

PlantVisorPRO Locale



Quick guide

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

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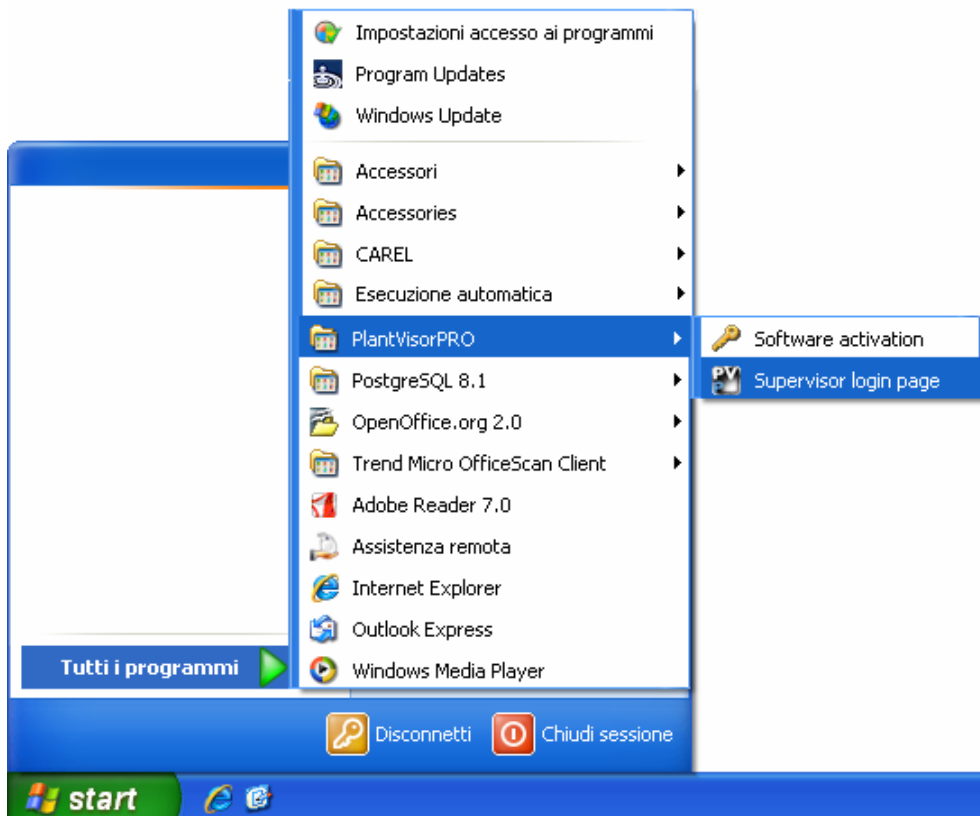
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1. Accessing the supervisor

To access PlantVisorPRO Locale, open the following page in the browser:



to do this, select the link called “Supervisor login page” under Program Files/PlantVisorPRO from the Windows “Supervisor login page” menu:



1.1. System authentication

To access PlantVisorPRO, type:

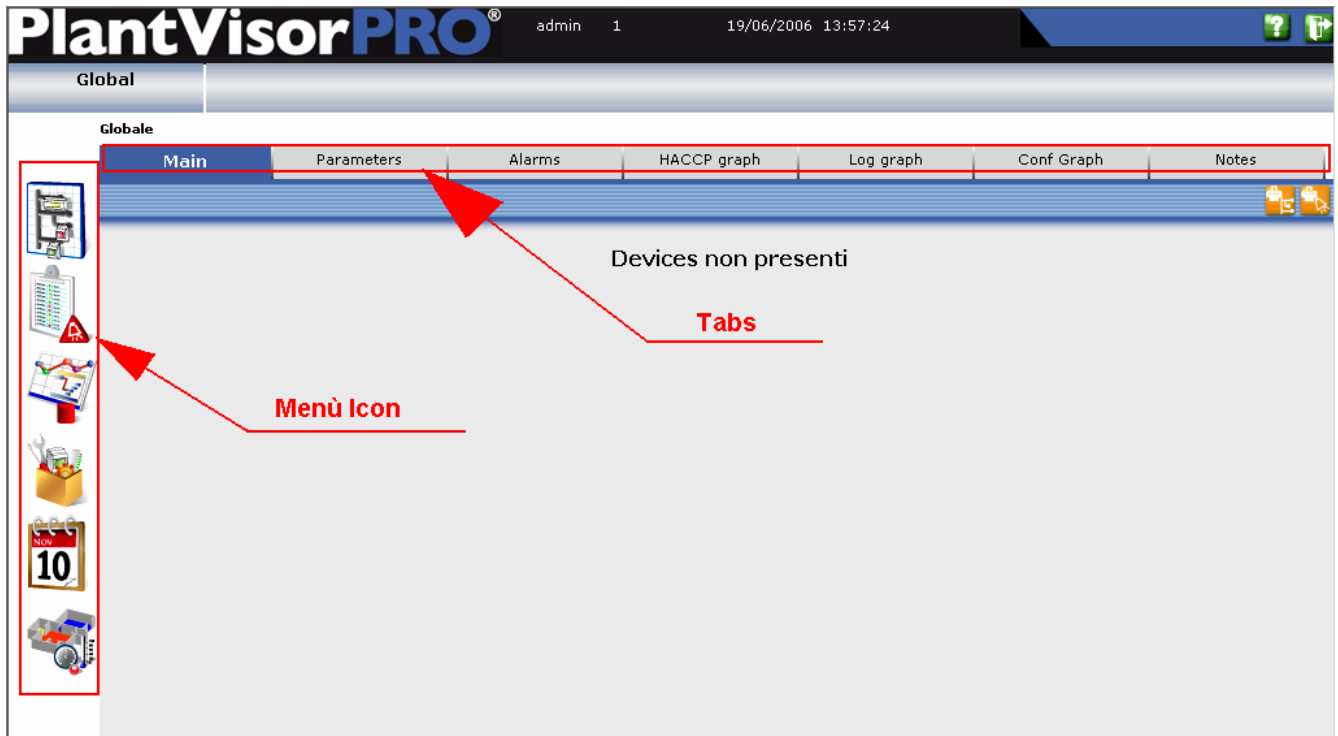
User **admin**

Password **admin**

(only use lower case)

and click "Login" to confirm access:

the following page will be displayed:




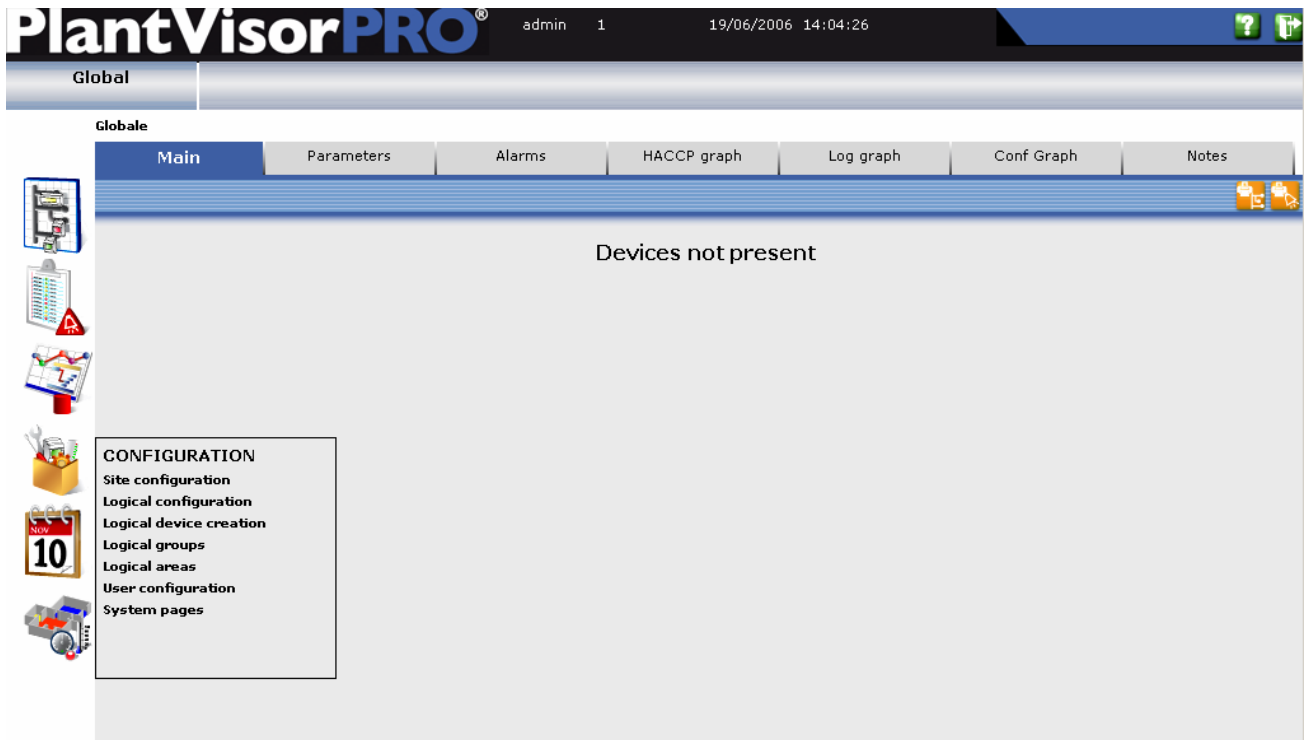
2. Configuring the devices in the site

The site is configured by setting the serial lines and the corresponding devices.

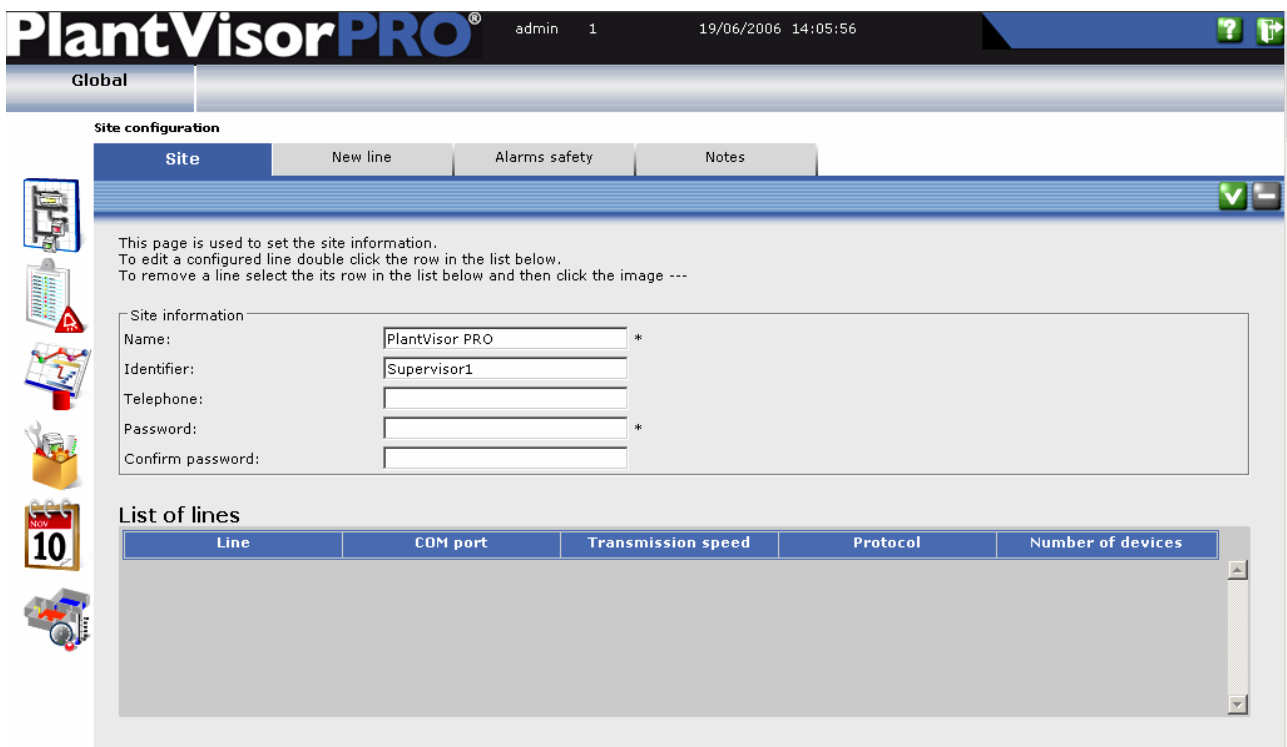
The devices are connected together by data lines; multiple lines are possible in the same installation. Each line is connected to a different serial port on the computer where the PlantVisorPRO Locale supervisor is installed.



To configure the site, move the mouse arrow to the  icon. a menu will be displayed; select the item "Site configuration".



The following page will be displayed:




In the "Name" field enter a name that identifies the installation where PlantVisorPRO Locale is installed. This site will be listed under this name on any Remote supervisors. (for example: "Supermarket Refrigeration")

The "Identifier" field allows the PlantVisorPRO Remote supervisor to distinguish a local installation from other local sites. As a result, in the "Identifier" field enter a different number from those used for the other sites. This field is used together with the password to control access when communicating with PlantVisorPro Remote. For the connection between the local and remote sites to be successful, the "Identifier" and "Password" must coincide on both supervisors. Consequently, enter a different string of characters and/or numbers in the "Identifier" field for each installation. One useful suggestion is to use the phone number of the site being configured as the identifier.

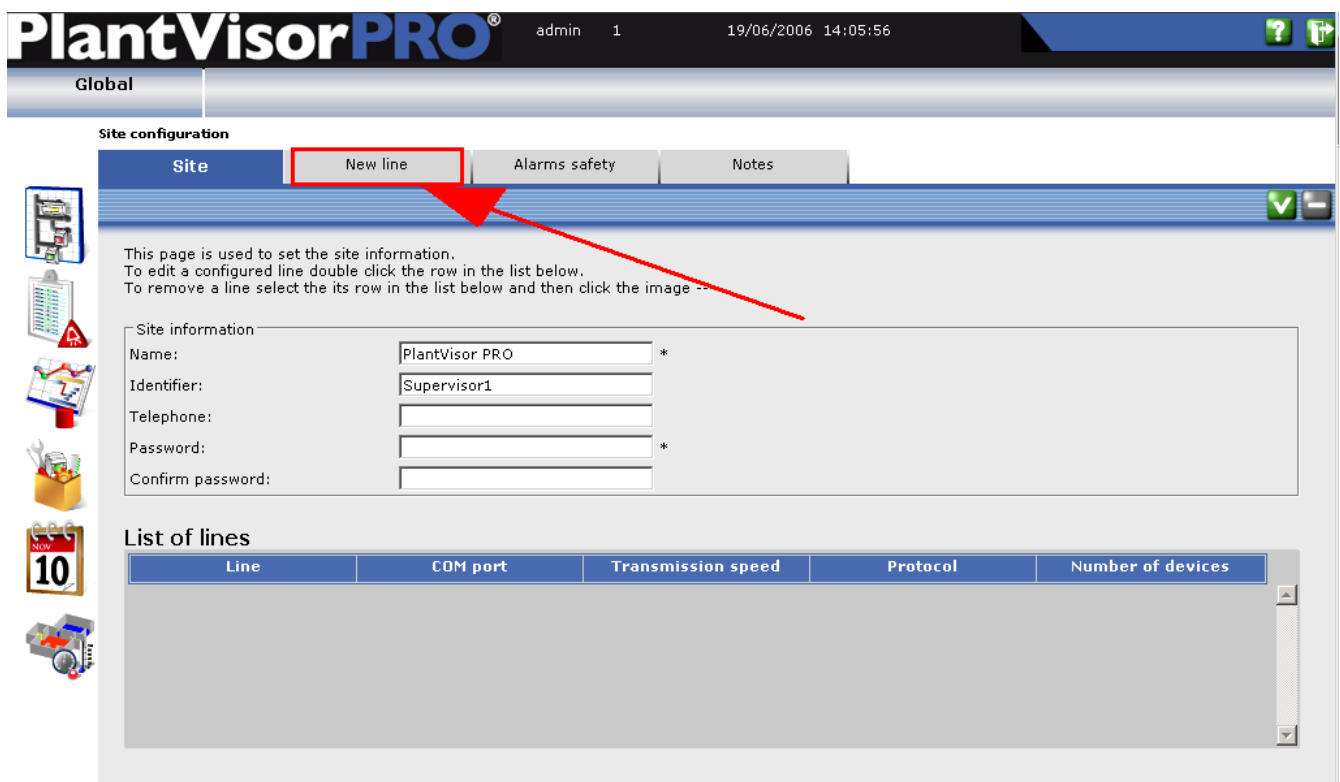
The "Telephone" field is a useful piece of information when the site is connected to a Remote supervisor via a dedicated modem. Enter the phone number of the line that the modem is connected to.

The "Password" field is required to protect access to the supervisory system when this is connected to a dedicated modem. The password is then required to access this site via a remote connection. The minimum number of characters is 6 and the maximum is 16, and distinction is made between upper and lower case.

In the "Confirm password" field repeat the same password. The password will only be accepted if the data in the "Password" and "Confirm password" fields are identical.

To save the settings, click .

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



The screenshot shows the PlantVisorPRO web interface. At the top, the logo 'PlantVisorPRO' is displayed along with user information 'admin 1' and a timestamp '19/06/2006 14:05:56'. Below the logo, there is a navigation bar with tabs: 'Global', 'Site configuration', 'New line', 'Alarms safety', and 'Notes'. The 'New line' tab is highlighted with a red box, and a red arrow points to it. Below the navigation bar, there is a 'Site information' form with the following fields:

- Name: PlantVisor PRO *
- Identifier: Supervisor1
- Telephone: (empty)
- Password: (empty) *
- Confirm password: (empty)

Below the form, there is a 'List of lines' table with the following columns:

Line	COM port	Transmission speed	Protocol	Number of devices
(Empty table body)				

The following page will be opened:

PlantVisorPRO admin 1 19/06/2006 14:11:06

Global

Site configuration

Site New line Alarms safety 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

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

From address

To address

Set :


- the serial port on the computer that the converter is connected to (usually COM1) in the “COM port” field,
- the transmission speed of the port (usually 19200 baud) in the “Baud rate” field,
- the type of communication protocol, which depends on the type of device and the type of serial converter used, in the “protocol” field.

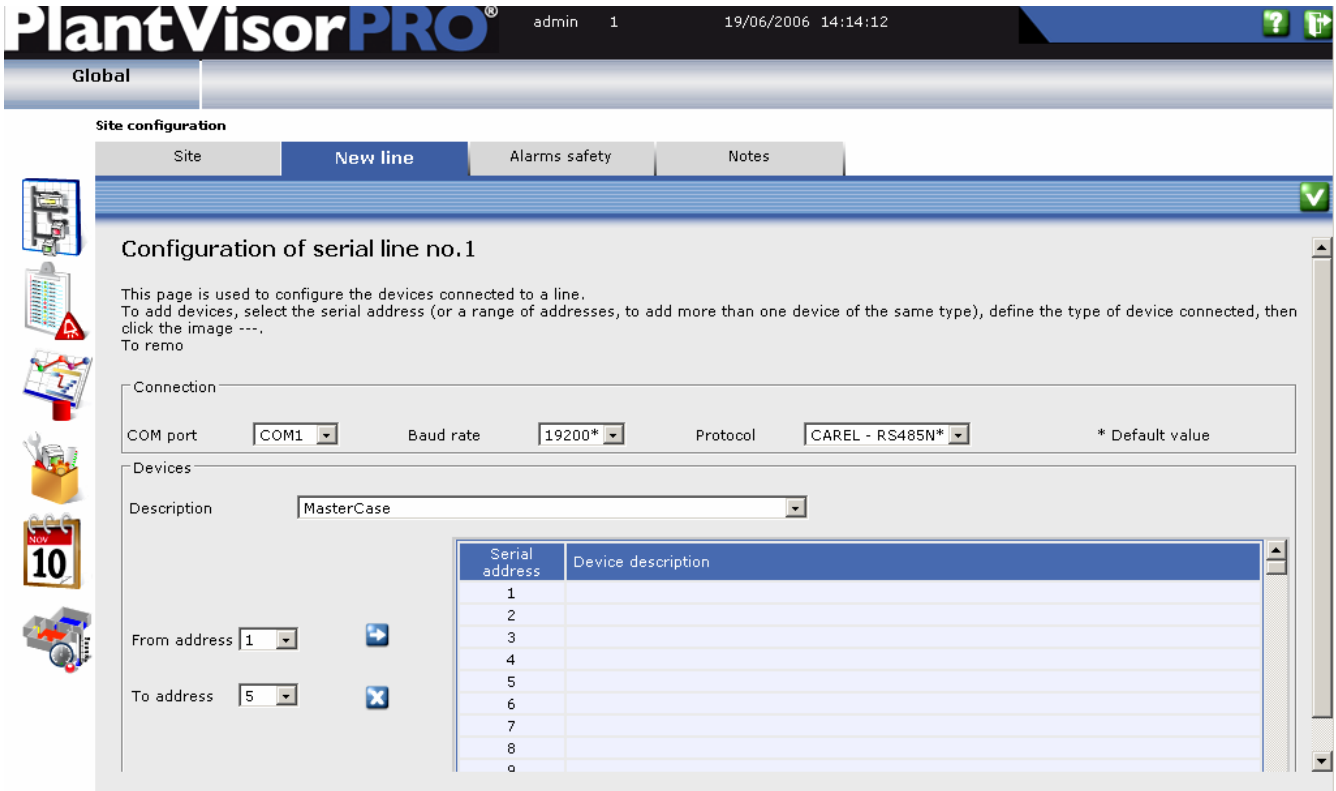
Note:

the RS485 protocol is used for the PC485KIT00 converter (98C425C001)

the RS485N protocol is used for the PC-Gate serial converter (CVSTD00000) or for the USB converter (CVSTDUMOR0)

Each line contains devices that must each be set with their own address.

With reference to the “Devices” section, enter the devices in the serial line: select the first address from the “From address” list, the last address from the “To address” list, and the type of device entered within such range from the “Description” list, then click .



PlantVisorPRO admin 1 19/06/2006 14:14:12

Global

Site configuration

Site **New line** Alarms safety 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 remo


Connection

COM port Baud rate Protocol * Default value

Devices

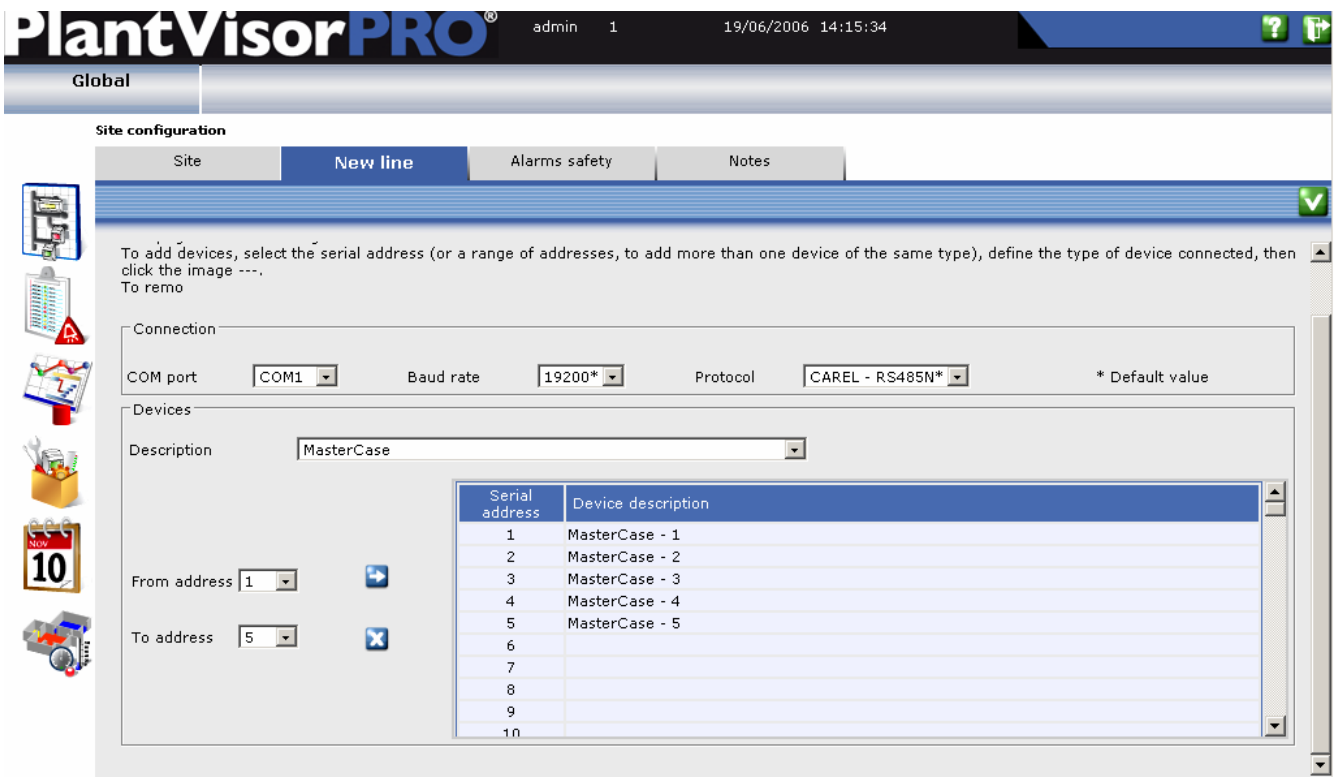
Description

From address 

To address 

Serial address	Device description
1	
2	
3	
4	
5	
6	
7	
8	
9	
0	

the set configuration will be displayed in the list of devices:



PlantVisorPRO admin 1 19/06/2006 14:15:34

Global

Site configuration

Site **New line** Alarms safety 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 remo


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	

Clicking  saves the settings and returns to the “Site configuration” page.

3. Changing the device settings

PlantVisorPRO[®] admin 1 19/07/2006 14:21:59

Global

Site configuration

Site New line Alarms safety Notes

This page is used to set the site information.
To edit a configured line double click the row in the list below.
To remove a line select the its row in the list below and then click the image ---

Site information

Name: Supermarket *

Identifier: 11

Telephone: 390493298985

Password: ***** *

Confirm password: *****

List of lines

Line	COM port	Transmission speed	Protocol	Number of devices
1	COM1	19200	CAREL-RS485N	5

To change the settings for a device, such as name displayed in PlantVisorPRO remote, select the “Site configuration” item from the "Configuration" menu. Then double click the line that the device belongs to, and the following page will be displayed with the details of the line.

PlantVisorPRO[®] admin 1 19/07/2006 14:25:27

Global

Site configuration > line configuration

Display line Edit line Notes

Configuration of serial line no. 1

To access the configuration of a device, double click the corresponding row in the list below.

Configured devices

Serial address	Device model	Device description
1	MasterCase	MasterCase - 1
2	MasterCase	MasterCase - 2
3	MasterCase	MasterCase - 3
4	MasterCase	MasterCase - 4
5	MasterCase	MasterCase - 5

Connection

COM port COM1 Baud rate 19200* Protocol CAREL - RS485N* *Default value

Double click the device being modified, thus entering the “device configuration” section and accessing the page for changing the description.

PlantVisorPRO[®] admin 1 19/07/2006 14:27:13

Global

Site configuration > line configuration > device configuration

Main Alarm variables Variables Descriptions list Main variables Notes

The description of the device can be changed and the device disabled.

Description

Default description (Italiano) MasterCase - 1 * Multilanguage description

Language	Description
English	MasterCase - 1


Status

Disable the device (alarms configured in SCHEDULER section will not be managed)

In the “Description” section, the descriptions can be changed for each of the various languages installed.

In the “Default description” field, enter the new description in the default language set during installation. In the “Multilanguage description” tab, enter the corresponding description of the device for the various languages available.

In the “Status” section, the status of the device can be changed with reference to the supervisor. The “Disable the device (alarms configured in SCHEDULER section will not be managed)” check box is used to disable the device for the supervisor, that is, the device will continue to physically operate, but the supervisor will consider it as being disabled and will not show nor manage any alarms. A typical application of this is when a refrigeration unit is placed in standby.

Clicking  saves the settings.

3.1. Changing the activation of the alarms

To change the activation of the alarms, click the “Alarm variables” tab.
The following page will be displayed

PlantVisorPRO[®] admin 1 19/07/2006 14:30:05

Global

Site configuration > line configuration > device configuration

Main Alarm variables Variables Descriptions list Main variables Notes

List of all device alarm variables.
To display and record an alarm, select it from the list below.
For each selected alarm, the priority can be set.

Frequency for checking the alarms: seconds

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 table shows all the alarms managed by the specific device.

The “Frequency for checking the alarms” field is used to decide how often PlantVisorPRO will check whether the device has at least one active alarm from those selected in the “Active” column. The alarm can be selected/deselected in this column.

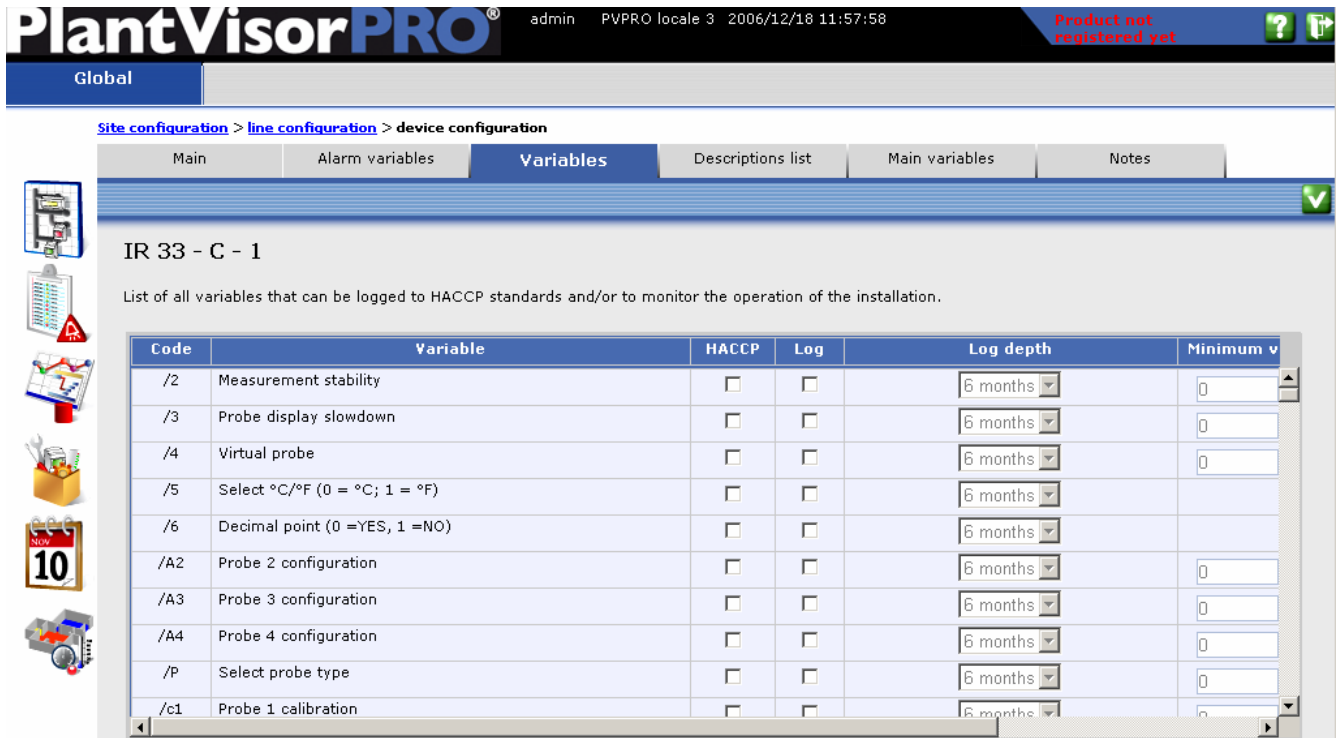
The “Priority” column indicates the priority of the alarm when more than one alarm is active at the same time.

The alarms with “Highest” priority are the first to be managed, while those with the lower priority are placed in the queue. By default all the alarms have “Highest” priority.

To save the settings, click 

3.2. Changing the activation of the variable log

To enable/disable or change the variable log, click the “Variables” tab.
The following page will be displayed:



The log refers to the recording of a series of values of such variables over time.

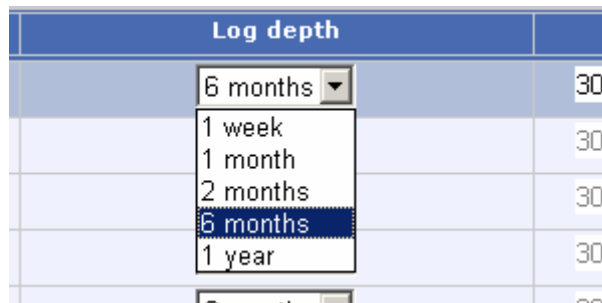
The “Variable” column indicates the description of the logged variable.

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

The variables marked HACCP are automatically logged for more than one year, every 30 minutes.

The “log” column is used to enable the variable log function; once selected this item the columns “Log duration”, “Minimum Variation” and “Frequency”.


The “Log duration” column allows to select for each variable the log duration. Once occupied all the log space established by the user, the oldest data are over-written.



The “Frequency” column allows selecting, for each variable, the time interval in which the supervisor makes the sampling.

Frequency	
300	sec.
300	sec.

The “Minimum variation” column shows which is the minimum curve definition step in the graph.

To save the setting click .

Example:

If the variable is set with:

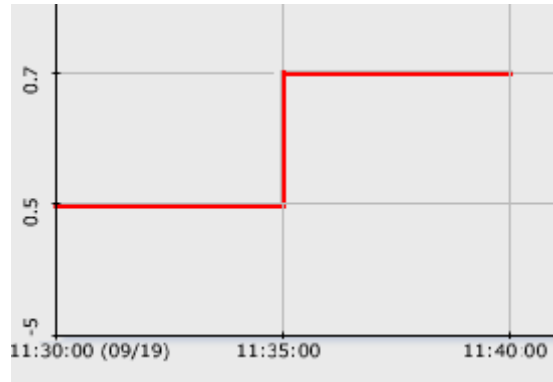
Duration: 1 month

Minimum variation: 0.2

Frequency: 5 minutes

Log start: 19/09/2006 at 11.30

The graph will be the following



3.3. Changing the description of the variables

The description of the variables relating to a device (description of the parameters, description of the alarms, names of the probes, etc.) can be changed; to do this, click the “Descriptions List” tab, the following page will be displayed

The screenshot shows the PlantVisorPRO web interface. At the top, the logo 'PlantVisorPRO' is visible along with user information 'admin 1' and a timestamp '19/07/2006 14:39:33'. Below the logo, there is a 'Global' button. The main navigation area includes a breadcrumb trail: 'Site configuration > line configuration > device configuration'. Below this, there are several tabs: 'Main', 'Alarm variables', 'Variables', 'Descriptions list' (which is selected), 'Main variables', and 'Notes'. On the left side, there is a vertical toolbar with various icons. The main content area contains the following text:


The descriptions of all the device variables can be edited.
To edit a description, double click the corresponding row in the list below.

Below this text is a table titled 'Variable descriptions' with the following rows:

Variable descriptions
Serial address
Alarm high temperature virtual probe (HI)
Alarm low temperature virtual probe (LO)
Alarm case clean management
Defrost interrupted for timeout signalling
Valve driver LAN error
Alarm SH temperature probe
Alarm evaporation pressure probe
Alarm duty setting from digital input signalling
External delay alarm from dig input signalling

Below the table is a 'Description' section. It contains a text input field labeled 'Default description (Italiano)' and a button labeled '* Multilanguage description'. To the right of this section is a table with two columns: 'Language' and 'Description'. The 'Language' column contains 'English'.

The tab contains the descriptions of all the variables. Double clicking an item loads the “Description” section, allowing the user to change the description both in the default language (“Default description” field) and in any other languages (“Multilanguage description” tab) installed when setting up the supervisor.

To save the changes click  .

3.4. Adding notes


Notes can be entered for device. To do this, click the “Notes” tab, the following page will be displayed:

The screenshot shows the PlantVisorPRO web interface. At the top, the logo 'PlantVisorPRO' is displayed along with the user 'admin' and the time '19/07/2006 14:49:40'. Below the logo, the breadcrumb trail reads 'Site configuration > line configuration > device configuration'. The 'Notes' tab is selected in the navigation menu. The main content area contains a table with the following structure:

Enter date	Last update	User	Note
[Empty text input field]			

Below the table is a large empty text input field. On the left side of the interface, there is a vertical toolbar with various icons, including a calendar icon showing 'Nov 10'.

In the “Note” field, enter the desired text.

To save the note entered, click .

The note will be saved with the date and time it was entered, and the author.

The screenshot shows the PlantVisorPRO web interface after a note has been saved. The breadcrumb trail remains 'Site configuration > line configuration > device configuration'. The 'Notes' tab is still selected. The table now contains one row of data:

Enter date	Last update	User	Note
19/07/2006 02:52	19/07/2006 02:52	admin	First note, This is a single note


The text input field below the table is now empty. The rest of the interface, including the navigation menu and toolbar, remains the same.

When clicking a note in the list of notes:

The screenshot shows the PlantVisorPRO interface. The top navigation bar includes the logo, user 'admin', and the date '19/07/2006 14:55:02'. Below the navigation bar, the breadcrumb path is 'Site configuration > line configuration > device configuration'. The 'Notes' tab is active, showing a table with one note:

Enter date	Last update	User	Note
19/07/2006 02:52	19/07/2006 02:54	admin	First note, This is a single note


Below the table is a text input field containing the text 'First note, This is a single note'. On the right side of the table, there are three icons: a plus sign (+), a minus sign (-), and a checkmark (✓).

and then clicking  the selected note is deleted

The screenshot shows the PlantVisorPRO interface after the note has been deleted. The breadcrumb path is 'Site configuration > line configuration > device configuration'. The 'Notes' tab is active, and the table is now empty:

Enter date	Last update	User	Note
------------	-------------	------	------

Below the table is an empty text input field. On the right side of the table, there are three icons: a plus sign (+), a minus sign (-), and a checkmark (✓).

Clicking  saves the changes made.
N.B. Only the author has the right to edit or delete their own notes.

3.5. Alarm guardian

This function ensures that all the alarms are acknowledged and failure of the scheduler to signal an alarm is notified.

Click the “site configuration” link

[Site configuration](#) > [line configuration](#) > **device configuration**

Then select the “Alarm guardian” tab; the following window will be displayed

Page for setting the alarm forwarding control system.
This function can be used to notify any alarms the scheduler fails to signal within the set time. Remember that this time period is not the same as the delay set for each rule in the scheduler configuration.
In addition, the function for viewing the alarms for each type of priority can also be enabled on this page.

Priority	Maximum time for managing alarms	May admit acknowledge
Highest	150 Minutes	<input checked="" type="checkbox"/>
High	180 Minutes	<input type="checkbox"/>
Medium	210 Minutes	<input type="checkbox"/>
Low	240 Minutes	<input type="checkbox"/>

For each level of alarm priority (see Chap. 3.1) there are two fields:

- “Maximum time to manage the alarms”: this function notifies the failure of the scheduler to signal an alarm within the set time. Remember that this time is not the same as the delay set for each rule when configuring the scheduler (see Chap. 4.4)
- “Can be acknowledged”: function for acknowledging the alarms with different levels of priority. Acknowledgement simply highlights that the alarm has formally been read by a registered and authorised user.

Example:

The high priority alarms have a maximum management time of 180 minutes.

For a certain type of high priority alarm the scheduler is programmed to send a fax.

When the high priority alarm is activated, the scheduler attempts to send a fax but due to technical problems (e.g. line disconnected) these attempts fail.

After 180 minutes, the guardianPRO notifies the failure to send the alarm signal.

4. Scheduler

4.1. Configuring the I/O peripherals


PlantVisorPRO, using the scheduler, can monitor the alarms on the installation and, depending on the type of alarm, the alarm device, the time period and the peripherals available for signalling the alarm, can warn the users.

The I/O peripherals must be configured to set all the functions that allow PlantVisorPRO to communicate with the outside world. These are :


- Fax : Set a fax modem for sending any alarms or reports
- SMS : Set a modem (GSM or analogue) for sending any alarms via an SMS message
- E-mail : Set an e-mail address for sending any alarms or reports via e-mail
- RAS : (Remote Access Service) Set a connection to a remote computer
- Window : Set the type of sound that the computer where the PlantVisorPRO supervisor is installed will make when the alarm window is displayed
- Relay: see the "Full user manual" for configuring the relays

Important note: for Fax, SMS and E-mail, using the  button on these pages, an action can be created for sending the schedule alarm, via the peripheral, to all the numbers or addresses set in the address book.

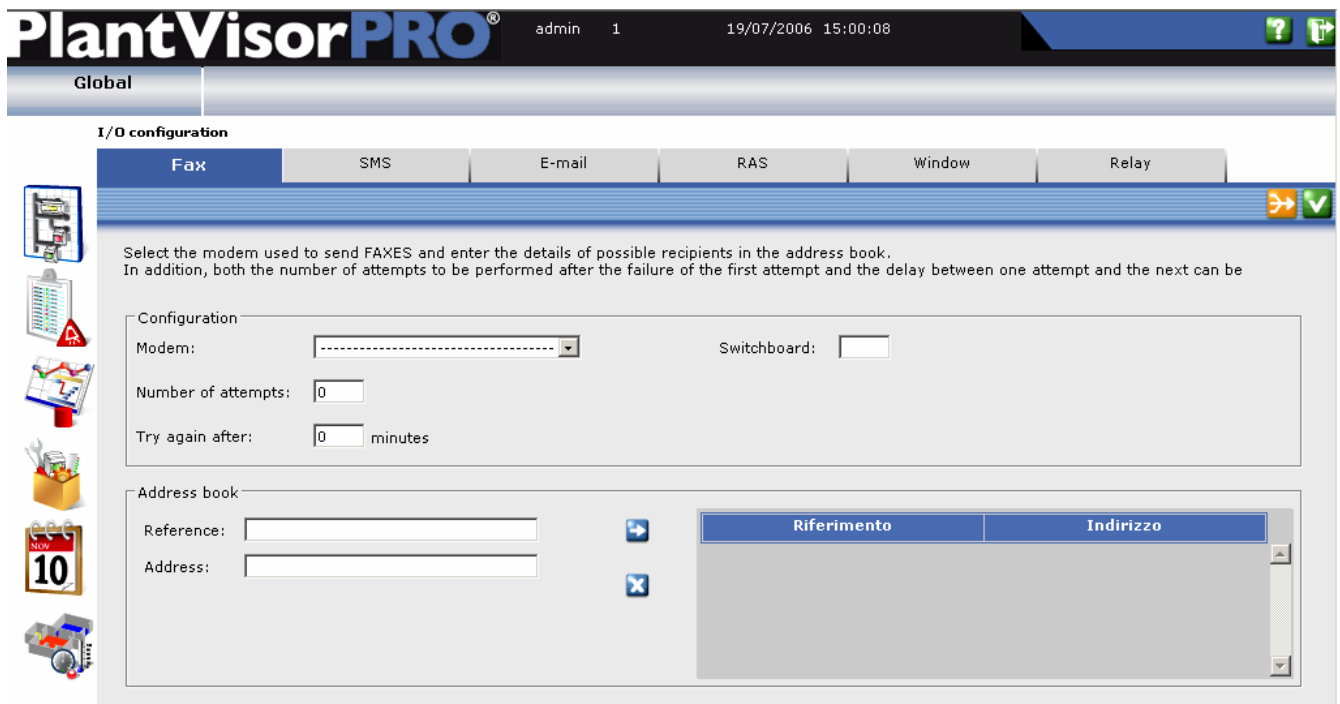
Example :

If the fax modem has two numbers in the address book, pressing  creates the "Fax-Action" in the scheduler, meaning the alarm fax will be sent via the modem to these 2 numbers.

To set the configuration of the supervisor Input/Output peripherals, select the item "I/O configuration" from the

"Scheduler" menu 

The following page will be displayed:



PlantVisorPRO admin 1 19/07/2006 15:00:08

Global

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


Configuration


Modem: Switchboard:

Number of attempts:

Try again after: minutes

Address book

Reference: 

Address: 

Riferimento	Indirizzo

4.1.1. Setting the modem to send faxes

To set the modem used to send faxes, select the "Fax" tab:

PlantVisorPRO[®] admin 1 19/07/2006 15:00:08

Global

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

Configuration

Modem: Switchboard:

Number of attempts: 0

Try again after: 0 minutes

Address book

Reference:

Address:

Riferimento	Indirizzo

The "Configuration" section features 3 fields :

- Modem : this field is used to select one of the modems installed on the supervisor computer. This modem will be used to send faxes.
- Switchboard: in this field set the number that allows external calls in case the modem telephone line passes through the switchboard.
- Number of attempts : this field is used to set the number of successive attempts the supervisor will make to send a fax if the first attempt fails.
- Try again after : this field is used to set the number of minutes that must elapse between one attempt and the next.

The supervisor will try to send a fax, and if the modem is busy or there are problems during transmission, will wait the set number of minutes and then try to send the fax again. If the modem cannot send the fax, the supervisor will make the number of attempts set by the user.

The process for resending the fax ends either when the fax is sent successfully or the number of attempts is completed.

Note: the number of attempts if is set to zero, the supervisor will only make on attempt to send the fax.

The "Address book" area is used to set the fax numbers for sending the faxes. The fax will always be sent to all the recipients on the list.

To add an item, in the "Reference" field enter a cue name for the fax number being added, then in the "Address" field enter the fax number.

PlantVisorPRO admin 1 19/06/2006 16:11:11

Global

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

Configuration

Modem: Agere Systems AC'97 Modem Switchboard:

Number of attempts:

Try again after: minutes

Address book

Reference:

Address:

Riferimento	Indirizzo
-------------	-----------

Then click .
The address book will be updated.

PlantVisorPRO admin 1 19/06/2006 16:12:51

Global

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

Configuration

Modem: Agere Systems AC'97 Modem Switchboard:

Number of attempts:

Try again after: minutes

Address book

Reference:

Address:

Riferimento	Indirizzo
Verify	15564448351346

Click .
The settings will then be saved.

Changing an item in the fax "Address book"

To change an item in the "Address book" section, select the desired item by double clicking it and then edit the desired fields.

PlantVisorPRO[®] admin 1 19/06/2006 16:15:17

Global

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

Configuration

Modem: Agere Systems AC'97 Modem Switchboard:

Number of attempts:

Try again after: minutes

Address book

Reference:

Address:

Riferimento	Indirizzo
Verify	15564448351346

Then click

PlantVisorPRO[®] admin 1 19/06/2006 16:16:28

Global

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

Configuration

Modem: Agere Systems AC'97 Modem Switchboard:

Number of attempts:

Try again after: minutes

Address book

Reference:

Address:

Riferimento	Indirizzo
Verifying	15564448351346

To save the settings, click

4.1.2. Setting the modem to send SMS messages

To set the modem used for sending SMS messages, select the "SMS" tab:

PlantVisorPRO[®] admin 1 19/06/2006 16:19:22

Global

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

Configuration

Modem: Switchboard:

Type: Analogico GSM

Provider: GREAT BRITAIN (Vodafone) Number of attempts:

Call: Nazionale Try again after: minutes

Address book

Reference:

Address:

Riferimento	Indirizzo

The "Configuration" section features 6 fields :

- Modem : this field is used to select one of the modems (analogue or GSM) installed on the supervisor computer. This modem will be used to send the SMS messages.
- Switchboard: in this field set the number that allows external calls in case the modem telephone line passes through the switchboard.
- Type : this field is used to set the type ("Analogue" or "GSM") of modem that is selected in the "modem" field.
- Provider : this field is used to select the provider used to send the SMS messages. If a GSM modem is used, select "Direct SMS xxx" where xxx is the model of GSM modem supported. Currently the following are supported: Falcom Twist, Siemens T35, Wavecom
- Call : select whether or not the call is international ("National" or "International")
- Number of attempts : this field is used to set the number of successive attempts the supervisor will make when sending an SMS if the first attempt fails.
N.B. This function is only valid for managing the calls made by the analogue modem to the service provider or for checking the availability of the analogue / GSM modem, as the effective delivery to destination of the SMS message cannot be checked.
- Try again after : This field is used to set the number of minutes that must elapse between one failed attempt and the next.

Once all the settings have been completed add the numbers to the address book for sending the SMS messages.

The "Address book" area is used to set the numbers that the supervisor will use to send the SMS messages, in the same way as for the faxes.

To save the settings, click .

4.1.3. Setting the e-mail configuration

To set the data used to send e-mails, select the "E-Mail" tab:

The screenshot shows the PlantVisorPRO web interface. At the top, there is a navigation bar with 'Global' and 'I/O configuration' tabs. Under 'I/O configuration', there are sub-tabs for 'Fax', 'SMS', 'E-mail', 'RAS', 'Window', and 'Relay'. The 'E-mail' tab is selected. The main content area is titled 'I/O configuration' and contains a 'Configuration' section with the following fields:

- SMTP: [text input] *
- Sender: [text input] *
- Number of attempts: [spin box]
- Try again after: [spin box] minutes
- Connection: LAN DialUp
- Provider: [dropdown menu]

Below the 'Configuration' section is an 'Address book' section with the following fields:

- Reference: [text input]
- Address: [text input]

To the right of the 'Address book' section is a table with two columns: 'Riferimento' and 'Indirizzo'.

The "Configuration" section features 6 fields :

- SMTP : Name of the mail server or the IP address supplied by the Internet service provider
- Sender : e-mail address of the sender.

Important: some mail service providers require a valid sender address, accepted by the mail server; contact your service provider for details.

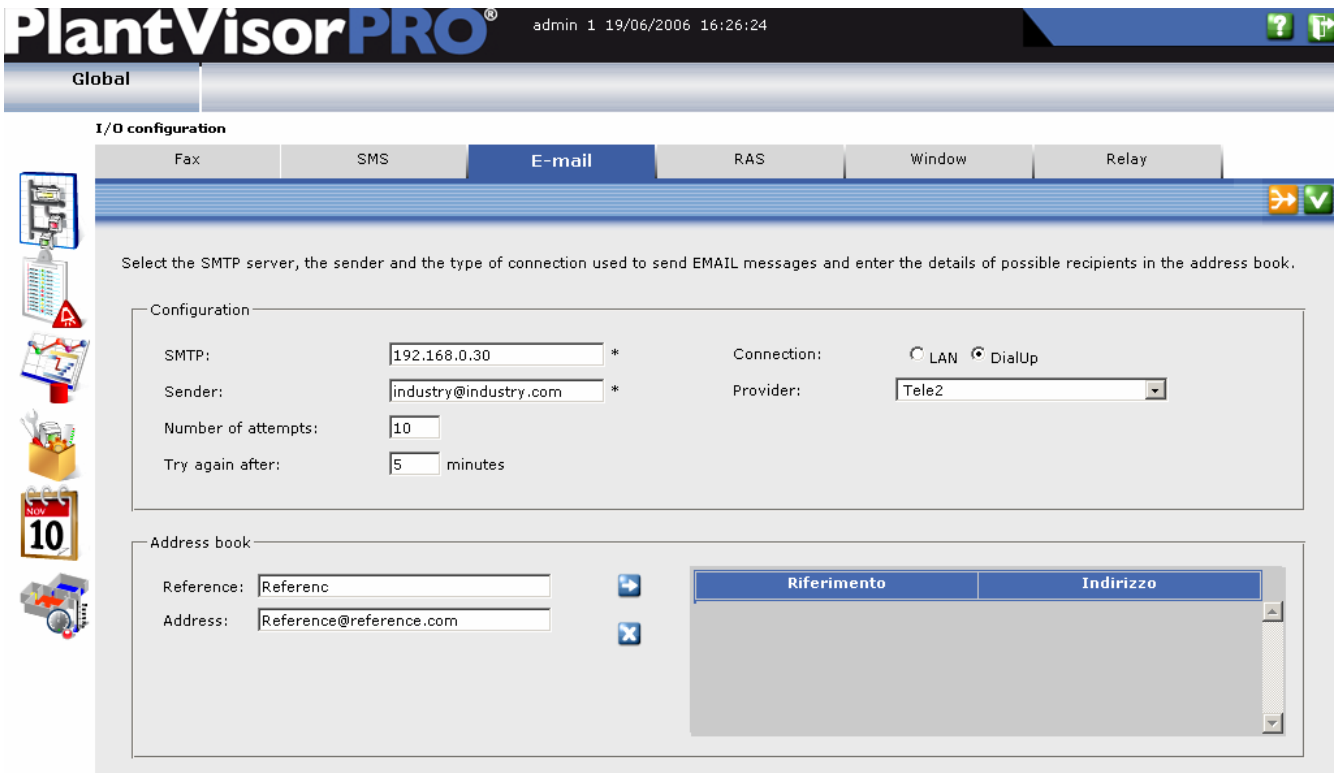
- Connection : this field is used to set whether the mail server is in the LAN or is accessed via modem ("DialUp")

The following fields are only enabled if the "DialUp" option is selected the "Connection" field.

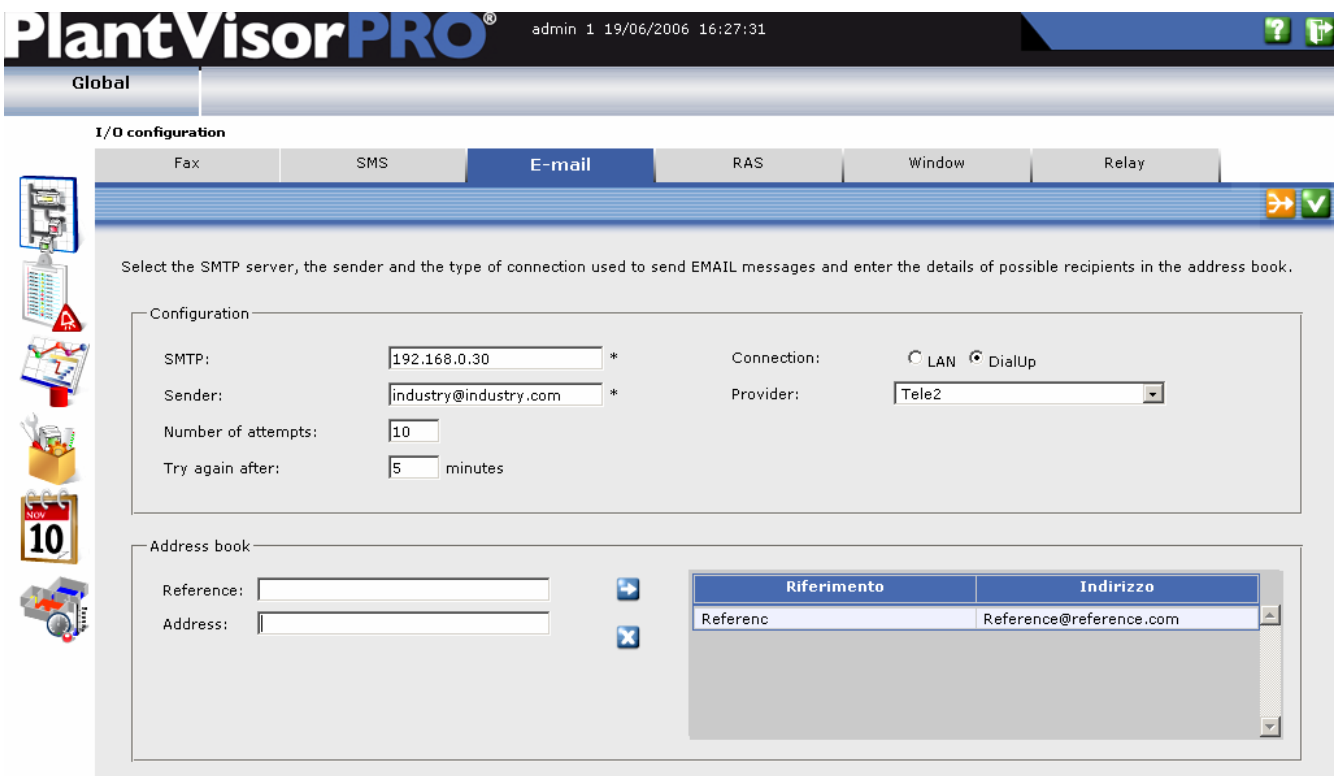
- Provider : this field is used to select the provider used for the connection. This list includes all the providers set in the Windows "Control panel" under "Network connections".
 - Number of attempts: This field is used to set the number of successive attempts the supervisor will make when sending an email if the first attempt fails.
- N.B. This function is only valid for managing the calls made by the analogue modem to the service provider or for checking the availability of the analogue / GSM modem, as the effective delivery to destination of the SMS message cannot be checked.
- Try again after: This field is used to set the number of minutes that must elapse between one failed attempt and the next.

Once all the settings have been completed, enter the address book for sending the e-mails.

To add an item, in the "Reference" field enter a cue name for the recipient being added, then enter the e-mail address in the "Address" field.



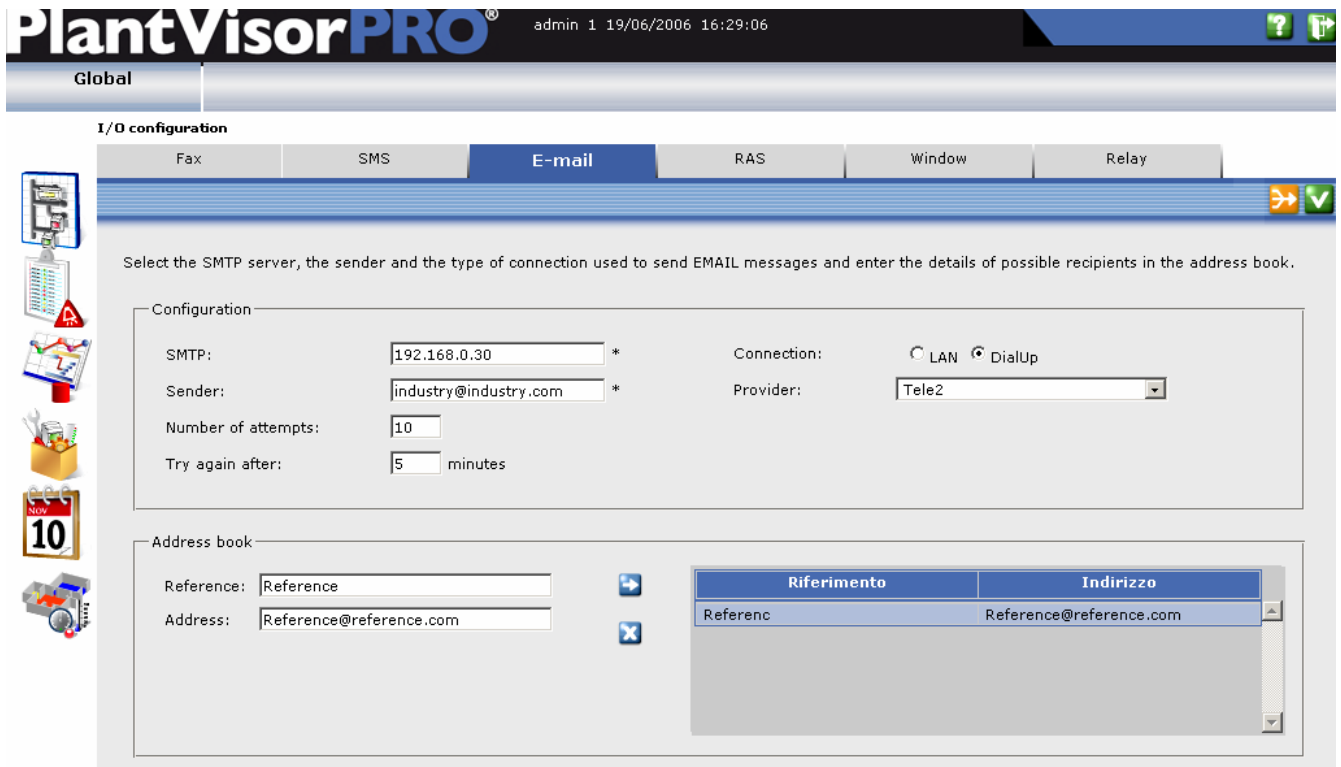
Then click .
The address book will be updated.



To save the settings, click .

Changing an item in the e-mail "Address book"

To change an item in the "Address book", select the desired item by double clicking it and then edit the desired fields.



PlantVisorPRO[®] admin 1 19/06/2006 16:29:06

Global

I/O configuration

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

Select the SMTP server, the sender and the type of connection used to send EMAIL 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

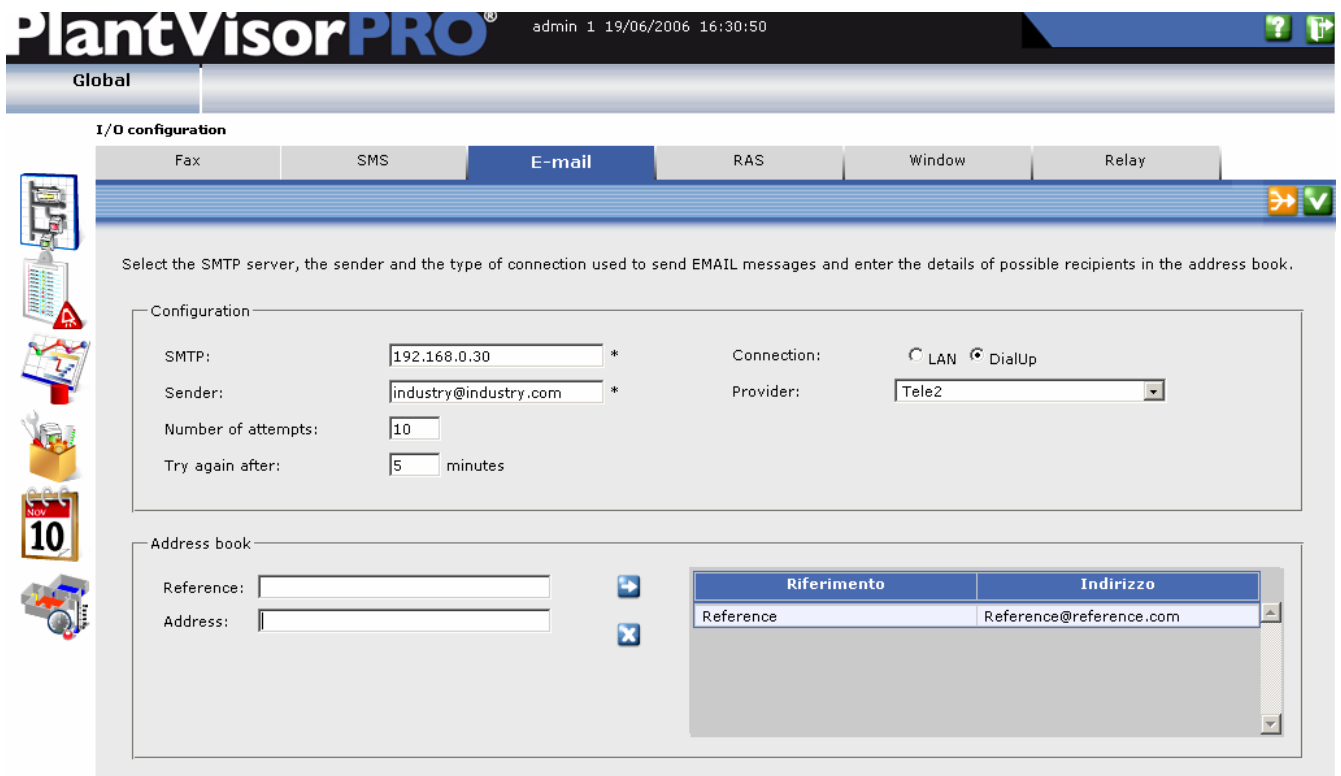
Address book

Reference: →

Address: ✕

Riferimento	Indirizzo
Referenc	Reference@reference.com

Then click .



PlantVisorPRO[®] admin 1 19/06/2006 16:30:50

Global

I/O configuration

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

Select the SMTP server, the sender and the type of connection used to send EMAIL 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: ✕

Riferimento	Indirizzo
Reference	Reference@reference.com

To save the settings, click .

4.1.4. Setting the remote calls

To set the possibility of calling a remote computer, select the "RAS" tab:

PlantVisorPRO[®] admin 1 19/06/2006 16:33:21

Global

I/O configuration

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

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 bet

Configuration

Modem: Switchboard:

Number of attempts:

Try again after: minutes

Address book

Telephone number:

Identifier:

Riferimento	Indirizzo

The "Configuration" section features 6 fields:

- Modem : this field is used to select one of the modems installed on the supervisor computer. This modem will be used to make remote calls (connection to a PlantVisorPRO Remote supervisor).
- Switchboard: in this field set the number that allows external calls in case the modem telephone line passes through the switchboard.
- Number of attempts: This field is used to set the number of successive attempts the supervisor will make when contacting the remote supervisor.
- Try again after: This field is used to set the number of minutes that must elapse between one failed attempt and the next.
- Reference : Identifying name of the remote site that the local supervisor must connect to.
- Number : Telephone number of the remote supervisor.

To save the settings, click .

4.1.5. Setting the audio file played when displaying the alarm window


Select the "Window" tab to set the audio file with "wav" extension to be played by the computer where the local supervisor is installed when displaying the alarm window.

The screenshot shows the PlantVisorPRO web interface. At the top, the logo 'PlantVisorPRO' is displayed next to the user 'admin' and the date/time '19/06/2006 16:36:04'. Below the logo is a 'Global' tab. The main content area is titled 'I/O configuration' and contains several tabs: 'Fax', 'SMS', 'E-mail', 'RAS', 'Window', and 'Relay'. The 'Window' tab is selected and highlighted in blue. A green checkmark icon is visible in the top right corner of the 'Window' tab. Below the tabs, a message states: '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.' Underneath this message is a 'Configuration' section with two input fields: 'Current:' and 'Sound:'. The 'Sound:' field has a 'Sfoglia...' (Browse...) button next to it. On the left side of the interface, there is a vertical sidebar with several icons representing different system components.

The "Configuration" section features 2 fields:

- Current: identifies the currently configured audio file;
- Sound: used to select with the "Browse..." button an audio file resident on the PC where the supervisor is installed. The file must have the .wav extension. Mp3 or file formats other than .wav cannot be used.

N.B. The audio file selected must be resident on the computer where PlantVisorPRO is running and will only be played on this computer.

To save the settings, click .

4.1.6. Relay configuration

To configure the relays select the "Relay" tab. The following page will be displayed


For further information on this function see the "Full user manual Locale"

For each relay, select the field "Active status" to choose in which status (0 or 1) the relay is considered active. The relay is energised to provide an alarm signal.

"Reset type" can have three settings:


- Manual : only the user, via a special page in PlantVisorPRO "Alarms/Events" – "Relay management" can reset the relay
- Automatic : managed directly by PlantVisorPRO; when the alarm passes, the relay is automatically reset
- Timed : the relay remains energised for the time set in the "Reset time" field.

N.B. the relays can always be reset manually even when "Timed" and "Automatic" management is set.

To save the settings, click .


4.2. Testing the operation of the I/O peripherals

To test the operation of the supervisor Input/Output peripherals, select the item "I/O test page" from the

"Scheduler" menu 

The following page will be displayed

The screenshot shows the 'I/O test page' in the PlantVisorPRO interface. At the top, there's a navigation bar with 'Global' and a 'Test I/O' tab. Below the tab, a message says 'To execute the test, select an action type and its recipient, then click the button.' The form has two main sections: 'Action types' with radio buttons for Fax (selected), Sms, E-mail, Remote connection, Print, Relay, and Alarm window; and a 'Recipient' dropdown menu. A green refresh icon is in the top right corner of the form area. On the left, a vertical sidebar contains several icons, including a calendar icon showing the number '10'.

- In the “Action type” section, select the I/O peripheral to be tested
- Select the recipient
- Click .

The I/O peripheral will be activated so as to test its operation.

4.3. Managing the alarms and events

After having configured all the I/O peripherals, the list of alarms managed by the scheduler needs to be set. By default, a list is included with all the alarms for all the instruments. Below are the instructions on using this default setting. See the “Full user manual” for the instruction on how to set different lists of alarms.


The scheduler is made up of a set of “Rules” that are continuously checked and updated. A rule includes:

- a list of alarm conditions (alarms) deriving from the field devices
- a series of time bands that determine the periods when the alarm is valid
- a series of actions for signalling the alarm to the outside world

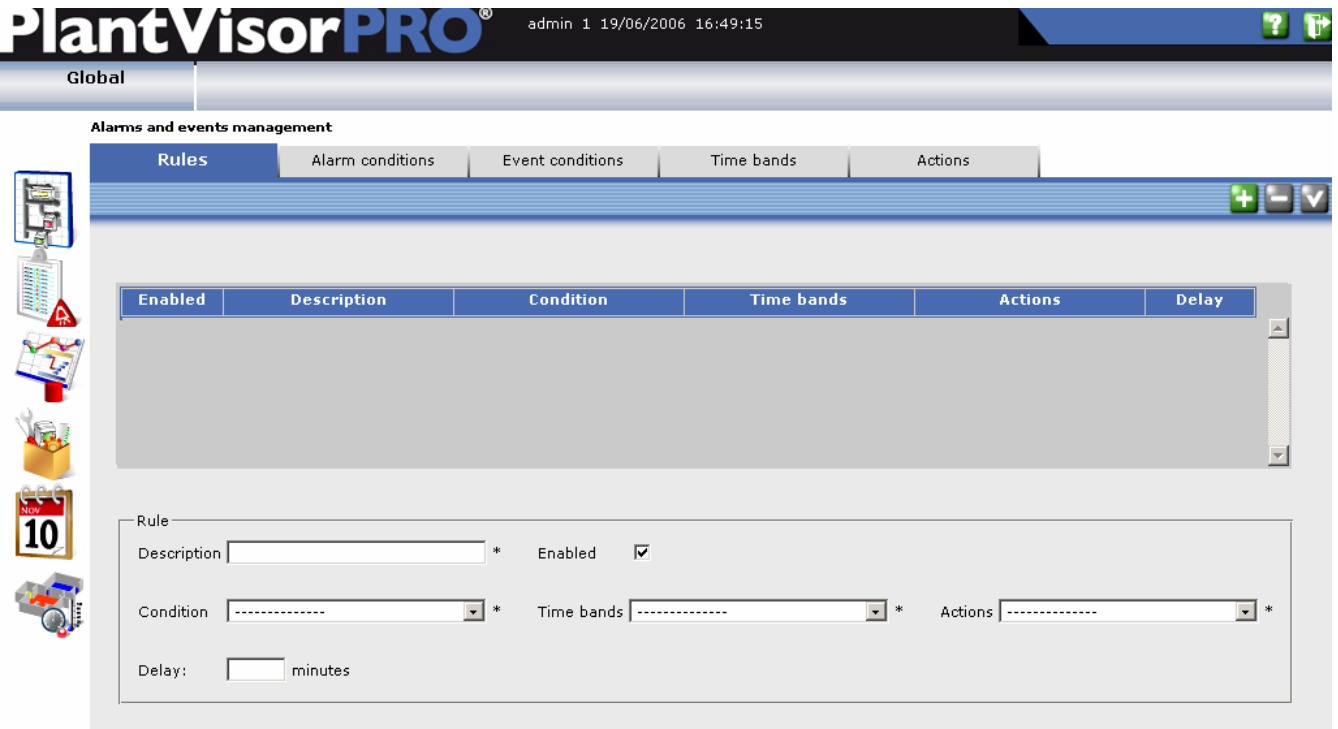
Before defining a “Rule”, therefore, first its components need to be defined.

To signal all the alarms, proceed as follows.

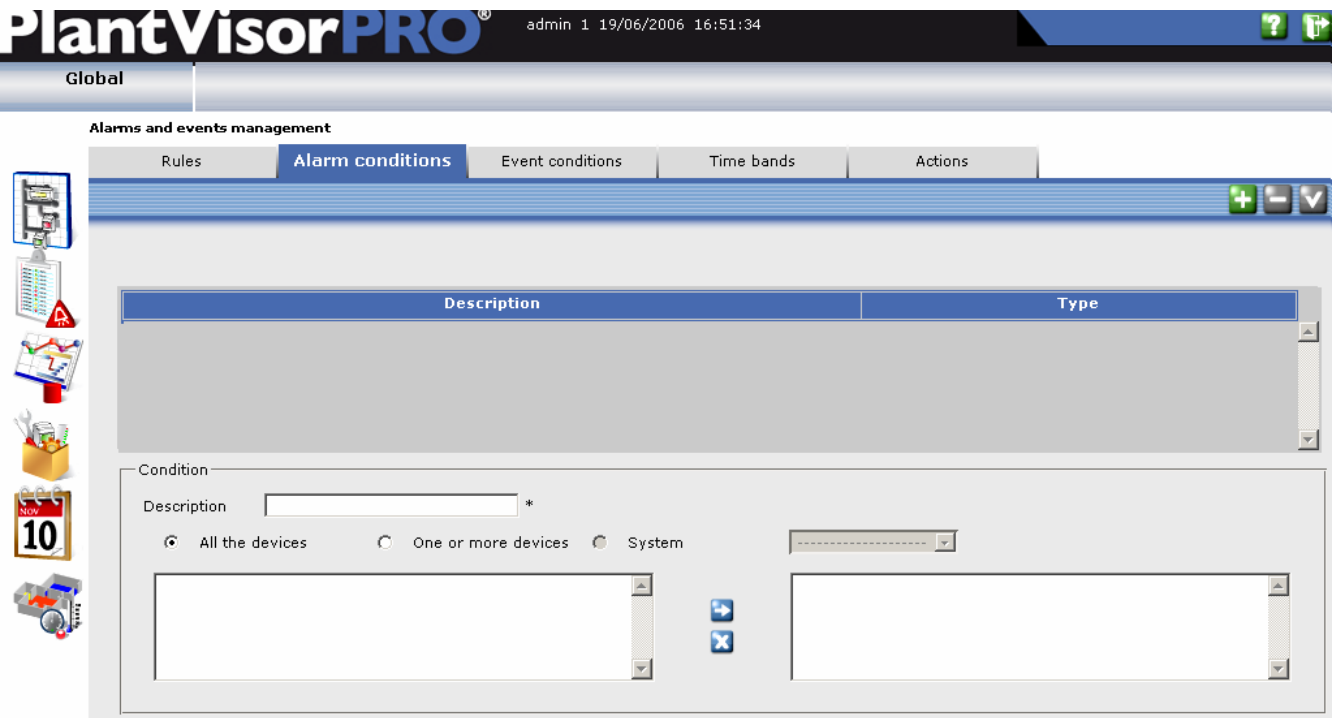
Alarm condition


Configure the management of alarms and events in the supervisor, selecting the “Alarm and event management” item from the “Scheduler” menu 

The following page will be displayed:



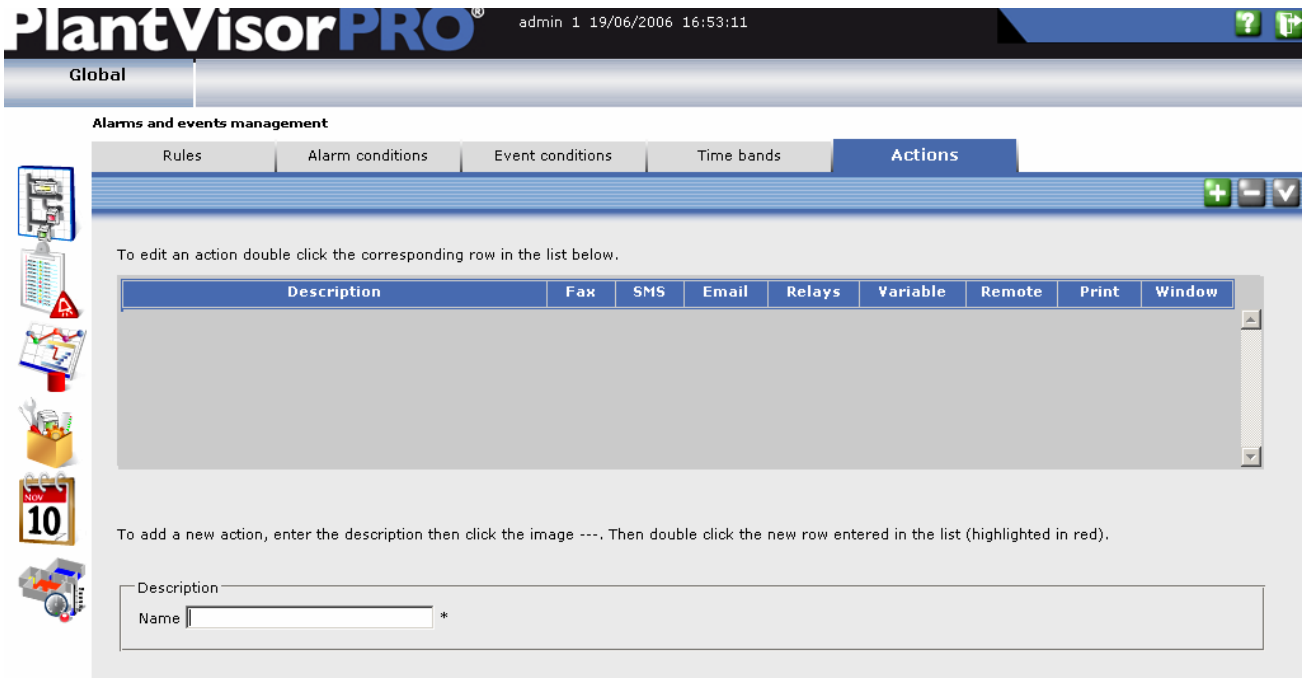
Select the “Conditions” tab.
The following page will be displayed:




To create a new condition for the alarms on all the devices, enter a cue name for the condition in the “Description” field, for example “All”. Then select the “All the devices” option, and finally to add the condition click .

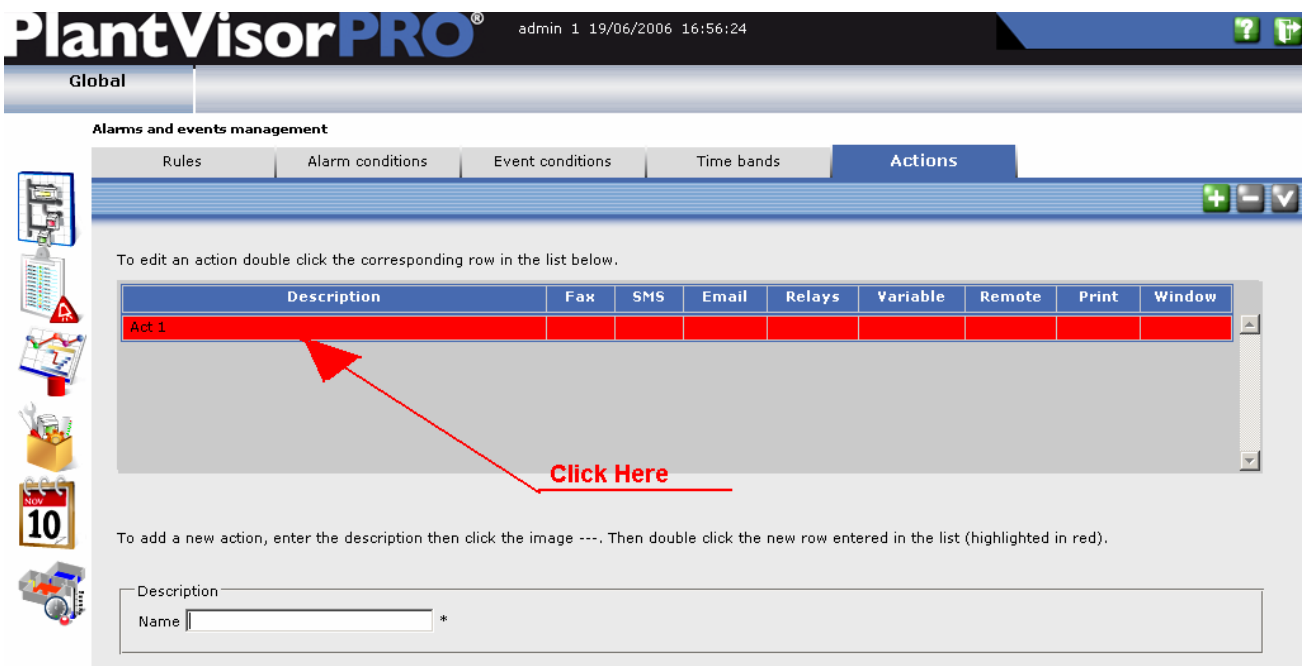
Actions

Select the “Actions” tab
The following page will be displayed:

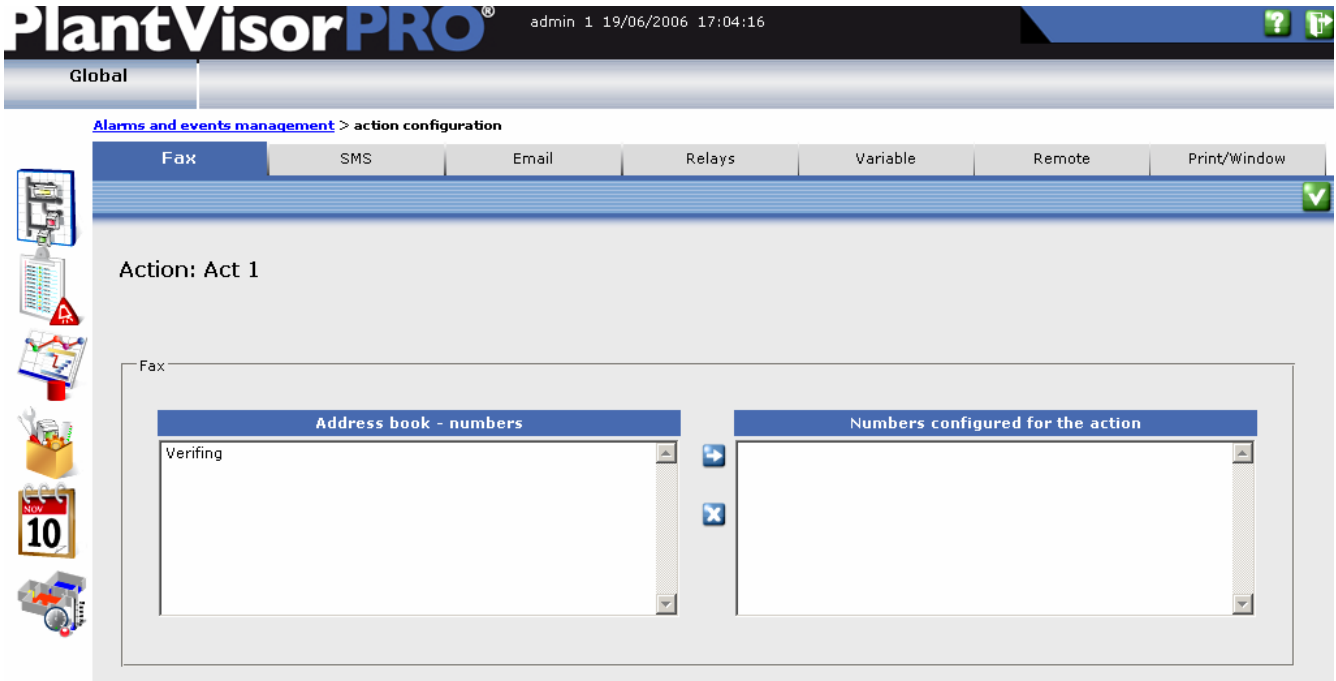


To add a new action, enter the cue name in the “Name” field (for example: “Alarm action”) then click . The settings will be saved.

Subsequently, double click the new row that has been entered in the list (highlighted in red). This will allow the peripherals used to be set for this action.




Double click the red row in the list of actions and the following page will be opened.

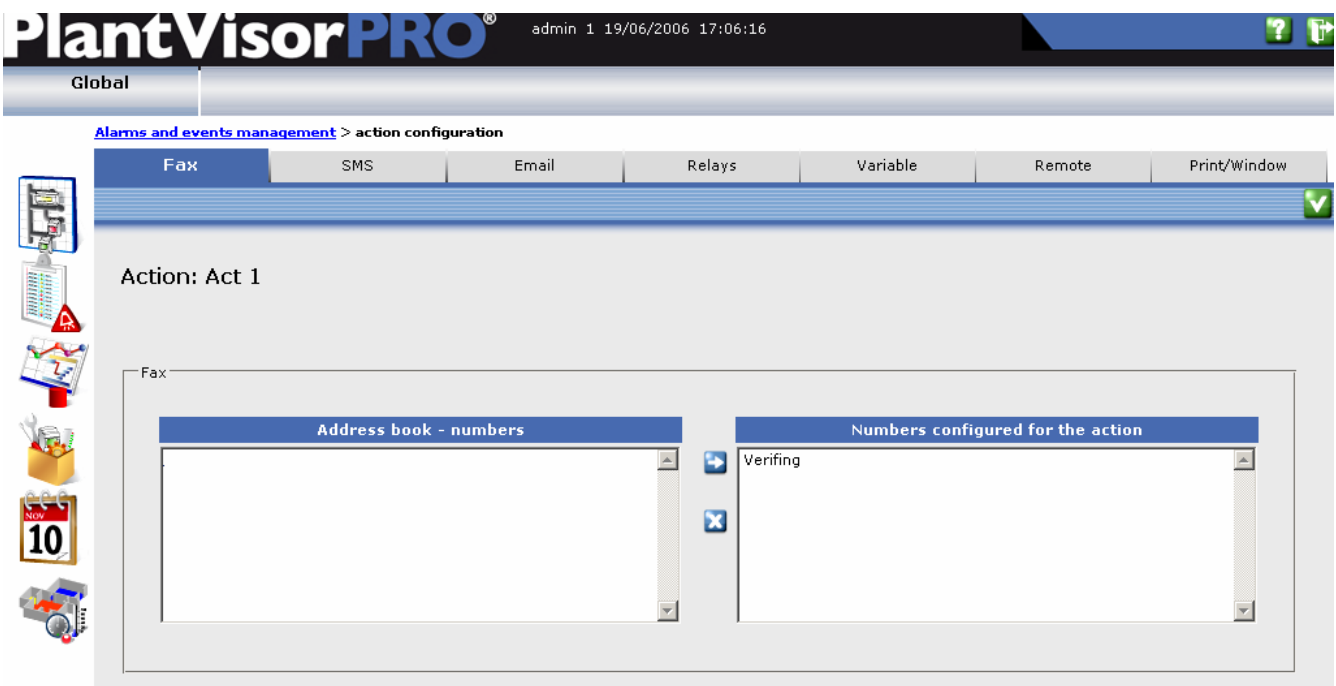


Assuming the desired actions are to send a fax and display the alarm window (for the explanation of all the other settings, see the PlantVisorPRO “Full User Manual”).

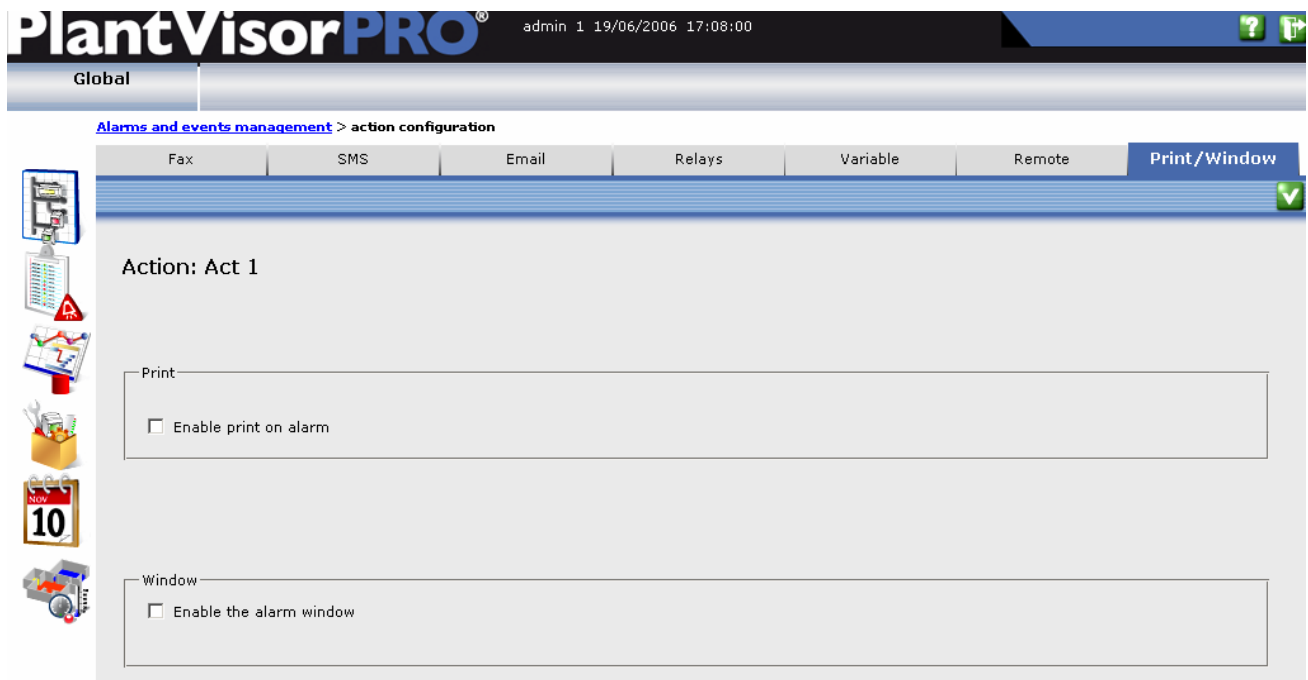
The “Address book - numbers” tab in the “Fax” section contains the address book that has been set when configuring the fax modem (see the chapter “Configuring the I/O peripherals”, sub-chapter “Setting the modem to send faxes”).

Add the desired address book items by selecting them and then click .

To save the settings, click .



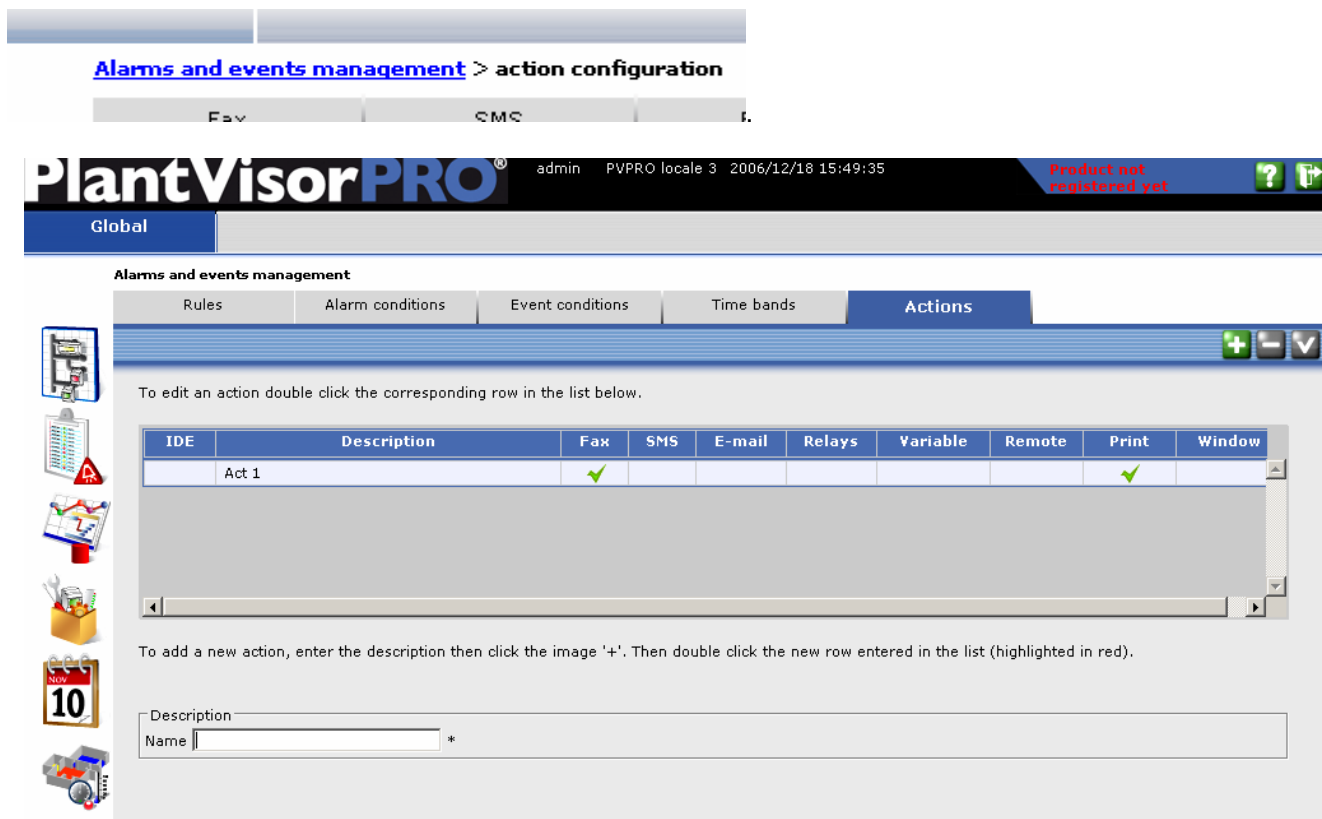
Then select the "Print/Window" tab
 The following page will be displayed:



To set the alarm window, check the item corresponding to "Enable the alarm window" in the "Window" section.

To save the settings, click 

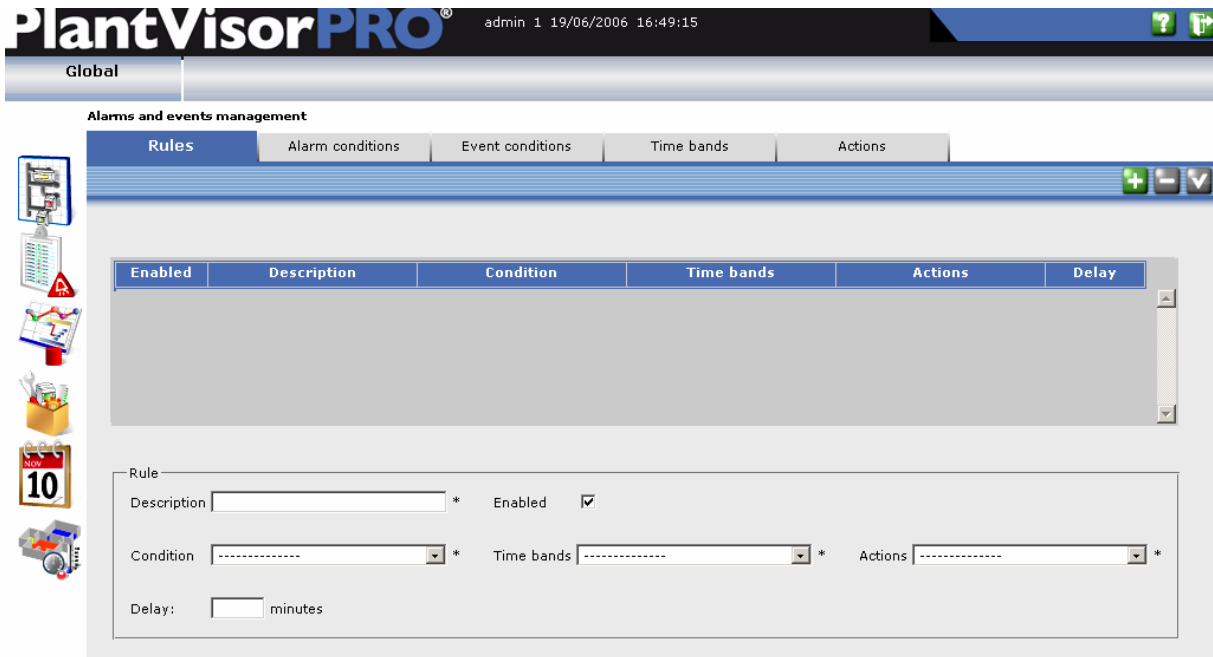
To return to the page for setting the actions, click the "Alarms and events management" link located above the tab:



The row in the list of the actions that was previously highlighted is no longer red and shows the ticks corresponding of the types of action set, in this example in the "Fax" and "Window" columns.

Rules

Now select the “Rules” tab.
The following page will be displayed:



In the “Rules” section, enter a cue name in the “Description” field for the rules being created (for example: “General rules”).

Then select the previously created condition to be used (for example: “All”).

Select the time band (for example: “Always”).

N.B. the “Always” time band is the default, and this therefore does not need to be set in the “Time bands” section.

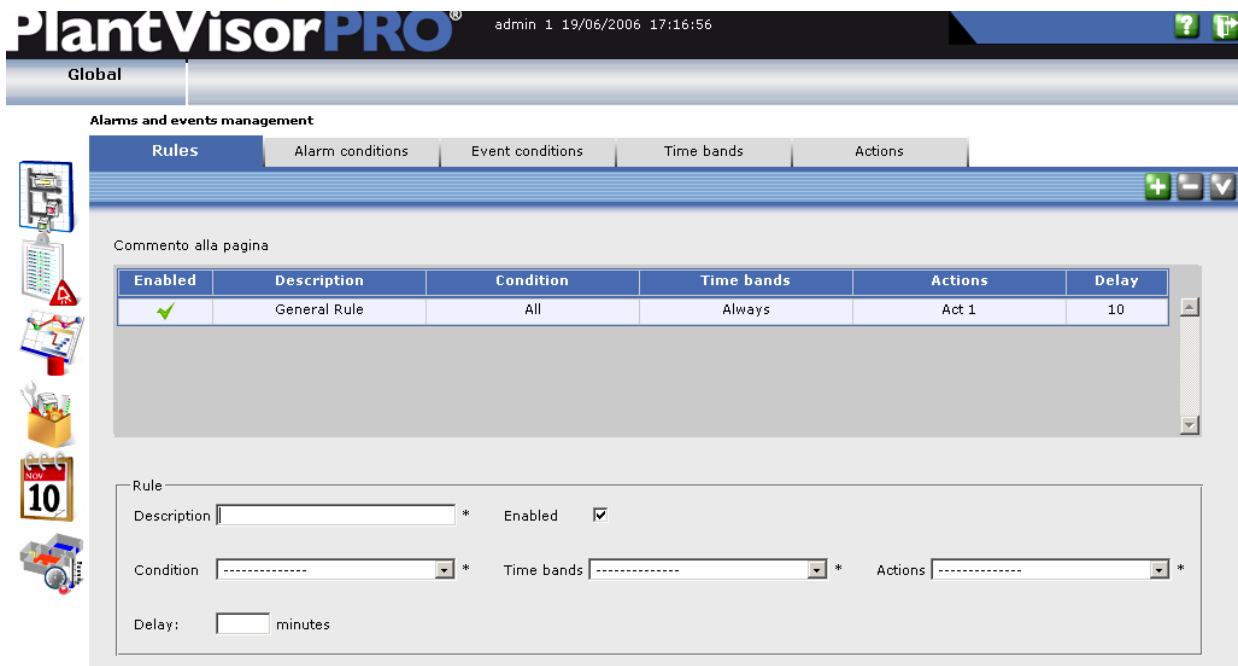
Select the action (for example: “Alarm action”).

Enter the delay, in minutes, for the implementation of the rules in response to an alarm.

click .

The settings will then be saved.

The following page will be displayed:



The “Enabled” field is used to enable or disable a certain rule, if the field is checked the rule will be enabled for the supervisor.

4.4. Managing the scheduled activities

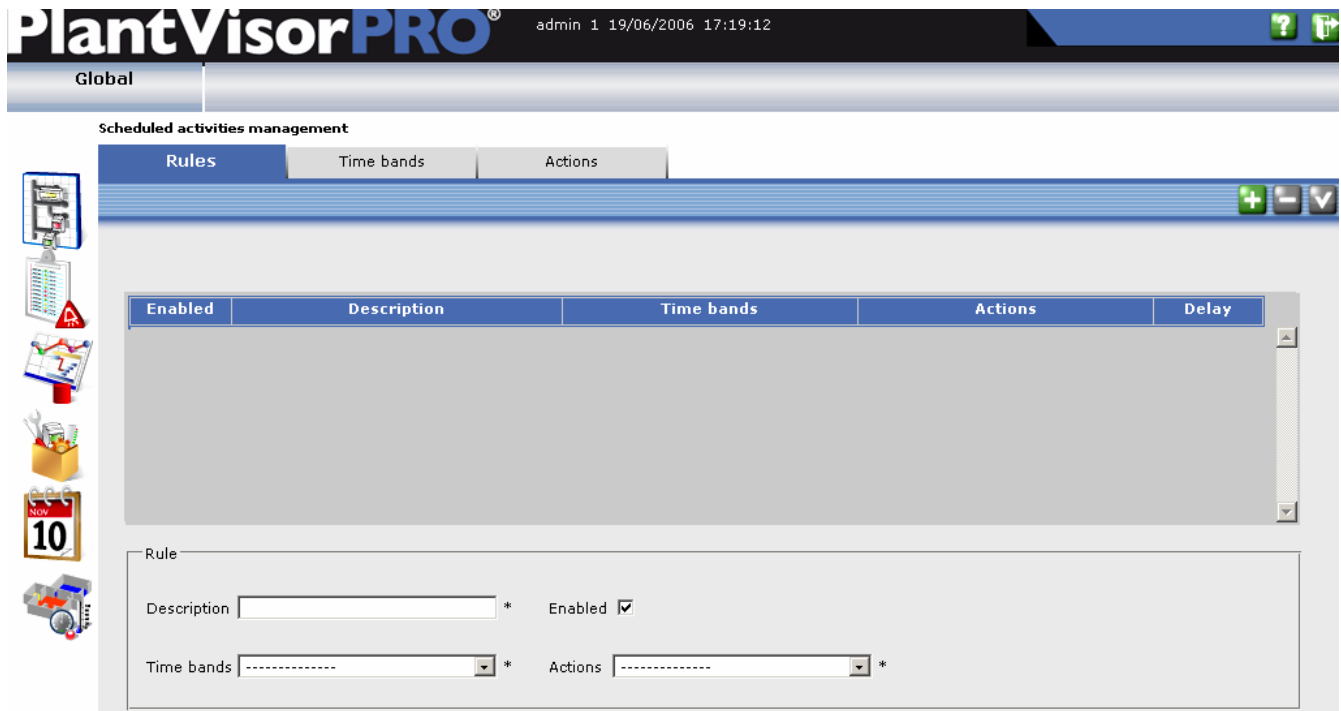
The PlantVisorPRO scheduler not only ensures alarm management, but also allows a number of actions to be performed at certain times.

To set a scheduled activity in the supervisor, proceed as follows.

Select the item "Scheduled activities management" from the "Scheduler" menu

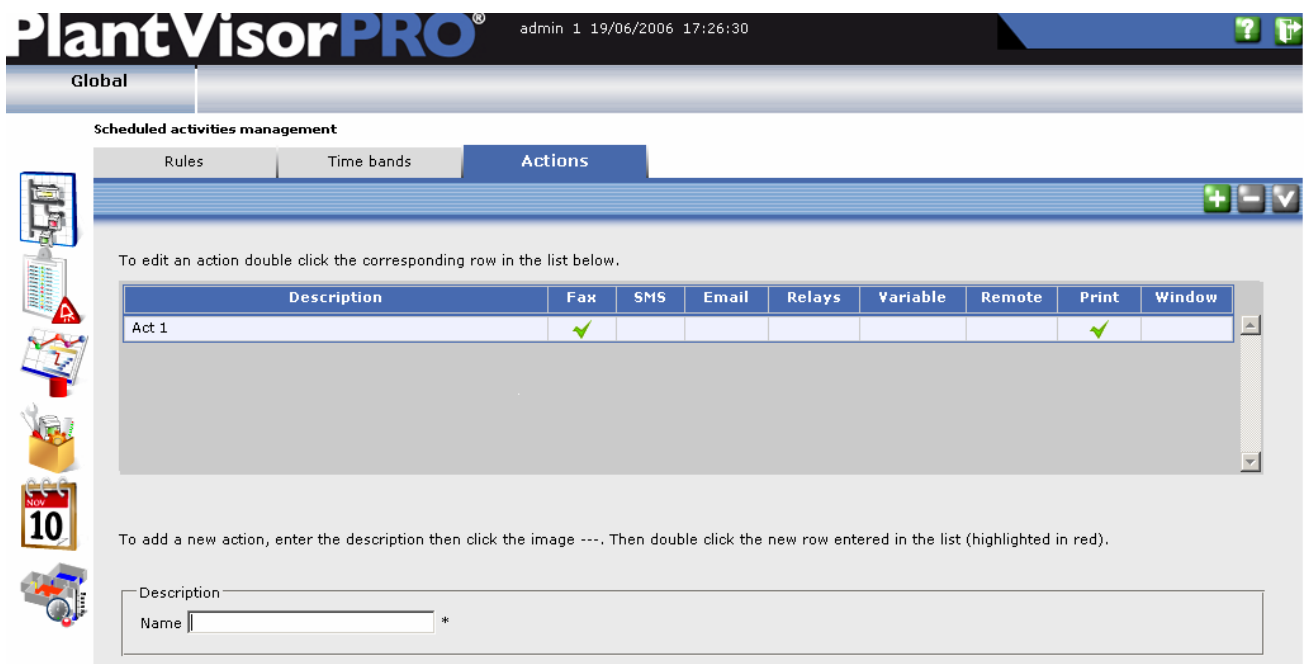



The following page will be displayed:



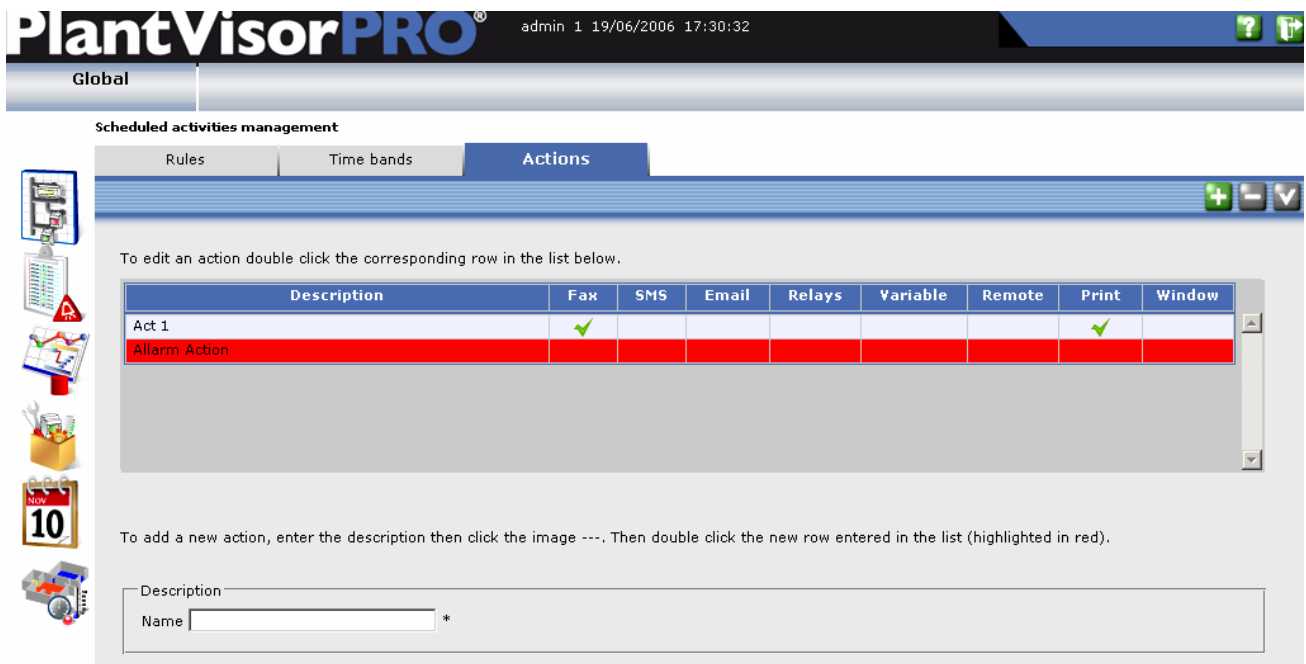
Select the "Actions" tab

The following page will be displayed:

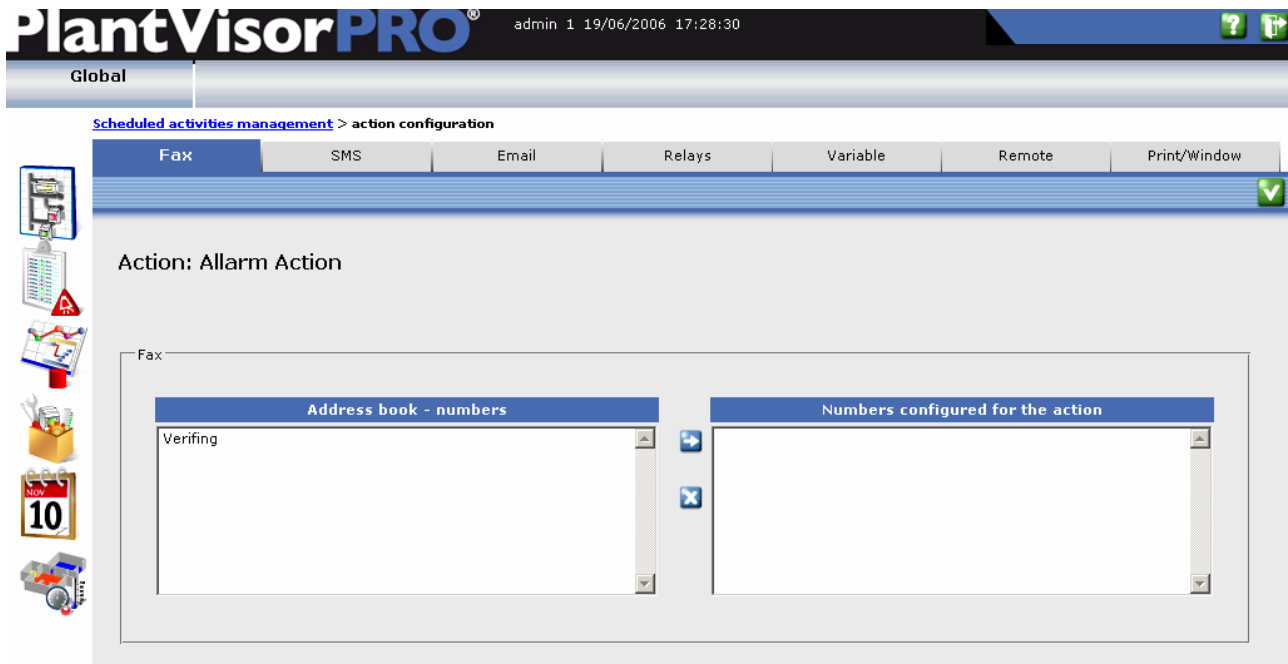


To add a new action, enter the cue name in the "Name" field (for example: "Alarm action"), click . The settings will then be saved.

Subsequently double click the new row that has been entered in the list (highlighted in red). This will allow the type of operation to be set for this action.





Double click the red row in the list of actions, the following page will be opened:



Assuming the desired actions are to send a fax and display the alarm window (for the explanation of all the other settings, see the PlantVisorPRO “Full User Manual”).

The “Address book - numbers” tab in the “Fax” section contains the address book that has been set when configuring the fax modem (see the chapter “Configuring the I/O peripherals”, sub-chapter “Setting the modem to send faxes”).

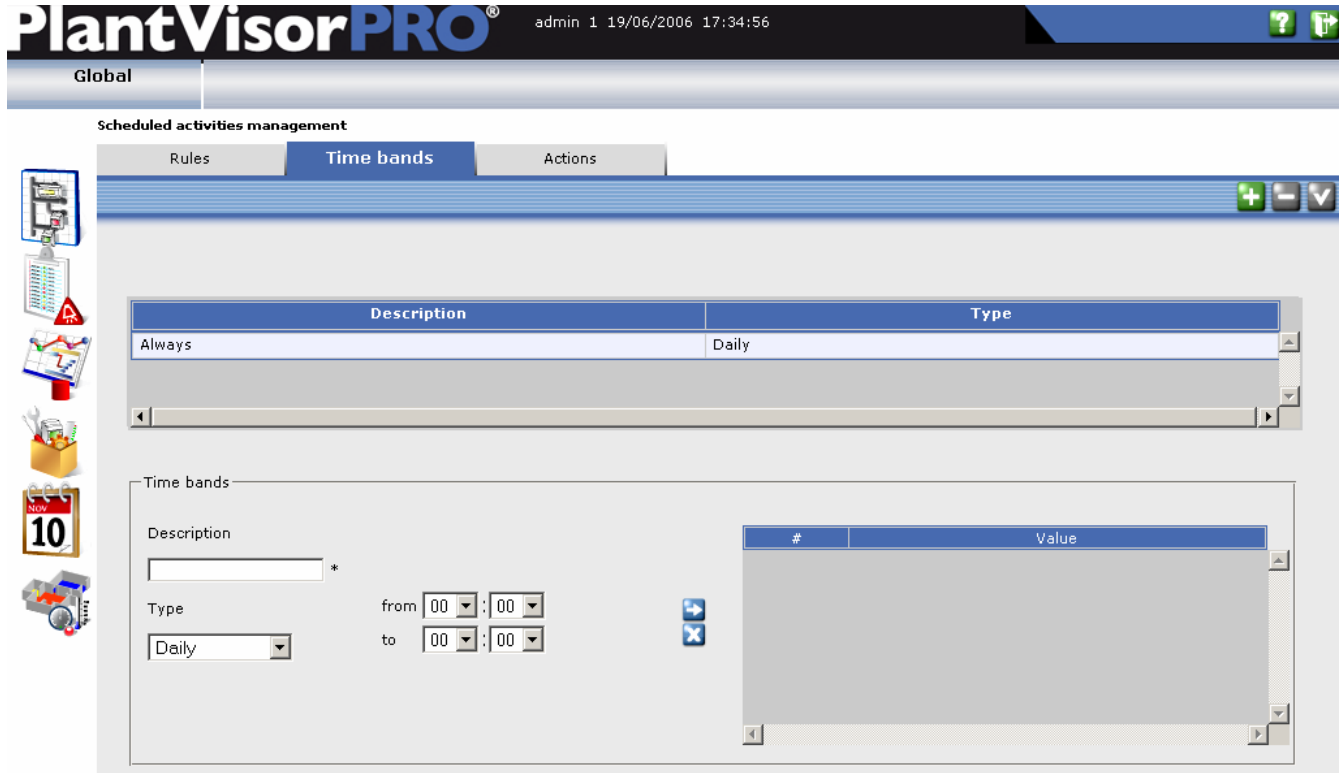
Enter the desired address book items by selecting them and then click .

To save the settings, click .

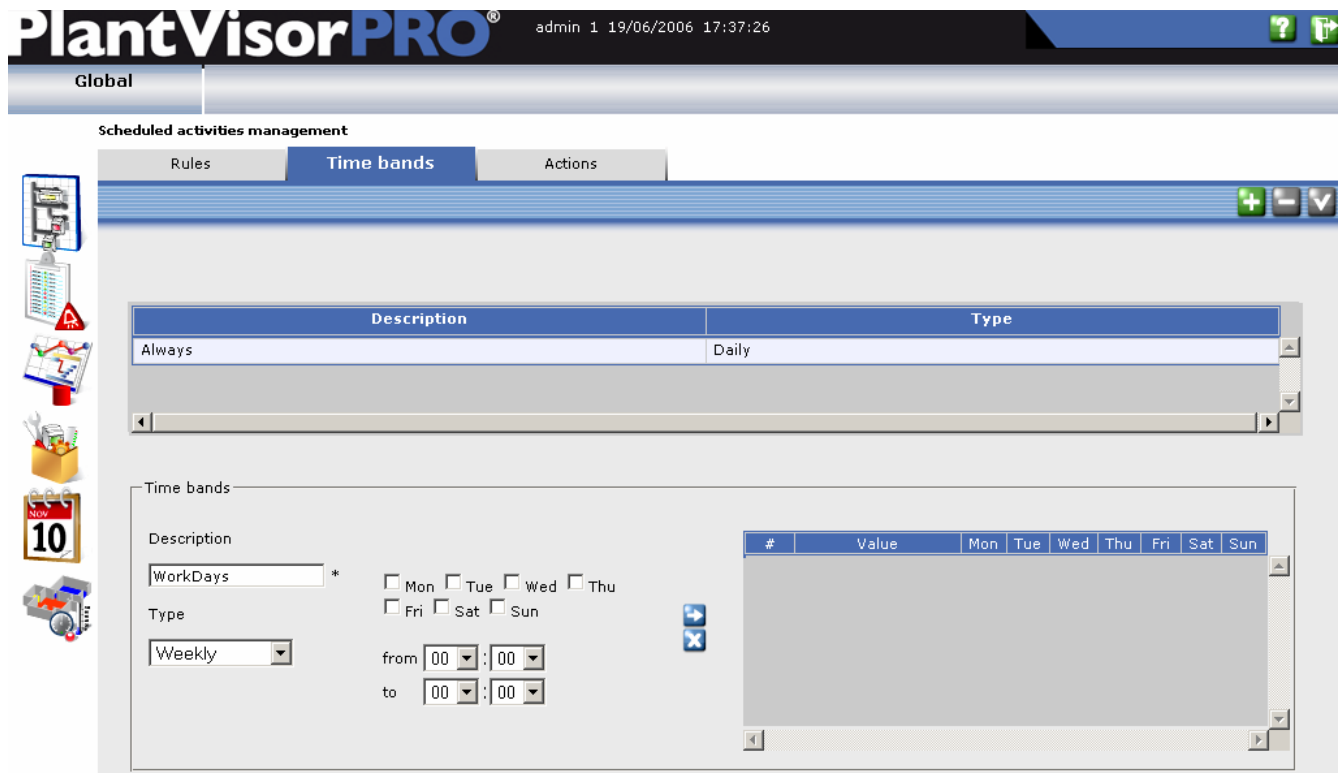
To return to the page for setting the actions, click the “Scheduled activities management” link above the tabs.

[Scheduled activities management](#) > **action configuration**

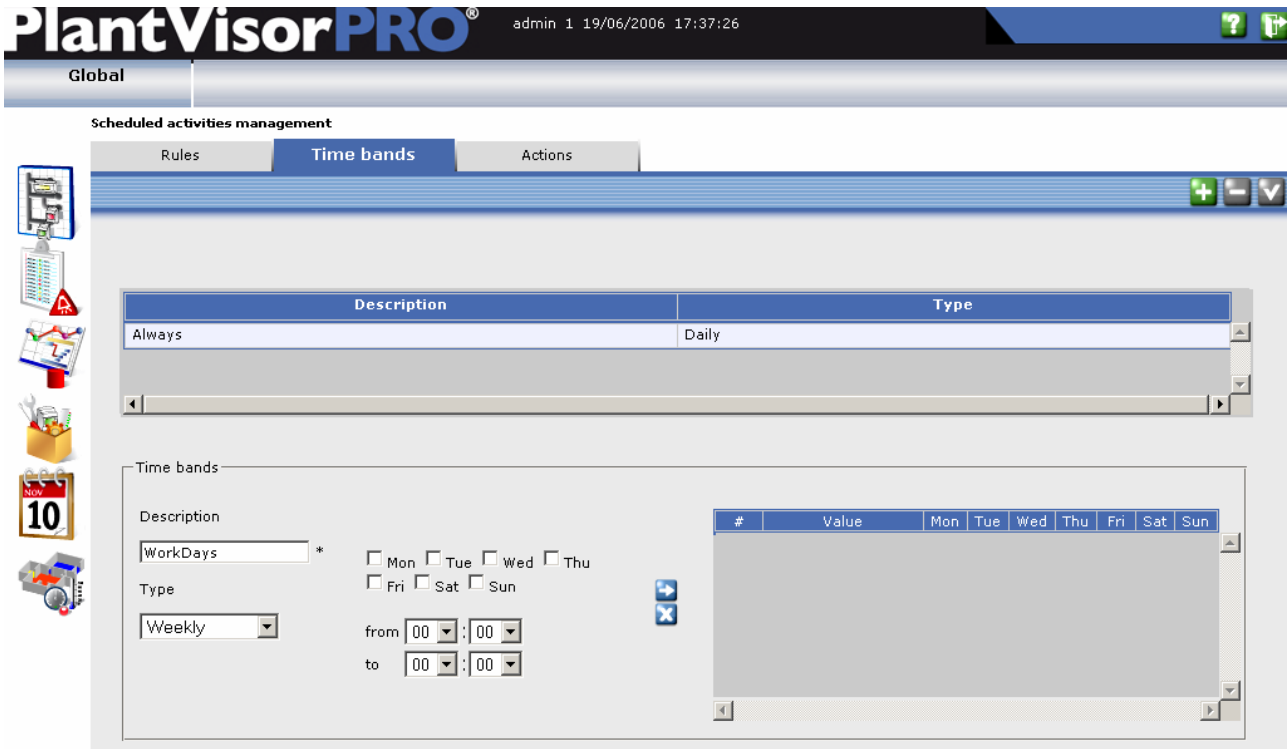
Then select the “Time bands” tab
The following page will be displayed:



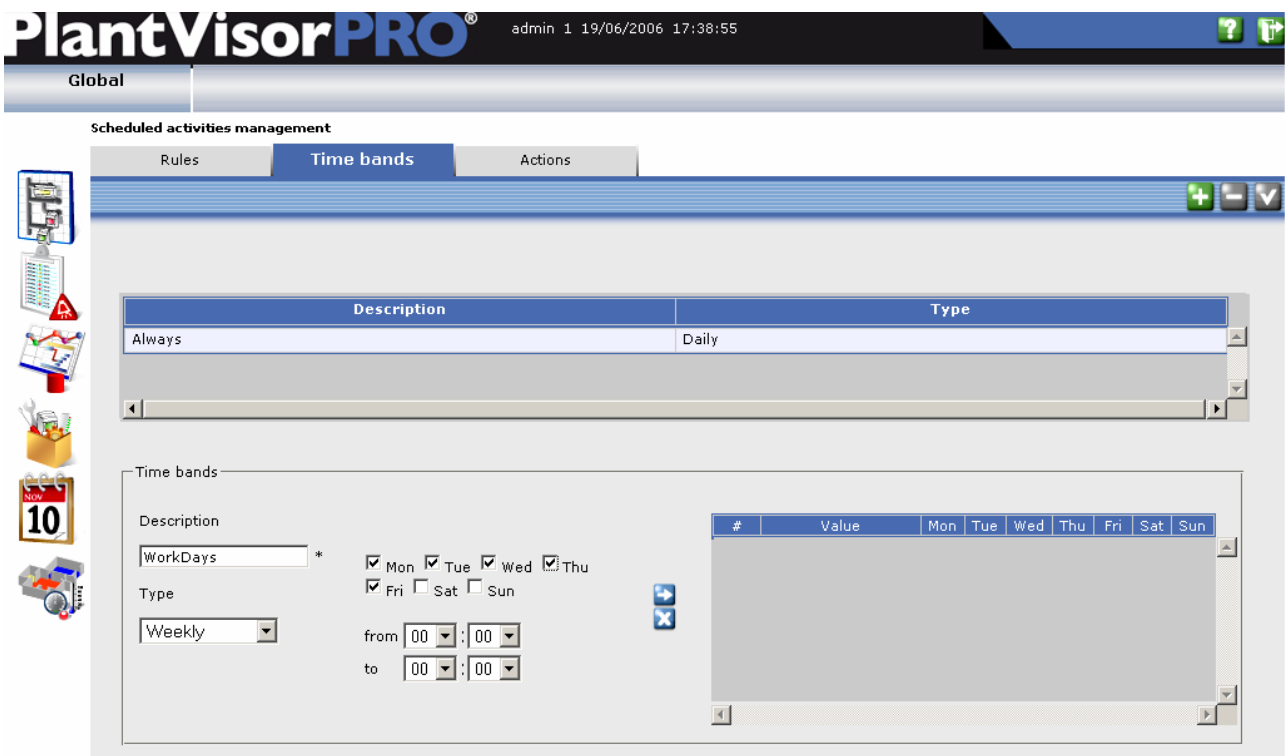
Enter the text “Workdays” in the “Description” field.
From the “Type” selection field, select the item “Weekly”.




Select the days from Monday to Friday:



Set the time from 8:00 to 9:00:



Then click .

Finally click  to save the changes made.

Now to set the rules, click the "Rules" tab
The following page will be displayed:

PlantVisorPRO[®] admin 1 19/06/2006 17:44:39

Global

Scheduled activities management

Rules Time bands Actions

Commento alla pagina

Enabled	Description	Time bands	Actions	Delay

Rule

Description * Enabled

Time bands * Actions *

In the "Rules" section, enter a cue name in the "Description" field for the rule being created (for example: "Weekly fax").
 Check the "Enabled" field.
 Select the desired time band (for example: "Workday")
 Select the action you want to set (for example: "Alarm action").

Click .

The settings will then be saved and become operational.

5. Groups and Areas (if included in the version)

Groups are logical groupings of devices.



These are displayed in the form of lists in the menu with the icon

Groups are useful for identifying

- a set of devices with the same features (e.g. all IRmpx)
- a set of devices with the same type of product stored (e.g.: “dairy showcases”, “fruit and vegetables”, “frozen food”)

The advantages of using groups derive from the immediateness of the information displayed and the possibility to create different types of management for each group.

With the groups is possible create variables of group.

Areas are logical groupings of groups and/or of devices. These are displayed in the bar at the top.

If supervising a refrigeration installation in a supermarket, areas can be created to identify similar devices and/or groups. For example, the low temperature and the normal temperature devices can be grouped together (“dairy showcases”, “fruit and vegetables”, “frozen foods”), the groups can be added, depending on the type, to an area: “LT utilities” or “NT utilities”.

For further information and how to configure these, see the chapters on “Groups” and “Areas” in the PlantVisorPRO Full User Manual.

6. Registering the product



To register the product, from the “Configuration” menu select the “System pages” item; the following page will be displayed :


The screenshot shows the PlantVisorPRO web interface. The top navigation bar includes 'Global' and 'System pages'. The 'System pages' section is active, showing a list of tabs: Information, System, IDE, Support, guardianPRO, and Notifications. The 'Information' tab is selected, displaying the following system information:

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)	490,996 KB
Used physical memory (RAM) percentage	81 %
Used CPU percentage	2 %
Free space	31,616 MB
Used space	6,530 MB
MAC address	00-90-05-D6-0E-F6
Version	PlantVisorPRO version 2.0b
Product folder	C:\Carel\PlantVisorPRO\
Software folder	C:\Carel\PlantVisorPRO\engine\webapps\WebSupervisor\
Installation	Locale
Type	Advanced
Serial number	<input type="text"/>
Activation code	<input type="text"/>

On the www.carel.com site click the “Request PlantVisorPRO activation code” link, complete all the fields on the application form.

Important: The MAC-address on the PlantVisorPRO system page is required, as well as the “Serial Number” printed on the CD or on the label at the bottom in the case of PlantVisorPRO Embedded.

Once the data have been confirmed, a page will be displayed showing the “activation code” to be entered in the system page.

To save the activation code for the supervisor, click .

Then logout and login to PlantVisorPRO again.

7. Configuring guardianPRO

guardianPRO is an application that ensures maximum system reliability. All the processes are monitored, and in the event of hardware or supervision software faults, guardianPRO independently generates an alarm signal via SMS, fax or e-mail to warn the user.

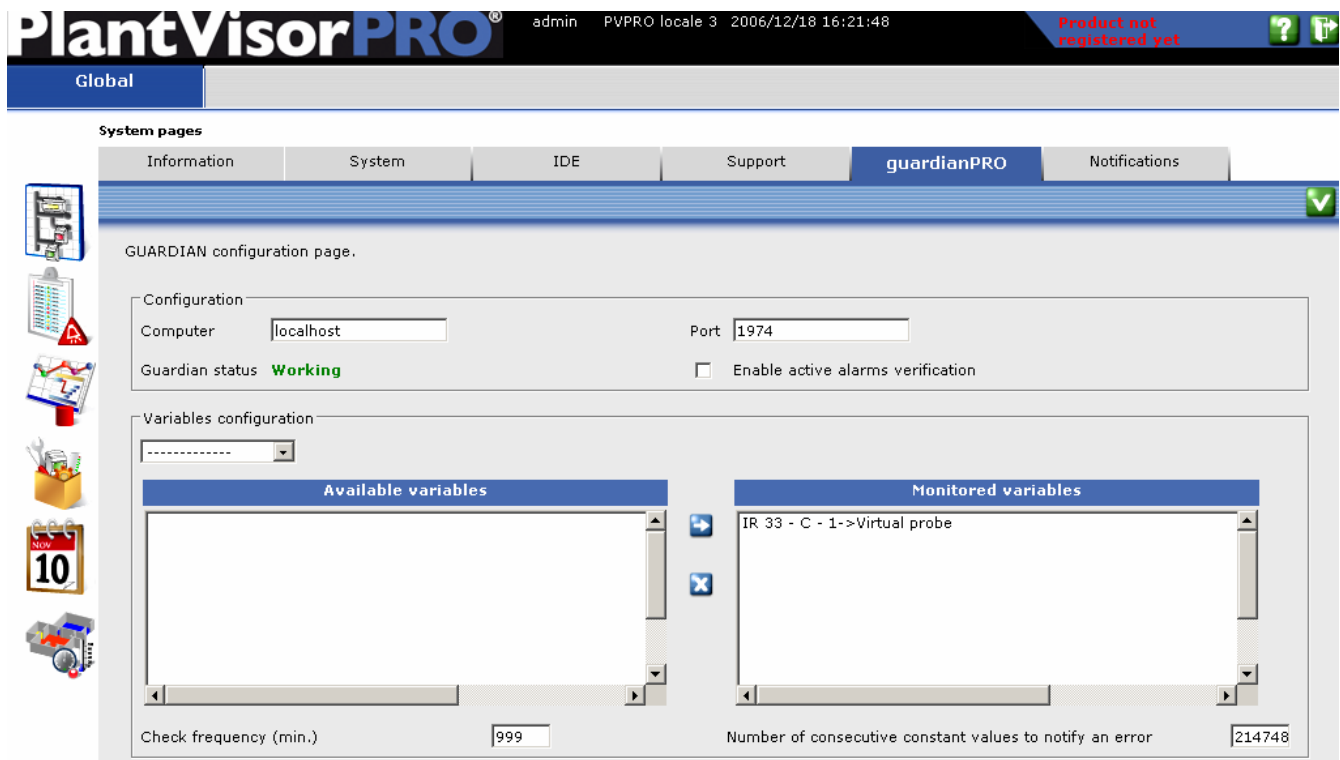
N.B.

guardianPRO must be configured with at least one alarm signal, even simply “Alarm window”, to avoid restarting the unit if guardianPRO cannot signal the alarm situation.

7.1. guardian



To access the general configuration of the guardian function, from the “Configuration” menu select the “System pages” item and then the “guardian” tab; the following page will be displayed:



The screenshot shows the PlantVisorPRO web interface. The top navigation bar includes 'Global' and 'System pages'. Under 'System pages', the 'guardianPRO' tab is selected. The main content area displays the 'GUARDIAN configuration page.' with the following sections:



- Configuration:**
 - Computer: localhost
 - Port: 1974
 - Guardian status: Working
 - Enable active alarms verification
- Variables configuration:**
 - Available variables:** (empty list)
 - Monitored variables:** IR 33 - C - 1->Virtual probe
- Check frequency (min.):** 999
- Number of consecutive constant values to notify an error:** 214748

In the Configuration section, set the computer and the port where guardianPRO is connected:


- Computer : name or IP address where the guardianPRO is installed (leave “localhost”)(*)
- Port : number of the port on the computer where guardianPRO is connected (leave “1974”)(*)

(*) Consult the “Full User Manual” and contact the network administrator if guardianPRO is installed on another computer in the network.

In the “Variables configuration” section, a number of device probes can be selected that guardianPRO monitors independently of PlantVisorPRO. This monitoring process makes sure that reliable values are always received from the field devices.

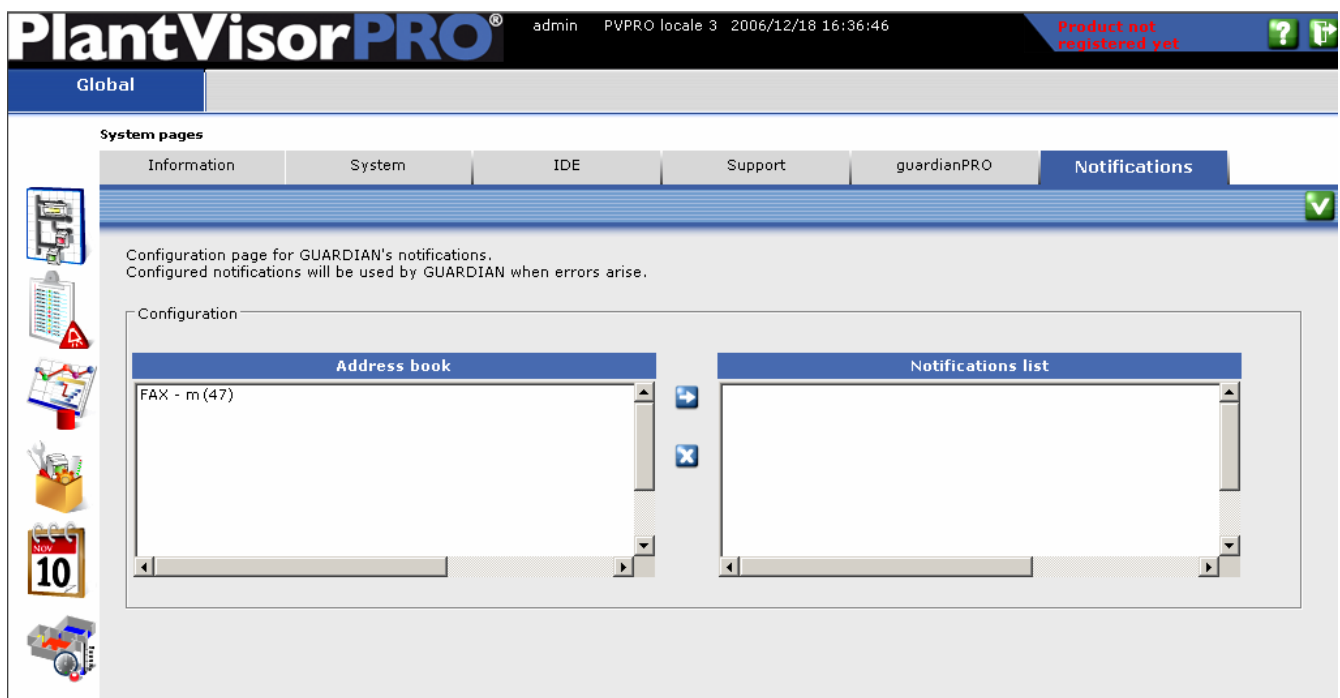
1. Choose the device with the variable to be managed by guardian from the “Device” list box
2. From the “Variables available”, select the variables to be monitored by guardian
3. Click  to add these to the “Monitored variables” list
4. To remove a controlled variable from the list, select it and click 
5. Repeat this procedure from point 1 to point 3 for each group of variables on the devices being monitored
6. Set how often to activate the guardian (in minutes) in the “Monitoring frequency (min.)” field
7. Set the “Monitoring frequency” and “Number of constant consecutive values to signal an error”, that is, the for how long the probes have a constant value before assuming a communication error with the field devices.

For a minimum configuration select at least one probe on 2 / 3 different instruments and leave the two preset values at 10.

Once the settings have been completed, click  to save the configuration. Then select the “Signals” tab.


7.2. Signals


Once having selected the “Signals” tab, the following page will be displayed:




The screenshot shows the PlantVisorPRO web interface. The top navigation bar includes 'Global', 'System pages', and 'Notifications'. The 'Notifications' tab is selected. The main content area displays the configuration page for GUARDIAN's notifications, with a configuration area containing an 'Address book' and a 'Notifications list'. The 'Address book' contains one entry: 'FAX - m (47)'. The 'Notifications list' is currently empty. The page also includes a sidebar with various icons and a top status bar with the text 'Product not registered yet'.

The address book will include all the recipients of the signals from the scheduler. One or more recipients in the address book can be used, or alternatively, again in the “Configuring the I/O peripherals” pages, a specific recipient can be entered for the signals from the guardian. If a Scheduler address book entry is removed, this event will not affect the list in guardianPRO, which is managed separately.

From the “Address book” list, select the addresses or the numbers to send the guardianPRO signals to, then click  to add these to the “List of signals”

In the event of an error when entering, select the incorrect item in the “List of signals” and click 

To save the settings, click 

8. Glossary

Active alarm: Active alarms are alarms whose causes are still present.

Alarm: Alarms are status signals sent by the devices to the supervisory system and then processed to indicate abnormal situations or faults.

Alarm report: The alarm report is a table that, based on a start and end date set by the user, displays all the alarms that have occurred over a set period.

Area: Logical set of groups and/or devices.

Daily report: The daily report is a table that displays the values of certain logged variables selected by the user for a specific date.

Device: Device refers to an electronic device connected to a supervisory network that can be managed by PlantVisorPRO.

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

Group: Logical set of devices. Group variables can be created for the groups.

Group variable: logical extension of variables with write access that belong to different devices that have been entered in the same group.

Instant value report: The instant value report is a table that displays the instant values (those measured at the moment of printing the report) of the variables for a certain device.

Local supervisor: A local supervisor is a system for controlling and managing devices.

Log report: The alarm log report is a table that, based on a start and end date set by the user, displays the values of certain logged variables selected by the user.

Network: A network is a series of devices connected to and supervised by PlantVisorPRO (devices, converters, etc.).

Remote supervisor: A remote supervisor is a centralised system for controlling the local supervisors.

Report: Reports are tables generated according to time that contain the data of the logged variables.

Reset alarm: Reset alarms are alarm events whose causes are no longer present.

Site: A site is any installation managed by PlantVisorPRO. Normally the name of the site is used to indicate a PlantVisorPRO installation that is accessible via a remote connection.

Supervisor: Program that can manage the hardware connected to the computer. Its main task is to check the status of the devices and implement actions according to the rules set by the user, keeping trace of such actions.

User: A user is a subject who is approved and authorised to access the supervisor.

Variable: Each device has a number of variables, which are configuration parameters and/or status conditions of the device.

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