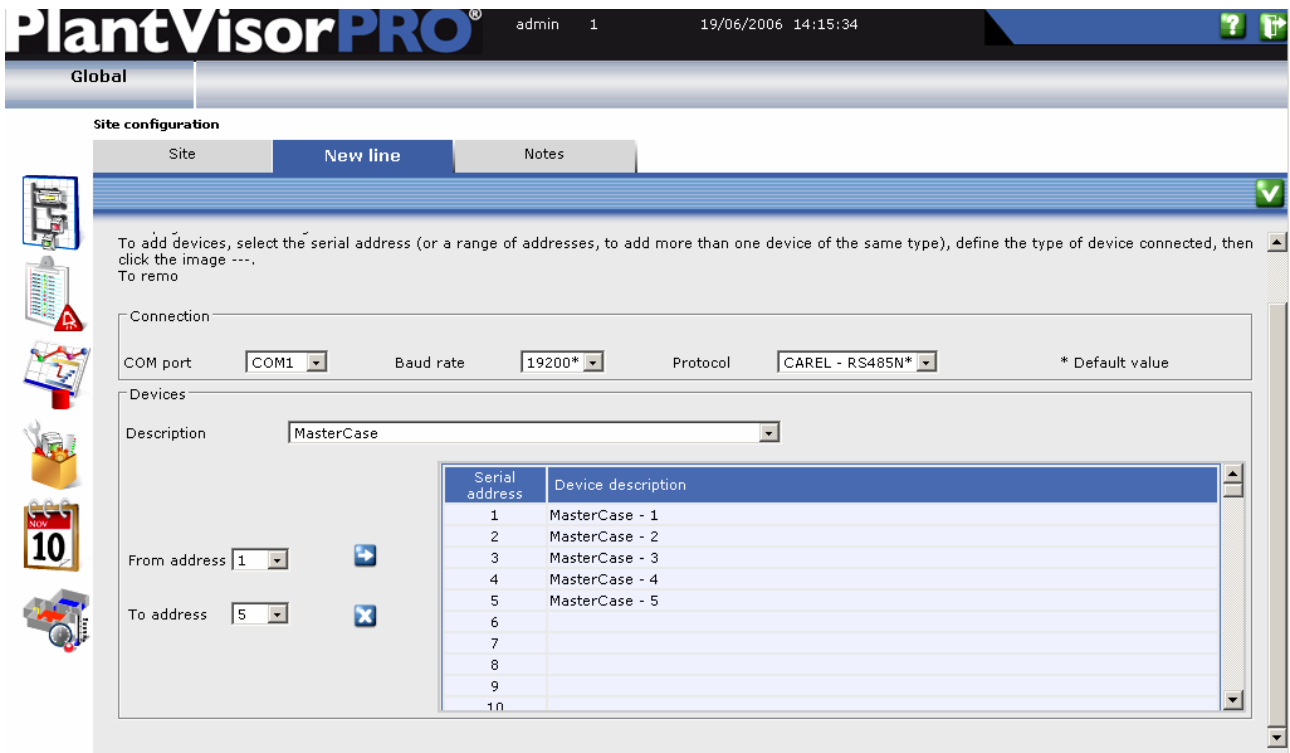
Description

From address 

To address 

Serial address	Device description
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

The set configuration will be visualised in the list of devices:



PlantVisor PRO admin 1 19/06/2006 14:15:34

Global

Site configuration

Site **New line** Notes


To add devices, select the serial address (or a range of addresses, to add more than one device of the same type), define the type of device connected, then click the image ---. To remove


Connection

COM port Baud rate Protocol * Default value


Devices

Description

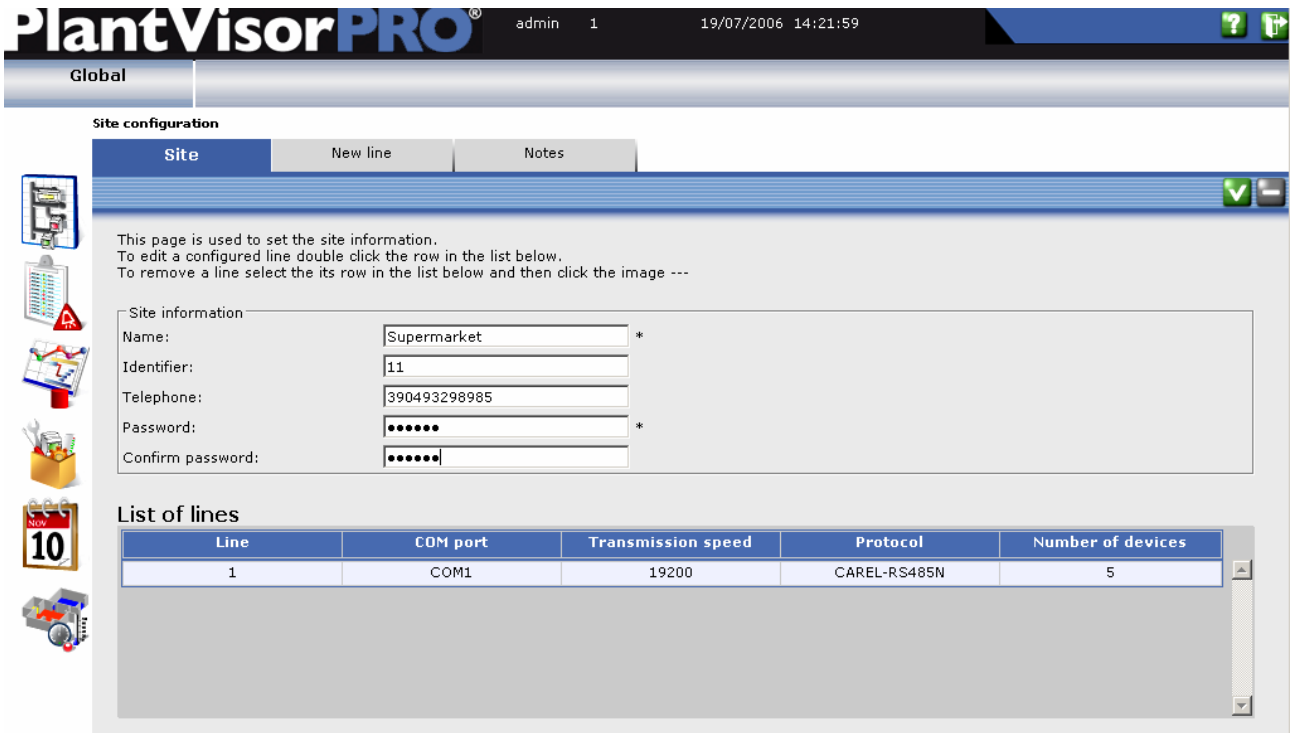
From address 

To address 

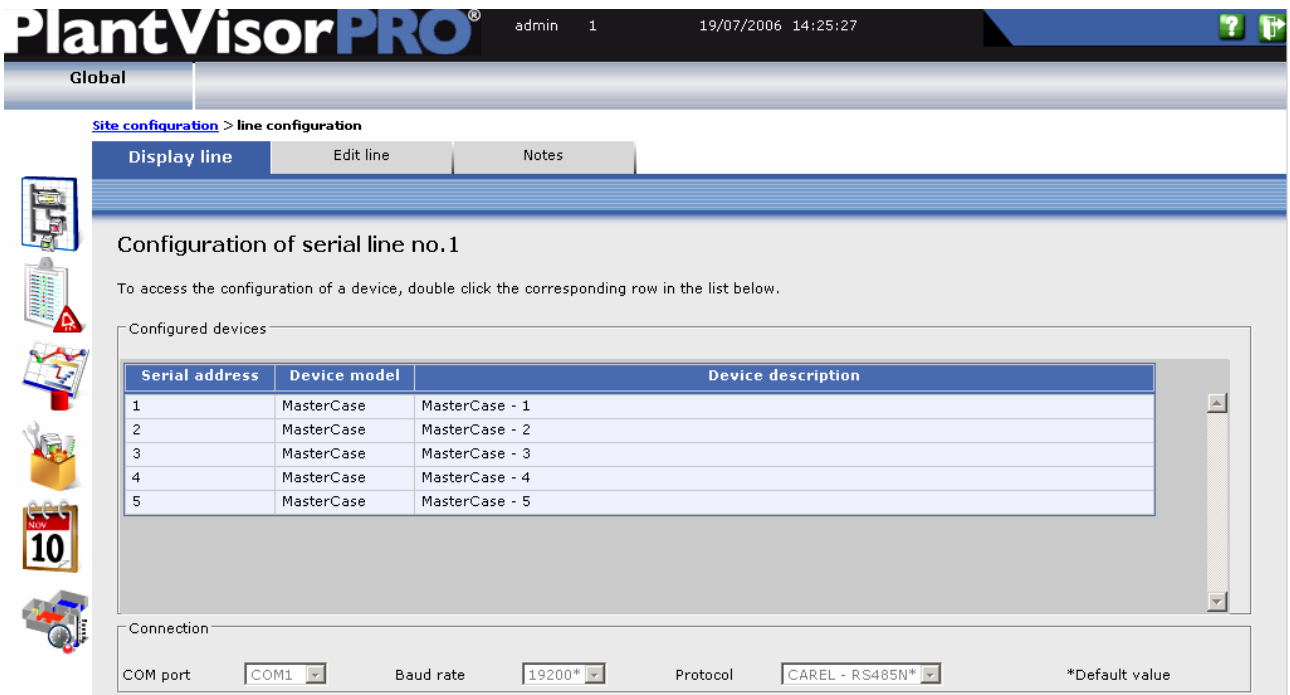
Serial address	Device description
1	MasterCase - 1
2	MasterCase - 2
3	MasterCase - 3
4	MasterCase - 4
5	MasterCase - 5
6	
7	
8	
9	
10	

By clicking on  the settings are saved and return to the "Site Configuration" page.

5.1.2 Modifying the settings of a device



In order to modify the settings of a device, select "Site Configuration" from the "Configuration" menu. Double click on the line to which the device belongs. The page containing line details will appear.



Double click on the device to be edited. , "device configuration" will be entered, accessing the modification description page.

The visualised descriptions and the various languages installed can be modified in the "Descriptions" section. Introduce the new supervisor default language into the "Default Description" field (set during the installation phase). Introduce the description of the device in the different languages into the "Multi-language description" table. The status of the device regarding the supervisor can be modified in the "Status" section. The "Disable device (the alarms will not be managed)" selection field allows to disable the device for the supervisor, i.e. the device will continue to function physically but the supervisor will signal it as disabled and will not show or manage any alarms. Typical application is when a refrigerator unit must be put into stand-by.


Click on  to save the settings.

Modifying alarm activation

To modify alarm activation click on the "Alarm Lists" tab. The following page will open:

Active	Description	Priority
<input checked="" type="checkbox"/>	Alarm high temperature virtual probe (HI)	Highest
<input checked="" type="checkbox"/>	Alarm low temperature virtual probe (LO)	Highest
<input checked="" type="checkbox"/>	Alarm case clean management	Highest
<input checked="" type="checkbox"/>	Defrost interrupted for timeout signalling	Highest
<input checked="" type="checkbox"/>	Valve driver LAN error	Highest
<input checked="" type="checkbox"/>	Alarm SH temperature probe	Highest
<input checked="" type="checkbox"/>	Alarm evaporation pressure probe	Highest
<input checked="" type="checkbox"/>	Alarm duty setting from digital input signalling	Highest
<input checked="" type="checkbox"/>	External delay alarm from dig input signalling	Highest
<input checked="" type="checkbox"/>	External alarm from dig input signalling	Highest
<input checked="" type="checkbox"/>	HACCP alarm (HA)	Highest
<input checked="" type="checkbox"/>	HACCP alarm (HF)	Highest

The "Alarm check frequency" field allows to decide how often the PlantVisorPRO will control if the device has at least one alarm active among those selected in the "Active" column. The alarm can be selected/unselected in this column.

Click on  to save the settings.

Modifying activation of the variables log archive

To enable/disable or modify the historicised of the variables click on the "Variables" tab. The following page will open.

Site configuration > line configuration > device configuration

Main Alarm variables **Variables** Descriptions list Main variables Notes

List of all variables that can be logged to HACCP standards and/or to monitor the operation of the installation.

Variable	HACCP	Log (Time - Variation)	Log
Serial address	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="radio"/> <input type="radio"/>	6 months
High temp alarm:indicates the max variation from the set-point	<input type="checkbox"/>	<input type="checkbox"/> <input type="radio"/> <input type="radio"/>	6 months
Low temp alarm:indicates the max variation from the set-point	<input type="checkbox"/>	<input type="checkbox"/> <input type="radio"/> <input type="radio"/>	6 months
Neutral zone	<input type="checkbox"/>	<input type="checkbox"/> <input type="radio"/> <input type="radio"/>	6 months
S1 probe calibration	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input type="radio"/> <input type="radio"/>	6 months
S3 probe calibration	<input type="checkbox"/>	<input type="checkbox"/> <input type="radio"/> <input type="radio"/>	6 months
S2 probe calibration	<input type="checkbox"/>	<input type="checkbox"/> <input type="radio"/> <input type="radio"/>	6 months
Start-up valve steps	<input type="checkbox"/>	<input type="checkbox"/> <input type="radio"/> <input type="radio"/>	6 months
Remote ir control code enabling	<input type="checkbox"/>	<input type="checkbox"/> <input type="radio"/> <input type="radio"/>	6 months
Digital input configuration DI 1	<input type="checkbox"/>	<input type="checkbox"/> <input type="radio"/> <input type="radio"/>	6 months

Log archive means the memorisation of a series of values in time of determined variables.

The "Variable" column indicates the description of the variable that can be historicised.

The "HACCP" column, if selected for an item, indicates that the variable will be historicised according to the indications of the regulation regarding HACCP (*EN 12830 "Temperature recorders for the transport, storage and distribution of chilled, frozen, deep-frozen/quick-frozen food and ice cream"*).

The default value is 30 minutes and cannot be modified.

The "Log" is used to activate the logging of the variables; once selected, this item will activate the "Log depth" columns, "Minimum variation" and "Frequency".

The "Log depth" column allows to select the duration in the log archive for each variable. Once all of the logging space, defined by the user, has been occupied, the oldest data is overwritten.

Log depth	
6 months	30
1 week	30
1 month	30
2 months	30
6 months	30
1 year	30

The "Frequency" column allows to select the interval of time at which the supervisor carries out sampling, for each variable.

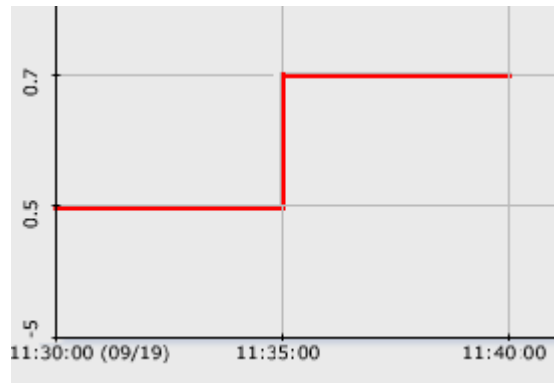
Frequency	Minim
300 sec.	0
300	0

The "Minimum variation" column indicates the level of definition of the curve on the graphics.

Click on  to save the settings.

Example:
If the configuration of a variable is set with:


- Depth: 1 month
- Minimum variation: 0.2
- Frequency: 5 minutes
- Start of logging: 19/09/2006 at 11.30
- The graphics will be the following



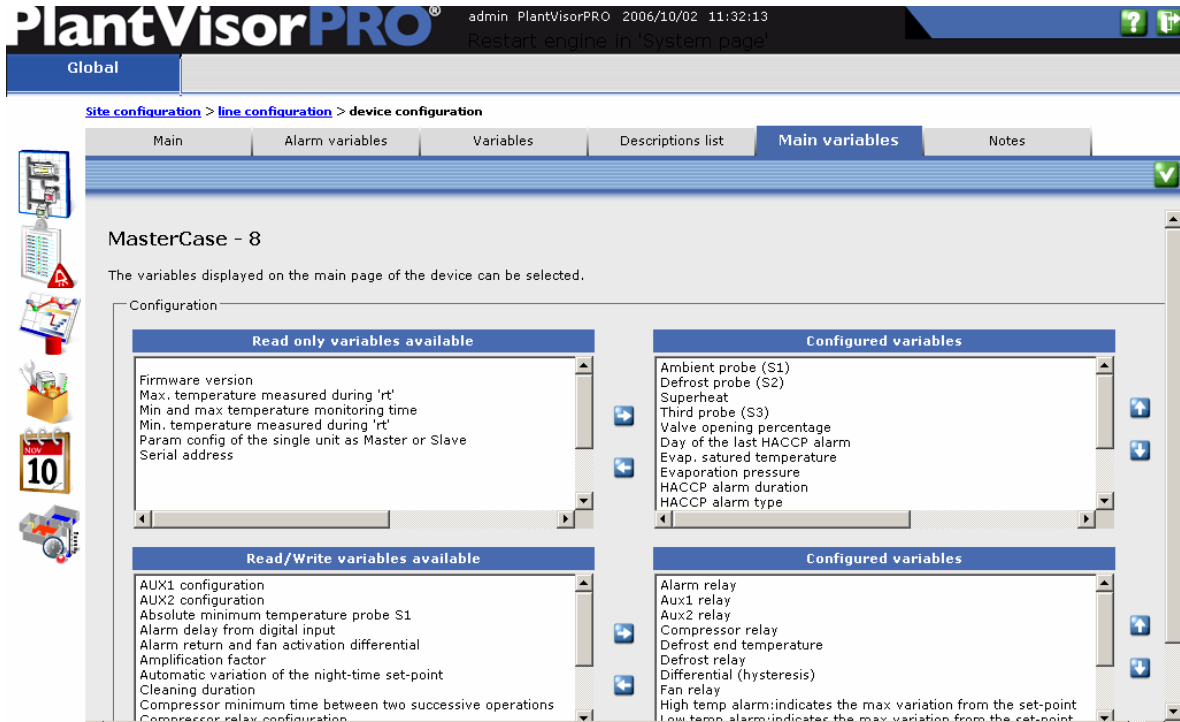
Modifying the description of the variables


It is possible to modify the description of the variables of a device. In order to do this click on the "Description List" tab. The following page will appear.


The table contains the descriptions of all variables. By double clicking on an item the "Description" section is filled giving the possibility to modify both the default language ("Default Description" field) and the other languages ("Multi-language description" table) eventually installed during setup of the supervisor.

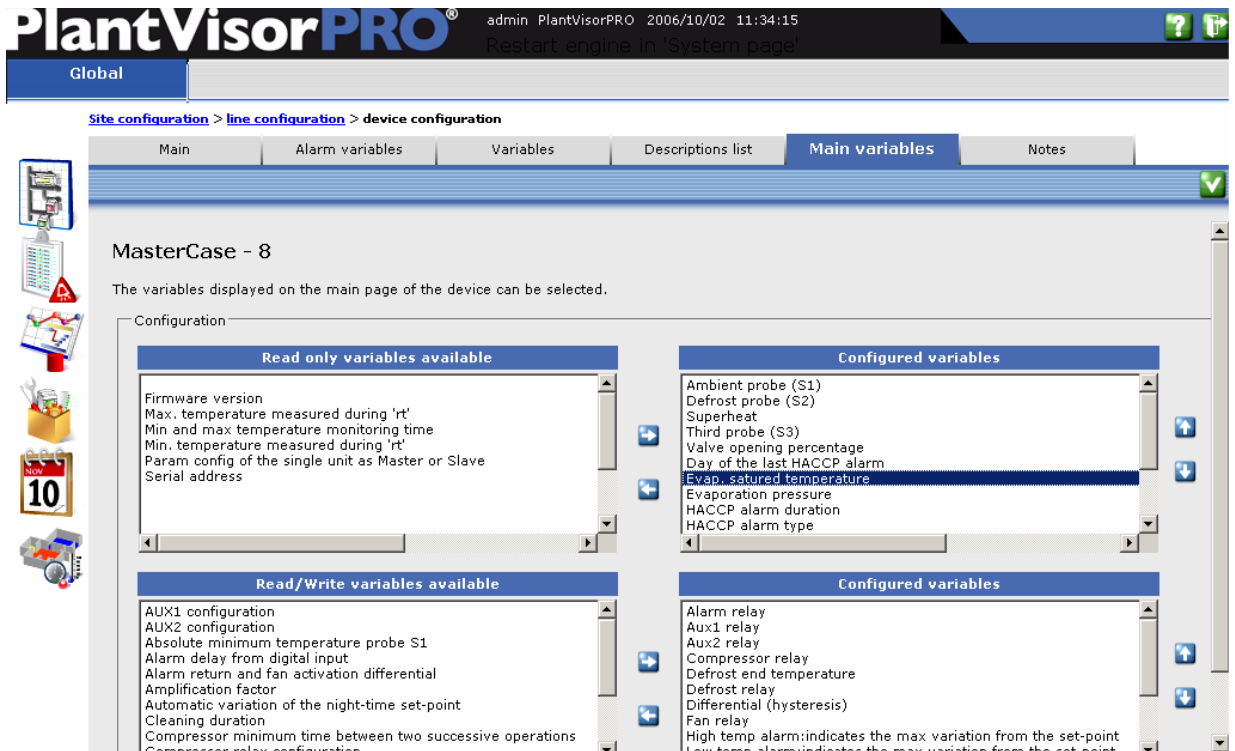
Click on  to save the modifications.


To set the variables to show on the main page of the device, select the "Main variables" tab. The following page will be visualised.




In the first list in the top left, the supervisor shows all of the variables available just in reading mode. Therefore select the variable of interest and click on .

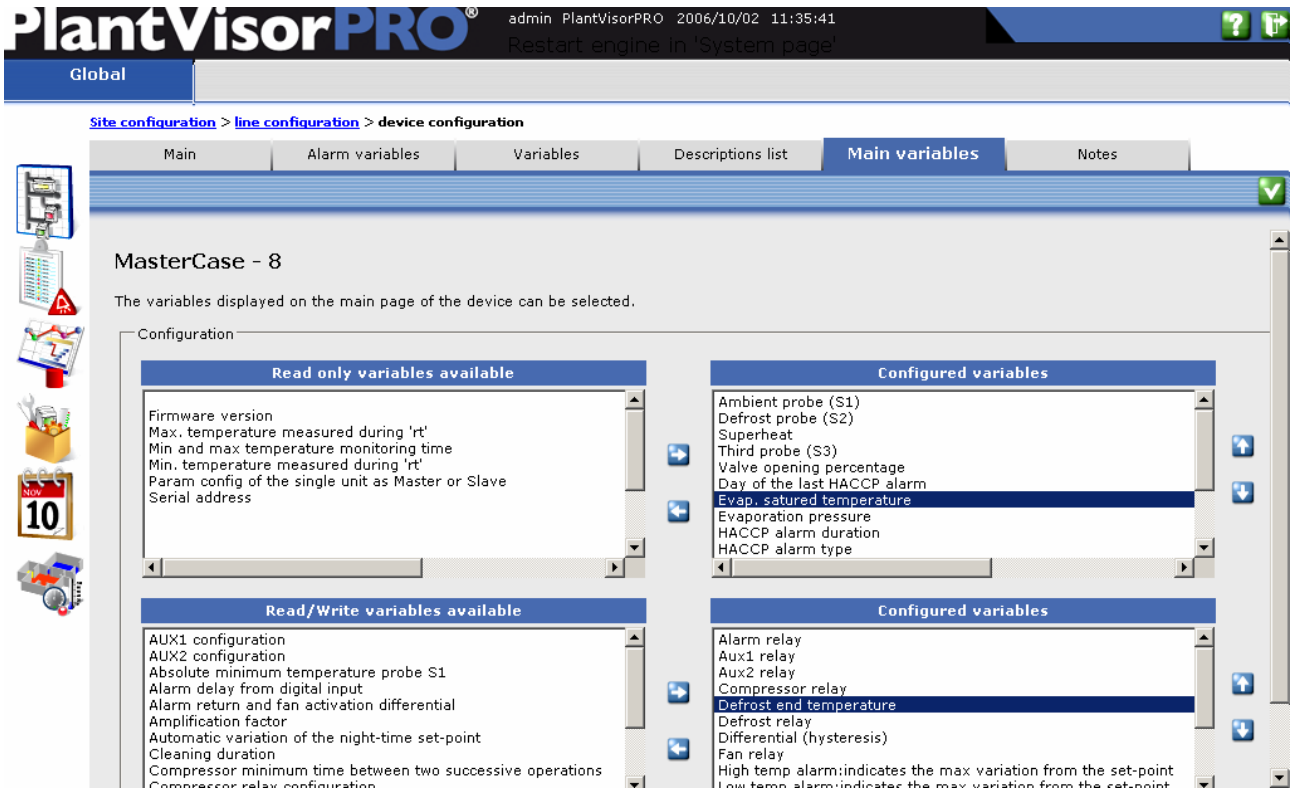
The list of the "configured variables" in the top right will fill up as a consequence. If an error is made during introduction, select the variable that is to be removed from visualisation in the main page from the list of configured variables. Click on .




In the first list in the top left, the supervisor shows all of the variables available in writing mode. Therefore select the variable of interest and click on .

The list of the "configured variables" in the top right will fill up as a consequence.

If an error is made during introduction, select the variable that is to be removed from visualisation in the main page from the list of configured variables. Click on .



Click on  to save the settings.

5.1.3 Deleting the devices in PlantVisorPRO



To configure the plant place the mouse arrow on the  icon. A menu will open. Select "Site configuration".

Double click on the line to be modified from the list of lines.

The following page will open

The screenshot shows the 'Display line' configuration page in PlantVisorPRO. The breadcrumb is 'Site configuration > line configuration'. The 'Display line' tab is selected. The page title is 'Configuration of serial line no. 1'. Below the title, there is a text instruction: 'To access the configuration of a device, double click the corresponding row in the list below.' A table titled 'Configured devices' contains the following data:

Serial address	Device model	Device description
1	MasterCase	MasterCase - 1
2	MasterCase	MasterCase - 2
3	MasterCase	MasterCase - 3
4	MasterCase	MasterCase - 4

Below the table, the 'Connection' section includes dropdown menus for 'COM port' (COM6), 'Baud rate' (19200*), and 'Protocol' (CAREL - RS485N*). A note '*Default value' is present.

Select the "Line Modification" tab.

The screenshot shows the 'Edit line' configuration page in PlantVisorPRO. The breadcrumb is 'Site configuration > line configuration'. The 'Edit line' tab is selected. The page title is 'Configuration of serial line no. 1'. Below the title, there is a text instruction: 'To add devices, select the serial address (or a range of addresses, to add more than one device of the same type), define the type of device connected, then click the image '->'. To remove devices from a line, select the address (or the range of addresses) and click the image 'x'. Then save the changes.' The 'Connection' section is identical to the previous page. The 'Devices' section includes a 'Device model' dropdown set to 'MasterCase2', and 'From address' and 'To address' dropdowns both set to '1'. A table titled 'Devices' contains the following data:

Serial address	Device description
1	MasterCase - 1
2	MasterCase - 2
3	MasterCase - 3
4	MasterCase - 4
5	MasterCase - 5
6	
7	
8	
9	
10	

A green checkmark icon is visible in the top right corner of the configuration area.

This page will function exactly like the introduction page of the devices in a line; therefore refer to the corresponding part in the previous chapter.

By clicking on  return to the "Configuration of the site" page, saving the settings.

5.2 Introduction of Notes

It is possible to introduce notes within this context, as well as in many other contexts inside the supervisor (e.g.: in the visualisation of areas and groups, in device details, in site configuration phases, in alarm details, in the details of an event, ...).
In order to introduce a note access the "Notes" tab. The following page is visualised:

The screenshot shows the PlantVisorPRO interface. At the top, the logo 'PlantVisorPRO' is displayed along with the user 'admin' and the date '2006/10/02 16:03:24'. Below the logo, there is a 'Global' tab. The main content area is titled 'Site configuration > line configuration' and has three tabs: 'Display line', 'Edit line', and 'Notes'. The 'Notes' tab is active. On the left side, there is a vertical toolbar with icons for a panel, a list, a warning, a graph, a folder, a calendar showing '10', and a device. The main area contains a table with the following columns: 'Enter date', 'Last update', 'User', and 'Note'. The table is currently empty. Below the table is a large text input field.

Introduce the phrase that identifies the note to be inserted into the "Note" field.

To memorise the note just introduced click on the  key.

The note will be memorised with the date and time of introduction and the author.

The screenshot shows the PlantVisorPRO interface after a note has been added. The top bar shows 'PlantVisorPRO' and 'admin PlantVisorPRO 2006/10/02 18:13:00'. The 'Global' tab is still selected. The main content area is titled 'Site configuration > line configuration' and has three tabs: 'Display line', 'Edit line', and 'Notes'. The 'Notes' tab is active. On the left side, there is a vertical toolbar with icons for a panel, a list, a warning, a graph, a folder, a calendar showing '10', and a device. The main area contains a table with the following columns: 'Enter date', 'Last update', 'User', and 'Note'. The table now contains one row of data:

Enter date	Last update	User	Note
2006/10/02 05:12	2006/10/02 05:12	admin	New Devices


Below the table is a large text input field.

By clicking on a note in the notes list:

The screenshot shows the PlantVisorPRO interface. At the top, the logo "PlantVisorPRO" is displayed along with the user "admin" and the time "2006/10/02 18:13:53". Below the logo is a "Global" menu. The main content area is titled "Site configuration > line configuration" and has three tabs: "Display line", "Edit line", and "Notes". The "Notes" tab is active, showing a table with two entries:

Enter date	Last update	User	Note
2006/10/02 05:12	2006/10/02 05:12	admin	New Devices
2006/10/02 05:13	2006/10/02 05:13	admin	Modify Devices

Below the table is a text input field containing the text "Modify Devices". On the left side of the interface, there is a vertical toolbar with several icons, including a calendar icon showing the date "10".

and clicking on  the selected note is deleted.

The screenshot shows the PlantVisorPRO interface after a note has been deleted. The top header and "Global" menu are the same. The "Notes" tab is still active, but the table now only contains one entry:

Enter date	Last update	User	Note
2006/10/02 05:12	2006/10/02 05:12	admin	New Devices

The text input field below the table is now empty. The vertical toolbar on the left remains the same.

Click on  to save the modifications carried out.

5.3 PlantVisorPRO logic variables

5.3.1 Creating logic variables



To create a logic variable place the mouse arrow on the icon. A menu will appear. Select "Creation of logic devices". Select the "Logic variables" tab.

The screenshot shows the PlantVisorPRO software interface. At the top, there is a header bar with the logo 'PlantVisorPRO' and the text 'admin PlantVisorPRO 2006/10/03 10:40:51'. Below the header, there is a navigation bar with 'Global' and 'Logical device creation'. The 'Logical device creation' window has two tabs: 'Logical devices' and 'Logical variables', with the latter being selected. The main area of the window contains a text box with the instruction: 'To create a logical variable enter the description, then choose the type, the operation to be performed and the variables involved in such operation from those available in the installation.' Below this is a table with two columns: 'Description' and 'Type'. Underneath the table, there is a 'Variable' section with a 'Description' field containing 'Logical Variable'. The 'Type' section has three radio buttons: 'integer' (selected), 'analogue', and 'digital'. There is a 'Unit of measure' dropdown menu and an 'operation' dropdown menu with a '+' sign. Below these are two tables: 'List of variables' and 'Associated variables'. The 'List of variables' table has columns 'Variable' and 'Device' and lists several digital input types. The 'Associated variables' table also has columns 'Variable' and 'Device' and is currently empty.

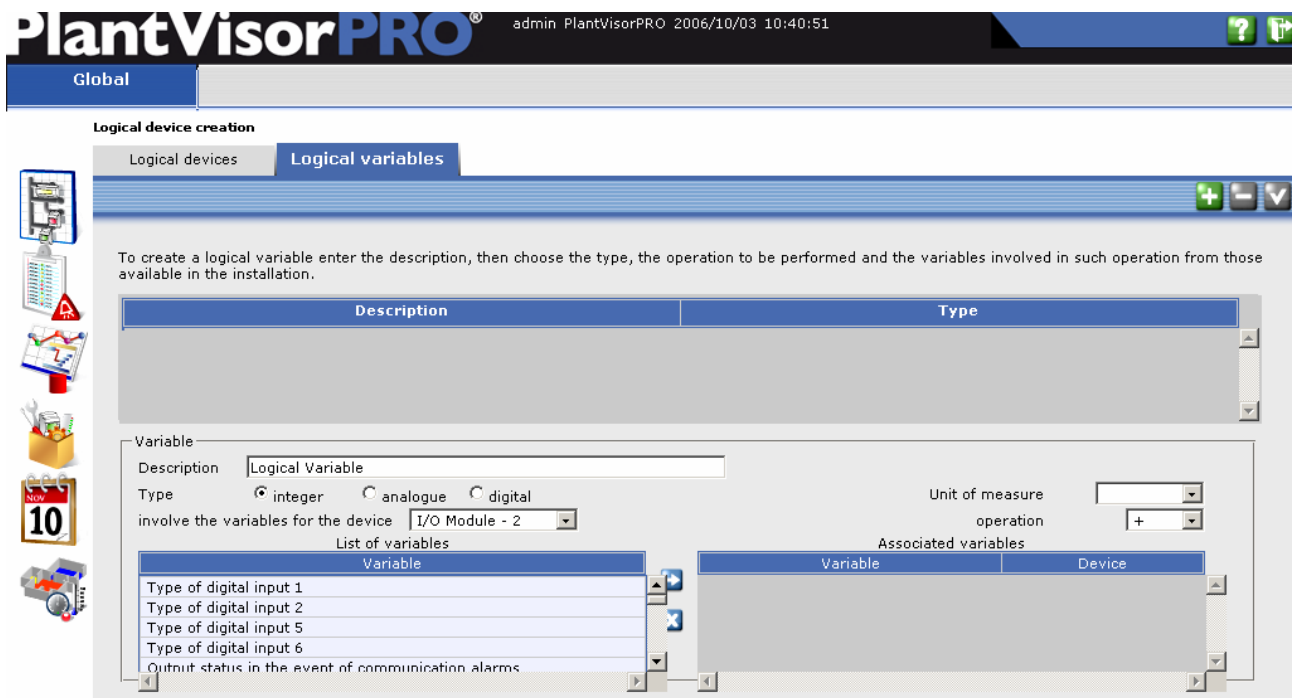
Introduce the mnemonic description of the variable to be created in the description field

Select the type of variable to be created:

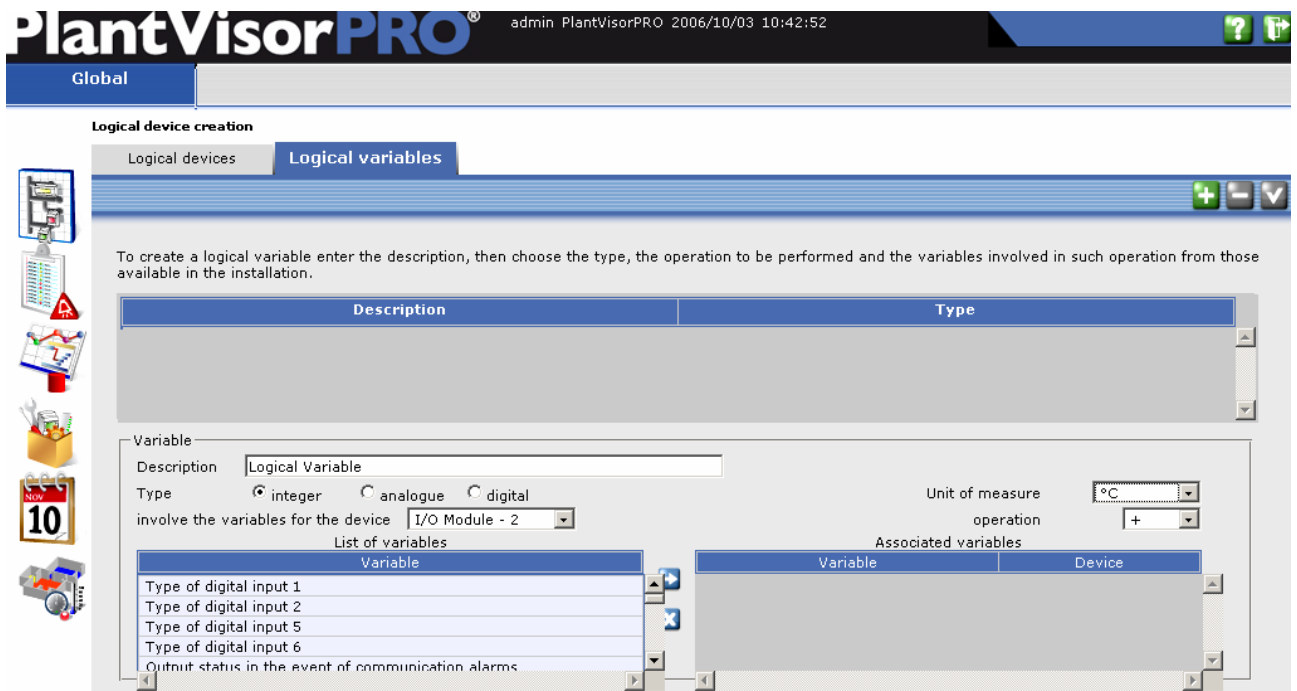
- Entire : There can be operations between entire variables, between entire and analogical, between analogicals
- Analogical : There can be operations between entire variables, between entire and analogical, between analogicals
- Digital : Only physical device digital type variables operations
-


Note: Selectable variables can only be from physical devices.

Select the device from which the variables to be involved in the “involve the device variables” field are to be imported.



Select the unit of measurement if necessary for this variable and the operation that must be carried out between the variables in the respective “Unit of measurement” and “operation” fields.



Finally, select the desired variable from the “variables”
Then click on  and the “associated variables” table will fill with the selected values.

Logical device creation

Logical devices Logical variables

To create a logical variable enter the description, then choose the type, the operation to be performed and the variables involved in such operation from those available in the installation.

Description	Type

Variable

Description: Logical Variable


Type: integer analogue digital


Unit of measure: °C

involve the variables for the device: I/O Module - 2

operation: +

List of variables		Associated variables	
Variable		Variable	Device
Number of probes present		High value probe 3 (only valid for models 2/3/4/5)	I/O Module - 2
High value probe 3 (only valid for models 2/3/4/5)		Low value probe 3 (only valid for models 2/3/4/5)	
Low value probe 3 (only valid for models 2/3/4/5)		High value probe 4 (only valid for models 2/3/4/5)	
High value probe 4 (only valid for models 2/3/4/5)		Low value probe 4 (only valid for models 2/3/4/5)	
Low value probe 4 (only valid for models 2/3/4/5)			

If an error is made during introduction, select the variable that has been wrongly introduced into the "associated variables" table and click on . It will be deleted from the list.

Click on  to save the settings.

5.3.2 Modifying logic variables



To modify a logic variable place the mouse arrow on the  icon. A menu will appear. Select "Creation of logic devices". Select the "Logic variables" tab.

Logical device creation

Logical devices Logical variables

To create a logical variable enter the description, then choose the type, the operation to be performed and the variables involved in such operation from those available in the installation.

Description	Type
Logical Variable	integer

Variable

Description:

Type: integer analogue digital

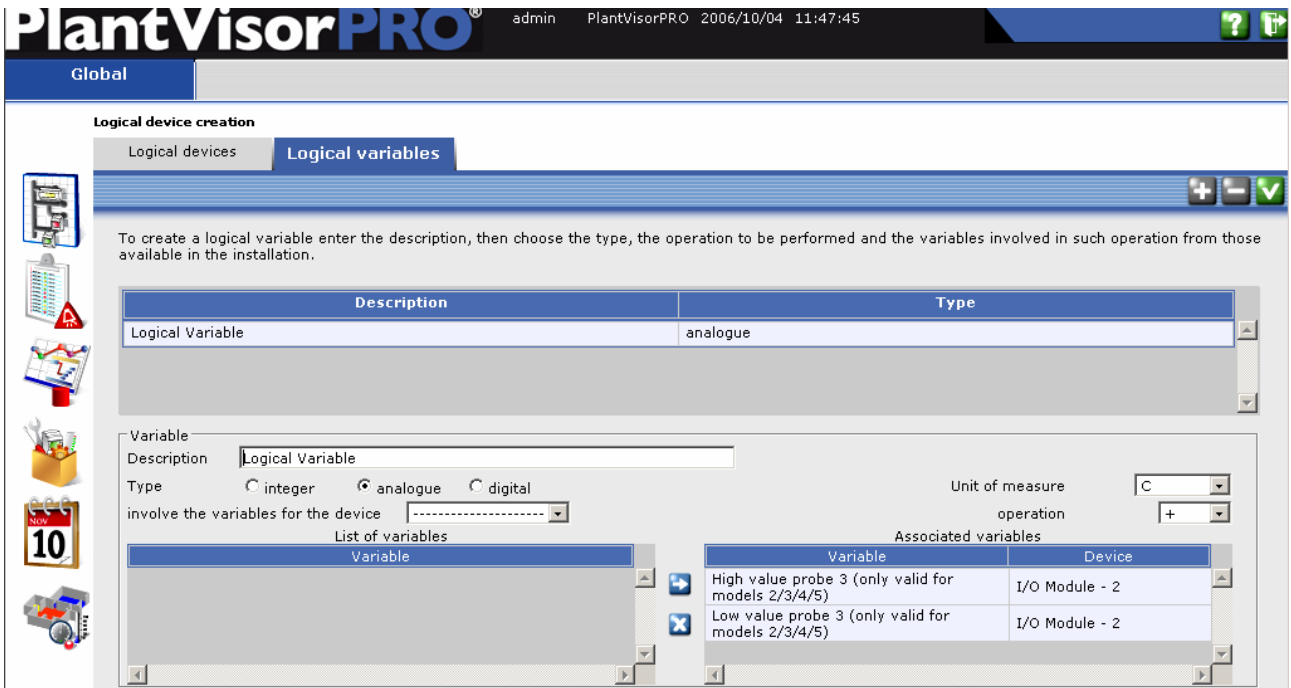
Unit of measure:

involve the variables for the device:


operation: +

List of variables		Associated variables	
Variable		Variable	Device

Double click on the variable to be modified.



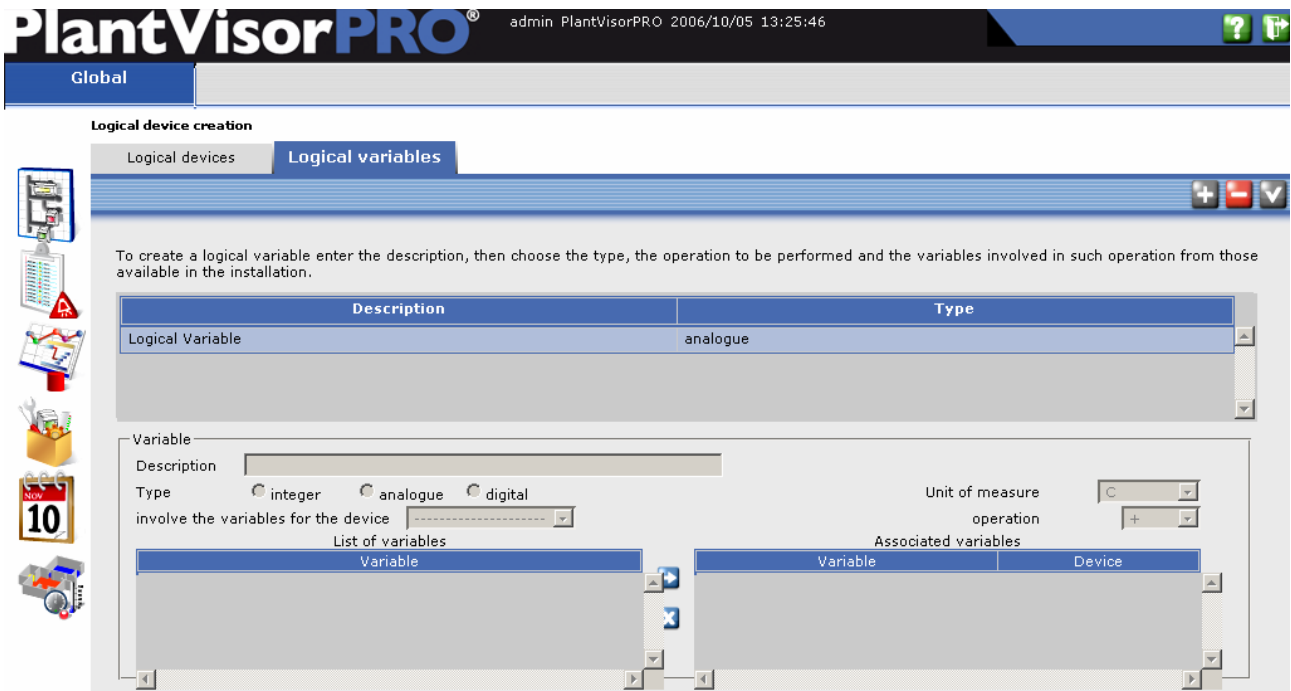
Modify the fields as described in the previous charter.

By clicking on  the settings will be saved

5.3.3 Deleting logic variables



To delete a logic variable place the mouse arrow on the  icon. A menu will open. Select "Creation of logic devices". Select the "Logic variables" tab.



Select the variable to be deleted from the list.

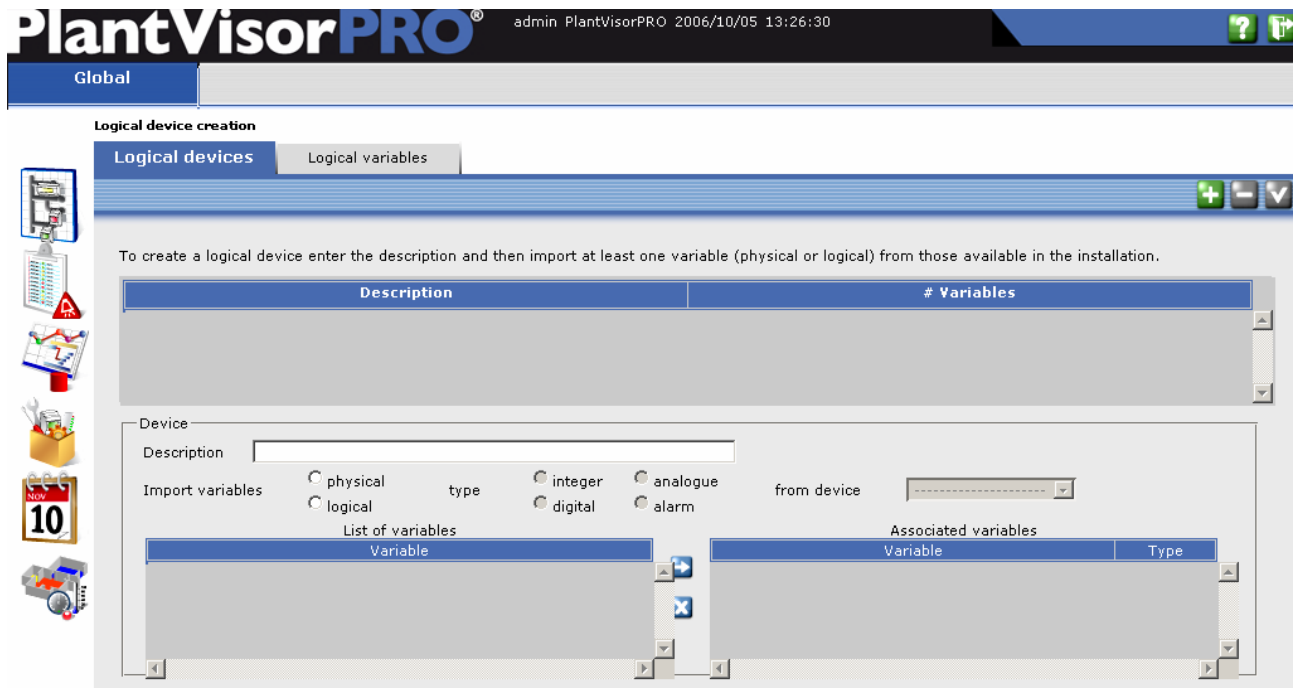
By clicking on  the selected variable will be deleted.

5.4 PlantVisorPRO logic devices

5.4.1 Creating logic devices



To create a logic device place the mouse arrow on the icon. A menu will appear. Select "Creation of logic devices".



Introduce a mnemonic description of the logic device into the "Descriptions" field.


Now it is necessary to import the variables. Select the "logics" field if previously-created logic variables must be introduced, or select the "physicals" field if the variables of a physical device are to be introduced.

If the "physicals" field has been selected, select the device from which to extract the variable by means of the "from the device" field.

Select the type of variable to be introduced into this "entire" / "digital" / "analogical" / "alarms" logic device.

Finally, select the desired variable from the "variables" table

Click on  and the "associated variables" table will fill with the selected values.

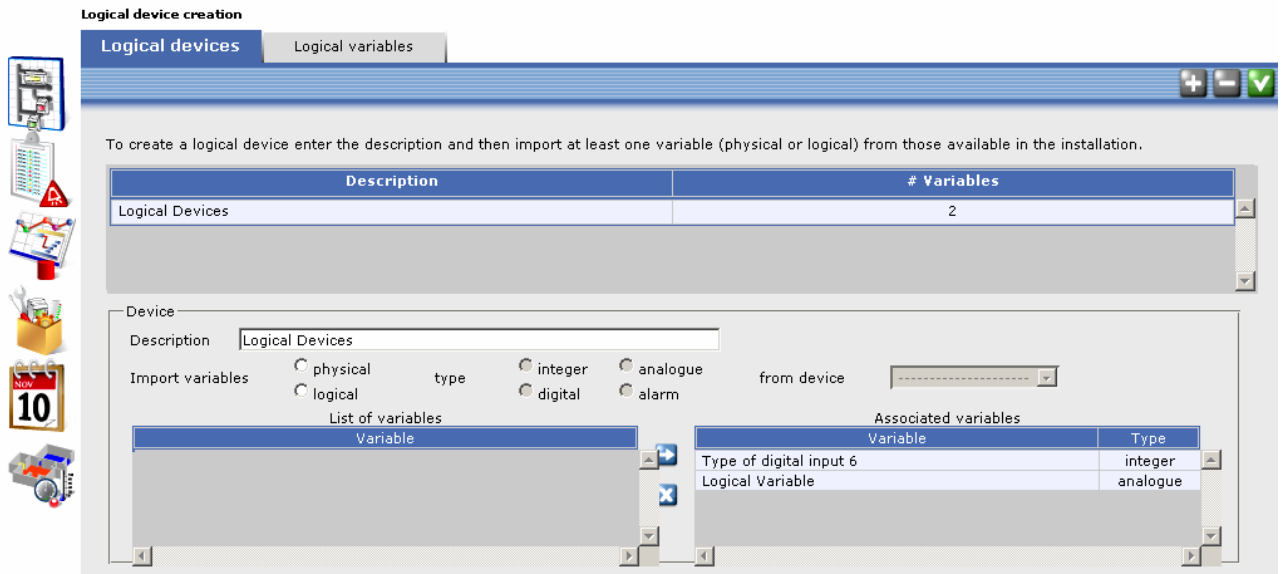
If an error is made during introduction, select the wrongly introduced variable in the "associated variables" table and click on . It will be deleted from the list.

Click on  to save the settings.


5.4.2 Modifying logic devices



To modify a logic device place the mouse arrow on the icon. A menu will appear. Select "Creation of logic devices". Double click on the device to be modified.




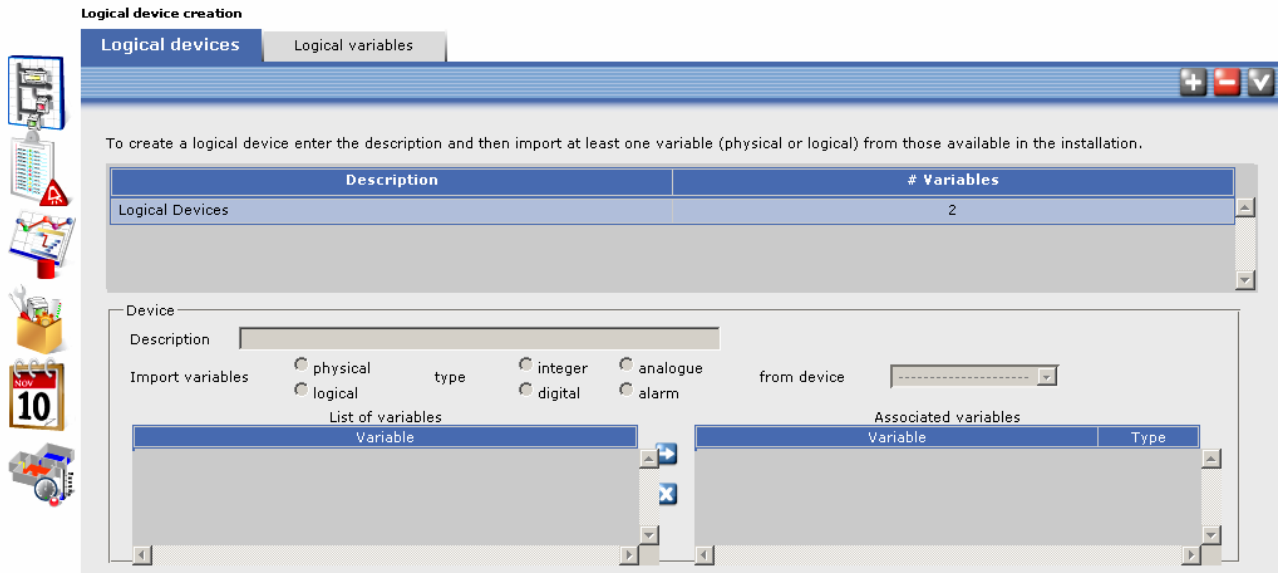
Modify the fields as described in the previous chapter.


By clicking on  the settings will be saved.

5.4.3 Deleting logic devices



To delete a logic device place the mouse arrow on the  icon. A menu will appear. Select "Creation of logic devices". Click on the device to delete it.



By clicking on  the selected device is deleted.

5.5 Device management
 5.5.1 Visualisation of the list of devices

The screenshot shows the PlantVisorPRO web interface. At the top, the user is logged in as 'admin' on '2006/10/05 13:29:24'. The page title is 'Global'. Below the title bar, there are navigation tabs: 'Main', 'Parameters', 'Alarms', 'HACCP graph', 'Log graph', 'Conf Graph', and 'Notes'. The 'Main' tab is active. On the left side, there is a vertical menu with several icons, including a calendar showing '10'.

The main content area is divided into two sections:

Devices

Status	Description	Variable1	Variable2
●	IR 33 - C - 1	Probe 2 value *** °C/°F	Virtual probe *** °C/°F
●	I/O Module - 2	Probe 1 *** °C/°F	Probe 2 *** °C/°F
●	uRack (MRK) - 3	Probe B2 *** °C/°F	Probe B3 *** °C/°F
●	Logical Devices		

Alarms

Date Time	Device	Description	Ack	Area	Group
2006/10/04 10:14:12	I/O Module - 2	No connection			
2006/10/04 10:14:12	IR 33 - C - 1	no connection			
2006/10/04 10:14:12	uRack (MRK) - 3	No connection			



This page is accessed on entry to the system or by clicking on the Groups icon in the lateral menu and selecting the "Global" item.

The screenshot shows the 'GROUPS' page in the PlantVisorPRO interface. The page title is 'GROUPS'. Below the title, there is a list of groups:

- Global
- Group 1

5.5.2 Visualisation of a specific device

The screenshot shows the PlantVisorPRO main interface. At the top, the title bar reads 'PlantVisorPRO' with the user 'admin' and the date '2006/10/05 16:29:14'. Below the title bar, there is a 'Global' menu and a navigation bar with tabs for 'Main', 'Parameters', 'Alarms', 'HACCP graph', 'Log graph', 'Conf Graph', and 'Notes'. The 'Main' tab is selected, displaying a 'Devices' table and an 'Alarms' table.

Status	Description	Variable1	Variable2	Variable3	Variable4
●	IR 33 - C - 1	Probe 2 value	Virtual probe	*** °C/°F	*** °C/°F
●	I/O Module - 2	Probe 1	Probe 2	*** °C/°F	Probe 3
●	uRack (MRK) - 3	Probe B2	Probe B3	*** °C/°F	Probe B4
●	MasterCase - 4	Ambient probe (S1)	Defrost probe (S2)	*** °C	Superhe
●	MasterCase - 5	Ambient probe (S1)	Defrost probe (S2)	*** °C	Superhe
●	Logical Devices				

Date Time	Device	Description	Ack	Area	Group
2006/10/05 14:45:41	I/O Module - 2	No connection			Group 1
2006/10/05 14:45:41	IR 33 - C - 1	no connection			
2006/10/05 14:45:41	uRack (MRK) - 3	No connection			Group 1

To visualise the features of a device configured in PlantVisorPRO, select the device from the list and double click the selected item.

The main page regarding the details of the device will appear.

The screenshot shows the 'device detail' page for 'MasterCase - 4'. The title bar reads 'PlantVisorPRO' with the user 'admin' and the date '2006/10/05 16:29:52'. Below the title bar, there is a 'Global' menu and a navigation bar with tabs for 'Main', 'Parameters', 'Alarms', 'HACCP graph', 'Log graph', 'Graph conf.', and 'Notes'. The 'Main' tab is selected, displaying the 'MasterCase - 4' details.

MasterCase - 4

Description	Code	Value
Day of the last HACCP alarm [day]	t0	***
Evap. saturated temperature [°C]	Po4	***
HACCP alarm duration [Hours]	tE	***
Hour of the last HACCP alarm [Hours]	tH	***
Max temp sensed during HACCP alarm [°C]	tt	***
Minute of the last HACCP alarm [min]	tM	***
On/off status of the instrument	On/Off	***
Regulation temperature [°C]		***
Superheat Temperature Sensor [°C]	Po3	***

Date Time	Device	Description	Ack	Area	Group
-----------	--------	-------------	-----	------	-------

5.5.3 Setting parameters

In order to set the parameters of a device select the "Parameters" tab; the following page will be visualised


The screenshot shows the PlantVisorPRO interface with the "Parameters" tab selected. The page title is "Global > device detail" and the device is "MasterCase - 4". The table lists parameters that can be set via serial communication, categorized into "general" and "Alarm and digital inputs configuration".

Value	New	U.M.	Code	Description
general				
***				Enabling output manual management
***			Alarm	Alarm relay
***			Aux1	Aux1 relay
***			Aux2	Aux2 relay
***			Comp	Compressor relay
***			Def	Defrost relay
***			Fan	Fan relay
***			Light	Light relay
Alarm and digital inputs configuration				
***		°C	A0	Alarm return and fan activation differential
***			A1	Digital input configuration DI 1
***			A2	Digital input configuration DI 2
***			A3	Digital input configuration DI 3

Set the parameters to be changed in the respective text boxes.

The screenshot shows the PlantVisorPRO interface with the "Parameters" tab selected. The page title is "Global > device detail" and the device is "MasterCase - 4". The table lists parameters that can be set via serial communication, categorized into "Alarm and digital inputs configuration" and "Configuration parameters".

Value	New	U.M.	Code	Description
***			A2	Digital input configuration DI 2
***			A3	Digital input configuration DI 3
***			A4	Digital input configuration DI 4
***			A5	Digital input configuration DI 5
***		min	A7	Alarm delay from digital input
***			A8	Virtual digital input configuration
***		°C	AH	High temp alarm:indicates the max variation from the set-point
***	10	°C	AL	Low temp alarm:indicates the max variation from the set-point
***		min	Ad	Temperature alarm delay
***			Ar	Enable Slave remote alarm signal on Master
Configuration parameters				
***			H1	Remote ir control enabling
***			H2	Remote ir control code enabling
***			H3	Enabling ON/OFF from keyboard

The by clicking on  the settings will be sent o the device.

5.6 Groups

The groups are device logic groupings.
Group variables can be created with the groups.


The groups are useful for the identification of:

- A set of devices that have the same features (E.g.: they are all IRmpx)
- A set of devices with the same type of preserved product (e.g.: "dairy product counter", "fruit and vegetables", "frozen food islands")

The advantages of using the groups are given by the immediacy of the information visualised and the possibility to create different management for each.

5.6.1 Creating a group



To create a group click on  and select "Logic groups". The page will open.

The screenshot shows the PlantVisorPRO web interface. At the top, there is a header with the logo and user information: "admin PlantVisorPRO 2006/10/05 16:33:49". Below the header, there is a navigation bar with "Global" and "Logical groups" tabs. The "Logical groups" tab is active, and it contains a sub-tab for "Groups list" and a "New group" button. The main content area displays a table with two columns: "Group" and "Area". The table is currently empty. To the left of the table, there is a vertical sidebar with several icons, including a calendar icon showing "NOV 10".

admin PlantVisorPRO 2006/10/05 16:33:49
Restart engine in 'System page'

Global

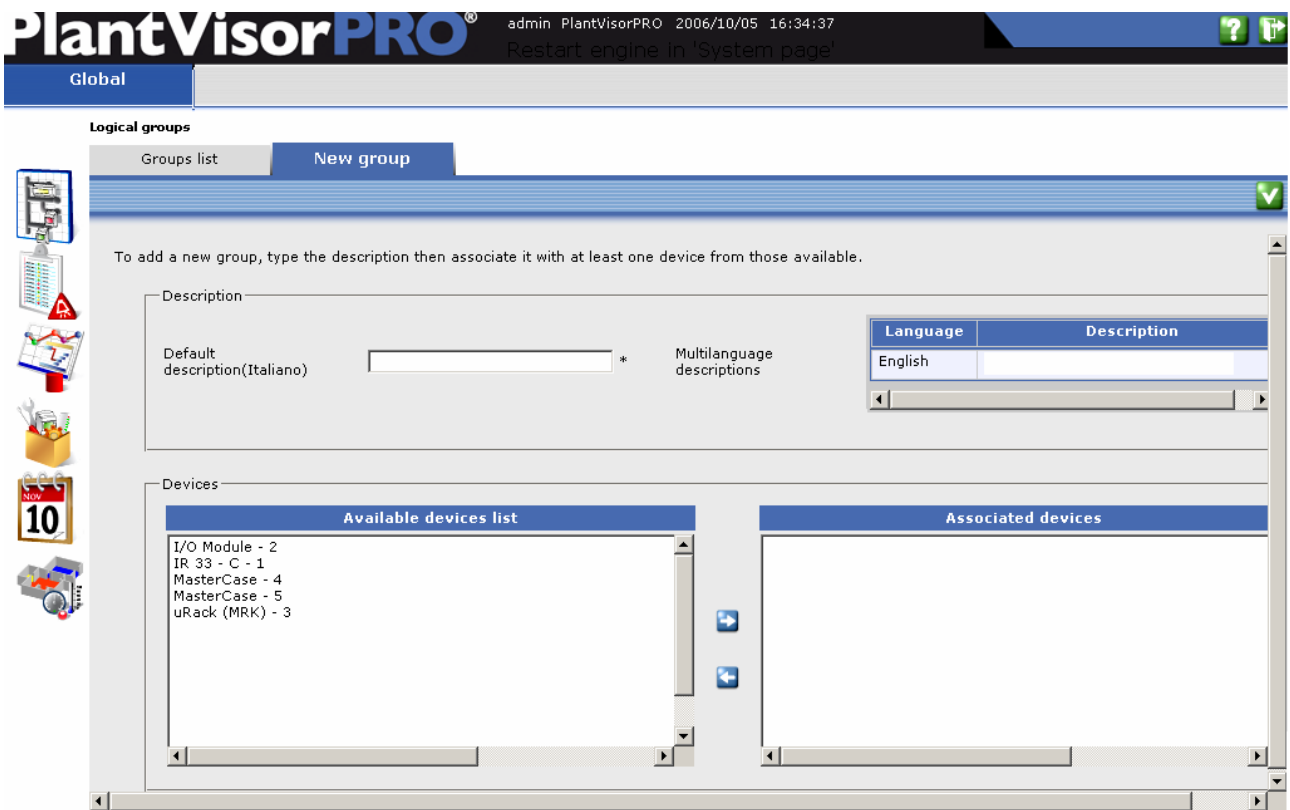
Logical groups

Groups list New group


To edit a configured group double click the corresponding row in the list below.
To remove a group, select the row in the list below and then click the image '-'

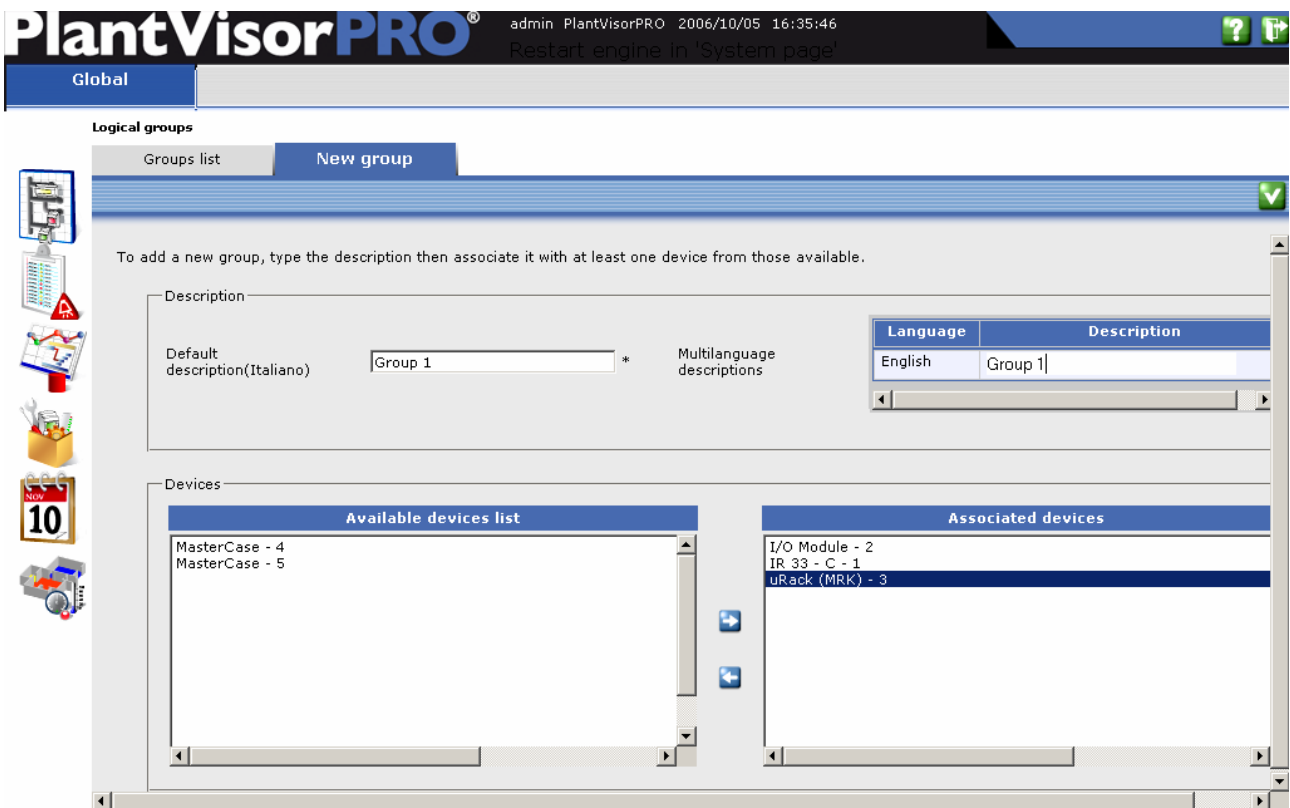
Group	Area
-------	------

Click on the "New Group" tab and the following page will appear.



Introduce the "Default description" into the "Descriptions" section according to the default language set on installation. Introduce the "Multi-language descriptions" according to the set languages.

Select at least one device from the "Devices" section to introduce into the group. Click on  and the devices will be introduced into the list of "Associated devices"



Click on  to save the settings.

5.6.2 Modifying a group



To modify a group click on and select "Logic groups". The following page will open.

PlantVisorPRO[®] admin PlantVisorPRO 2006/10/05 16:36:52
Restart engine in 'System page'

Global

Logical groups

Groups list New group

To edit a configured group double click the corresponding row in the list below.
To remove a group, select the row in the list below and then click the image '-'

Group	Area
Group 1	

Double click on the row that identifies the group to be modified in the list of groups. The following page will appear.

PlantVisorPRO[®] admin PlantVisorPRO 2006/10/05 16:37:35
Restart engine in 'System page'

Global

Logical groups > edit group

Group detail Group variables Notes

Description



Default description(Italiano) * Multilanguage descriptions

Language	Description
English	Group 1

Devices

Available devices list	Associated devices
MasterCase - 4 MasterCase - 5	I/O Module - 2 IR 33 - C - 1 uRack (MRK) - 3

In this page it is possible to modify both the description of the default language and the multi-language description.

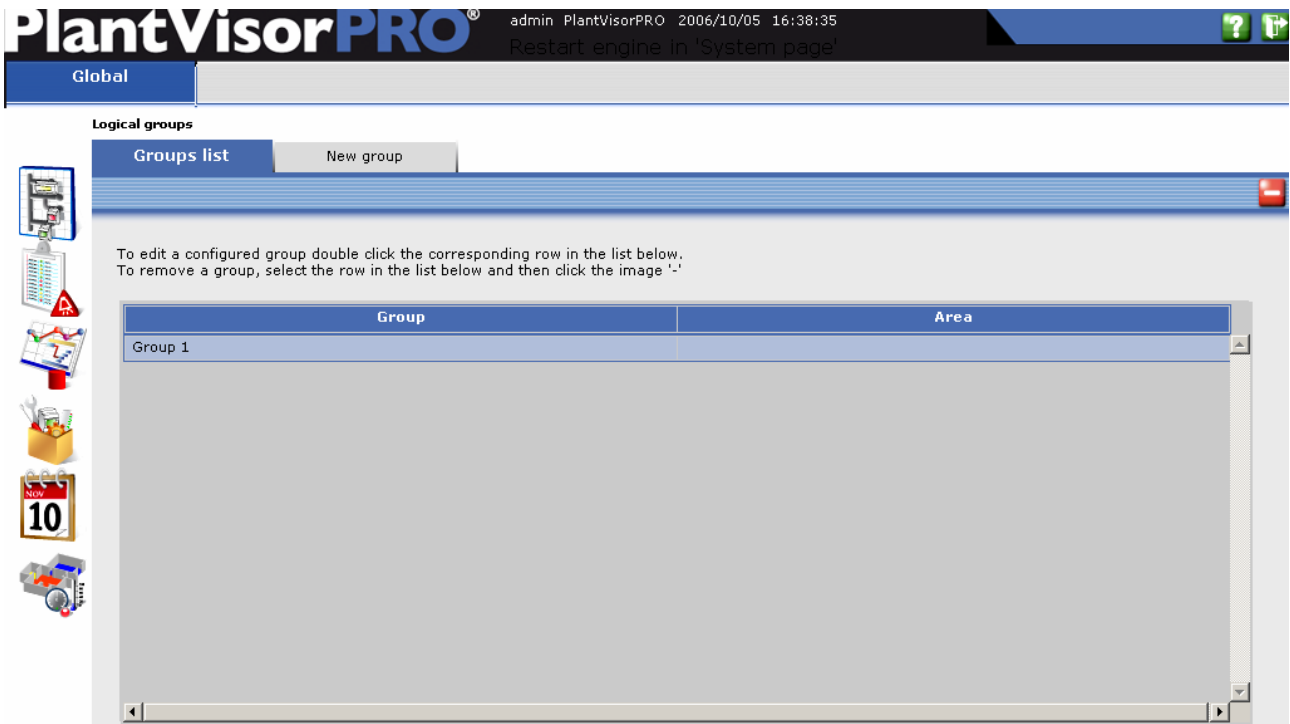
Using the  and  keys it is also possible to introduce or delete devices from this group.

Once the modifications have been carried out, click on  to save them.

5.6.3 Deleting a group



To delete a group click on  and select "Logic groups". The following page will open.



PlantVisorPRO[®] admin PlantVisorPRO 2006/10/05 16:38:35
Restart engine in 'System page'


Global

Logical groups

Groups list New group

To edit a configured group double click the corresponding row in the list below.
To remove a group, select the row in the list below and then click the image '-'

Group	Area
Group 1	





Select the row that identifies the group to be deleted in the list of groups and then click on .

Note: To delete a group it is also possible to eliminate all of its devices: the system automatically deletes all groups that do not contain devices.

5.6.4 Visualisation of groups



To visualise the list of groups present in the PlantVisorPRO take the mouse arrow above the  icon and the list of groups present will appear.



GROUPS

Global

Group 1

Select the pre-selected group and only the devices belonging to that group will be visualised.

The screenshot shows the PlantVisorPRO interface with the 'Global' group selected. The 'Main' tab is active, displaying a 'Devices' table and an 'Alarms' table.

Status	Description	Variable1	Variable2
●	IR 33 - C - 1	Probe 2 value	Virtual probe
●	I/O Module - 2	Probe 1	Probe 2
●	uRack (MRK) - 3	Probe B2	Probe B3

Date Time	Device	Description	Ack	Area	Group
2006/10/05 14:45:41	I/O Module - 2	No connection			Group 1
2006/10/05 14:45:41	IR 33 - C - 1	no connection			Group 1
2006/10/05 14:45:41	uRack (MRK) - 3	No connection			Group 1

The "Global" group contains all devices of all groups.

5.7 Areas

The areas are logical groupings of groups and/or devices.

In the case of refrigeration plant supervision in a supermarket, areas can be created in order to identify devices and/or groups that have affinities. For example the Low and High Temperature devices will be collected in groups ("dairy product counters", "fruit and vegetables", "frozen food islands"), the set of groups can be introduced according to the type in an area: "user BT" or "User TN".

5.7.1 Creating an area

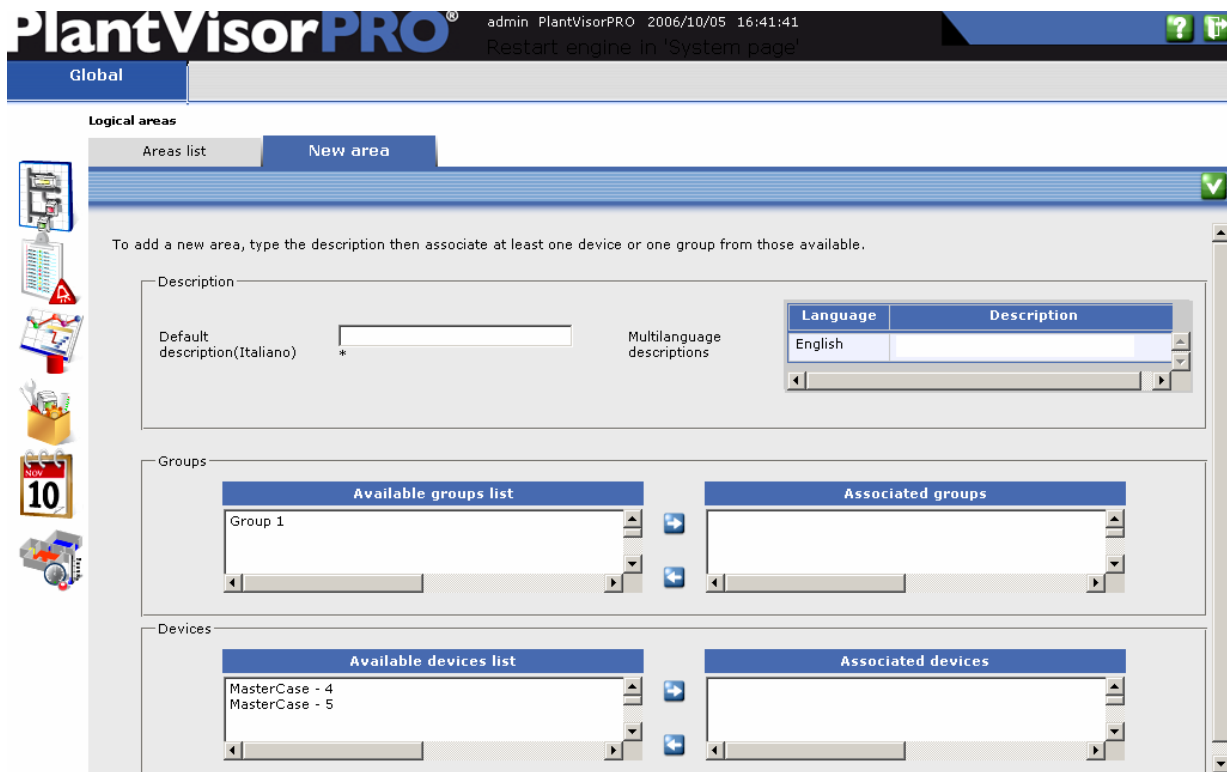


To create an Area click on  and select "Logic areas". The following page will open.

The screenshot shows the PlantVisorPRO interface with the 'Logical areas' configuration page. The 'Areas list' tab is active, displaying a table for managing areas.

Area	Associated groups	Associated devices
------	-------------------	--------------------

Select the "New Area" tab and the following page will open

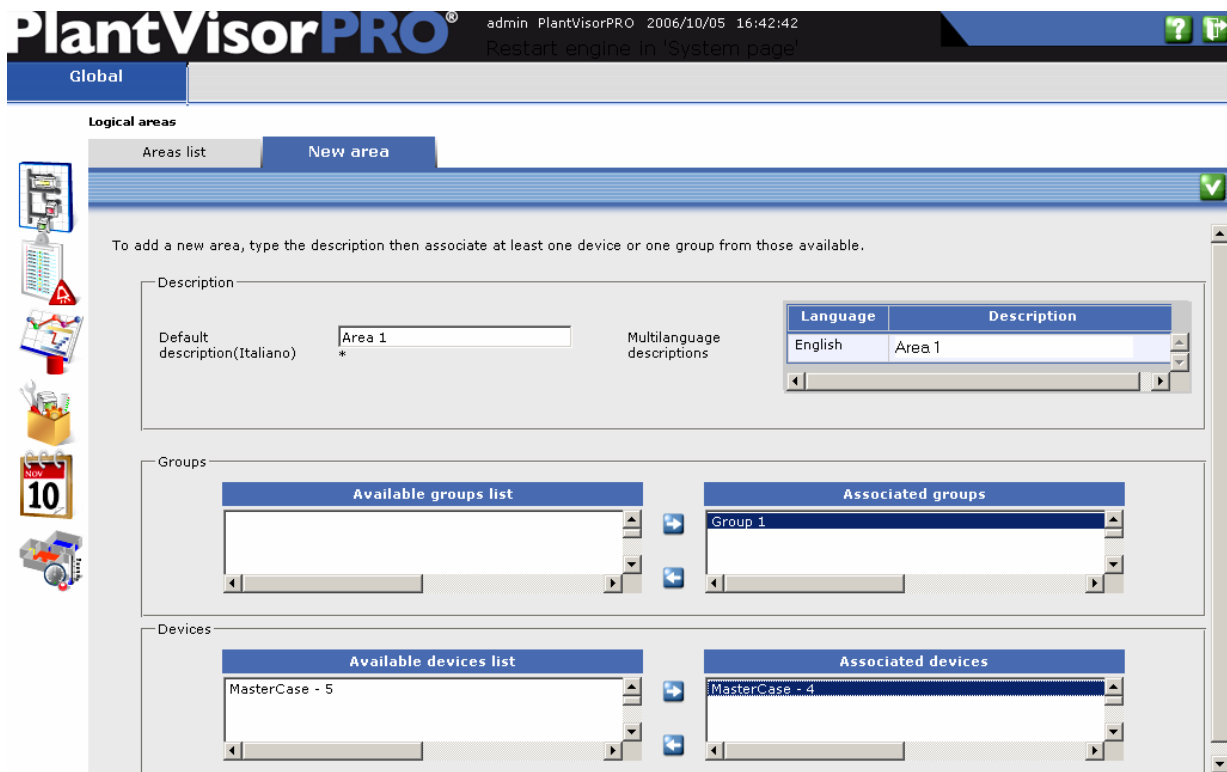


Introduce the "Default description" into the "Description" section according to the default language set on installation. Introduce the "Multi-language descriptions" according to the languages set.

From the "Groups" section, select the groups to be introduced and click on  and the groups will be introduced into the "Associated groups" list.

From the devices section, select the devices to be selected into the area, then click on  and the devices will be introduced into the "Associated devices" list

In order to create a new area it is necessary to introduce the default description and then associate at least on device or group from those available.



Click on  to save the settings.

5.7.2 Modifying an area



To modify an area click on  and select "Logic areas". The following page will open.

PlantVisorPRO admin PlantVisorPRO 2006/10/05 16:43:22
Restart engine in 'System page'

Global

Logical areas

Areas list New area

To edit a configured area double click the corresponding row in the list below.
To remove an area, select the row in the list below and then click the image '-'

Area	Associated groups	Associated devices
Area 1	Group 1	MasterCase - 4

Double click on the row that identifies the area to be modified in the list of groups. The following page will be visualised.

PlantVisorPRO admin PlantVisorPRO 2006/10/05 16:43:58
Restart engine in 'System page'

Global

Logical areas > edit area

Area detail Notes

Both the description of the area and the lists of devices and/or groups associated can be changed.

Description

Default description(Italiano) + Multilanguage descriptions

Language	Description
English	Area 1

Groups

Available groups list	Associated groups
	Group 1

Devices

Available devices list	Associated devices
MasterCase - 5	MasterCase - 4

In this page it is possible to modify both the default language description and the multi-language descriptions.


Moreover, it is possible to use the  and  keys to introduce or delete groups from this area in the "Groups" section.

It is also possible to use the  and  keys to introduce or delete devices from this area in the "Devices" section.

On completion of the modifications, click on  to save.

5.7.3 Deleting an area



To delete an area click on  and select "Logic areas". The following page will open.

admin PlantVisorPRO 2006/10/05 16:44:37
Restart engine in 'System page'


Global

Logical areas

Areas list New area

To edit a configured area double click the corresponding row in the list below.
To remove an area, select the row in the list below and then click the image '-'

Area	Associated groups	Associated devices
Area 1	Group 1	MasterCase - 4

Select the row that identifies the area to be deleted in the list of areas and then click on .

Note: To delete an area it is also possible to follow the modification procedure, therefore eliminate all devices and groups in that area: the system will automatically eliminate the area as it does not contain devices or groups.

5.7.4 Visualisation of the areas

The list of areas is visualised in a relevant selection bar:

admin PlantVisorPRO 2006/10/05 16:45:47
Restart engine in 'System page'

Global

Global

Main Parameters Alarms HACCP graph Log graph Conf Graph Notes

Devices

Status	Description	Variable1	Variable2
●	IR 33 - C - 1	Probe 2 value *** °C/°F	Virtual probe *** °C/°F
●	I/O Module - 2	Probe 1 *** °C/°F	Probe 2 *** °C/°F
●	uRack (MRK) - 3	Probe B2 *** °C/°F	Probe B3 *** °C/°F
●	MasterCase - 4	Ambient probe (S1) *** °C	Defrost probe (S2) *** °C
●	MasterCase - 5	Ambient probe (S1) *** °C	Defrost probe (S2) *** °C
●	Logical Devices		

Alarms

Date Time	Device	Description	Ack	Area	Group
2006/10/05 14:45:41	I/O Module - 2	No connection		Area 1	Group 1
2006/10/05 14:45:41	IR 33 - C - 1	no connection		Area 1	Group 1
2006/10/05 14:45:41	uRack (MRK) - 3	No connection		Area 1	Group 1

By clicking on the desired area all devices and alarms relative to that determined area are visualised. The "Global" area contains all groups and all devices of all areas.

6. Graphics

The graphics visualises historicised variable data according to the HACCP Regulation and not. The variables that can be visualised in the can also belong to distinct devices if group or area level graphics are being visualised. The graphics cannot be used to visualise data updated in real time.

Firstly it is necessary to configure the colour of each individual curve that is to be represented for that device, therefore:

- Making reference to the visualisation of the list of devices, select, by double clicking on the device for which the graphics are to be created.
- Once the detail of the device has been visualised, select the "Graphics conf." Tab. The following page will open:

PlantVisorPRO admin PlantVisorPRO 2006/10/05 17:08:01
Restart engine in 'System page'

Global Area 1

Global > device detail

Main Parameters Alarms HACCP graph Log graph **Graph conf.** Notes

MasterCase - 4

MasterCase - 4

Click on option button HACCP/Log to configure features of that type of graph, then save the changes.

Graph HACCP Log

Variable configuration

Device List MasterCase - 4

Variable	Low range	High range	Color
Enabling output manual management			
Regulation temperature			
Digital input configuration DI 2			
Digital input configuration DI 5			

Graph configuration

ViewFinder ViewFinder background color ViewFinder foreground color

Horizontal grid Grid color

Vertical grid Background graph color Axis color

- Select the type of graphics to be configured by clicking on the HACCP/Log option button
- Select the variable to be configured with a click
- Select the colour for this variable from the drop down menu positioned at the side of the list of variables, then click on

PlantVisorPRO admin PlantVisorPRO 2006/10/05 17:21:35

Global Area 1

Global > device detail

Main Parameters Alarms HACCP graph Log graph **Graph conf.** Notes

MasterCase - 4

MasterCase - 4

Click on option button HACCP/Log to configure features of that type of graph, then save the changes.

Graph HACCP Log

Variable configuration

Device List MasterCase - 4

Variable	Low range	High range	Color
Enabling output manual management			
Regulation temperature			
Digital input configuration DI 2			
Digital input configuration DI 5			


Graph configuration

ViewFinder ViewFinder background color ViewFinder foreground color

Horizontal grid Grid color

Vertical grid Background graph color Axis color

- Repeat this procedure for each variable to be configured.
- If the ViewFinder is to be visualised select "ViewFinder" in the "Graphics configuration" section and then select the relative colour and the colour of the text of the ViewFinder (the ViewFinder is a sighting device controlled by the mouse, which by passing above the graphics shows the values of the various curves)
- If the vertical and horizontal grids must be visualised, use the relative selection fields and configure the colour by means of the descent fields.

Finally, click on  to confirm and save the settings


To visualise the two graphics select the "HACCP graphics" tab for the HACCP graphics



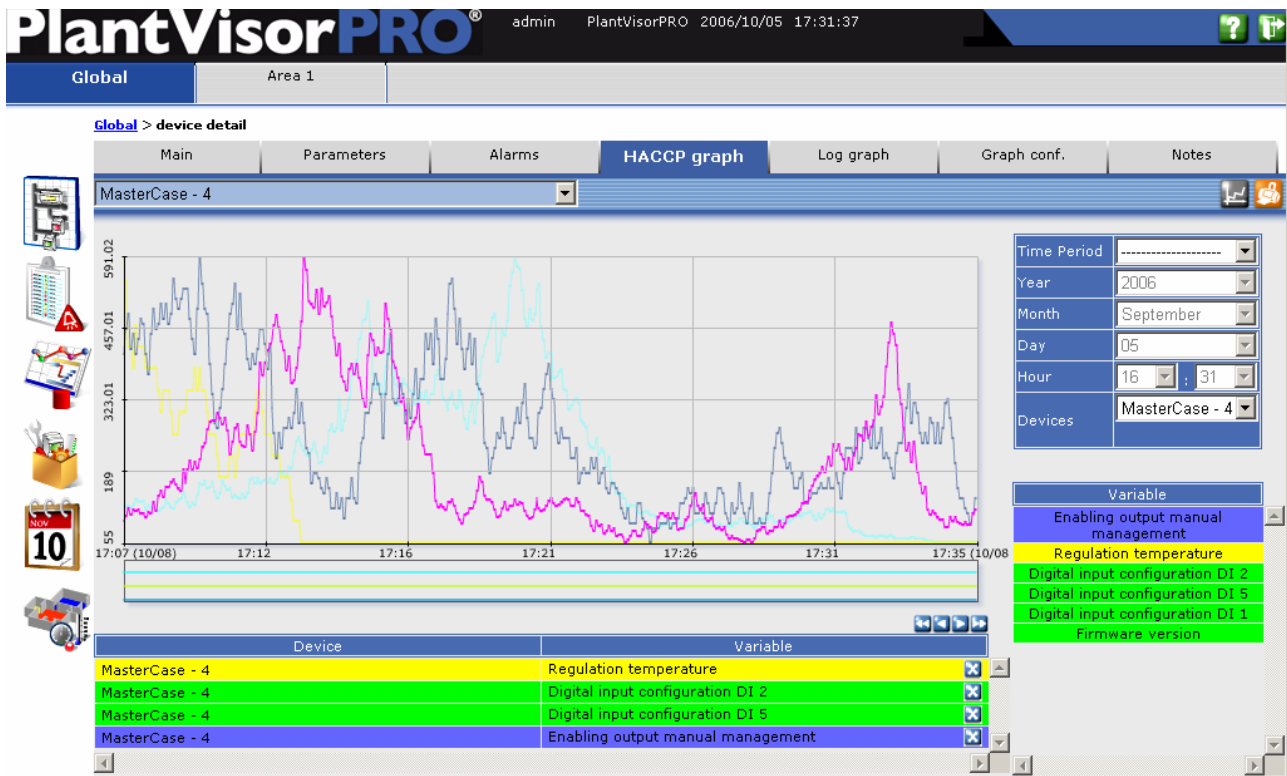
or the "Log graphics" tab for the log graphics.



In both types of graphics, in order to visualise the data, it is necessary to select the period, the starting date and the variable to be visualised.

Finally click on .

By moving the mouse above the graphics it is possible to visualise the ViewFinder where the corresponding values will be signalled for every curve.



By using the keys found below and to the right of the graphics () it is possible to move along the horizontal axis; moreover, by means of the mouse it is possible to zoom onto a certain area by selecting it.



The graphics can be printed using the key.

7. Alarms/Events

Alarms are information regarding status sent by the devices to the supervision system, which elaborates this information to give indications regarding anomalous situations and faults.

The alarms can be divided into two parts:

- Active alarms: These are alarms whose cause of triggering has not yet ceased.
- Alarm Withdrawn: These are records of alarms whose cause of triggering has terminated

7.1 Visualisation of Alarms



To visualise the list of active alarms select the  icon from the menu and select "Alarms". The following page will appear:

admin PlantVisorPRO 2006/10/05 17:39:37
Restart engine in 'System page'

Global Area 1

Alarms

Active alarms Reset alarms

List of all recorded active alarms.

Date Time	Device	Description	Ack	Area	Group
2006/10/05 14:45:41	I/O Module - 2	No connection		Area 1	Group 1
2006/10/05 14:45:41	IR 33 - C - 1	no connection		Area 1	Group 1
2006/10/05 14:45:41	uRack (MRK) - 3	No connection		Area 1	Group 1

To see the list of alarms that are activated but are now withdrawn, select the "Withdrawn Alarms" tab. The following page will be visualised:

admin PlantVisorPRO 2006/10/05 17:40:48
Restart engine in 'System page'

Global Area 1

Alarms

Active alarms Reset alarms


List of all recorded reset alarms.

From	To	Duration	Device	Description	Area	Group	P
2006/10/04 10:14:12	2006/10/05 14:44:53	1gg 4h 30m 41s	I/O Module - 2	No connection	Area 1	Group 1	1
2006/10/04 10:14:12	2006/10/05 14:44:53	1gg 4h 30m 41s	uRack (MRK) - 3	No connection	Area 1	Group 1	1
2006/10/04 10:14:12	2006/10/05 14:44:53	1gg 4h 30m 41s	IR 33 - C - 1	no connection	Area 1	Group 1	1
2006/10/02 15:38:58	2006/10/04 10:13:53	1gg 18h 34m 55s	I/O Module - 2	No connection	Area 1	Group 1	1
2006/10/02 15:38:28	2006/10/04 10:13:53	1gg 18h 35m 25s	uRack (MRK) - 3	No connection	Area 1	Group 1	1
2006/10/02 15:38:28	2006/10/04 10:13:53	1gg 18h 35m 25s	IR 33 - C - 1	no connection	Area 1	Group 1	1
2006/10/02 14:48:24	2006/10/02 14:49:54	0gg 0h 1m 30s	IR 33 - C - 1	no connection	Area 1	Group 1	1
2006/10/02 14:00:10	2006/10/02 14:22:13	0gg 0h 22m 3s	uRack (MRK) - 3	No connection	Area 1	Group 1	1
2006/10/02 14:00:10	2006/10/02 14:23:14	0gg 0h 23m 3s	I/O Module - 2	No connection	Area 1	Group 1	1
2006/10/02 14:00:10	2006/10/02 14:23:44	0gg 0h 23m 34s	IR 33 - C - 1	no connection	Area 1	Group 1	1
2006/09/29 17:08:22	2006/10/02 14:00:05	2gg 20h 51m 42s	IR 33 - C - 1	no connection	Area 1	Group 1	1
2006/09/29 17:08:22	2006/10/02 14:00:05	2gg 20h 51m 42s	uRack (MRK) - 3	No connection	Area 1	Group 1	1
2006/09/29 17:08:22	2006/10/02 14:00:05	2gg 20h 51m 42s	I/O Module - 2	No connection	Area 1	Group 1	1
2006/09/29 16:06:44	2006/09/29 16:10:45	0gg 0h 4m 0s	IR 33 - C - 1	no connection	Area 1	Group 1	1
2006/09/29 16:06:44	2006/09/29 16:10:45	0gg 0h 4m 0s	I/O Module - 2	No connection	Area 1	Group 1	1
2006/09/29 16:06:44	2006/09/29 16:09:14	0nn 0h 2m 30s	uRack (MRK) - 3	No connection	Area 1	Group 1	1

7.2 Visualisation of Events

The events are information sent by devices, by I/O peripherals or generated by the supervisor itself. This information communicates the general functioning status of the supervisor.



To visualise the list of events select the  icon from the menu and select "Events". The following page will appear:

PlantVisorPRO admin PlantVisorPRO 2006/10/05 17:41:19
Restart engine in 'System page'

Global Area 1

Events

Date Time	User	Type	Category	Description
2006/10/05 16:38:50	admin		Action	User admin logged in
2006/10/05 16:32:03	admin		Action	User admin logged in
2006/10/05 16:31:33	admin		Action	User admin logged out
2006/10/05 16:31:16	admin		Action	User admin logged in
2006/10/05 16:31:09	admin		Action	User admin logged out
2006/10/05 16:18:59	admin		Action	User admin logged in
2006/10/05 16:17:31	admin		Action	User admin logged in
2006/10/05 16:15:59	admin		Action	User admin logged in
2006/10/05 16:13:04	admin		Action	User admin logged out
2006/10/05 16:02:51	admin		Configuration	Changed configuration of line 1 on port COM6
2006/10/05 15:45:43	admin		Action	User admin logged in
2006/10/05 15:45:30	admin		Action	User admin logged out
2006/10/05 15:43:21	admin		Configuration	Area Area 1 added
2006/10/05 15:40:18	admin		Action	User admin logged in
2006/10/05 15:40:09	admin		Action	User admin logged out

8. Configuration of the I/O peripherals

All functions that allow the supervisor to communicate with the outside can be configured by means of configuration of the I/O peripherals. These are:

- Fax: set a modem Fax in order to send any alarms or reports
- SMS: set a modem (GSM or analogical) to send any alarms by means of an SMS message
- E-mail: set an electronic post box in order to send any alarms or reports by e-mail
- RAS: (Remote Access Service) set a connection to a local supervisor
- Window: set a noise that the computer, where the PlantVisorPRO supervisor is installed, will make when the alarm window is visualised

To set the configuration of the Input/Output peripherals of the supervisor select "Configuration of I/O peripherals" from the "Network"



menu

The following page will appear:



The screenshot shows the PlantVisorPRO web interface. The top navigation bar includes "Global" and "Area 1". The main content area is titled "I/O configuration" and has tabs for "Fax", "SMS", "E-mail", "RAS", "Window", and "Relay". The "Fax" tab is selected. The page contains a configuration section with fields for "Modem", "Switchboard", "Number of attempts", and "Try again after". Below this is an "Address book" section with "Reference" and "Number" input fields and a table with "Reference" and "Address" columns.

PlantVisorPRO[®] admin PlantVisorPRO 2006/10/05 18:31:53
Restart engine in "System page"

Global Area 1

I/O configuration

Fax SMS E-mail RAS Window Relay

Select the modem used to send FAXES and enter the details of possible recipients in the address book.
In addition, both the number of attempts to be performed after the failure of the first attempt and the delay between one attempt and the next can be set.

Configuration

Modem: Switchboard:

Number of attempts:

Try again after: minutes

Address book

Reference:

Number:

Reference	Address
-----------	---------

8.1 Setting the modem to send a fax

In order to set the modem for use as a fax machine select the "Fax" tab:

The screenshot shows the PlantVisorPRO web interface. At the top, there is a header with the logo and user information: "admin PlantVisorPRO 2006/10/05 18:31:53". Below the header, there are tabs for "Global" and "Area 1". The main content area is titled "I/O configuration" and has several sub-tabs: "Fax", "SMS", "E-mail", "RAS", "Window", and "Relay". The "Fax" tab is selected. The page contains the following elements:

- Configuration section:**
 - Modem: A dropdown menu with a dotted line indicating a selection.
 - Switchboard: A text input field.
 - Number of attempts: A text input field with the value "0".
 - Try again after: A text input field with the value "0" followed by "minutes".
- Address book section:**
 - Reference: A text input field.
 - Number: A text input field.
 - Buttons: Two small blue buttons with arrows, one pointing right and one pointing left.
 - Table: A table with two columns, "Reference" and "Address". The table is currently empty.

There are 4 fields in the "Configuration" area:

- Modem: this field is used to select one of the modems installed on the supervisor computer. This modem will be used to send fax.
- Switchboard (optional): the number that allows external calls to be made, if the modem telephone line passes through a switchboard, must be set in this field.
- Number of attempts: In this field set the number of attempts, successive to the first, that the supervisor will make to send a fax if the first attempt failed.
- Try again later: Set the time in minutes between one attempt and the next.

The supervisor will try and send a Fax, if the modem is occupied or there are problems during forwarding, it will wait for the set time band and then try to send the Fax again. If it is impossible for the modem fax to forward the document, the supervisor will try as many times as those set by the user.

The re-forwarding of the Fax will end with the success of forwarding or expiry of the number of attempts.

Note: if the amount of attempts is set at zero, the supervisor will only try to send the Fax once.

Set the numbers that the fax machine must use in the "Address book" area.

In order to add an item introduce a mnemonic name of the fax number into the "Reference" field then introduce the fax number into the "Address" field.

PlantVisorPRO admin PlantVisorPRO 2006/10/05 18:33:28
Restart engine in 'System page'

Global Area 1

I/O configuration

Fax SMS E-mail RAS Window Relay

Select the modem used to send FAXES and enter the details of possible recipients in the address book.
In addition, both the number of attempts to be performed after the failure of the first attempt and the delay between one attempt and the next can be set.

Configuration

Modem: PCI SoftV92 Data Fax Modem with SmartCP Switchboard: 0

Number of attempts: 10

Try again after: 10 minutes

Address book

Reference: reference Fax

Number: 12345678945

Reference	Address
-----------	---------

Click on .
The address book will be updated.

PlantVisorPRO admin PlantVisorPRO 2006/10/05 18:34:00
Restart engine in 'System page'

Global Area 1

I/O configuration

Fax SMS E-mail RAS Window Relay

Select the modem used to send FAXES and enter the details of possible recipients in the address book.
In addition, both the number of attempts to be performed after the failure of the first attempt and the delay between one attempt and the next can be set.

Configuration

Modem: PCI SoftV92 Data Fax Modem with SmartCP Switchboard: 0

Number of attempts: 10

Try again after: 10 minutes

Address book

Reference: reference Fax

Number: 12345678945

Reference	Address
reference Fax	12345678945

Then click on .
All settings will be saved.

8.1.1 Modifying an item in the fax address book

If an item in the "Address book" must be modified, select the item by double clicking and modify the desired fields.

PlantVisorPRO[®] admin PlantVisorPRO 2006/10/05 18:34:42
Restart engine in 'System page'

Global Area 1

I/O configuration

Fax SMS E-mail RAS Window Relay

Select the modem used to send FAXES and enter the details of possible recipients in the address book.
In addition, both the number of attempts to be performed after the failure of the first attempt and the delay between one attempt and the next can be set.

Configuration

Modem: PCI SoftV92 Data Fax Modem with SmartCP Switchboard: 0

Number of attempts: 10

Try again after: 10 minutes

Address book

Reference: Fax reference

Number: 12345678945

Reference	Address
reference Fax	12345678945

Click on 

PlantVisorPRO[®] admin PlantVisorPRO 2006/10/05 18:36:39
Restart engine in 'System page'

Global Area 1

I/O configuration

Fax SMS E-mail RAS Window Relay

Select the modem used to send FAXES and enter the details of possible recipients in the address book.
In addition, both the number of attempts to be performed after the failure of the first attempt and the delay between one attempt and the next can be set.

Configuration

Modem: PCI SoftV92 Data Fax Modem with SmartCP Switchboard: 0

Number of attempts: 10


Try again after: 10 minutes

Address book

Reference:

Number:

Reference	Address
Fax reference	12345678945

Click on  to save all settings.

8.2 Setting the modem to send SMS

In order to set the modem to send SMS select the "SMS" tab.

PlantVisorPRO[®] admin PlantVisorPRO 2006/10/06 10:06:57
Restart engine in 'System page'

Global Area 1

I/O configuration

Fax SMS E-mail RAS Window Relay

Select the modem used to send SMS messages and enter the details of possible recipients in the address book.
In addition, both the number of attempts to be performed after the failure of the first attempt and the delay between one attempt and the next can be set.

Configuration

Modem: Switchboard:

Type: Analogico GSM Number of attempts:

Provider: Belgium (Proximus) - TAP Try again after: minutes

Call: Nazionale

Address book

Reference:

Number:


Reference	Address
-----------	---------

There are 7 fields in the "Configuration" area:

- Modem: this field is used to select one of the modems (analogical or GSM) installed on the supervisor computer. This modem will be used to send SMS.
- Switchboard: the number that allows external calls to be made, if the modem telephone line passes through a switchboard, must be set in this field.
- Type: set the type of modem ("Analogical" or "GSM") in this field. It is selected in the "modem" field.
- Provider: this field is used to select the provider that is used to send SMS.
- Call: to select if the call is international or not ("National" or "International")
- Number of attempts: In this field set the number of attempts, successive to the first, that the supervisor will make to send an SMS if the first attempt failed.
- Try again later: Set the time in minutes between one attempt and the next.

Once all of the settings have been carried out fill the address book with the numbers to which the SMS will be sent.

The numbers the supervisor will use to send SMS will be set it in the "Address book" area. This part functions exactly like the "fax" tab.

Click on  to save the settings.

8.3 Setting for e-mail use

To set the data necessary to send an e-Mail select the "e-Mail tab"

The screenshot shows the PlantVisorPRO web interface. At the top, there is a header with the logo and user information: 'admin PlantVisorPRO 2006/10/06 10:09:41'. Below the header is a navigation bar with 'Global' and 'Area 1' tabs. The main content area is titled 'I/O configuration' and has a sub-navigation bar with 'Fax', 'SMS', 'E-mail', 'RAS', 'Window', and 'Relay' tabs. The 'E-mail' tab is selected. The main content area contains a 'Configuration' section with the following fields: SMTP (text input with asterisk), Sender (text input with asterisk), Number of attempts (text input with '0'), Try again after (text input with '0' and 'minutes'), Connection (radio buttons for LAN and DialUp), and Provider (dropdown menu). Below the Configuration section is an 'Address book' section with 'Reference' and 'Address' text input fields and a table with columns 'Reference' and 'Address'.

There are 6 fields in the "Configuration" area:

- SMTP: Name of post server or the IP address supplied by the internet access provider
- Sender: sender's e-mail address.

Attention: some post providers require a valid sender address, accepted by the post server; it is therefore necessary to obtain this information from the supplier of the post service.

- Connection: this field is used to set whether the e-mail provider is in LAN or is contacted through a modem ("DialUp")

The following fields are only enabled if "DialUp" has been selected in the "Connection" field.

- Provider: this field is used to select the provider used for the connection
- Number of attempts: In this field set the number of attempts, successive to the first, that the supervisor will make to send an e-mail if the first attempt failed
- Try again later: Set the time in minutes between one attempt and the next.

Once all of the settings have been carried out, fill in the address book with the addresses to which the e-mail will be sent.

In order to add an item introduce a mnemonic name of the e-mail address into the "Reference" field then introduce the e-mail address into the "Address" field

I/O configuration

Fax SMS **E-mail** RAS Window Relay

Select the SMTP server, the sender and the type of connection used to send E-MAIL messages and enter the details of possible recipients in the address book.

Configuration

SMTP: * Connection: LAN DialUp
 Sender: * Provider:
 Number of attempts:
 Try again after: minutes

Address book

Reference:
 Address:

Reference	Address

Click on .
 The address book will be updated.

I/O configuration

Fax SMS **E-mail** RAS Window Relay

Select the SMTP server, the sender and the type of connection used to send E-MAIL messages and enter the details of possible recipients in the address book.

Configuration

SMTP: * Connection: LAN DialUp
 Sender: * Provider:
 Number of attempts:
 Try again after: minutes

Address book

Reference:
 Address:

Reference	Address
help e-mail	helpmail@industry.com

Click on to save all settings.

8.3.1 Modifying an item in the e-mail "address book"

If an item in the "Address book" is to be modified, select the item to be modified using a double click and modify the desired fields.

The screenshot shows the PlantVisorPRO I/O configuration interface. The top navigation bar includes 'Global' and 'Area 1'. The main title is 'I/O configuration' with sub-tabs for 'Fax', 'SMS', 'E-mail', 'RAS', 'Window', and 'Relay'. The 'E-mail' tab is active. Below the tabs, there is a green checkmark icon in the top right corner. The main content area contains the following sections:

Select the SMTP server, the sender and the type of connection used to send E-MAIL messages and enter the details of possible recipients in the address book.

Configuration

SMTP: * Connection: LAN DialUp
Sender: * Provider:
Number of attempts:
Try again after: minutes

Address book


Reference:
Address:

Reference	Address
help e-mail	helpmail@industry.com

Click on .

This screenshot is identical to the previous one, but the address book table has been updated. The 'Reference' field is now empty, and the 'Address' field is also empty. The table now contains one entry:

Reference	Address
reception e-mail	helpmail@industry.com

Click on  to save all settings.


8.4 Settings for remote calls

To set the possibility for calls to a remote computer select the "RAS" tab.

The screenshot shows the PlantVisorPRO web interface. At the top, the header includes the logo, user information (admin PlantVisorPRO), date and time (2006/10/06 10:29:55), and a link to restart the engine. Below the header is a navigation bar with tabs for Global, Area 1, and I/O configuration. The I/O configuration section has sub-tabs for Fax, SMS, E-mail, RAS (selected), Window, and Relay. The RAS tab contains instructions: "Select the modem used for the calls to the Remote Supervisor and enter the details of possible recipients of the call in the address book. In addition, both the number of attempts to be performed after the failure of the first attempt and the delay between one attempt and the next can be set." The "Configuration" area includes fields for Modem (a dropdown menu), Switchboard (a text input), Number of attempts (a spinner set to 0), and Try again after (a spinner set to 0 minutes). The "Address book" area has input fields for Reference and Number, with arrows pointing to a table. The table has two columns: Reference and Address, and is currently empty.

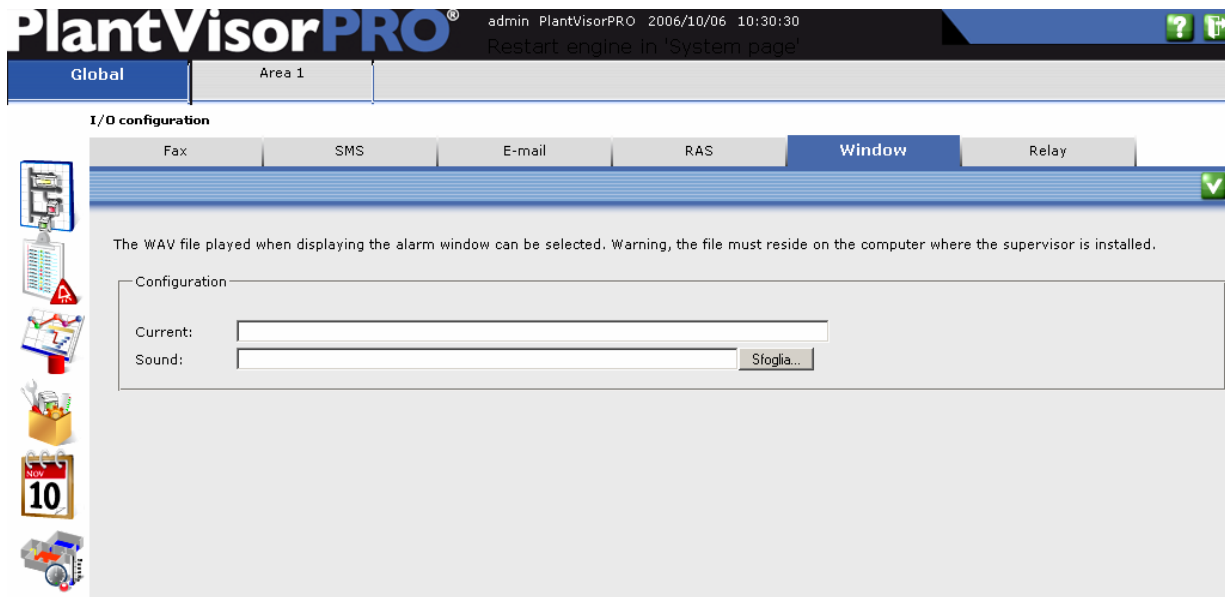
There are 4 fields in the "Configuration" area:

- Modem: by means of this field it is possible to connect one of the modems installed on the supervising computer. This modem will be used for remote calls (connection to a PlantVisorPRO Remote supervisor).
- Switchboard: set the number that allows calls to the outside, if the modem telephone line passes through a switchboard in this field.
- Telephone number: Remote telephone number to which it must be connected.
- Identification: Identification name of the remote site to which the local supervisor must be connected.

Click on  to save all settings.

9. Setting the audio files to be used during the visualisation of the alarm window

Select the "Window" tab in order to set the audio file with "wav" extension to be carried out by the computer, where the local supervisor is installed, during visualisation of the alarm window.



PlantVisorPRO[®] admin PlantVisorPRO 2006/10/06 10:30:30
Restart engine in 'System page'

Global Area 1

I/O configuration

Fax SMS E-mail RAS Window Relay

The WAV file played when displaying the alarm window can be selected. Warning, the file must reside on the computer where the supervisor is installed.

Configuration


Current:

Sound: Sfoglia...

There are 2 fields in the "Configuration" area

Current: identifies the actual sound file configured

Sound: Allows to use the "Browse..." button to select a sound file present in the computer where the supervisor is installed.

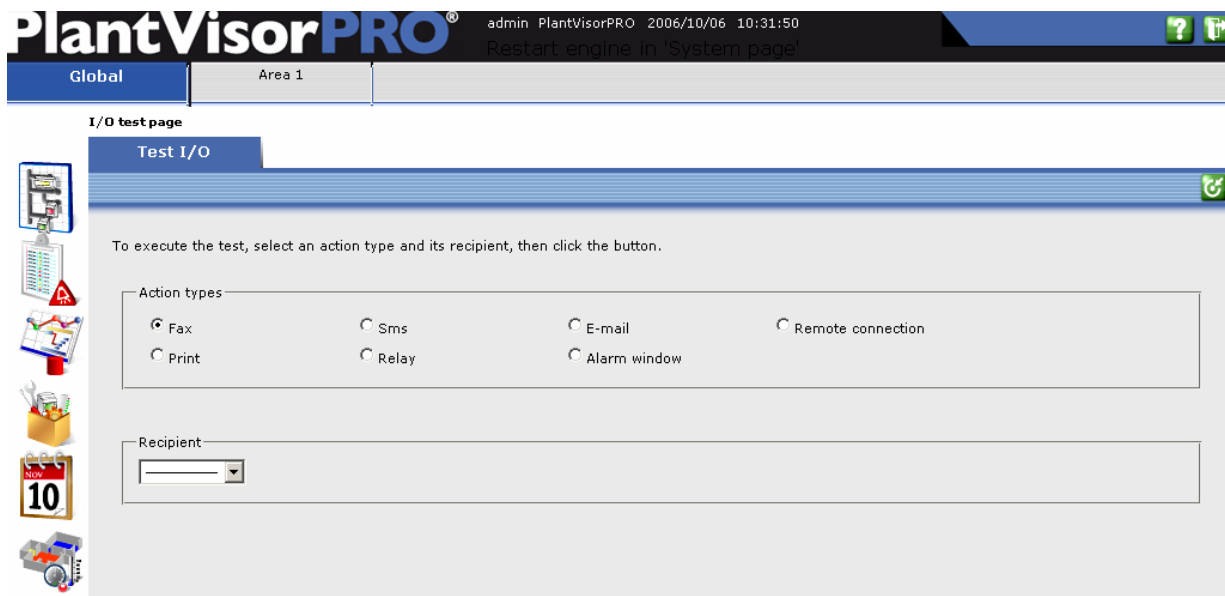
Click on  to save the settings.

9.1 Checking functionality of the I/O peripherals



In order to check functionality of the Input/Output peripherals of the supervisor, select "I/O peripherals test" from the "Network" menu

The following page will appear



PlantVisorPRO[®] admin PlantVisorPRO 2006/10/06 10:31:50
Restart engine in 'System page'

Global Area 1

I/O test page


Test I/O

To execute the test, select an action type and its recipient, then click the button.

Action types

Fax Sms E-mail Remote connection
 Print Relay Alarm window

Recipient

- Select the I/O peripheral that is to be checked from the "Peripheral list" section
- Select the receiver
- Click on 

The I/O peripheral will be made to work in order to check its effective functionality.

10. Reports: periodical and manual

Reports are tables depending on the time that they contain the historicised variable data.

These tables can be printed in two ways:

- Periodical reports: visualise the values of several historicised variables and selected by the user on the basis of a beginning and end date. This report can be used in time-scheduled actions.
- Manual reports: visualise the values of several historicised variables and selected by the user on the basis of a beginning and end date. This report is visualised in order to print immediately.

The methods for setting the two report modes are explained successively.

10.1 Setting periodical reports



To set the periodical reports select "Periodical printing configuration" from the "Report" menu
The following page will appear

PlantVisorPRO[®] admin PlantVisorPRO 2006/10/06 10:33:11
Restart engine in 'System page'

Global Area 1

Periodic print configuration

HACCP Log

Only the logged variables to HACCP standards can be involved in the reports.

Description	Type	# variables
-------------	------	-------------

Context

Description *

Type *

Device *

Available variables

Configured variables

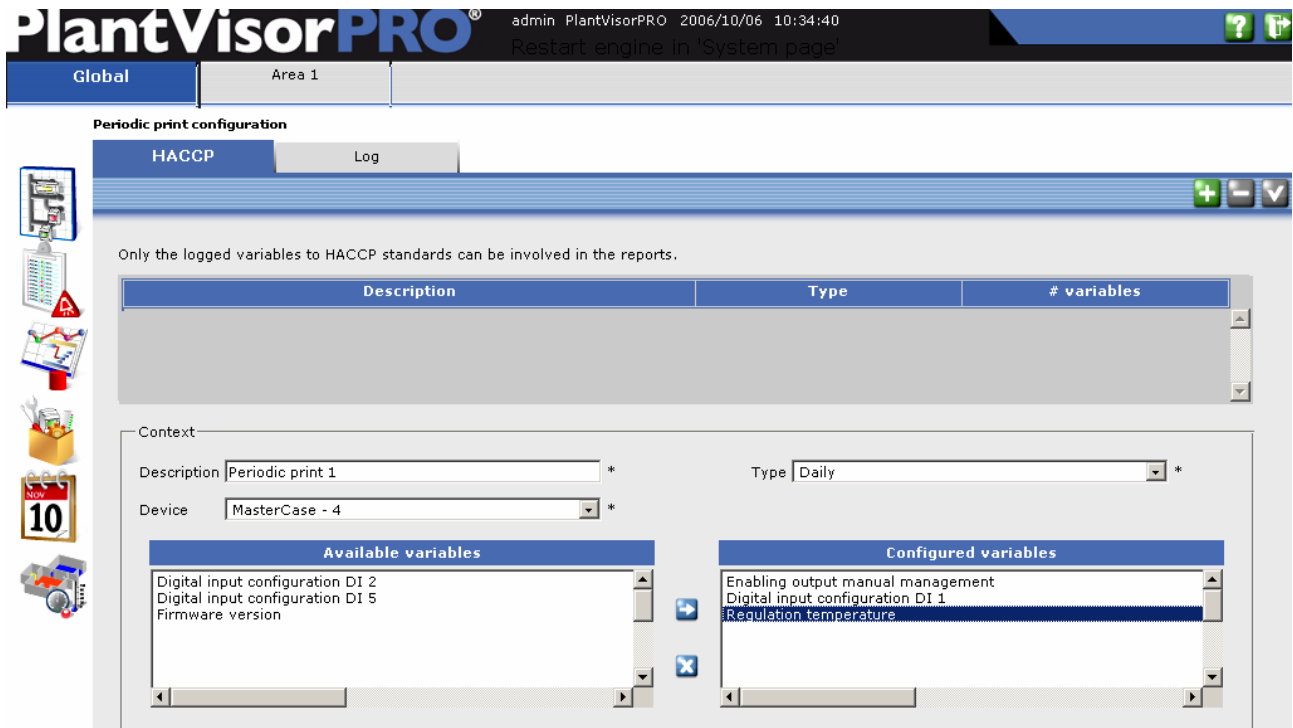
There are two types of periodical reports:

- HACCP : report relative to the variables of the tools that are historicised according to regulations regarding HACCP
- Log : report to the variables of the tools that are historicised according to user settings

The modalities of setting the types of periodical reports are explained successively.

10.1.1 HACCP

To enter setting of periodical reports according to the rules of the HACCP Regulation select the "HACCP" tab. The following page will be visualised:




Introduce the mnemonic description of the report being configured into the "Descriptions" field.

From the "Type" field select:

- "Instantaneous" for reports with values that the variables involved have at the time of printing
- "Daily" for reports with the values that the variables involved have assumed in the last
- 24 hours
- "Weekly" for reports with the values that the variables involved have assumed in the last 7 days

From the "Device" field select the device to which the variables to be involved in the report belong. The "Available variables" list will visualise all device variables just selected.

Select one or more variables from this list and click on 

If the "Configured variables" list contains a variable that must be deleted from the report, select it in the "Configured variables" list and click on ; it will be deleted from the list.

Once the "Configured variables" list satisfies the report requirements select  to save the settings.

10.1.2 Log

To enter setting of periodical reports according to the log set by the user, select the "Log" tab. The following page will be visualised:

PlantVisorPRO[®] admin PlantVisorPRO 2006/10/06 10:38:02
Restart engine in 'System page'

Global Area 1

Periodic print configuration

HACCP Log

Only the logged variables can be involved in the reports.

Description	Type	# variables
-------------	------	-------------

Context

Description: Periodic print Log 1 * Type: Daily *
Device: Modular Chiller-HP screw compr. (MSCA) - Mach * Interval: 10 * Minutes

Available variables: 4 - way valve circuit, Condensing temperature, Inlet water temperature, Outlet water temperature

Configured variables: Condensation pressure, Fan 1 circuit 1, Line contactor compressor

Introduce the mnemonic description of the report being configured into the "Descriptions" field.


From the "Type" field select:

- "Instantaneous" for reports with values that the variables involved have at the time of printing
- "Daily" for reports with the values that the variables involved have assumed in the last 24 hours
- "Weekly" for reports with the values that the variables involved have assumed in the last 7 days

From the "Device" field select the device to which the variables to be involved in the report belong. The "Available variables" list will visualise all device variables just selected.

Introduce the number of minutes there must be between a value to be inserted into the report and the successive one into the "Interval" field.

Select one or more variables from the "Available variables" list and click on .

If the "Configured variables" list contains a variable that must be deleted from the report, select it in the "Configured variables" list and click on ; it will be deleted from the list.

Once the "Configured variables" list satisfies the report requirements select  to save the settings.

10.2 Manual reports



To set manual reports select "Manual report configuration" from the "Report" menu. The following page will open.

There are two types of manual report:

- HACCP : report relative to the variables of the tools that are historicised according to regulations regarding HACCP
- Log : report to the variables of the tools that are historicised according to user settings

The methods used to set manual reports are explained successively.

10.2.1 HACCP


To enter setting of manual reports according to the rules of the HACCP Regulation select the "HACCP" tab. The following page will be visualised:

Select the type of report to be carried out and the date of reference in the "Period" section:


- "Instantaneous" for reports with values that the variables involved have at the time of printing
- "Daily" for reports with the values that the variables involved have assumed in the last 24 hours with reference to the set date
- "Weekly" for reports with the values that the variables involved have assumed in the last 7 days with reference to the set date
- "Generic" for reports with the values that the variables involved have assumed in the period indicated by the two set dates


Use the "Context" section to set on which device the selection of the values will be made for the report.

From the "Device" field select the device to which the variables to be involved in the report belong. The "Available variables" list will visualise all device variables just selected.

Use the "Available variables" table and select the variable from which the values must be extracted in order to create the report. Click on  to introduce the variable into the report. The "Configured variable" table will be populated in this way.

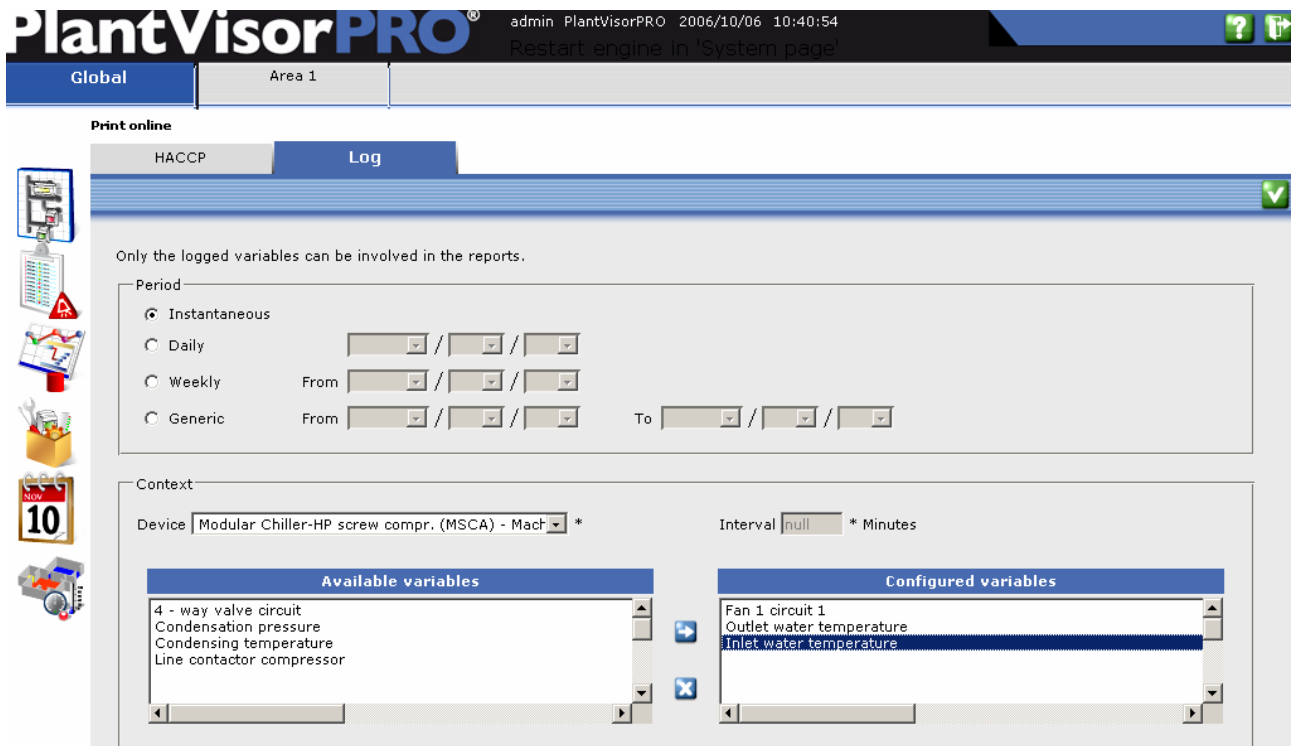
If a variable is incorrectly introduced into the "Configured variable" table act as follows:

select the incorrectly introduced variable from the "Configured variable" table and click on . The incorrectly introduced variable will be deleted.

Click on  to start printing.

10.2.2 Log

To enter setting of manual reports according to the log set by the user, select the "Log" tab. The following page will be visualised:




Select the type of report to be carried out and the date of reference in the "Period" section:


- "Instantaneous" for reports with values that the variables involved have at the time of printing
- "Daily" for reports with the values that the variables involved have assumed in the last 24 hours with reference to the set date
- "Weekly" for reports with the values that the variables involved have assumed in the last 7 days with reference to the set date
- "Generic" for reports with the values that the variables involved have assumed in the period indicated by the two set dates


Use the "Context" section to set on which device the selection of the values will be made for the report.

From the "Device" field select the device to which the variables to be involved in the report belong. The "Available variables" list will visualise all device variables just selected.

Use the "Available variables" table and select the variable from which the values must be extracted in order to create the report. Click on  to introduce the variable into the report. The "Configured variable" table will be populated in this way.

If a variable is incorrectly introduced into the "Configured variable" table act as follows:

Select the incorrectly introduced variable from the "Configured variable" table and click on . The incorrectly introduced variable will be deleted.

Click on  to start printing.

11. Scheduler

The scheduler is a system for the organisation of alarm notices and events that have occurred and have been recorded by the supervisor. There are two types of scheduling:

- Alarm and events management: allows to manage supervisor actions when faced with alarms and events that occur in determined time bands.
- Scheduled activity management: Used to manage timed actions by the supervisor.

11.1 Alarms and events management



To access scheduler management based on alarms and events place the mouse arrow on the icon. The "Scheduler" menu will appear; select "Alarms and events management".

The following page will be visualised:

The screenshot shows the PlantVisorPRO interface. At the top, there is a header with the logo and user information: 'admin PlantVisorPRO 2006/10/06 10:41:44'. Below the header, there is a navigation bar with 'Global' and 'Area 1'. The main content area is titled 'Alarms and events management' and has several tabs: 'Rules', 'Alarm conditions', 'Event conditions', 'Time bands', and 'Actions'. The 'Rules' tab is selected, showing a table with columns: 'Enabled', 'Description', 'Condition', 'Time bands', 'Actions', 'Delay', and 'IDE'. Below the table, there is a form for configuring a rule. The form includes fields for 'Description', 'Condition', 'Time bands', 'Actions', and 'Delay' (in minutes). The 'Enabled' checkbox is checked.

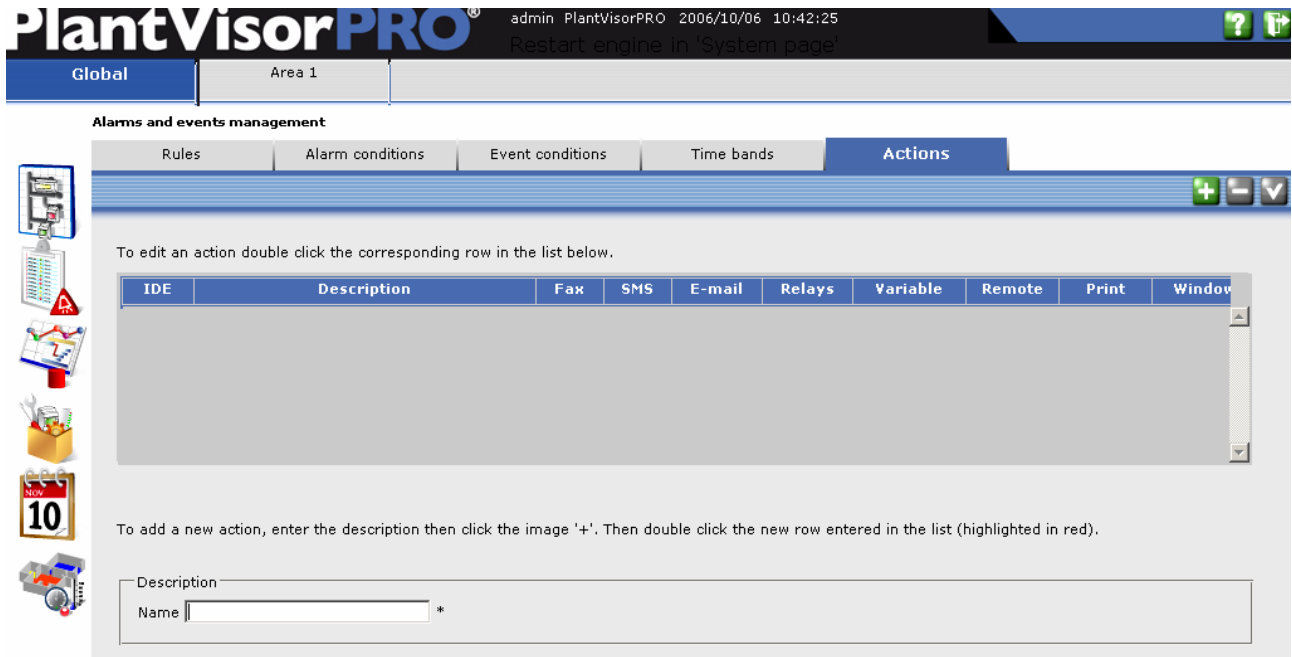
In order to set a PlantVisorPRO supervisor rule correctly, it is firstly necessary to configure:

1. **Actions:** on occurrence of the set conditions which peripherals will start to function and how,
2. **Time bands:** In which time band this rule is valid
3. **Event condition/Alarm condition:** in which event or alarm condition the action should be applied

Successively configure the rule itself, i.e. combine a condition, time band and an action.

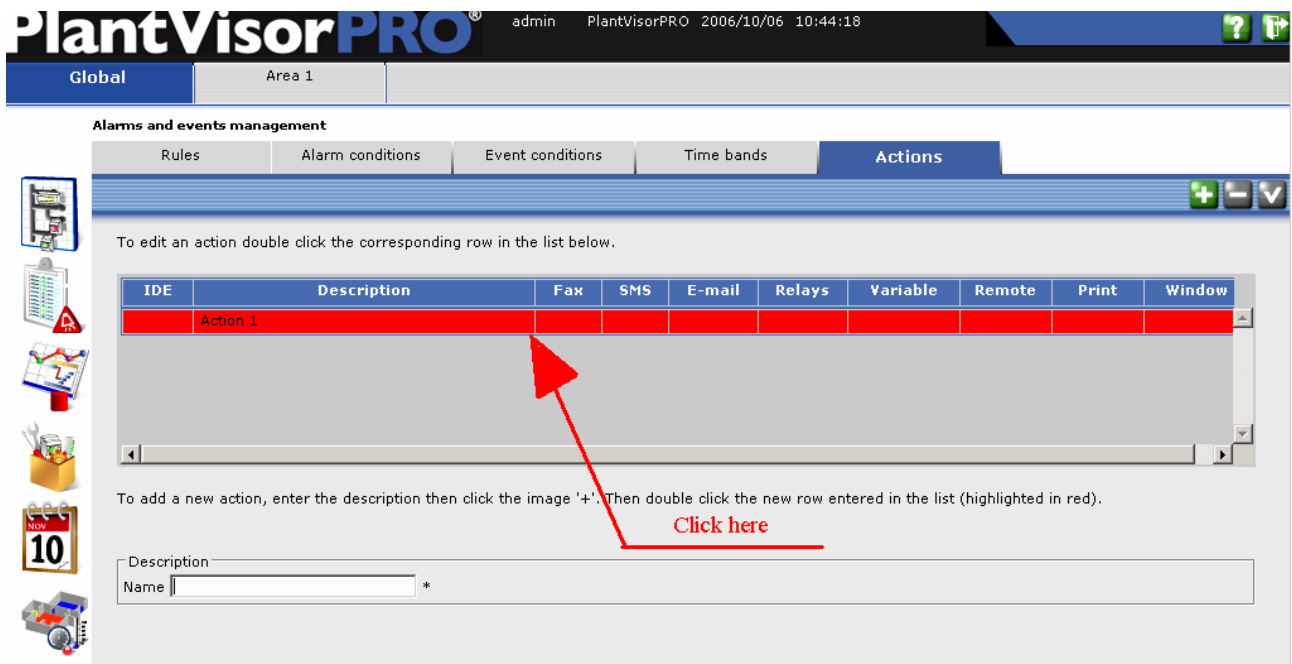
11.1.1 Actions

To access action settings select the "Actions" tab
The following page is visualised



To create an action, introduce the mnemonic reference of the action into the description field.

Click on .



As it can be noted from the page shown above, the action that has just been introduced is highlighted in red as no type have functionality has been set yet.

To configure the action double click on the row of the action just created in the action table.

The following page will be visualised.

The screenshot displays the PlantVisorPRO web interface. At the top, the logo 'PlantVisorPRO' is visible, along with the user 'admin', the system name 'PlantVisorPRO', the date '2006/10/06', and the time '10:49:47'. Below the logo, there are tabs for 'Global' and 'Area 1'. The main navigation bar includes 'Alarms and events management > action configuration'. The interface is divided into several sections: 'Fax', 'SMS', 'E-mail', 'Relay', 'Variable', 'Remote', and 'Print/Window'. The 'Fax' section is active, showing 'Action: Action 1'. Below this, there are two text input fields: 'Address book - numbers' containing 'Fax -> 1234545678' and 'Numbers configured for the action'. There are also navigation icons on the left side of the interface.

Programming an Action

Programming an action means combining determined operations.

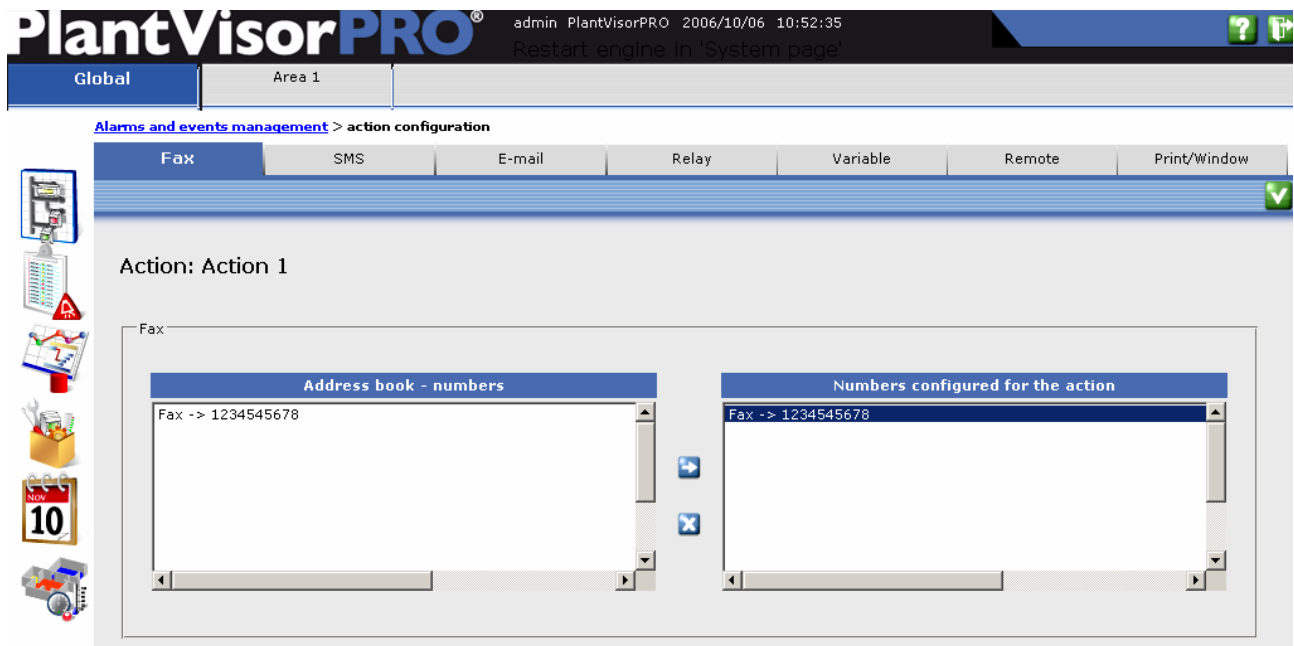
The operations allowed are:


- Sending fax
- Sending SMS
- Sending e-mails
- Activation of relays
- Setting variables
- Setting the remote call
- Setting "Print" and "visualise window" functions

The various programming operations will be described successively.


Programme sending a Fax in an action


Before this programming the modem must have been configured to send fax
Select the "Fax" tab. The following page will open.



From the "Number book" select the items corresponding to the numbers to which the fax must be sent and click on 

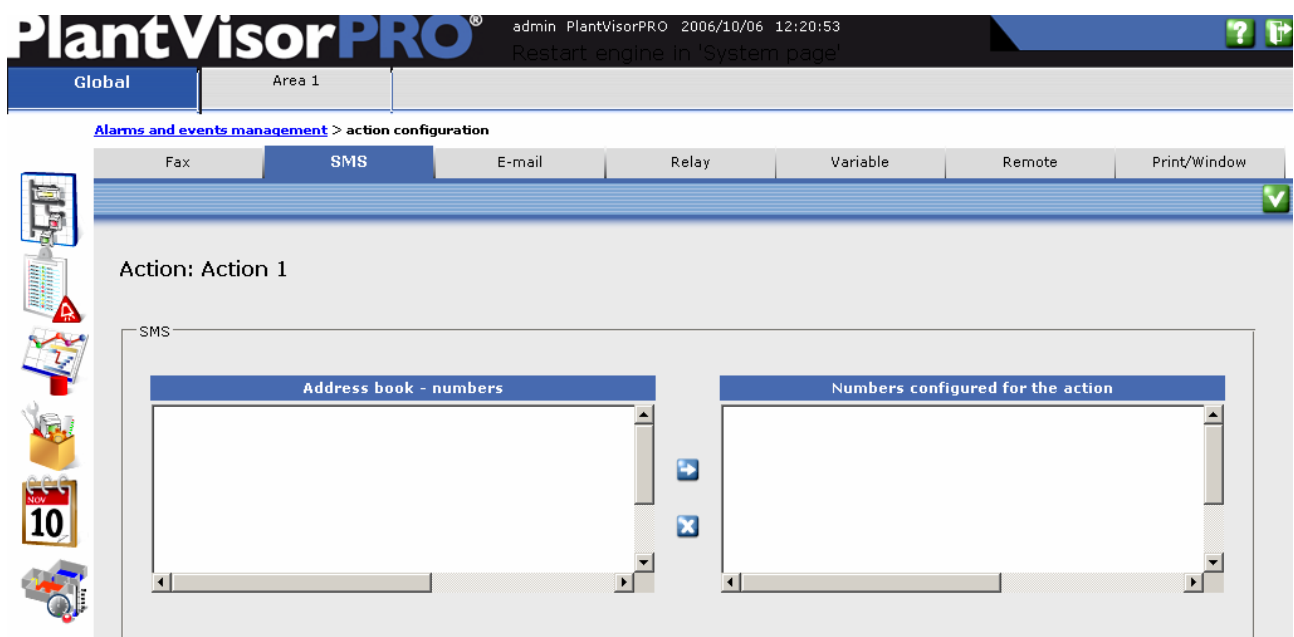
The selected numbers will appear in the "Numbers configured for the action" table.


If a mistake is made select the incorrectly introduced item from the "Numbers configured for the action" table and click on .

Click on  to save the settings.


Programming sending an SMS in an action

Before this programming the modem must have been configured to send SMS
Select the "SMS" tab. The following page will open.



From the "Number book" select the items corresponding to the numbers to which the SMS must be sent and click on 

The selected numbers will appear in the "Numbers configured for the action" table.

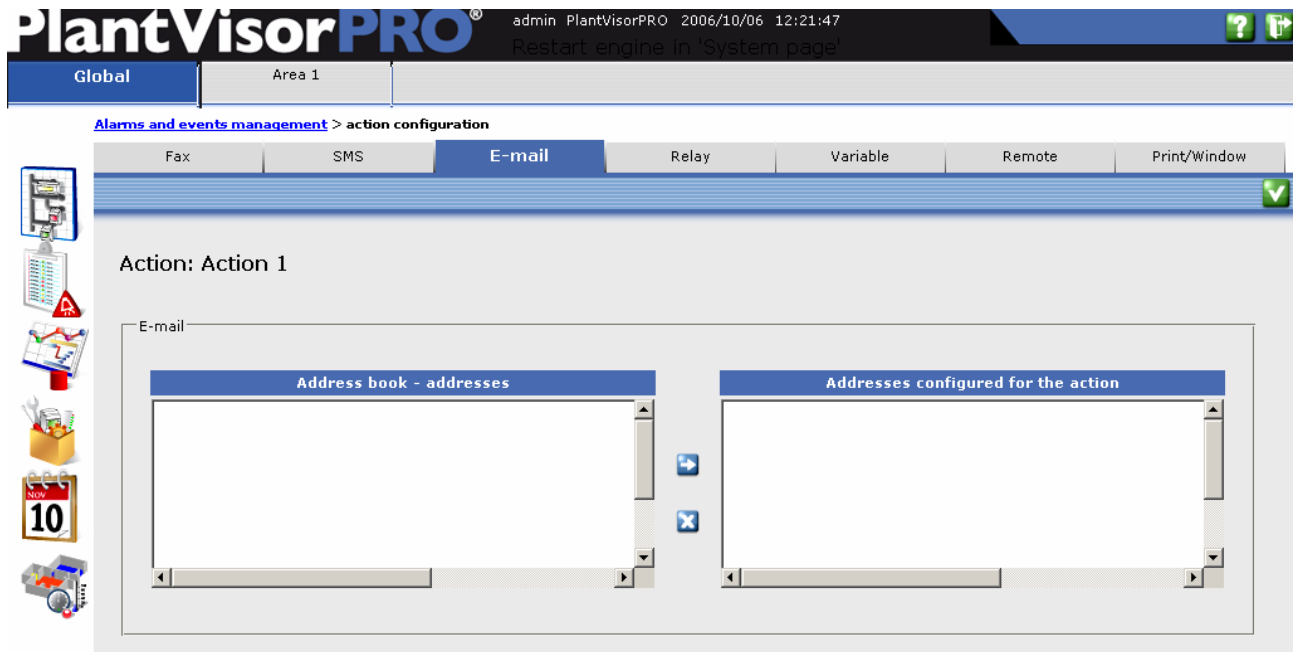
If a mistake is made select the incorrectly introduced item from the "Numbers configured for the action" table and click on .


Click on  to save the settings.

Programming sending an e-mail in an action


Before programming it is necessary to configure the I/O devices for the e-mail

Select the "Email" tab. The following page will open:



From the "Number book" select the items corresponding to the numbers to which the e-mail must be sent and click on .

The selected numbers will appear in the "Numbers configured for the action" table.


If a mistake is made select the incorrectly introduced item from the "Numbers configured for the action" table and click on .

Click on  to save the settings.

Programming the activation of a relay in an action

Select the "Relay" tab. The following page will open:

The screenshot shows the PlantVisorPRO web interface. At the top, there is a header with the logo and user information: 'admin PlantVisorPRO 2006/10/06 12:22:27' and a message 'Restart engine in "System page"'. Below the header, there are navigation tabs: 'Global', 'Area 1', and 'Alarms and events management > action configuration'. The 'Relay' tab is selected. The page displays 'Action: Action 1' and a 'Relays' section. This section contains two tables: 'Relays available in the installation' and 'Relays configured'. The first table lists two relays: 'I/O Module - 2 -> ON/OFF relay1 from serial' and 'IR 33 - C - 1 -> AUX enabling command'. The 'Status' field for the first relay is set to 'De-energised'. There are plus and minus icons between the tables. A green checkmark icon is visible in the top right corner of the interface.

Select the item corresponding to the relay that is to be set from the "Relay available in the plant" table. Then select the status that is to be assigned to the relay in the "Status" field and click on ; repeat these operations for all relays that are to be set. The selected relays will appear in the "Configured relay" table.

E.g.:


This action is programmed in a way that to a determined event relay 1 will be set in status 1 and relay 2 set at status 0

At 14:59:59 relay 1 is at status 0 and relay 2 is at status 0

At 15:00:00 the event occurs and relay 1 passes to status1 and relay 2 remains at status 0

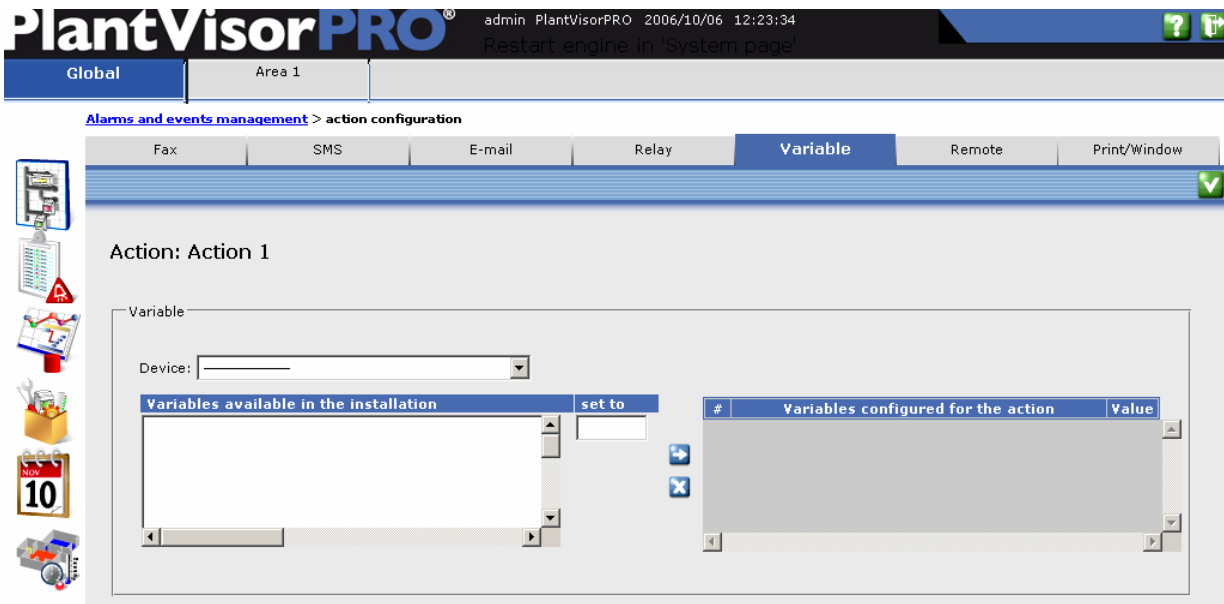
At 15:00:15 relay 1 passes to status 0 and 2 passes to status 1

If a mistake is made on introduction, select the incorrectly introduced items from the "Configured relay" table and click on .

Click on  to save the settings.

Programming setting of variables in an action

By selecting the "Variable" tab the following page will open:

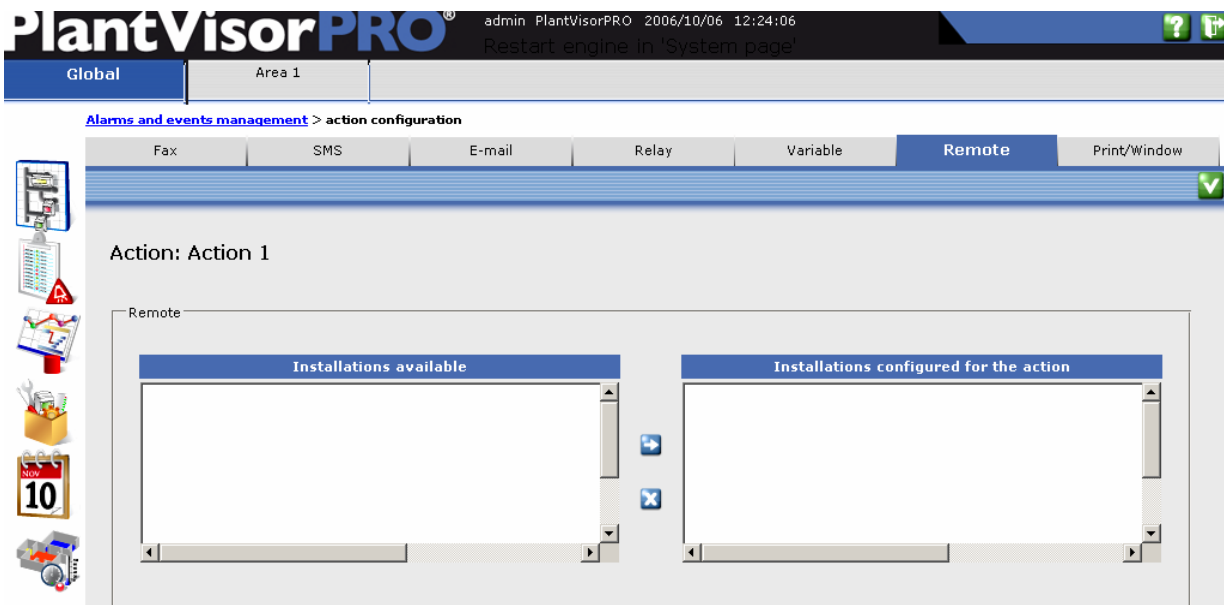


From the "Device" field, select the device to which the variables to be set belong. Select the item corresponding to the variable to be set from the "Variables available in the plant" table, then select the value in the "set at" field that is to be the variable for this event and click on . Repeat these operations for all variables that are to be set. The selected variables will appear in the "Variables configured for the action" table.

If a mistake is made during introduction, select the incorrectly introduced item in the "Variables configured for the action" table and click on . Click on to save the setting.

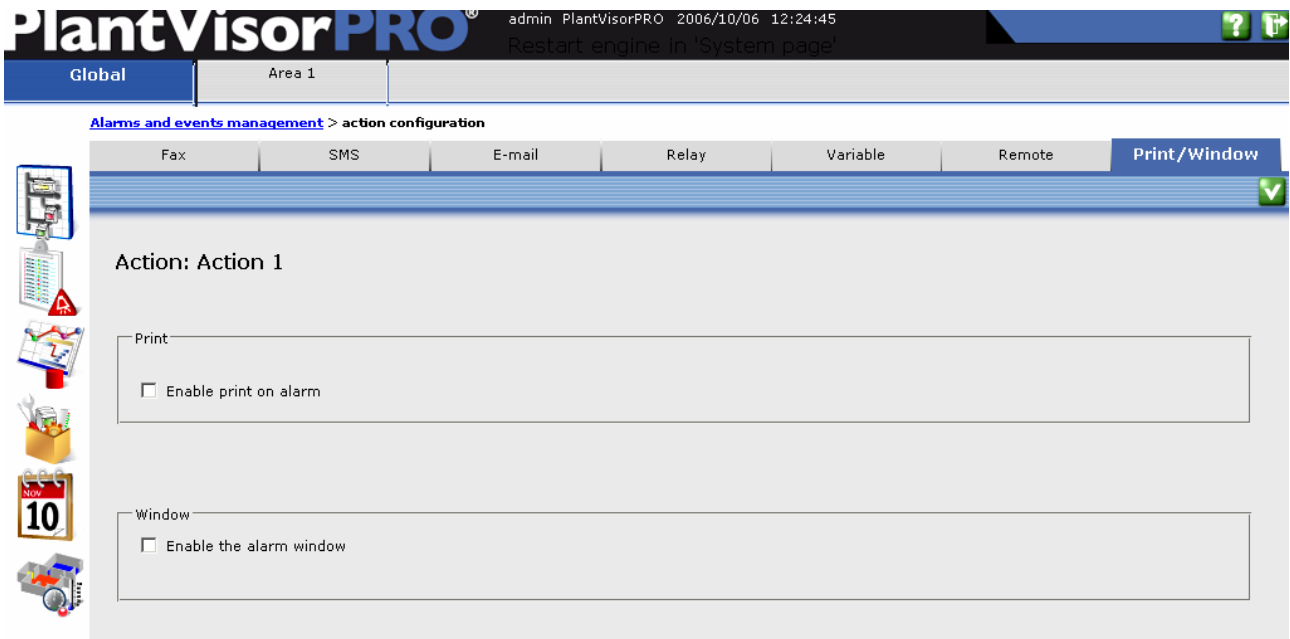
Programming the setting of a remote call in an action

Before carrying out this programming it is necessary to configure the I/O devices for the remote calls. Select the "Remote" tab. The following page will open.



Select the items corresponding to the numbers to which connection is to be made from the "Plants available" table and click on . The selected numbers will appear in the "Plants configured for the action" table. If a mistake is made during introduction, select the incorrectly introduced item in the "Variables configured for the action" table and click on . Click on to save the setting.

Programming setting of the Print/Windows functions in an action
 Select the "Print/Window" tab. The following page will open



If a printout must be made select the "Enable print on alarm" field.

If the alarm window is to be enabled if the action has taken place, select the "Enable alarm window" field.

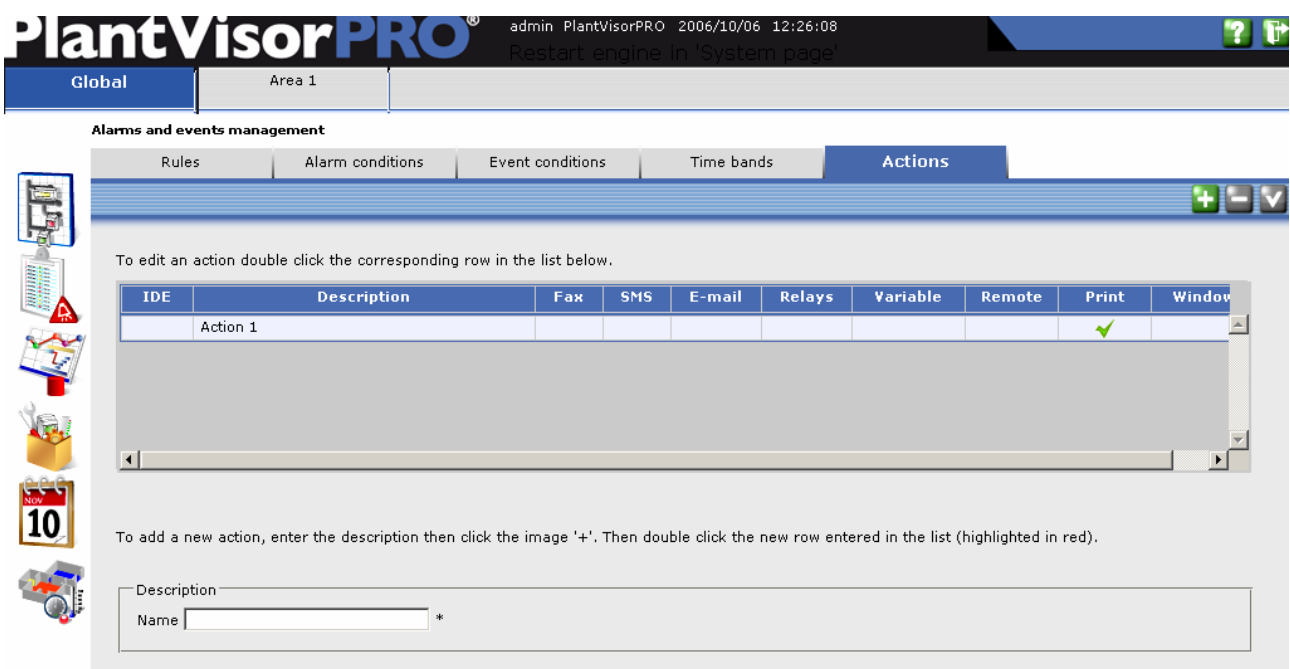
Click on  to save the settings.

Return to the action rule configuration page

Click on the link in the top right of the page



Return to the action rule configuration page



Deleting an action

admin PlantVisorPRO 2006/10/06 12:26:47
Restart engine in System page

Global Area 1

Alarms and events management

Rules Alarm conditions Event conditions Time bands **Actions**


To edit an action double click the corresponding row in the list below.

IDE	Description	Fax	SMS	E-mail	Relays	Variable	Remote	Print	Window
	Action 1							✓	

To add a new action, enter the description then click the image '+'. Then double click the new row entered in the list (highlighted in red).

Description

Name Action 1 *

If an action must be deleted select the rule to be deleted and click on 

11.1.2 Time bands

Click on the "Time bands" tab

admin PlantVisorPRO 2006/10/06 12:27:31
Restart engine in System page

Global Area 1

Alarms and events management

Rules Alarm conditions Event conditions **Time bands** Actions

IDE	Description	Type
	Sempre/Always/Toujours/Immer	Daily

Time bands

Description

Type Daily

from 00 : 00

to 00 : 00

#	Value
---	-------

Introducing time bands

Introduce the mnemonic description of the time period that is to be introduced into the "Description" field.

Select the type of time period in the "Type" field.

Depending on the pre-selected type the following fields are visualised.

If the "Daily" type is selected:

Fields indicating the times that identify from what time to what time the time period will be valid will be visualised.

*
 Type:
 from: :
 to: :

If the "Weekly" type is selected:
 Fields indicating the days of the week and the times that identify from what time to what time the time period will be valid will be visualised.

Description: *
 Type:
 Mon Tue Wed Thu
 Fri Sat Sun
 from: :
 to: :

If the "Monthly" type is selected:
 Fields indicating the days of the month and the times that identify from what time to what time the time period will be valid will be visualised.

Description: *
 Type:
 from: :
 to: :

01	02	03	04	05	06	07
08	09	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

If the "Yearly" type is selected:
 Fields indicating the month, the days of the month and the times that identify from what time to what time the time period will be valid will be visualised.

Description: *
 Type:
 from: :
 to: :


01	02	03	04	05	06	07
08	09	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

If the "Special event" type is selected:
 Fields indicating the month, the year, the days of the month and the times that identify from what time to what time the time period will be valid will be visualised

Description: *
 Type:
 from: :
 to: :

01	02	03	04	05	06	07
08	09	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Once the fields have been set click on  to save; the table at the side will show the time band that has just been set.

Click on  to save the various settings and the table of time periods will be updated.

Modifying time bands

Select the time band to be modified from the time period table with a double click.

admin PlantVisorPRO 2006/10/06 16:04:20
Restart engine in 'System page'

Global Area 1

Alarms and events management

Rules Alarm conditions Event conditions **Time bands** Actions

IDE	Description	Type
	Sempre/Always/Toujours/Immer	Daily
	Time band 1	Daily

Time bands

Description
Time band 1 *

Type
Daily

from 00 : 00
to 00 : 00

#	Value
1	00:00-23:00

Modify the values as indicated in creating a time band.

To save the various modifications click on  and the time period table will be updated.

Deleting a time band

Select, the time band to be deleted from the table by clicking on it.

admin PlantVisorPRO 2006/10/06 16:04:48
Restart engine in 'System page'

Global Area 1

Alarms and events management

Rules Alarm conditions Event conditions **Time bands** Actions

IDE	Description	Type
	Sempre/Always/Toujours/Immer	Daily
	Time band 1	Daily

Time bands

Description
Time band 1 *

Type
Daily

from 00 : 00
to 00 : 00

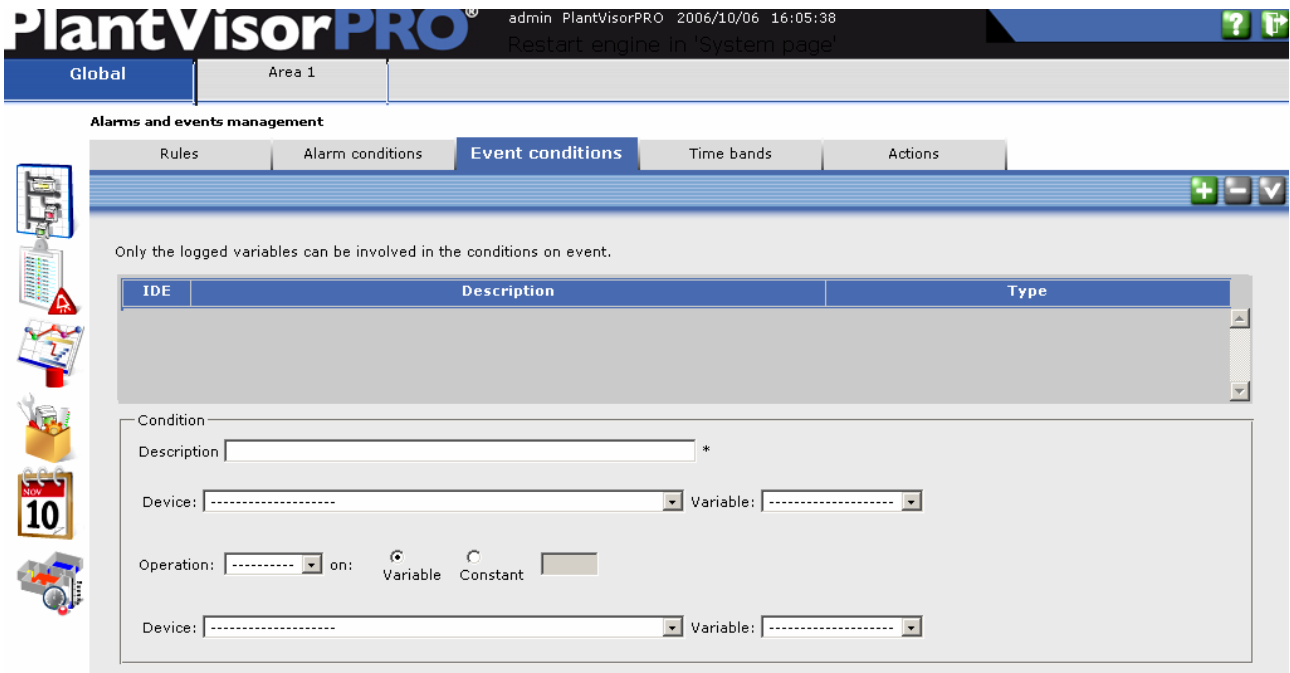
#	Value
---	-------

Click on  and the time period table will be updated deleting the selected time band from the table.

11.1.3 Condition on event

If an action is to be conditioned with a determined status of a variable, select the "Event condition" tab.

The following page will open:



Introduce the mnemonic description of the event condition to be set in the "Description" field

Select the first device to be used for this condition in the "Device" field.

Select the variable of the first device that is to be used for this condition in the "Variable" field.

Select the operation that the variable interested in this event must undergo in the "Operation" field.

Select "Variable" if the variable of the first device must be compared, with the pre-selected operation, with another variable of another device.

Select "Constant" if the variable of the first device must be compared, with the pre-selected operation, with a numerical constant.

If "Constant" is selected the field will be activated into which the constant can be introduced.

If "Variable" is selected the following two fields will be activated:

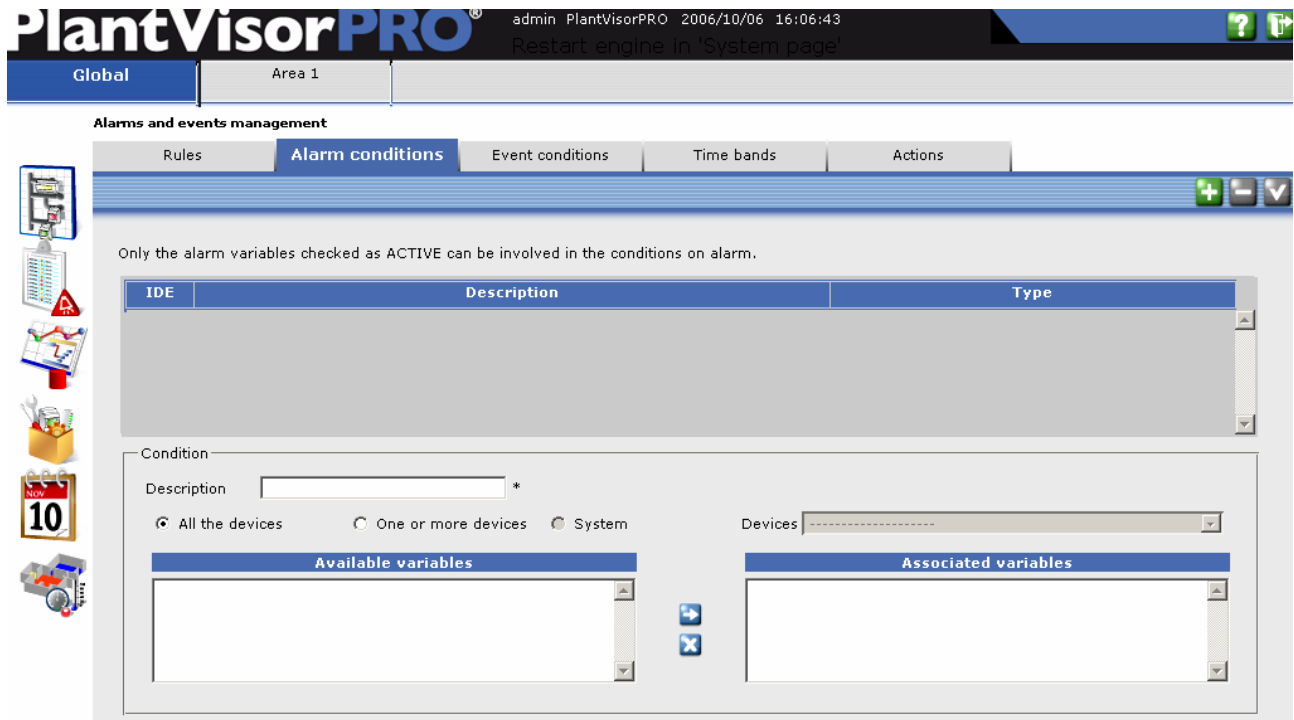
- "Device" field: this field is used to select the device to which the second variable belongs that is to be used in the event condition
- "Variable" field: this field is used to select the second variable that is to be used in the event condition

11.1.4 Condition on alarm

To introduce an alarm condition into the supervisor, operate as follows:

Select the "Alarms condition" tab.




The following page will open:



Introduce the mnemonic description of the alarm event to be introduced into the "Description" field.

Select "All devices" in order to consider all alarms configured in all devices. If at least one alarm is active the condition is true.

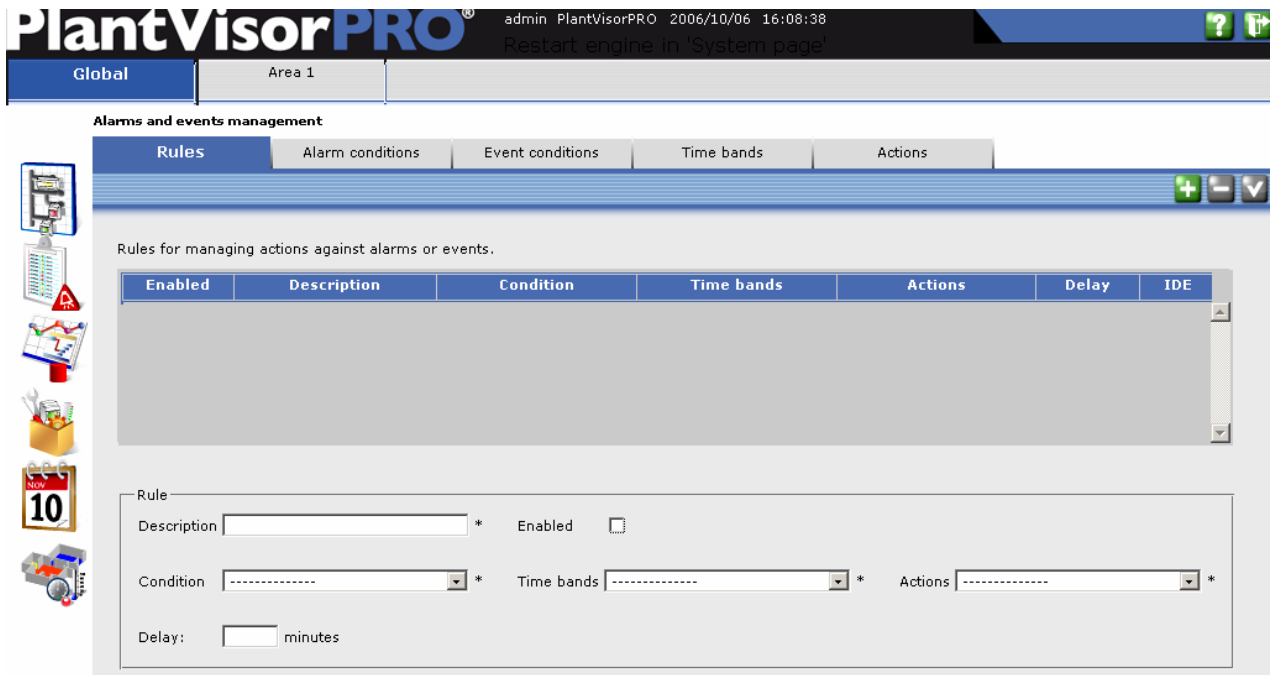
Select "One or more devices" in order to select the alarms from specific devices:

- a) Select the device from the "Device" field. The list of alarms of that device will be visualised in the "Alarm variables" table.
- b) Select the variables from the "Alarm variables" table
- c) Click on , the alarms selected in the "Configured alarms" table will be visualised
 - i) If a mistake is made during introduction, select the incorrect item in the "Configured alarms" table.
 - ii) Click on ; the incorrectly introduced item will no longer appear in the "Configured alarms table".
- d) Click on  to save the alarm conditions.

11.1.5 Rules

Select the "Rules" tab

The following page will open:



Introduce the mnemonic description of the rule to be introduced into the "Description" field.

To enable the rule select the "Enable" field.

Select the triggering condition of the rule from the "Condition" field.

Select the time band the rule is valid from the "Time period" field.

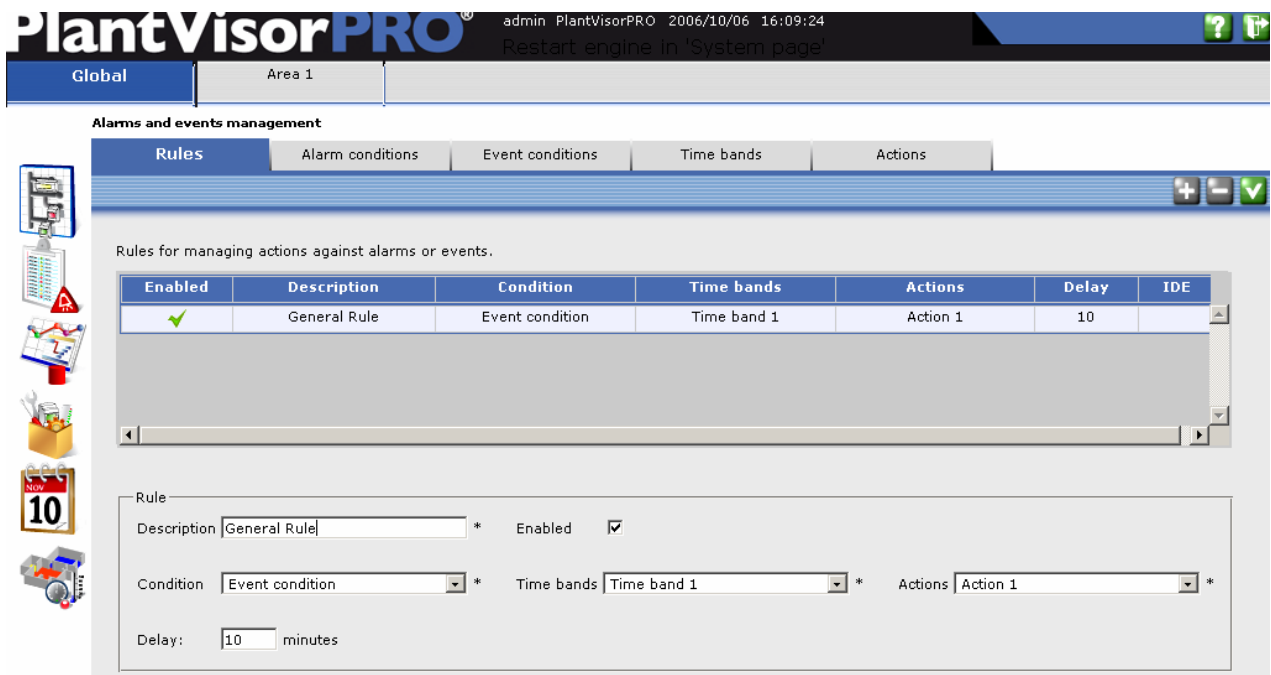
Select the actions that the rule must carry out when the "Actions" field is activated.

Set the delay minutes that must pass from verification of the condition to carrying out of the action in the "Delay" field.


Click on  to save the various settings and the rules table will be updated

Modifying the rules

Select the rule to be modified from the rules table by double clicking on it.



Modify the values as indicated in creating a rule.

Click on  to save the various settings and the rule table will be updated

Deleting rules

Select the rule to be deleted from the rules table by clicking on it.

PlantVisorPRO admin PlantVisorPRO 2006/10/06 16:09:50
Restart engine in 'System page'

Global Area 1

Alarms and events management

Rules Alarm conditions Event conditions Time bands Actions

Rules for managing actions against alarms or events.


Enabled	Description	Condition	Time bands	Actions	Delay	IDE
<input checked="" type="checkbox"/>	General Rule	Event condition	Time band 1	Action 1	10	

Rule

Description * Enabled


Condition * Time bands * Actions *

Delay: minutes

Click on  and the rules table will be updated deleting the selected rule.

11.2 Scheduled activity management



To access scheduler management based on alarms and events place the mouse arrow on the  icon. The Scheduler menu will appear; select "Scheduled activity management". The following page will be visualised.

PlantVisorPRO admin PlantVisorPRO 2006/10/06 16:18:34

Global Area 1

Scheduled activities management

Rules Time bands Actions

Rules for managing scheduled actions.

Enabled	Description	Time bands	Actions	Delay	IDE
<input checked="" type="checkbox"/>	General Rule	Time band 1	Action 1	10	

Rule

Description * Enabled

Time bands * Actions *

Delay: minutes

11.2.1 Actions

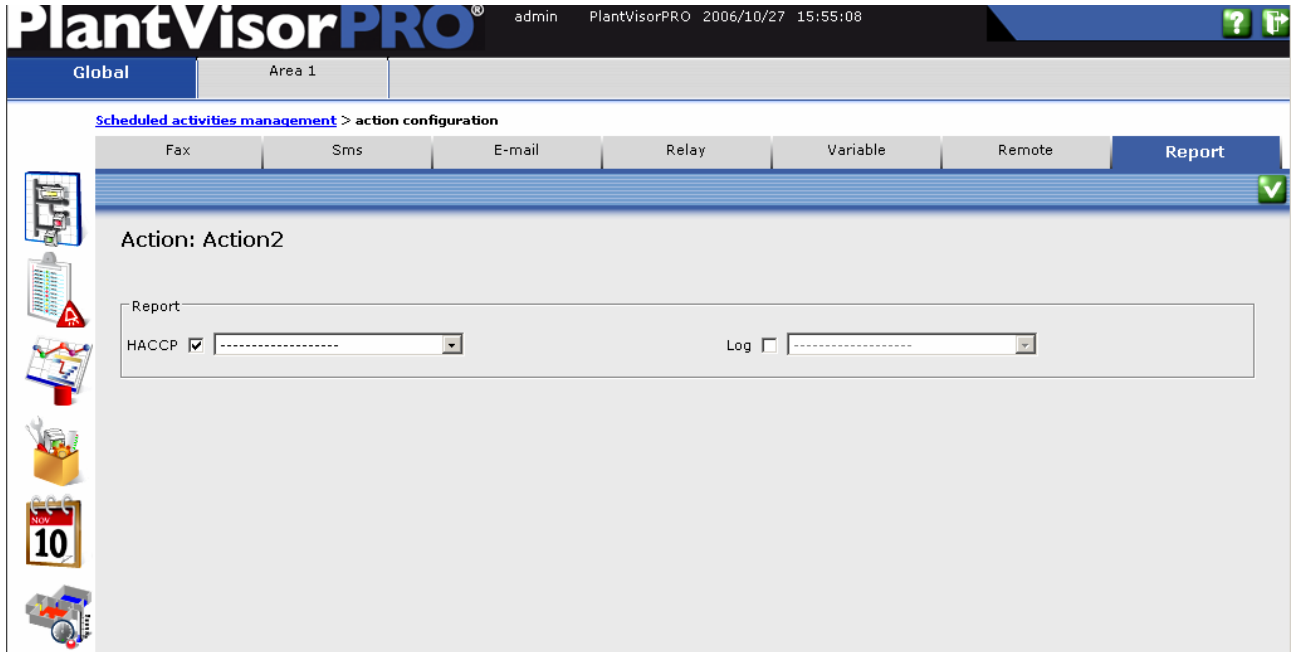
The actions for this section are set exactly like the "Alarms and events management" of the "Actions" section, with two exceptions:

- print action and window visualisation do not exist
- the report management section exists

For all other settings therefore, see the "Alarms and events management" of the "Actions" section and functioning of the settings for the report will be explained successively.

Report

Select the report tab and the following page will be visualised



By using this action it is possible to set start-up of a conditioned report.

Select the type of report to be carried out, "HACCP" or "Log", then select the name of the report by means of the relative drop down menu, finally

click on  to save.

Going back to the action rule configuration page

Click on the link in the top right of the page



Go back to the action rule configuration page.

11.2.2 Time bands

The time periods are set as for the "Alarms and events management" section, therefore refer to the relative section.

11.2.3 Rules

Select the "Rules" tab

The following page will open:

PlantVisorPRO admin PlantVisorPRO 2006/10/06 16:29:18

Global Area 1

Scheduled activities management

Rules Time bands Actions

Rules for managing scheduled actions.

Enabled	Description	Time bands	Actions	Delay	IDE
---------	-------------	------------	---------	-------	-----

Rule

Description: * Enabled:

Time bands: * Actions: *

Delay: minutes

Introduce the mnemonic description of the rule to be set into the "Description" field.

To enable the rule select the "Enable" field.

Select the time band the rule is valid from the "Time period" field.

Select the actions that the rule must carry out when the "Actions" field is activated.

Set the delay minutes that must pass from verification of the condition to carrying out of the action in the "Delay" field.

Click on  to save the various settings and the rules table will be updated

Modifying the rules

Select the rule to be modified from the rules table by double clicking on it.

PlantVisorPRO admin PlantVisorPRO 2006/10/06 16:31:10

Global Area 1

Scheduled activities management

Rules Time bands Actions

Rules for managing scheduled actions.

Enabled	Description	Time bands	Actions	Delay	IDE
<input checked="" type="checkbox"/>	schedule	Time band 1	Action2	10	


Rule

Description: * Enabled:

Time bands: * Actions: *

Delay: minutes

Modify the values as indicated in creating the rule.

Click on  to save the various settings and the rules table will be updated.

Delete rules

Select the rule to be deleted from the rules table by double clicking on it.

PlantVisorPRO[®] admin PlantVisorPRO 2006/10/06 16:32:19

Global Area 1

Scheduled activities management

Rules Time bands Actions

Rules for managing scheduled actions.

Enabled	Description	Time bands	Actions	Delay	IDE
<input checked="" type="checkbox"/>	schedule	Time band 1	Action2	10	

Rule

Description * Enabled

Time bands * Actions *

Delay: minutes

Click on  and the table of rules will be updated without the rule that has just been deleted.

12. User and user profile management in the PlantVisorPRO

In order to create a user in the PlantVisorPRO it must be associated with a profile.

A profile is a set of all rights of access to the various sections of the programme, whether just for navigation among the data or for their modification.

The set of rights of access that can be configured are:

- Possibility of just reading and/or reading/writing by the user of that profile in determined sections of the programme.
- Possibility of access to determined groups and/or areas



To access user configuration place the mouse arrow on the icon. The "Configuration" menu will appear; select "User configuration". The following page will be visualised

PlantVisorPRO[®] admin PlantVisorPRO 2006/10/06 16:34:31
Restart engine in 'System page'

Global Area 1

User configuration

Users Profiles

To edit a configured user double click the corresponding row in the list below.
To remove an user, select the row in the list below and then click the image '-'

Users	Profiles
admin	System Administrator

User

User

Profile

Password

Confirm password

12.1 Management of user profiles

To access user profile management select the "Profiles" tab. The following page will be visualised.

PlantVisorPRO admin PlantVisorPRO 2006/10/06 16:38:28
Restart engine in 'System page'

Global Area 1

User configuration

Users Profiles

Description

System Administrator

Profile

Description

Function	No access	Read-only access	Read and write access
Site configuration (devices, areas, groups)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manufacturer parameters	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Service parameters	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Acknowledge of alarms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cancel actions of alarms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Enabled	Area
<input checked="" type="checkbox"/>	Global
<input checked="" type="checkbox"/>	Area 1

Enabled	Group
<input type="checkbox"/>	Group 1

12.1.1 Creating a user profile

Introduce the name of the new profile to be set into the "Description" field

Decide, by means of the selection of the functionality access table, the possibility of reading and writing for this profile:

- No access: this user profile cannot access this functionality
- Only reading access: this user profile can access this functionality but cannot modify it
- Reading and writing access : this user profile can access this functionality and can modify it as desired

Successively select the areas and groups to which the user has access.

Once configuration has been completed, click on to save the settings. The table containing the list of profiles will consequently be updated.

12.1.2 Modifying a user profile

Double click on the profile to modify

PlantVisorPRO admin PlantVisorPRO 2006/10/06 16:40:00
Restart engine in 'System page'

Global Area 1

User configuration

Users Profiles

Description

System Administrator

Profile

Description New Profile

Function	No access	Read-only access	Read and write access
Site configuration (devices, areas, groups)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manufacturer parameters	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Service parameters	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Acknowledge of alarms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cancel actions of alarms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

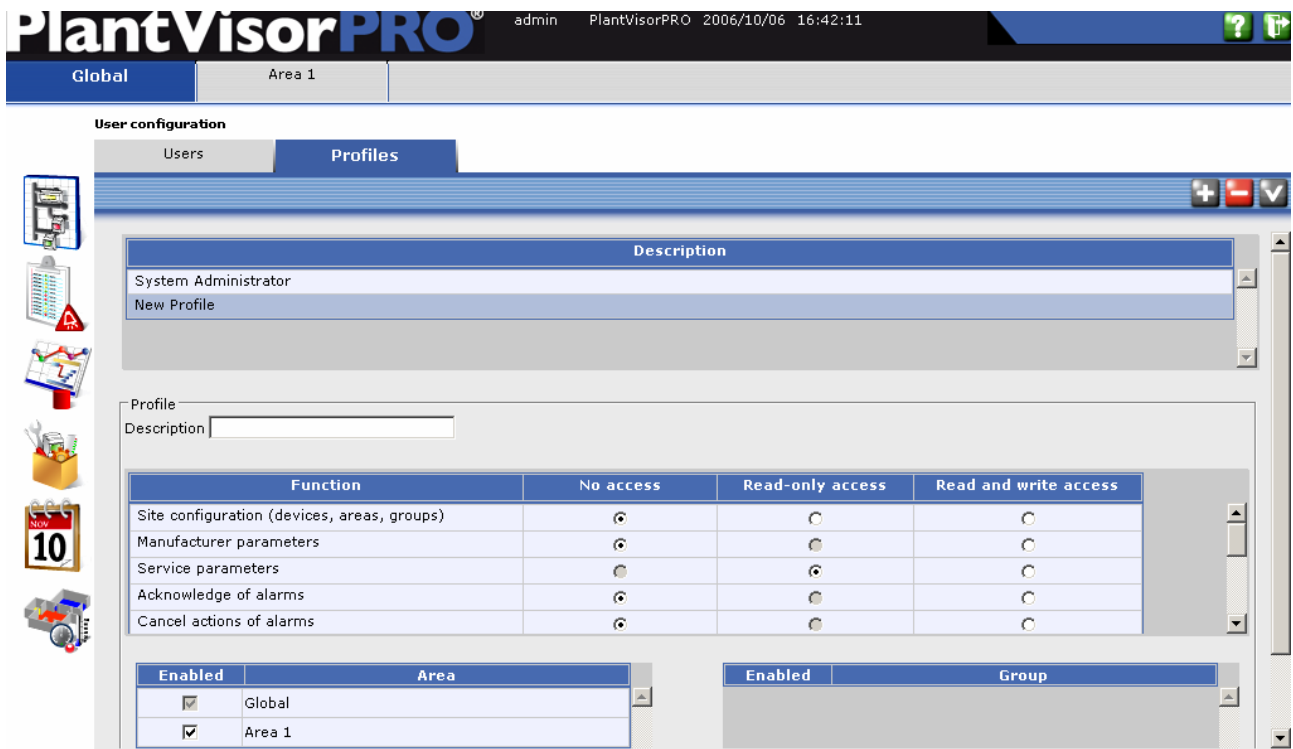
Enabled	Area
<input checked="" type="checkbox"/>	Global
<input type="checkbox"/>	Area 1


Enabled	Group
<input checked="" type="checkbox"/>	Group 1

Modify the data as indicated in the profile creation paragraph. Once this has been carried out, click on to save the modifications.

12.1.3 Deleting a user profile

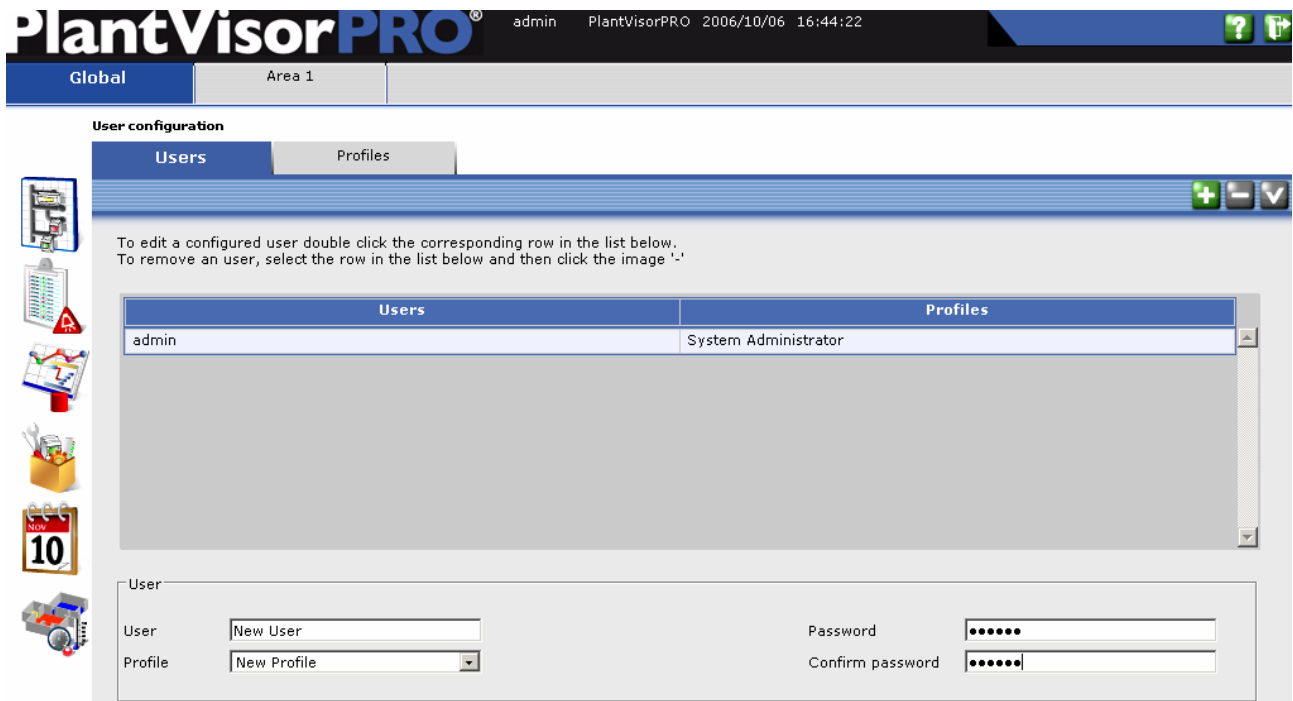
Select the profile to delete



Click on  and the profile list will be updated without the profile that has just been deleted.

12.2 User management

To access user profile management select the "User" tab. The following page will be visualised.



12.2.1 Creating a user

To create a user it is necessary to:

- Set the "User" field with the unmistakable identification that is to be assigned to the new user
- Select the profile in the "Profile" field
- Introduce the password into the "password" and "confirm password" fields (the password is used to protect user access).

Then click on  to save the settings, the table of the list of users will consequently be updated.

12.2.2 Modifying a user

Double click on the user to be modified

PlantVisorPRO[®] admin PlantVisorPRO 2006/10/06 16:45:20

Global Area 1

User configuration


Users Profiles

To edit a configured user double click the corresponding row in the list below.
To remove an user, select the row in the list below and then click the image '-'.

Users	Profiles
admin	System Administrator
New User	New Profile

User: Password:

Profile: Confirm password:

Modify the data as indicated in the creating a user paragraph. Once this has been carried out click on  to save the modifications.

12.2.3 Deleting a user

Select the user to be deleted

PlantVisorPRO[®] admin PlantVisorPRO 2006/10/06 16:52:21

Global Area 1

User configuration

Users Profiles

To edit a configured user double click the corresponding row in the list below.
To remove an user, select the row in the list below and then click the image '-'.

Users	Profiles
admin	System Administrator
New User	New Profile


User: Password:

Profile: Confirm password:

Click on  and the user list will be updated without the user that has just been deleted.

13. System page



To access the situation and data of the system place the mouse arrow onto the mouse  icon. The "Configuration" menu will appear. Select "System page".

The following page will appear where all data relative to the operational system of the computer and supervisor is listed, as per when installed.

13.1 Information

PlantVisorPRO admin PlantVisorPRO 2006/10/06 17:59:28
Restart engine in 'System page'

Global Area 1

System pages

Information System IDE Support GUARDIAN

System	Windows XP 5.1 Service Pack 2
System language	US_en
Processor	Vendor ID: IDT\Centaur, Via Inc. CPU Type ID: 0 Family ID: 6 Model ID: 9 Stepping Code: 8 Brand ID: VIA Nehemiah
Total physical memory (RAM)	491,000 KB
Used physical memory (RAM) percentage	51 %
Used CPU percentage	3 %
Free space	35,138 MB
Used space	3,008 MB
MAC address	000-144-005-214-014-250
Version	PlantVisorPRO version 1.1b2
Product folder	C:\Carel\PlantVisorPRO\
Software folder	C:\Carel\PlantVisorPRO\engine\webapps\WebSupervisor\
Installation	Local
Type	Enterprise
Code	WEWE-xcxe-rewer
Activation code	123123ERCCCer43

13.2 System

To verify system status and carry out operations on the supervisor system click on the "System" tab.

PlantVisorPRO admin PlantVisorPRO 2006/10/06 17:59:59
Restart engine in 'System page'










Global Area 1

System pages

Information **System** IDE Support GUARDIAN

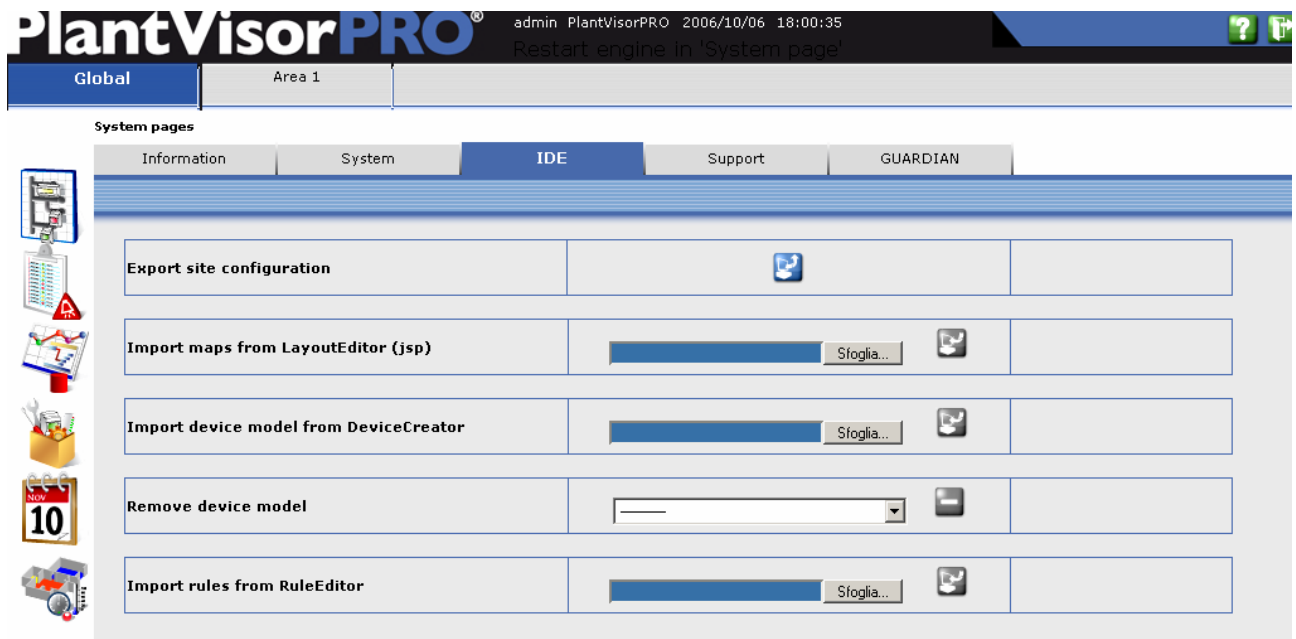
Engine status	 	Active
Refresh I/O peripherals		
Change logo of the header of the pages	<input type="text"/> <input type="button" value="Sfoglia..."/>	
Change 'Login page' image	<input type="text"/> <input type="button" value="Sfoglia..."/>	
Export site configuration		
Import site configuration	<input type="text"/> <input type="button" value="Sfoglia..."/>	

The table below explains the various functions

Item	Explanation
Motor status	Stop () or re-activate () the supervisor motor
Refresh I/O peripherals	Updating of the I/O peripherals ()
Change the logo in the page heading	By means of the "Browse..." key it is possible to select an image for customisation with your logo in the heading of the PlantVisorPRO page
Change the image in the Login page	By means of the "Browse..." key it is possible to select an image for customisation with a picture in the PlantVisorPRO login page
Export site configuration	By means of the () key it is possible to export site configuration in a file
Import site configuration	By means of the "Browse" key it is possible to look for a previously exported configuration file, once selected, click on () to make it operational
Export rules configuration	By means of the () key it is possible to export the rule configuration set in the site in a file
Import rules configuration	By means of the "Browse" key it is possible to look for a previously exported rule configuration file, once selected, click on () to make it operational
Backup of the site	By means of the () key it is possible to create a site backup file
Restoring the site	By means of the "Browse" key it is possible to look for a previously created backup file, once selected, click on () to make it operational

13.3 IDE

To introduce material created with the PlantVisorPRO IDE select the "IDE" tab. The following page will be visualised.



Through this page it is possible to introduce variations in the PlantVisorPRO system using the IDE. For more details refer to the IDE manual.

13.4 Support

In order to send the supervisor log via e-mail to a help and support centre, select the "Support" tab. The following page will be visualised.

PlantVisorPRO admin PlantVisorPRO 2006/10/06 18:01:16 Restart engine in 'System page'

Global Area 1

System pages

Information System IDE Support GUARDIAN


In this page it is possible to gather information to send to customer service when problems arise.


Send all log files to customer service by e-mail.

Customer service e-mail :

Comment :

Export all log files in folder C:\Carel\PlantVisorPRO\Logs.zip

Introduce the receiver's e-mail address into the "Assistance centre e-mail" field then write a comment and click on .

If the logs must just be exported in order to examine them, click on  in the "Export all log files" section.

14. Initialisation of the site modem

How, various problems

14.1 Introduction

The modems that can be used for the connection can be heterogeneous, of different manufacturer, different type (e.g. PCI/USB/SERIAL), same manufacturer but different models, same manufacturer but different firmware, different operational system, different modem driver, different driver versions. Normally when there are connection problems (apart from PlantVisorPRO), it is necessary to operate on some modem parameters, such as the Baud Rate, compression or on the modem protocol, in order to find a combination that allows an optimal connection. It is therefore advised NOT to purchase a wide variety of modem models. The best situation should consist in one type of modem for each installation.

14.2 Modifying the system modem configuration

The modem can be configured globally by means of the Microsoft Windows control panel. This configuration is valid in general, but in the connection to the PlantVisorPRO remote node that uses the RAS, this is not so.

(RAS: Remote Access Service for more details refer to the "Microsoft MSDN Studenti" site:

<http://www.microsoft.com/italy/msdn/studenti/reti/componenti/ras.asp>

or MSDN in English:

http://msdn.microsoft.com/library/default.asp?url=/library/en-us/ras/ras/ras_start_page.asp)

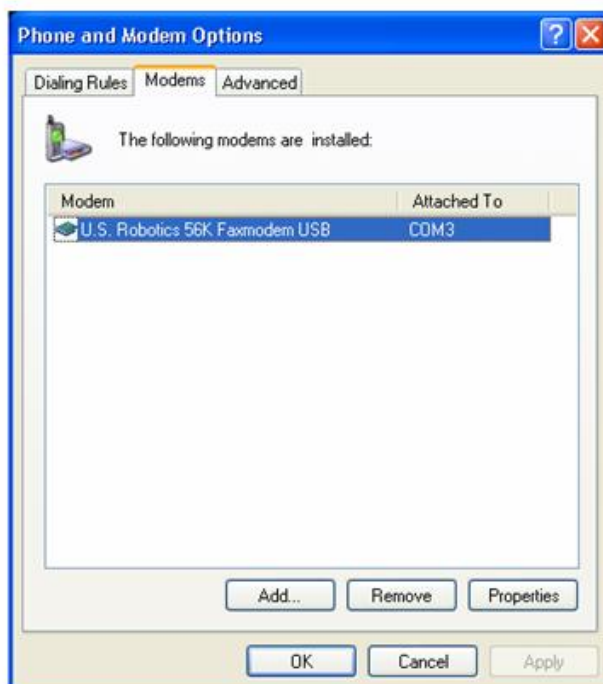
The explanation of how to configure the connection is found successively in this guide.



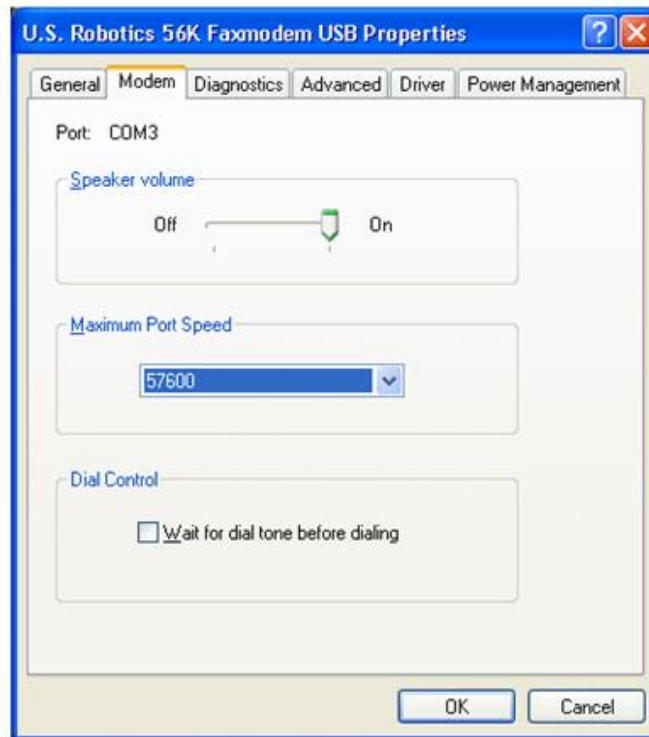
To configure the modem go to Start -> Control panel -> Phone and Modem Options.



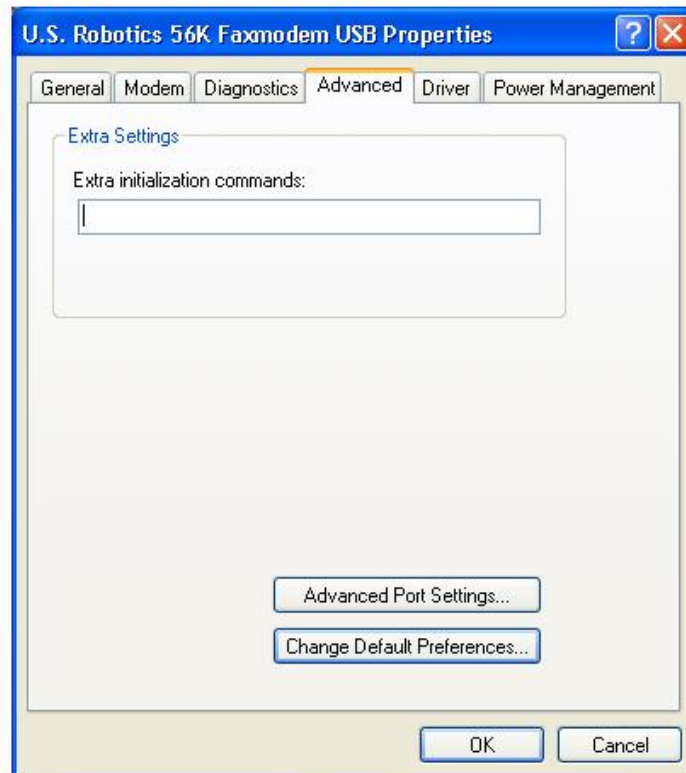
Select the Modem icon.



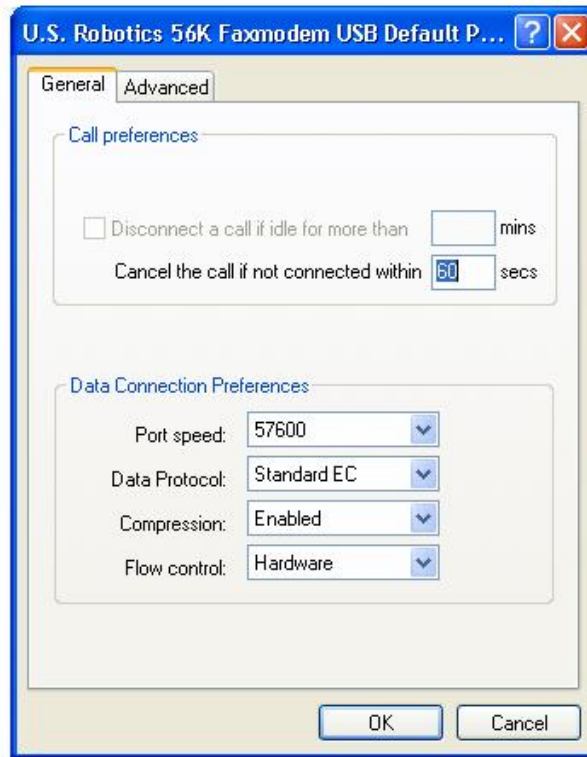
Then select the modem from the list and then press the Properties button.



A window then appears that contains several items, select Modem. It is important that the "Wait for dial tone before dialling" selection box is not enabled (see figure below). In fact, this prevents the modem from calling nations such as Italy in which the call tone is not present. Some modem drivers, activate the selection box even if the operational system is in a language and set in a time zone where the selection box must be disabled.



By clicking the Advanced tab and then the "Change Default Preferences..." button enter into modem parameters configuration.



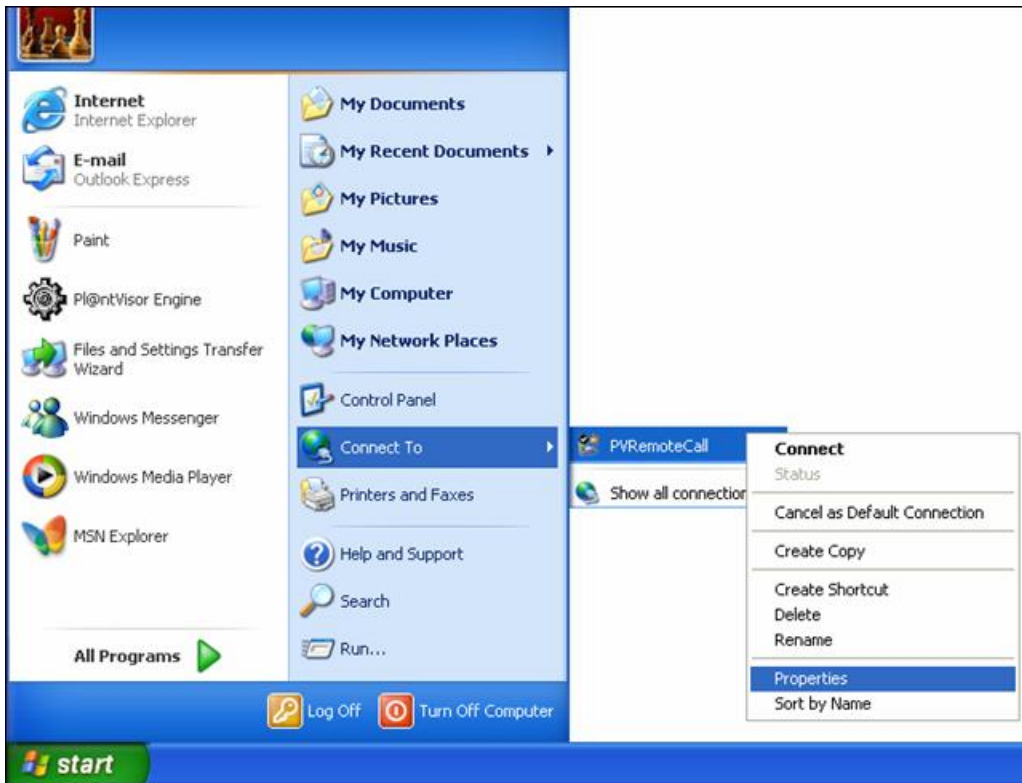
In this window it is possible to modify the modem communication channel parameters. If the two modems (local and remote) are identical, generally the two settings in this window will be identical. If the modems are different and there are communication problems, a combination must be found that allows correct functioning. Generally, first act on the compression, then on the protocol and finally on the speed.

14.3 Optimising the PlantVisorPRO Locale and PlantVisorPRO Remoto connection

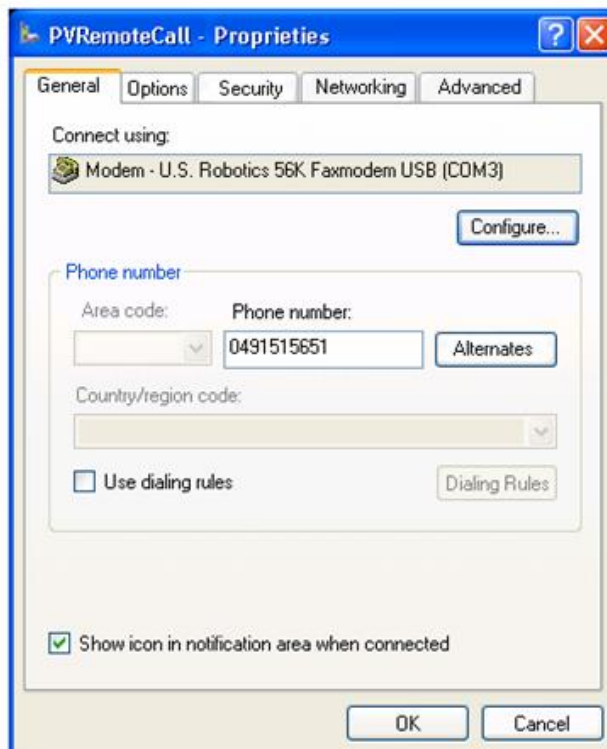
The PlantVisorPRO Remoto connection with the PlantVisorPRO Locale, can be optimised thanks to a characteristic of Internet Explorer. In fact, when Internet Explorer navigates on any site (like the PlantVisorPRO), preserves the images downloaded onto the computer's hard disk. If the content of the images is not changed in the server, at the next connection, Internet Explorer does not request the images again and uses those kept in the disk. Therefore the speed of sending the information from the server to Internet Explorer increases in the sense that less data is transferred.

14.4 Modifying the user modem configuration for connections to RAS nodes

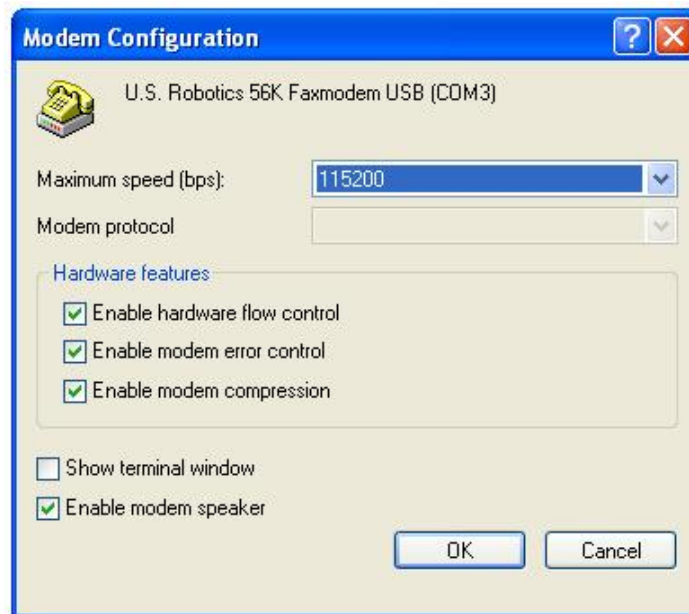
The part of the programme that manages the connection between local and remote, before making the call with the modem, creates a recording of the connections and calls it PVRemoteCall. This connection is found in Windows XP in the following route, "Start -> Connect to". In order to configure the connection parameters, use the right key to click on the PVRemoteCall icon and then click on "Properties".



This connection can be used to call a remote node apart from that from the supervisor. The following window will then appear.



Then press "Configure" and the following window will appear.



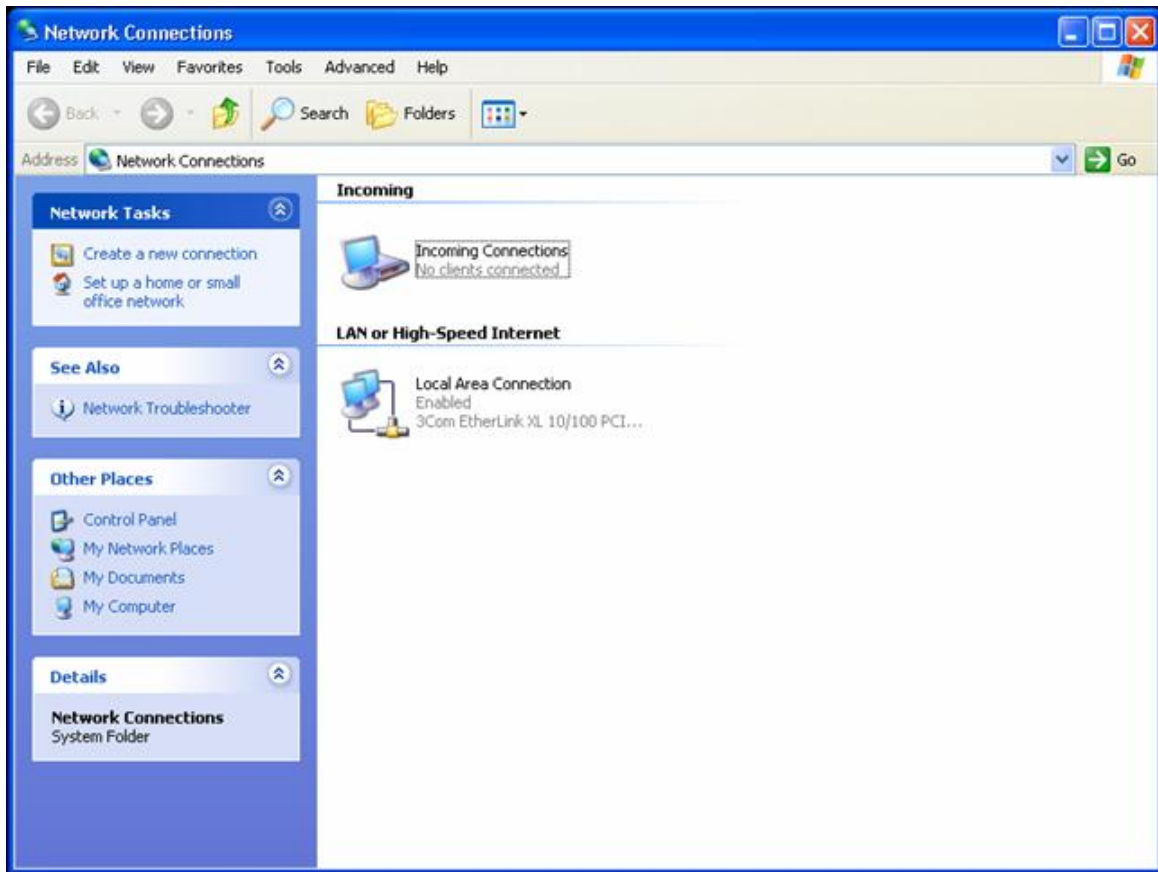
All of the parameters can be modified with the following criteria: first act on compression, then on protocol and finally the speed.

14.5 Configuration

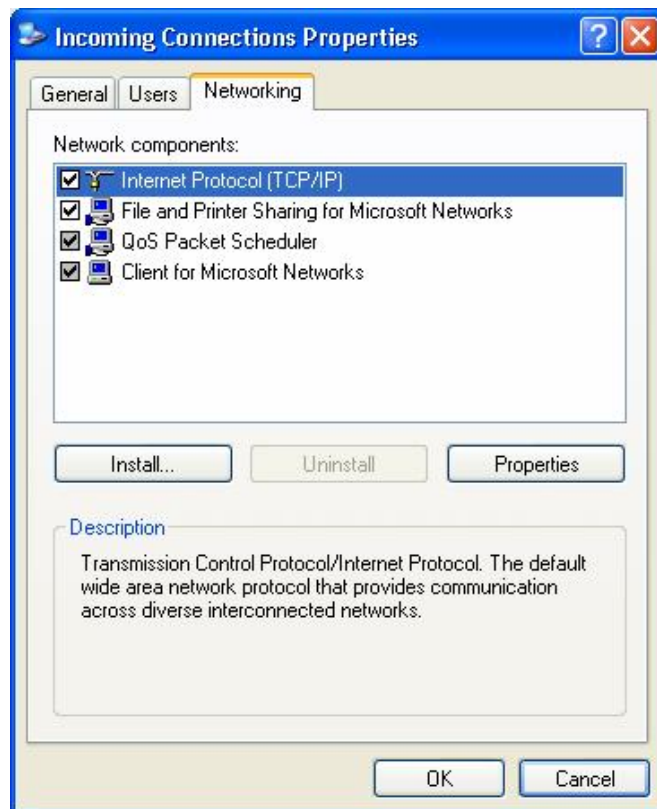
In order to obtain the characteristics described in the previous paragraph, the local node must undergo special configuration. This configuration consists in assigning a fixed IP address (Internet Protocol) to the local and the remote, when they are connected. To do this in Windows XP go to the menu item "Start" -> "Connect to" -> "Show all connection":



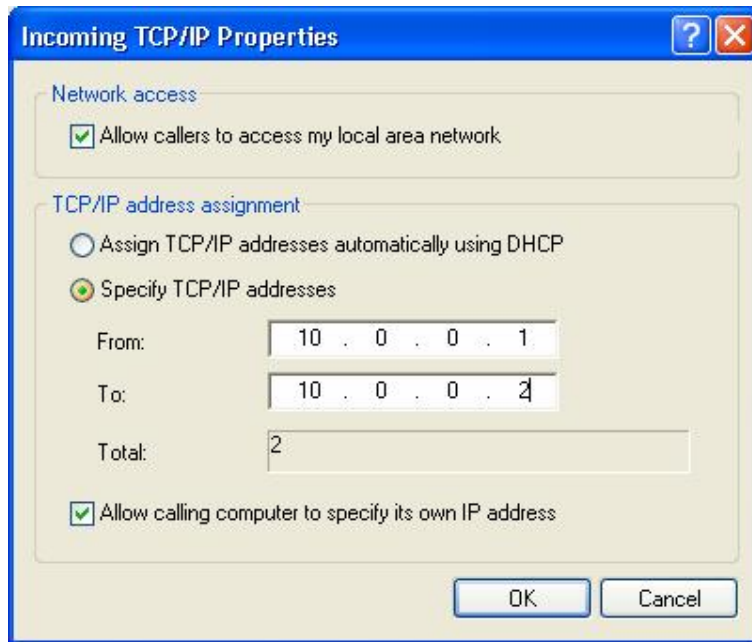
By doing this the following page will appear:



At this point double click on the "Incoming connection" icon, visualising the following page:



Select the Networking tab and then double click on Internet Protocol. The addresses are configured as shown below.



Attention: If the local supervisor cannot find a company computer network, the two addresses assigned can be set as shown above. If, however, the local computer is part of a computer network, the addresses must be in a different logic network with respect to the company computer network.

Example:

If the company network allows addresses from 10.0.0.1 to 10.0.0.254 (Netmask 255.255.0.0), it is necessary that the IP addresses assigned to the input connections are from: 10.0.0.1, to: 10.0.0.2.

It is also important that the two final numbers are adjacent.

Therefore it is not allowed to introduce values such as:

- From : 120.0.0.1
- To : 120.0.0.5

But the correct values are:

- From : 120.0.0.1
- To : 120.0.0.2

15. Glossary

Alarm: The alarms are status information sent by the supervision system devices and which are elaborated by these to give indications of anomalous situations or faults.

Alarm Active: These are alarms whose cause of triggering has not yet ceased.

Alarm Withdrawn: These are records of alarms whose cause of triggering has terminated.

Area: Logical unit of groups and/or devices.

Event: Events are information sent by devices, I/O peripherals or generated by the supervisor itself. This information communicates the general functioning status of the supervisor.

Group: Logical group of devices. Groups can be used to create group variables.

Device: This is an electronic device connected to a supervision network and which can be managed by PlantVisorPRO.

Report: Reports are tables depending on time that contain data of the historicised variables.

Alarms report: the alarms report is a table which, on the basis of a beginning and end data set by the user, visualises all alarms that have occurred during the indicated time span.

Daily report: The daily report is a table that visualises the values of several historicised variables selected by the user on the basis of indicated data.

Log report: The log alarms report is a table which, on the basis of a beginning and end data set by the user, visualises the values of historicised variables and selected by the user.

Instantaneous values report: The instantaneous values report is a table that visualises the instantaneous values (those detected on printing) of the variables of a given device.

Network: A network is a group of connected devices and supervised by PlantVisorPRO i.e. devices, converters, etc).

Site: A site is any type of installation managed by PlantVisorPRO. Normally the name of the site is used to indicate a PlantVisorPRO installation that can be reached from remote.

Supervisor: Programme able to manage the hardware connected to the computer. Its main task is to check the status of the devices and act according to the rules set by the user, keeping a trace.

Local supervisor: A local supervisor is a device control and management system.

Remote supervisor: A remote supervisor is a local supervisor centralised control system.

User: The user is a registered subject, authorised to access the supervisor.

Variable: Every device has variables, which are setting parameters and/or status conditions of the device itself.

Group variable: logical superstructure with writing variables that belong to different devices that are necessarily introduced into the same group.

CAREL

Technology & Evolution

CAREL S.p.A.
Via dell'Industria, 11 - 35020 Brugine - Padova (Italy)
Tel. (+39) 049.9716611 Fax (+39) 049.9716600
<http://www.carel.com> - e-mail: carel@carel.com

Agenzia / Agency: