# **PlantVisorPRO Locale**









Technology & Evolution

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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 :
  - o 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.

Insta	allSt	nield	Wiz	ard								×
•						•						
						•						
							and the second second	ault PlantVisor F	-'RU lan	guage ins		
						-	English				<u> </u>	
14	1				•15	-						
	•	-	-			-						
-	-											
Instal	-	_	R	EL								,
								< Back		Next >		Cancel

Select a language and then click on "Next".

Plant Visor PRO - InstallShield Wizar	rd 🛛 🔀
<b>Ready to Install the Program</b> The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of you the wizard.	ir installation settings, click Back. Click Cancel to exit
InstallShield	< Back

Click on "Install".

🛃 J25E Development Kit 5.0 Update 5 - License	×
License Agreement Please read the following license agreement carefully.	Sun.
Sun Microsystems, Inc. Binary Code License Agreement	
for the JAVA 2 PLATFORM STANDARD EDITION DEVELOPMENT KIT 5.0	
SUN MICROSYSTEMS, INC. ("SUN") IS WILLING TO LICENSE THE SOFTWARE IDE BELOW TO YOU ONLY UPON THE CONDITION THAT YOU ACCEPT ALL OF THE CONTAINED IN THIS BINARY CODE LICENSE AGREEMENT AND SUPPLEMENTAL TERMS (COLLECTIVELY "AGREEMENT"). PLEASE READ THE AGREEMENT CARE DOWNLOADING OR INSTALLING THIS SOFTWARE, YOU ACCEPT THE TERMS OF AGREEMENT. INDICATE ACCEPTANCE BY SELECTING THE "ACCEPT" BUTTON A BOTTOM OF THE AGREEMENT. IF YOU ARE NOT WILLING TO BE BOUND BY ALL SELECT THE "DECLINE" BUTTON AT THE BOTTOM OF THE AGREEMENT AND THI	TERMS LICENSE EFULLY. BY F THE .T THE L THE TERMS,
<ul> <li>I accept the terms in the license agreement</li> </ul>	
$\mathbb C$ I do not accept the terms in the license agreement	
InstallShield	Cancel

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

🙀 J25E Development Kit 5.0 Update 5 - Cust	om Setup
<b>Custom Setup</b> Select the program features you want installed.	Sun.
Select optional features to install from the list belo installation by using the Add/Remove Programs uti Development Tools Demos Source Code Public JRE	
, Install to: C:\Programmi\Java\jdk1.5.0_05\ IostallShield	Change
	Back Next > Cancel

### Click on "next"

🙀 J2SE Dev	elopment Kit 5.0 Update 5 - Progress	<u>-</u>   ×
Installing The proc	ram features you selected are being installed.	<u>♦ Sun</u> .
	Please wait while the Install Wizard installs J2SE Development Kit 5.0 Update 5. This may take several minutes. Status:	
InstallShield -	< Back Next >	

Click on "next"

🙀 J25E Runtime Environment 5.0 Update 5 - Cus	stom Setup
<b>Custom Setup</b> Select the program features you want installed.	Sun.
The J2SE Runtime Environment with support for Europe optional features to install from the list below.	Ean languages will be installed. Select Feature Description The J2SE Runtime Environment with European languages. This requires 131 MB on your hard drive.
Install to: C:\Program Files\Java\jre1.5.0_05\ InstallShield	
	Next > Cancel

Click on "next"

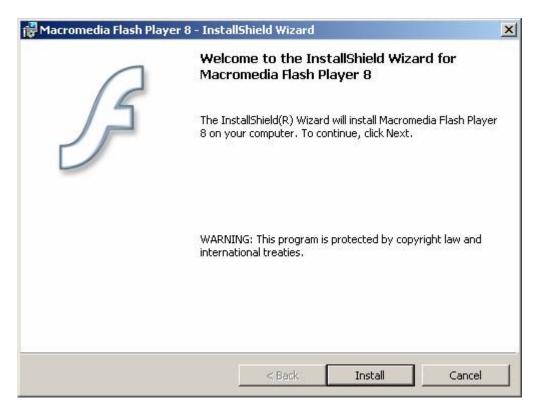
🛃 J25E F	tuntime Environment 5.0 Up	date 5 - Browser	Registration	X
	er Registration t the browsers you want to regis	iter with Java(TM) Pl	lug-In.	Sun!
ব	Microsoft Internet Explorer			
	You may change the settings	later in the Java(TM	1) Control Panel.	
nstallShie	ld			
		< Back	Next >	Cancel

Click on "next"

🙀 J2SE Development Kit 5.0	Update 5 - Complete X
	Installation Completed
	The Install Wizard has successfully installed J2SE Development Kit 5.0 Update 5. Click Finish to exit the wizard.
Sun Java	
	< Back Finish Cancel

Click on "finish"

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



Click on "Install" and wait.

🙀 Macromedia Flash Player 8 - InstallShield Wizard						
P	InstallShield Wizard Completed					
J	The InstallShield Wizard has successfully installed Macromedia Flash Player 8. Click Finish to exit the wizard.					
	< Back Finish Cancel					

Click on "Finish".

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

Postgre5QL	1	- 🗆 ×
Welcome to the PostgreSQL Installation Wizard	L)	Y
Select the language to be used during installation:		
English / English		
C German / Deutsch		
C French / Français		
🔿 Brazilian Portuguese / Português - Brasil		
C Russian / Russian		
C Swedish / Svenska		
C Turkish / Türkçe		
Write detailed installation log to postgresql-8.1.log in the current directo	ry	
Sta	rt > Can	cel

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

🚰 PostgreSQL	
Welcome to the PostgreSQL Installation Wizard	Q Y
It is strongly recommended that you exit all Windows programs before conti	nuing with this installation.
Click the 'Next' button to continue, or 'Cancel' if you wish to abort the instal	ation and try again later.
	t> Cancel
< Back Nex	

Click on "next" to advance installation.

🙀 PostgreSQL	
Installation notes	LQ Z
Please read the installation instructions and inform	nation completely through before you continue.
Postgre	SQL 8.1
Installatio	on Notes
Welcome to the PostgreSQL 8.1 Install	ation Wizard.
Before you begin Please check the pginstaller FAQ at <u>http://pginstaller.projects.postgresql.org</u> started. If you experience any problems you have read through these installation	, please check it again. Also, make sure
	< Back Next > Cancel

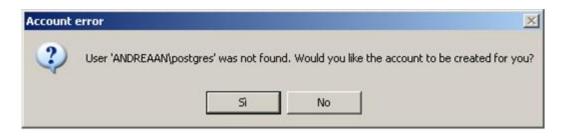
Click on "next"

🚏 PostgreSQL	
Installation options	LQ V
PostgreSQL     Database Server     Data directory     National language supp     PostGIS Spatial Extens     X      User Interfaces	The PostgreSQL object relational database, tools and interfaces
psql pgAdmin III □ □ ▼ Database Drivers	This feature requires 6461KB on your hard drive. It has 3 of 4 subfeatures selected. The subfeatures require 65MB on your hard drive.
Current location:	
C:\Programmi\PostgreSQL\8.1\	Browse
< F	Back Next > Cancel

### Press "next" to advance installation

ervice configur	ation	
Install as a servious	be	
Service name	PostgreSQL Database Server 8.1	
Account name	postgres	
Account domain	ANDREAAN	
Account password	*******	)
/erify password	******	J
be a member of the l he installer can do s	t is the account that runs the PostgreSQL database server. It must NOT ocal administrators group. If you have not already created an account, io for you. Enter an account name and a password, or leave the ave one auto-generated.	-

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



### Press "Yes" to create the user

Password			×
?	The password you specified appears wea	ak. Would you like th	ne installer to replace it with a random password?
	5	ì No	

Press "No" to maintain the previously set password.

nitialise databa	ise cluster	LG &
Initialize databa	ise cluster	
Port number	5432	
Addresses	🔽 Accept connection	ons on all addreses, not just localhost
Locale	С	
Encoding	SQL_ASCII	
	-	The first of the f
Superuser name	postgres	This is the internal database username, and
		not the service account. For security reasons,
Superuser name Password Password (again)	-	not the service account. For security reasons, the password should NOT be the same as the

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

Remote	connections
<b>i</b> )	You have opted for the server to listen for connections on all local addresses, not just 'localhost'. In order for clients to connect successfully, you must also grant access to specific host addresses or networks by editting the pg_hba.conf file in the data directory and restarting the PostgreSQL service.

Press "OK"

Q	Y
Canc	el 📗
	Cance

Click on "Next" to advance

PostgreSQL			
Enable contrib mo	dules		LQ Y
	database. All files will be		ct those you wish to install y be added later simply by
B-Tree GiST	Integer Aggregator	Crypto. Functions	E RefInt
Chkpass	☐ Integer Array	PGStatTuple	Time Travel
Cube	□ ISBN and ISSN	SEG SEG	Table Functions
🗖 DBlink	🔲 Large Objects (lo)	E AutoInc	TSearch2
Earth Distance	L-Tree	🗖 Insert Username	User Lock
🔲 Fuzzy String Match	🗖 Trigram Matching	🔲 ModDateTime	
Admin81 - used by	pqAdmin to provide enha	anced functionality.	
			· · · · · · · · · · · · · · · · · · ·
	precated in favour of Tse	earch2; only use for exist	ing applications!.
		< Back Ne	ext > Cancel

Click on "Next"

🙀 PostgreSQL		ļ	<u> </u>
Ready to install		LQ	Y
PosteroSQL is new ready to be installed. Click New	ut to complete the installation	:	
PostgreSQL is now ready to be installed. Click Ne:	kt to complete the installation.		
	<back next=""></back>	Can	cel

Click on "Next" to advance and wait

🙀 PostgreSQL	×
Installation complete!	LQ V
Congratulations, PostgreSQL has been successful We recommend that you subscribe to the pgsql-and releases and bugfixes.	Illy installed on your system. nnounce mailinglist to receive information about new
Subscribe to pgsql-announce	j
Click the finish button to exit from the installer.	
	K Back Finish Cancel

Press "finish" to end installation.

Plant	Vis	or P	RO -	Ins	talls	ihielo	l Wizard
• • • •		• • • •	* * * *	• • • •	• • • •	• • • •	InstallShield Wizard Complete The InstallShield Wizard has successfully installed Plant Visor PRO. Click Finish to exit the wizard.
		A	R	E			
							K Back, Finish Cancel

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\Carel\PlantVisorPRO from the Windows "Start" in the link folder named "Homepage":



PlantVisor	PRO	<b>•••</b>
	User	admin
///////////////////////////////////////	Password	•••••
	Language	English 💌
7.7.7.7.7.7.8.8.1.		Login

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:

Pla	IntVis	<b>or</b> PR	edmin 1	19/06/20	06 13:57:24		2 🖿
	lobal						
	Globale						
	Main	Parameters	Alarms	HACCP graph	Log graph	Conf Graph	Notes
			ſ	Devices non pres	senti		<b>*:</b> *:
			Ì	Tabs	_		
		Menù Icon	-				
10							

# 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 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

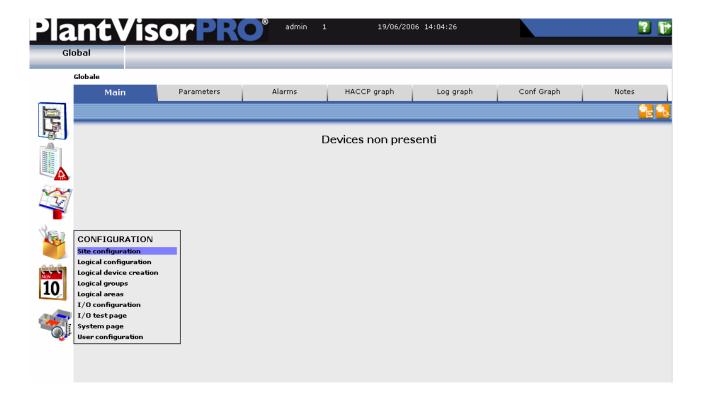
The plant is configured by setting the serial lines and the relative devices they contain.

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".



The following page will appear:

Site	New line	Notes		
	and the second second			
'his page is used to se 'o edit a configured lir	et the site information. The double click the row in the l	list below.		
o remove a line selec	ne double click the row in the l at the its row in the list below a	and then click the image		
Oite information				
Site information				
Name:	PlantVisor PRO	*		
Identifier:	Supervisor1			
Telephone:				
Password:		*		
Confirm password:				
ist of lines				
Line	COM port	Transmission speed	Protocol	Number of device

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":

e configuration					
Site	New line	Notes			
		K			
Site information Name: Identifier: Telephone: Password: Confirm password:	PlantVisor Supervisor I		*		
List of lines	COM p	ort Trans	mission speed	Protocol	Number of device
Line					

### The following page will open:

Pla	ntVis	orPR	admin 1	19/06/2006 14:11:06	2 🗗
Glo	bal				
	Site configuration		_		
	Site	New line	Notes		
흔					✓
H	Configuration	of serial line no	.1		
		configure the devices co t the serial address (or		add more than one device of the same type), d	efine the type of device connected, then
	Connection				
Ser.	COM port	- Baud	rate 🗾 🗾	Protocol	* Default value
A Real	Devices				
226	Description	Cella stagionatura (I	EPSTDICS00)	×	
10			Serial address 1	scription	±
		न 🗈	2		
	From address 1	- 🔁	3 4		
-	To address 1	- 🔀	5		
		_	7		
			8		

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

Pla	ntVis	orpr	admin 1	19/06/2006 14:14:12	2 👔	Þ
	obal					
	Site configuration					Ī
	Site	New line	Notes			
				·	· · · · · · · · · · · · · · · · · · ·	2
F	Configuration	of serial line no	o.1		-	•
		configure the devices c t the serial address (o		add more than one device of the same ty	pe), define the type of device connected, then	
	Connection					
See.	COM port CC	M1 🗾 Baud	rate 19200* 💌	Protocol CAREL - RS485N*	* Default value	
A Bal	Devices					
	Description	MasterCase		•		
10			Serial Device de: address 1	scription	±	
*	From address 1	- 🗈	2 3 4			
	The state of the s		5			
	To address 5	- 🔀	6			
			8			
			0			•

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

Site configuration Site	New line	Notes		
To add devices, select t	he serial address (	or a range of addresses, to add	I more than one device of the same	type), define the type of device connecte
click the image To remo				
Connection				
COM port COM	1 Bau	d rate 19200* -	Protocol CAREL - RS485N	*
. ,			former no form	
Devices				
Devices	MasterCase		T	
Description	MasterCase	·	×	
	MasterCase	Serial address Device descr		
	MasterCase	address Device descr 1 MasterCase -	iption 1	
Description		address         Device descr           1         MasterCase -           2         MasterCase -	iption 1 2	
		address Device descr 1 MasterCase -	iption 1 2 3	
Description		address         Device descr           1         MasterCase -           2         MasterCase -           3         MasterCase -	iption 1 2 3 4	
Description		address Device descr 1 MasterCase - 2 MasterCase - 3 MasterCase - 4 MasterCase - 5 MasterCase - 6	iption 1 2 3 4	
Description		address Device descr 1 MasterCase - 2 MasterCase - 3 MasterCase - 4 MasterCase - 5 MasterCase - 6 7	iption 1 2 3 4	
Description		address Device descr 1 MasterCase - 2 MasterCase - 3 MasterCase - 4 MasterCase - 5 MasterCase - 6	iption 1 2 3 4	

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

### 5.1.2 Modifying the settings of a device

Site	New line No	tes		
		·		
This page is used to set tl	he site information.			
To edit a configured line of	double click the row in the list belo he its row in the list below and the	)W.		
To remove a line select tr	ne its row in the list below and the	n click the image		
Site information				
Name:	Supermarket	*		
Identifier:	11			
Telephone:	390493298985			
Password:		*		
Confirm password:				
commi passilorai	[*****			
List of lines				
Line	COM port	Transmission speed	Protocol	Number of device
1	COM1	19200	CAREL-RS485N	5

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.

	orPR		1 19/07/20	06 14:25:27	
al 👘					
<u>configuration</u> > line	configuration				
Display line	Edit line	Notes			
	L	1			
Confirmention					
Configuration	n of serial line	no.1			
To access the config	uration of a device of	double click the correspo	onding row in the list help	IAI	
To access the config	uration of a device, o	double click the correspo	onding row in the list belo	W.	
To access the config	uration of a device, (	double click the correspo	onding row in the list belo	w.	
To access the config −Configured devices		double click the correspo	onding row in the list belo	w.	
-		double click the correspo	onding row in the list belo	w.	 
Configured devices	s	double click the correspo	-		
-	s	double click the correspo	-	w. description	
Configured devices	s	double click the correspondence of the corre	-		_
- Configured devices Serial address	Device model		-		
Configured devices	Device model	MasterCase - 1	-		
Configured devices Serial address 1 2	Device model MasterCase MasterCase	MasterCase - 1 MasterCase - 2	-		
Configured devices Serial address 1 2 3	Device model MasterCase MasterCase MasterCase	MasterCase - 1 MasterCase - 2 MasterCase - 3	-		

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

	orpro	admin 1	19/07/2006 14:		
al					
<u>e configuration</u> > <u>lin</u>	<u>e configuration</u> > device confi	guration			
Main	Alarm variables	Variables	Descriptions list	Main variables	Notes
					•
The description of	the device can be changed and	d the device disabled.			
Description					
Description				Language	Description
Default			Multilanguage		
description Mas (Italiano)	erCase - 1		* description	Maste	erCase - 1
				•	
Status					
🔲 Disable the d	evice (alarms configured in SC	CHEDULER section will	not be managed)		

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:

Main	Alarm variables	Variables	Descriptions list	Main variables	Notes	
			Descriptions lise		Notes	
Frequency for (	hecking the alarms: 30	seconds				
Active	,	Descrip	ption		Priorit	Y
Active	Alarm high temperature v	Descriț	ption		Priorit	Y
		Descrip virtual probe (HI)	ption			У
V	Alarm high temperature v	Descrip virtual probe (HI) rtual probe (LO)	ption		Highest	У
V V	Alarm high temperature v	Descrip virtual probe (HI) rtual probe (LO) sment	ption		Highest Highest	y
য য য	Alarm high temperature v Alarm low temperature v Alarm case clean manage	Descrip virtual probe (HI) rtual probe (LO) sment	ption		Highest Highest Highest	У
য য য र	Alarm high temperature v Alarm low temperature v Alarm case clean manage Defrost interrupted for tin	Descrip rirtual probe (HI) rtual probe (LO) rment neout signalling	ption		Highest Highest Highest Highest	<u>у</u>
য য য য	Alarm high temperature v Alarm low temperature v Alarm case clean manage Defrost interrupted for tir Valve driver LAN error	Descrip rirtual probe (HI) rtual probe (LO) ment neout signalling obe	ption		Highest Highest Highest Highest Highest	У
য য য য য য য য	Alarm high temperature v Alarm low temperature v Alarm case clean manage Defrost interrupted for tir Valve driver LAN error Alarm SH temperature pr	Descrip virtual probe (HI) rtual probe (LO) sement neout signalling obe ure probe	ption		Highest Highest Highest Highest Highest Highest	y
য য য য য য য য য য য য য য	Alarm high temperature v Alarm low temperature v Alarm case clean manage Defrost interrupted for tin Valve driver LAN error Alarm SH temperature pr Alarm evaporation pressu	Descrip virtual probe (HI) rtual probe (LO) sement neout signalling obe ure probe ligital input signalling	ption		Highest Highest Highest Highest Highest Highest Highest	Y

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 **built** 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.

	ne configuration > device config						
Main	Alarm variables	Variables	Descriptions list	Main vari	ables		Notes
List of all variable	s that can be logged to HACCP s	tandards and/or to m	onitor the operation of	the installation			
List of all variable	s that can be logged to HACCP s	tandards and/or to m	ionitor the operation of	the installation.			
	¥ariable		HAC	CP Log (Ti	me-¥a	ariation)	
Serial address				<b>V</b>	o	0	
High temp alarn	n:indicates the max variation fro	m the set-point			0	0	
Low temp alarm	indicates the max variation from	m the set-point			0	•	
Low temp alarm Neutral zone	indicates the max variation from	m the set-point			0	0 0	
		m the set-point					
Neutral zone	ation	m the set-point			•	0	
Neutral zone S1 probe calibra	ation	m the set-point			0	0	
Neutral zone S1 probe calibra S3 probe calibra	ation ation	m the set-point	□ ▼ □	□ ▼ □	0 0	•	

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 1 month	30			
	2 months	30			
	6 months 1 year	30			
		201			

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

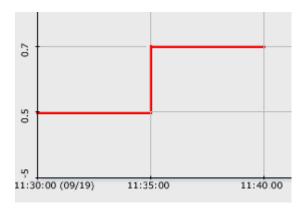
Frequ	Minir	
300	sec.	0
300	600	-

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.

**B1** 

	configuration > device configuration	guration			
Main	Alarm variables	Variables	Descriptions list	Main variables	Notes
	all the device variables can b n, double click the correspond		alow		
o edit a description	r, double click the correspond	ing row in the list be	slow.		
		¥ar	riable descriptions		
Serial address					
Alarm high tempe	rature virtual probe (HI)				
Alarm low temper	ature virtual probe (LO)				
Alarm case clean	management				
Defrost interrupte	d for timeout signalling				
Valve driver LAN	error				
Alarm SH tempera	ature probe				
Alarm evaporation	<u> </u>				
Alarm duty setting	g from digital input signalling				
External delay ala	rm from dig input signalling				

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 **Lize** 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.

		orPRO	admin PlantVisor Restart engi	PRO 200 ne in 'S	<b>6/10/02 11:32</b> : System pag	: <b>13</b> Je'		? (*
	Site configuration > line	configuration > device confi	guration					 
	Main	Alarm variables	Variables	Des	criptions list	Main variables	Notes	
民								
		<b>8</b> ved on the main page of the	device can be selected.					-
	Configuration —							
10	Min and max ter Min. temperatur	Read only variables ava in re measured during 'rt' mperature monitoring time e measured during 'rt' the single unit as Master or	-		Evap. satured Evaporation p HACCP alarm	e (Š2) S3) g percentage st HACCP alarm I temperature oressure i duration	ladles	
	•		Þ		HACCP alarm	i type		
		Read/Write variables av	ailable			Configured var	iables	
	Alarm delay fro Alarm return an Amplification fac Automatic varia Cleaning duratic Compressor min	ion um temperature probe S1 m digital input d fan activation differential stor tion of the night-time set-po				emperature		• _

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

Pla	<b>IntVis</b>	<b>Sor</b> PRO	edmin PlantVisorP		6/10/02 11:34: System nac			🔹 🝸 💽
	lobal		Kestart engi		system pay	e		
	Site configuration > lin	<u>ne configuration</u> > device con	figuration					
	Main	Alarm variables	Variables	Des	criptions list	Main variables	Notes	
흕								
H								
1000	MasterCase	- 8						
	The variables disp	layed on the main page of th	e device can be selected.					
	Configuration -							
		Read only variables av	vailable			Configured vari	ables	
Vel	Firmware ver	sion ture measured during 'rt'	<b>^</b>		Ambient probe Defrost probe			<b>-</b>
	Min and max	temperature monitoring time ure measured during 'rt'			Superheat Third probe (S Valve opening			
NOV	Param config Serial address	of the single unit as Master o s	r Slave		Day of the las Evap, satured	t HACCP alarm temperature		🖸 🚺
10					Evaporation p HACCP alarm	duration		_
100	•		• •		HACCP alarm	type	1	► ►
		Read/Write variables a	vailable			Configured vari	ables	
	AUX1 configu AUX2 configu			1	Alarm relay Aux1 relay			-
	Absolute mini	mum temperature probe S1 rom digital input			Aux2 relay Compressor n	elav		
	Alarm return Amplification	and fan activation differential factor			Defrost end te Defrost relay	mperature		
	Cleaning dura				Differential (h Fan relay			
	Compressor r	ninimum time between two s elex configuration	uccessive operations	1		rm:indicates the max vari		<b>T</b>

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 S.

	<b>IntVis</b>	orpro	admin PlantVisori Restart engi	PRO 200 ne in ':	9 <b>6/10/02 11:35:</b> System pag	41 e'			?] 🗗
	Site configuration > line	configuration > device configu	Iration						
	Main	Alarm variables	Variables	Des	criptions list	Main variables	Notes		
Ş									
	MasterCase -	8 red on the main page of the d	evice can be selected.						
1	Configuration —								
		Read only variables avail	able			Configured vari	ables		
10	Min and max ter Min. temperatur	n re measured during 'rt' mperature monitoring time e measured during 'rt' the single unit as Master or S	lave		Ambient probe Defrost probe Superheat Third probe (S Valve opening Day of the last Evap. satured Evaporation pr HACCP alarm	(\$2) 3) percentage t HACCP alarm temperature ressure			
	•		<u> </u>	·	HACCP alarm		Ŀ	-	
		Read/Write variables ava	ilable	1		Configured vari	ables		
	Alarm delay fro Alarm return an Amplification fac Automatic varia Cleaning duratic	ion Im temperature probe S1 m digital input d fan activation differential stor tion of the night-time set-poin In imum time between two succ			Alarm relay Aux1 relay Compressor m Defrost end te Defrost relay Differential (hi Fan relay High temp alar	mperature	ation from the set-point		•

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

Display line	Edit line	Notes		
				_
<b>6 1 1</b>				
onfiguration of se	erial line no.1			
access the configuration (	of a device, double click the c	corresponding row in the list b	elow.	
Configured devices				
Configured devices				
Serial address	Device model		Device description	
Serial address	MasterCase	MasterCase - 1	Device description	
Serial address	MasterCase MasterCase	MasterCase - 2	Device description	
Serial address	MasterCase MasterCase MasterCase	MasterCase - 2 MasterCase - 3	Device description	
Serial address	MasterCase MasterCase	MasterCase - 2	Device description	
Serial address	MasterCase MasterCase MasterCase	MasterCase - 2 MasterCase - 3	Device description	
Serial address	MasterCase MasterCase MasterCase	MasterCase - 2 MasterCase - 3	Device description	
Serial address	MasterCase MasterCase MasterCase	MasterCase - 2 MasterCase - 3	Device description	
Serial address	MasterCase MasterCase MasterCase	MasterCase - 2 MasterCase - 3	Device description	

Select the "Line Modification" tab.

Site configuration > line configuration         Display line       Edit line       Notes         Configuration of serial line no.1       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 the image '->'. To remove devices from a line, select the address (or the range of addresses) and click the image 'x'. Then save the         Connection       Comection       Comection       CAREL - RS485N*        *         Devices       Devices       Protocol       CAREL - RS485N*        *	
Configuration of serial line no.1         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 the image '->'. To remove devices from a line, select the address (or the range of addresses) and click the image 'x'. Then save the Connection         Comport       COM6 •         Baud rate       19200* •         Protocol       CAREL - RS485N* •	
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 the image '->'. To remove devices from a line, select the address (or the range of addresses) and click the image 'x'. Then save the Connection COM port COM6 Baud rate 19200* Protocol CAREL - RS485N* *	
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 the image '->'. To remove devices from a line, select the address (or the range of addresses) and click the image 'x'. Then save the Connection COM port COM6 Baud rate 19200* Protocol CAREL - RS485N* *	
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 the image '->'. To remove devices from a line, select the address (or the range of addresses) and click the image 'x'. Then save the Connection COM port COM6 Baud rate 19200* Protocol CAREL - RS485N* *	
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 the image '->'. To remove devices from a line, select the address (or the range of addresses) and click the image 'x'. Then save the Connection COM port COM6 Baud rate 19200* Protocol CAREL - RS485N* *	
the image '->'. To remove devices from a line, select the address (or the range of addresses) and click the image 'x'. Then save the Connection COM port COM6  Baud rate 19200*  Protocol CAREL - RS485N*  *	
COM port COM6  Baud rate 19200*  Protocol CAREL - RS485N*  *	
COM port COM6  Baud rate 19200*  Protocol CAREL - RS485N*  *	
	*Default value
- Davisos	
Device model MasterCase2	
Serial address Device description	
1 MasterCase - 1	
2 MasterCase - 2	
3 MasterCase - 3	
From address 1 - 4 MasterCase - 4	
5 MasterCase - 5	
To address 1 - 2 - 7	

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:

Pla	ntViso	orpro	admin PlantViso	rPRO 2006/10/02 16:03;24	? 🖿
	lobal				
	<u>Site configuration</u> > line co	nfiguration			
	Display line	Edit line	Notes		
륹					+ - V
	Enter date	Last update	User	Note	
					<u> </u>
1 Contraction	/				
A.					
0.0.0					<b>T</b>
10					
10					
	I				

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

To memorise the note just introduced click on the week key.

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

	IntVise	orPRC	admin PlantVis	orPRO 2006/10/02 18:13:00		2 1
	<u>Site configuration</u> > line co	onfiguration				
	Display line	Edit line	Notes			
흕						+ - V
	Enter date	Last update	User		Note	
	2006/10/02 05:12	2006/10/02 05:12	admin	New Devices		A
Ĩ	1					
Vie.						
0.0.0						<b>T</b>
10						
10	1					
	I					

By clicking on a note in the notes list:

Enter date     Last update     User     Note       06/10/02 05:12     2006/10/02 05:12     admin     New Devices	Display line Notes	
06/10/02 05:12 2006/10/02 05:12 admin New Devices		
/10/02 05:12 2006/10/02 05:12 admin New Devices		
/10/02 05:12 2006/10/02 05:12 admin New Devices		
	Enter date Last update User Note	
16/10/02 05:13 2006/10/02 05:13 admin Modify Devices	006/10/02 05:12 2006/10/02 05:12 admin New Devices	
	06/10/02 05:13 2006/10/02 05:13 admin Modify Devices	

and clicking on the selected note is deleted.

		orPRC	admin Plant	VisorPRO 2006/10/02 18:13:00		? 1
	<u>Site configuration</u> > line co	onfiguration				
	Display line	Edit line	Notes			
무						+ - V
H						
	Enter date	Last update	User		Note	
	2006/10/02 05:12	2006/10/02 05:12	admin	New Devices		<b></b>
~~	Y					
4						
Ver						
10						
						<u>-</u>
10						
10						
	I					

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 Select the "Logic variables" tab.

icon. A menu will appear. Select "Creation of logic devices".

lan	ntVisorPRO <sup>®</sup> <sup>®</sup>	min PlantVisorPRO 2006/10/03	10:40:51	21
Globa				
Logic	al device creation			
	Logical devices Logical variables			
è 🗌				
<u>الا</u>			ha an Arman di an dalam ang kalang kanalan di	and the second second second second
a	o create a logical variable enter the description, then ch vailable in the installation.	oose the type, the operation to	be performed and the variables involved i	n such operation from those
	Description		Туре	
🛫 ľ				<u> </u>
				_
	Variable			
	Description Logical Variable			
ŝ.	Type © integer Canalogue C digital		Unit of measure	
	involve the variables for the device I/O Module - 2		operation	
	List of variables		Associated variables	+
	Variable		Variable	Device
	Type of digital input 1			*
	Type of digital input 2			
	Type of digital input 2 Type of digital input 5	3		
	Type of digital input 2	3		<b>T</b>

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: Selectionable 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.

	ntVisorPRO <sup>®</sup> admin PlantVisorPRO 2006,	10/03 10:40:51	2
Glol	bal		
La	gical device creation		
	Logical devices Logical variables		
È.			
<b>F</b>			
	To create a logical variable enter the description, then choose the type, the operat	ion to be performed and the variables involved in such	operation from thos
	available in the installation.		
	Description	Туре	
~			
2			-
			_
C.	- Variable		
e.			-
	Description Logical Variable	Unit of measure	
	Description Logical Variable Type © integer O analogue O digital	Unit of measure	-
	Description Logical Variable Type  integer  analogue  digital involve the variables for the device  I/O Module - 2  .	operation	- 
	Description Logical Variable Type © integer O analogue O digital		
	Description Logical Variable Type I integer C analogue C digital involve the variables for the device I/O Module - 2 I List of variables Variable	operation Associated variables	
	Description Logical Variable Type I integer C analogue C digital involve the variables for the device I/O Module - 2 I List of variables	operation Associated variables	ce
	Description Logical Variable Type © integer C analogue C digital involve the variables for the device I/O Module - 2 List of variables Variable Type of digital input 1	operation Associated variables	ce
	Description Logical Variable Type © integer Canalogue C digital involve the variables for the device I/O Module - 2 List of variables Variable Type of digital input 1 Type of digital input 2	operation Associated variables	ce

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.

Pla	IntVisorPRO <sup>®</sup> admin PlantVisor	PRO 2006/10/03 10:42:52
	lobal	
	Logical device creation	
-	Logical devices Logical variables	
H		
	To create a logical variable enter the description, then choose the type, available in the installation.	the operation to be performed and the variables involved in such operation from those
	Description	Туре
1		×
4		
Ne.		<b>v</b>
A Bel	_ Variable	
	Description Logical Variable	
	Type © integer C analogue C digital	Unit of measure
10	involve the variables for the device I/O Module - 2 💽 List of variables	operation + 💌 Associated variables
	Variable	Variable Device
- 🔫 🕯	Type of digital input 1	
	Type of digital input 2 Type of digital input 5	
	Type of digital input 6	
	Control status in the event of communication alarms	

Finally, select the desired variable from the "variables"

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

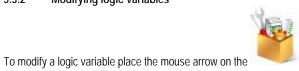
		sorP		min PlantvisorPRO 2	006/10/03 11:18:59			
Glob	Dal							
Lo	gical device crea	tion						
_	Logical device	s Logical va	ariables					
2								
1								_
3	To prosto a log	ical upriable optor th	a decoription than ab	and the type the or	eration to be performed a	ad the uprichles in	aluad in such anarati	on from the
]	available in the		e description, then ch	loose the type, the op	ieration to be performed a	to the variables inv	olved in such operati	on from tho
		Do	scription			Туре		
-75		De	scription			туре		
$\geq$								
								-
								-
								1
								ļ
	_ Variable							Ī
	Variable	Logical Variable						ئے ا
	Description	, -	analogue C dinital			Unit of mea	isure C	
	Description Type	⊙ <sub>integer</sub> C	analogue C digital				, .	
	Description Type	• integer O variables for the devi	ice I/O Module - 2			oper	ation +	
	Description Type	⊙ integer O variables for the devi List of		•	Variabl	oper Associated variabl	ation +	
	Description Type involve the v	€ integer C variables for the devi List of variables present	ice I/O Module - 2 f variables ariable	•	Variabl High value probe 3 (on	oper Associated variabl e	ation + es Device	
	Description Type involve the v Number of High value	integer C variables for the devi List of variables for the devi variables for the devi variables of the device of the device variables of the device of the	ice I/O Module - 2 f variables ariable or models 2/3/4/5)		Variabl High value probe 3 (on models 2/3/4/5)	oper Associated variabl e	ation +	
	Description Type involve the v Number of High value Low value p	€ integer C variables for the devi List of v probes present probe 3 (only valid fo probe 3 (only valid fo	ice I/O Module - 2 f variables ariable or models 2/3/4/5) or models 2/3/4/5)	•	High value probe 3 (on	oper Associated variabl e	ation + es Device	
	Description Type involve the v Number of High value Low value p High value	integer C variables for the devi List of variables for the devi variables for the devi variables of the device of the device variables of the device of the	ice I/O Module - 2 f variables ariable or models 2/3/4/5) or models 2/3/4/5) or models 2/3/4/5)		High value probe 3 (on	oper Associated variabl e	ation + es Device	

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

Select the "Logic variables" tab.



icon. A menu will appear. Select "Creation of logic devices".

ogical device creation				
Logical devices	Logical variables			
To create a logical v	ariable enter the description, then choose the type, th	the operation to be performed (	and the variables involved in	such operation f
available in the insta	illation.			
	Descute Mar		<b>T</b>	
	Description		Туре	
Logical Variable	Description	integer	туре	
Logical Variable	Description	integer	Туре	
Logical Variable		integer	Туре	
	Vescription	integer	Туре	
_ Variable		integer	Туре	
Variable Description		integer		
Variable Description T Type C	integer Canalogue Cidigital	integer	Unit of measure	
Variable Description T Type C		integer		+

Double click on the variable to be modified.

ntVisorPRO <sup>®</sup> admin Plantv		
bal		
ogical device creation		
Logical devices Logical variables		
To create a logical variable enter the description, then choose the type	the operation to be performed an	d the variables involved in such operation fr
available in the installation.		
Description		Туре
Logical Variable	analogue	
Variable Description Logical Variable Type C integer ⓒ analogue C digital		Unit of measure
Description Logical Variable Type C integer © analogue C digital involve the variables for the device		operation +
Description Logical Variable Type C integer C analogue C digital involve the variables for the device List of variables		operation + Associated variables
Description Logical Variable Type C integer © analogue C digital involve the variables for the device	✓ Variabl High value probe 3 (onl models 2/3/4/5)	operation + Associated variables
Description Logical Variable Type C integer C analogue C digital involve the variables for the device List of variables	Variabl	operation + Associated variables e Device y valid for I/O Module - 2

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 Select the "Logic variables" tab.

antVisorPRO <sup>®</sup> admin PlantViso			
Global			
Logical device creation			
Logical devices Logical variables			
To create a logical variable enter the description, then choose the type available in the installation.	e, the operation to be pe	erformed and the variables involved i	n such operation from
Description		Туре	
Logical Variable	analogue		
Variable			
Variable			
		Unit of measure	C V
Description		Unit of measure operation	C <b>y</b>
Description Type C integer C analogue C digital			C v
Description Type C integer C analogue C digital involve the variables for the device		operation	C V + V Device
Description Type C integer C analogue C digital involve the variables for the device List of variables		operation Associated variables	+
Description Type C integer C analogue C digital involve the variables for the device List of variables		operation Associated variables	+ v
Description Type C integer C analogue C digital involve the variables for the device List of variables		operation Associated variables	+ v
Description Type C integer C analogue C digital involve the variables for the device List of variables		operation Associated variables	+ v

Select the variable to be deleted from the list.

By clicking on **b** 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 A menu will appear. Select "Creation of logic devices".

Pla	antVise	<b>orPRO</b> ®	admin PlantVis	orPRO 2006/10/	/05 13:26:30		2 6
	lobal						
	Logical device creation						
	Logical devices	Logical variables					
문							+ = v
H.							
	To create a logical dev	rice enter the description and th	nen import at lea	ast one variable (	(physical or logical)	from those available in the inst	allation.
		Description				# Variables	
	y -						<u> </u>
<u> </u>							
							<b>V</b>
A.	Device						
	Description						
Nov	Import variables	C physical type	C integer	C analogue	from device		
10		C logical List of variables	digital	alarm		Associated variables	
		Variable				Variable	Туре
				-			-

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 **W** to save the settings.

#### 5.4.2 Modifying logic devices



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

	orpro	Restart eng	jine in 'Syst	em page'		_
Logical device creation						
Logical devices	Logical variables					
						E
To create a logical dev	ice enter the description and th	nen import at least	t one variable (p	hysical or logical)	from those available in the i	nstallation.
	Description				# Variables	
Logical Devices					2	
Logical Devices					2	
Logical Devices					2	
Logical Devices					2	
					2	
Device					2	
Device	ical Devices				2	
Device	C physical type	-	C analogue	from device	2	
Device Description Log	C physical type C logical	-	Ĉ analogue Ĉ alarm	from device	<u>v</u>	
Device Description Log	C physical type C logical List of variables	-	-	from device	Associated variables	
Device Description Log	C physical type C logical	-	Calarm		<u>v</u>	Туре
Device Description Log	C physical type C logical List of variables	-	Calarm	of digital input 6	Associated variables	integer
Device Description Log	C physical type C logical List of variables	-	Calarm		Associated variables	

Modify the fields as described in the previous chapter.

By clicking on where the settings will be saved.

5.4.3 Deleting logic devices



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

lant	<b>/isorPRO</b> °
Global	

	Logical device creation					
	Logical devices	Logical variables				
흔						🛨 🗖 🔽
H						
	To create a logical de	vice enter the description and	d then import at least one va	riable (physical or logical)	) from those available in the insta	llation.
		Description			# Variables	
	Logical Devices				2	<u> </u>
E L						
						<b>_</b>
V.	Device					
	Description					
No. 5	Import variables	C physical type	C integer C analo C digital C alarn		·····	
10		logical List of variables	👻 digital 👘 alarn	1	Associated variables	
		Variable			Variable	Туре
			<u> </u>			<u> </u>
قالي ا			×			
	_		<u>_</u>			<b>_</b>
	<u>_</u>		<u> </u>			
By clicking	g on 🔛 the select	ed device is deleted.				

admin PlantVisorPRO 2006/10/05 13:28:42

#### 5.5 Device management

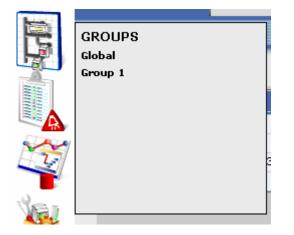
5.5.1 Visualisation of the list of devices

	Main		Parameters	Alarms	HACCP graph	Log grap	h Conf G	iraph	Notes
ļ	Devices								
	Status		Description		¥ariable	1	¥ariab	ole2	
	۲	IR 33 - C -	1		Probe 2 value	*** °C/°F	Virtual probe	*** °C/°F	
y	۲	I/O Module	9 - 2		Probe 1	*** °C/°F	Probe 2	*** °C/°F	Probe
	۲	uRack (MR	К) - З		Probe B2	*** °C/°F	Probe B3	*** °C/°F	Probe
	٢	Logical De	vices						
	•					1			
,	Alarms								
		e Time	Device	D	escription	Ack	Area	Group	
	2006/10/0	4 10:14:12	I/O Module - 2	No connection					
		4 10:14:12	IR 33 - C - 1	no connection					
		4 10:14:12	uRack (MRK) - 3	No connection		+			



This page is accessed on entry tot he system or by clicking on the Groups icon

in the lateral menu and selecting the "Global" item.



#### 5.5.2 Visualisation of a specific device

Global									
	Main		Parameters	Alarms	HACCP graph	Log grap	h Cor	nf Graph	Notes
D									
	vices <sub>Status</sub>		Description		Variable	1	Var	riable2	
	0	IR 33 - C - 1		Probe 2 value		Virtual probe *** °C/°F			
	ŏ	I/O Module			Probe 1	*** °C/°F	Probe 2	*** °C/°F	
7 –	ŏ	uRack (MRI			Probe B2	*** °C/°F	Probe B3		
1	0	MasterCase	,		Ambient probe (S1)	*** °C	Defrost probe (S	efrost probe (S2) *** °C	
	0	MasterCase	e - 5		Ambient probe (S1)	*** °C	Defrost probe (S	;2) *** °C	Superhe
	۲	Logical Dev	/ices						
•									•
Ala	arms								
		Time	Device		)escription	Ack	Area	Group	
		5 14:45:41	I/O Module - 2	No connection				Group 1	
		5 14:45:41	IR 33 - C - 1	no connection					
r <u>20</u>	06/10/05	5 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.

<u>Global</u> > device detail Main	Parameters	Alarms HACCP graph	Log graph		Graph conf.
MasterCase - 4 💌					
Master	Case - 4				
*** [°(	2]	Description	Code	¥alue	
Ambient probe (S	S1) Day of the last HACCP	alarm [day]	tO	***	
*** [°(	] Evap. satured tempera	Evap. satured temperature [°C]			Total State and
Superheat	HACCP alarm duration	HACCP alarm duration [Hours]			- 20 C
*** [%	6] Hour of the last HACCP	Hour of the last HACCP alarm [Hours]			5-75 80
Valve opening per	rc Max temp sensored du	Max temp sensored during HACCP alarm [°C]			
	Minute of the last HACC		tM	***	
	On/off status of the ins	trument	On/Off	***	
	Regulation temperature			***	
	Superheat Temperatur	e Sensor [°C]	Po3	***	<b>•</b>
Read/Write	variables table				
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

			RO° °		n page'		
bal							
: lobal > device	detail						
Main		Parameter	's Ala	rms HACCP graph	Log graph	Graph conf.	No
MasterCase -	4 📕		•	I	1	I	0
		_					
11 A. A.							
			serial communica	tion.			
Master(	Case - 4						
¥alue	New	U.M.	Code		Description		
2							
				general			
***				general Enabling output manual manag	ement		
***			Alarm	-	ement		
			Alarm Aux1	Enabling output manual manag	ement		
***				Enabling output manual manag Alarm relay	ement		
***			Aux1	Enabling output manual manag Alarm relay Aux1 relay	ement		
*** *** ***			Aux1 Aux2	Enabling output manual manag Alarm relay Aux1 relay Aux2 relay	ement		
*** *** ***			Aux1 Aux2 Comp	Enabling output manual manag Alarm relay Aux1 relay Aux2 relay Compressor relay	ement		
*** *** *** ***			Aux1 Aux2 Comp Def	Enabling output manual manag Alarm relay Aux1 relay Aux2 relay Compressor relay Defrost relay	ement		
*** *** *** *** ***			Aux1 Aux2 Comp Def Fan	Enabling output manual manag Alarm relay Aux1 relay Aux2 relay Compressor relay Defrost relay Fan relay			
*** *** *** *** *** ***			Aux1 Aux2 Comp Def Fan	Enabling output manual manag Alarm relay Aux1 relay Aux2 relay Compressor relay Defrost relay Fan relay Light relay	guration		
*** *** *** *** *** ***		•C	Aux1 Aux2 Comp Def Fan Light	Enabling output manual manag Alarm relay Aux1 relay Aux2 relay Compressor relay Defrost relay Fan relay Light relay Alarm and digital inputs confid	guration		

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

bal									
lobal > device	e detail								
Main		Paramete	ers Ala	rms	HACCP graph	Log graph	Graph conf.	Not	
MasterCase -	-4 🔽			I				10 🕅	
masteroase	·	_							
List of para	meters that	can be set vi	a serial communica	tion.					
Master	Case - 4	1							
Value         New         U.M.         Code         Description									
***			A2	Digital input configuration DI 2					
***			A3	Digital input	Digital input configuration DI 3				
***			A4	Digital input	configuration DI 4				
4.4.4.			A5	Digital input configuration DI 5					
***			AD		Alarm delay from digital input				
		min	A5 A7	Alarm delay	-				
***		min			-	1			
***		min °C	A7	Virtual digita	from digital input I input configuration	n nax variation from the :	set-point		
***	10		A7 A8	Virtual digital High temp al	from digital input I input configuration arm:indicates the n				
***	10	•C	A7 A8 AH	Virtual digital High temp al	from digital input I input configuration arm:indicates the m arm:indicates the m	nax variation from the			
***	10	°C °C	A7 A8 AH AL	Virtual digital High temp al Low temp ala Temperature	from digital input I input configuration arm:indicates the m arm:indicates the m	nax variation from the s nax variation from the s			
*** *** *** *** ***	10	°C °C	A7 A8 AH AL Ad	Virtual digital High temp al Low temp ala Temperature Enable Slave	from digital input I input configuration arm:indicates the n arm:indicates the m alarm delay	nax variation from the s nax variation from the s nal on Master			
*** *** *** *** *** ***	10	°C °C	A7 A8 AH AL Ad	Virtual digital High temp al Low temp ala Temperature Enable Slave	from digital input I input configuration arm:indicates the n arm:indicates the m alarm delay remote alarm sign	nax variation from the s nax variation from the s nal on Master			

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:

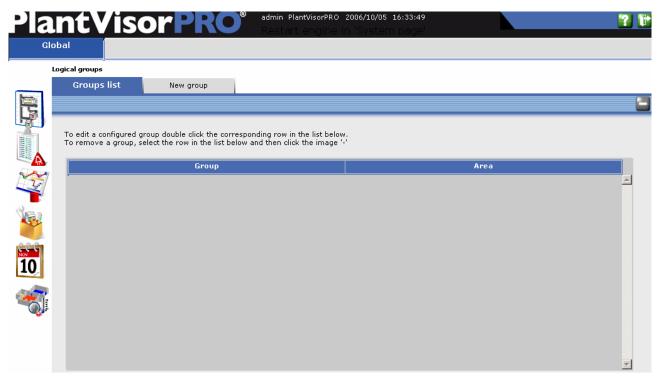
- A set of devices that have the same features (E.g.: they are all IRmpx)
- A set of devices with the same type of preserved product (e.g.: "dairy product counter", "fruit and vegetables", "frozen food islands")

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.



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

Clobal         togical groups         Groups list       New group         To add a new group, type the description then associate it with at least one device from those available.       Language       Description         Description       Language       Description       English       Associated devices         Default       Available devices list       Associated devices       Associated devices         Multilanguage       Multilanguage       Description       English         Multilanguage       Multilanguage       Description       English         Multilanguage       Multilanguage       Description       English         Multilanguage       Multilanguage       Description       English         Multilanguage       Multilanguage       Multilanguage       Multilanguage         Multilanguage			9 16:34:37 👔 👔 👔
To add a new group, type the description then associate it with at least one device from those available.         Description         Default         description(Italiano)         *         Multilanguage         description(Italiano)         *         Multilanguage         description(Italiano)         *         Multilanguage         description(Italiano)         *         MasterCase - 4         MasterCase - 5         URack (MRK) - 3	G	Logical groups	
Devices     Image: Contract of the second devices list     Available devices list     Associated devices     If 33 - C - 1     MasterCase - 4     MasterCase - 5     uRack (MRK) - 3     Image: Case - 5			hose available.
Devices       Available devices list       Associated devices         I/O Module - 2       I/O Module - 2       I/O Module - 2         I/O MasterCase - 4       MasterCase - 4       I/O MasterCase - 5         URack (MRK) - 3       Image: Case - 5       Image: Case - 5		Default Multilangua escription(Italiano)	ge English
	10 10	Devices Available devices list I/O Module - 2 IR 33 - C - 1 MasterCase - 4 MasterCase - 5	Associated devices
			×

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"

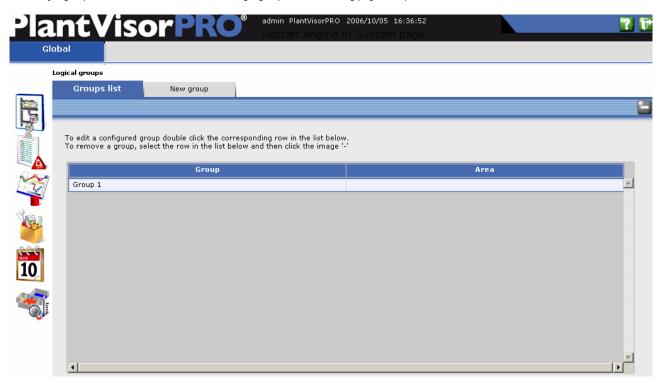
Plant	VISORPRO <sup>®</sup> admin PlantVisorPRO 2006/10/05 16:35:46 Restart engine in 'System page'	? 6
Global		
Logical group		
5	ips list New group	V
	a new group, type the description then associate it with at least one device from those available.	
De de	efault escription(Italiano) Group 1 * Multilanguage descriptions descriptions	
	evices	
	evices Available devices list Associated devices	
	MasterCase - 4 MasterCase - 5	
		Þ
		Þ

Click on to save the settings.

#### 5.6.2 Modifying a group



and select "Logic groups". The following page will open.



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

Pla	int	Viso	rPRO	admin PlantVi Restart er	isorPRO 2006/10, ngine in 'Syst					? 🖿
	lobal									
		<u>os</u> > edit group								
2	Group	detail	Group variables	Notes						
	De	escription ———								
		efault escription(Italiano)	Group 1		* Multilang descripti		Language English	Group 1	Description	<u>*</u>
4										
Ve		vices ———				_				
10		MasterCase - 4 MasterCase - 5	Available dev	ces list		I/O Module - IR 33 - C - 1 uRack (MRK)	2	ociated devid	ces	
-										
		1			r b	<u>د</u>				¥

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

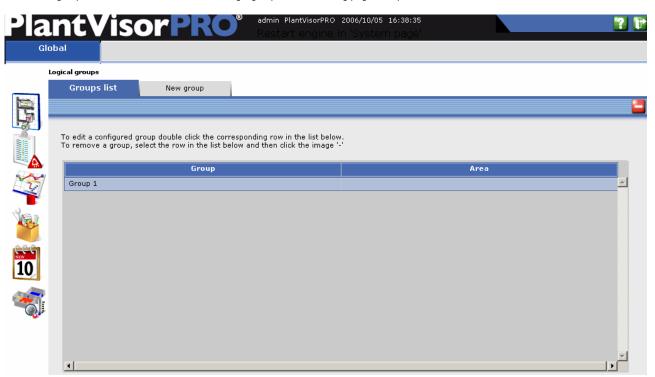
Using the Data and Level keys it is also possible to introduce or delete devices from this group.

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

#### 5.6.3 Deleting a group



and select "Logic groups". The following page will open.



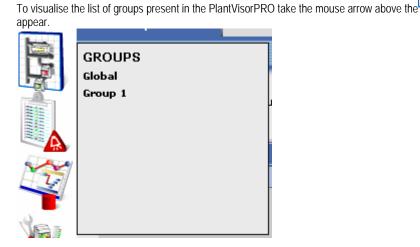
Select the row that identifies the group to be deleted in the list of groups and then click on



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



icon and the list of groups present will



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

Main     Parame       Devices     IR 33 - C - 1       Image: Status     Image: Status       Image: Image: Image: Status     Image: Status       Image: Image: Image: Image: Image: Status     Image: Status       Image: Im	oters Alarms	HACCP graph Varial Probe 2 value Probe 1			nf Graph riable2	Notes
Devices Status IR 33 - C - 1 I/O Module - 2 URack (MRK) - 3	Description	Probe 2 value			riable2	
Devices Status IR 33 - C - 1 I/O Module - 2 URack (MRK) - 3	Description	Probe 2 value			riable2	
Status           IR 33 - C - 1           I/O Module - 2	Description	Probe 2 value			riable2	
Status           IR         33 - C - 1           I/O         I/O Module - 2           I/O         uRack (MRK) - 3	Description	Probe 2 value			riable2	1
<ul> <li>IR 33 - C - 1</li> <li>I/O Module - 2</li> <li>uRack (MRK) - 3</li> </ul>			*** °C/º			
I/O Module - 2 URack (MRK) - 3		Probe 1		F   Virtual probe	*** °C/°F	
uRack (MRK) - 3		FIODE I	*** °C/°	F Probe 2	*** °C/°F	Probe 3
		Probe B2	*** °C/°	F Probe B3	*** °C/°F	Probe B
•						
Alarms	Device	Description	Ack	Area	Crown	
			ALK	Агеа		
	idule - 2 No conni				Group 1 Group 1	
2006/10/05 14:45:41 IR 33 -	C - 1 no conne					
2006/10/05 14:45:41 I/O Mo	dule - 2 No conne		АСК	Агеа	Group 1	

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

#### 5.7 Areas

The areas a re 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



and select "Logic areas". The following page will open.

Pla	ntVis	orPRC	admin PlantVisorPRO 200 Restart engine in '			? 🖿
	lobal					
	Logical areas					
	Areas list	New area				
흔						
H						
	To edit a configured a To remove an area, s	area double click the corre elect the row in the list b	esponding row in the list below. elow and then click the image '-'			
~~	Ar	ea	Associated groups	Asso	ciated devices	
Ve.						
10						
10						
						<b>V</b>

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

Pla	IntVi	sorPRC	admin PlantVisori Restart engli				2 🖿
G	lobal						
	Logical a <del>r</del> ea <del>s</del>						
here.	Areas list	New area					
5							<b>⊻</b>
	To add a new are	a, type the description then a	ssociate at least one devic	e or one group	from those available.		<u> </u>
	Description						
					Language	Description	
4	Default description	(Italiano) *		Multilanguage descriptions	English		<u> </u>
Vei							
10	Groups						
10			groups list		Asso	ciated groups	_
-		Group 1		- ₽			
		1					<b>▼</b>
	Devices	Available (	levices list		Assor	iated devices	
		1asterCase - 4					
		4asterCase - 5					<b>v</b>
		1	1				

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.

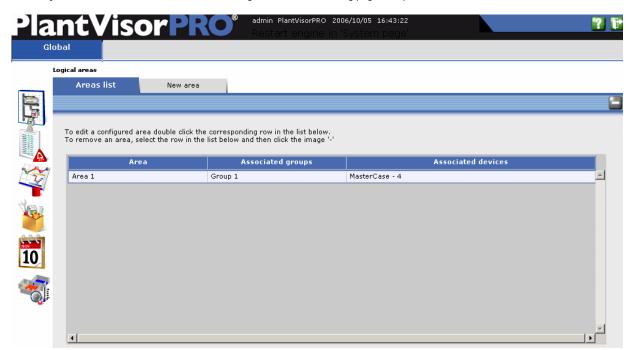
lobal					
Logical are	as				
Are	eas list	New area			
To add	a new area, type '	the description then associate at	least one device or one group from	those available.	
	Description				
	Default	Area 1	Multilanguage	Language Descri	otion
	description(Italian)	o) *	descriptions	English Area 1	
				•	
	Groups				
		Available groups lis		Associated groups	
			🔺 💽 Group	1	
	Devices				
	MasterC	Available devices lis		Associated devices	
	MasterC	.ase - 5	📥 💽 Master	Case - 4	-

Click on **built** to save the settings.

#### 5.7.2 Modifying an area



and select "Logic areas". The following page will open.



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

	ntVisorP	RO <sup>®</sup> admin PlantV Restart e	isorPRO 2006/10/05 16:43 ngine in 'System pag		21
	obal Logical areas > edit area				
	Area detail Not	es			5
	Both the description of the area an	d the lists of devices and/or group	os associated can be changed	1.	
		rea 1	Multilanguage descriptions	Language De English Area 1	escription
	Groups	ilable groups list		Associated group	
10			Group 1	Associated group	
	Devices	ilable devices list		Associated device	5
	MasterCase - 5		MasterCa	se - 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 a	irea				
Pla	e an area click o Internet of the second sec	sor	nd select "Logic areas". The follo admin PlantvisorPRO Restart engine	wing page will open. 2006/10/05 16:44:37 In 'System page'		? 0
	Logical areas					
	Areas list	New a	rea			
						-
	To edit a config	ured area double cli	ck the corresponding row in the list below			
	To remove an a	area, select the row i	ck the corresponding row in the list below n the list below and then click the image	ė.		
		Area	Associated groups		Associated devices	
	Area 1		Group 1	MasterCase - 4		<u> </u>
A.						
10						
IV						
- <b>1</b>						
	•					

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:

Global				List of the	Areas				
l l	Main		Parameters	Alarms	HACCP graph	Log gra	ph	Conf Graph	Notes
D									
	vices tatus		Descript	ion	Variable	1		Variable2	
	0	IR 33 - C -	1		Probe 2 value	*** °C/º	· Virtual p	robe *** °(	2/°E
	0	I/O Module	-		Probe 1	*** °C/°			C/°F Probe
	•	uRack (MR	к) - 3		Probe B2	*** °C/°I	Probe B		
	0	MasterCas	e - 4		Ambient probe (S1)	*** °C	Defrost	orobe (S2) ***	°C Supert
	۲	MasterCas	e - 5		Ambient probe (S1)	*** °C	Defrost	orobe (S2) ***	°C Super
	•	Logical Dev	vices						
•									
Ala	rms Date	Time	Device		escription	Ack	Are	a Grou	ID I
200	6/10/05	14:45:41	I/O Module - 2	No connection	1	A	rea 1	Group 1	
		14:45:41	IR 33 - C - 1	no connection			rea 1	Group 1	
200	06/10/05	14:45:41	uRack (MRK) - 3	No connection	<u>ו</u>	A	rea 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:

		or PR(	Kestart	engine in 'Syste	m page			
Glo	bal Are	eal						
<u>G</u>	obal > device detail							
_	Main	Parameters	Alarms	HACCP graph	Log graph	Graph conf.	Notes	
	vlasterCase - 4				·			(
<b>7</b>			_					1
	MasterCase - 4							
	Click on option button H	IACCP/Log to config	ure features of that ty	pe of graph, then save	the changes.			
	Graph ☉ HACCP ℃ L	.og						
Ĩ	⊢Variable configuration							
	variable configarado	n						
	Device List	n MasterCase -	4 🔽					
		MasterCase -	4 💌		High range	Color		
	Device List	MasterCase - Variable	4 💌	Low range	High range	Color	<b>.</b>	
	Device List	MasterCase - Variable anual management	4 💌	Low range	High range	Color		
	Device List	MasterCase - Variable anual management ature	4 💌	Low range	High range			
	Device List Enabling output ma Regulation tempera	MasterCase - Variable anual management ature uration DI 2	4	Low range	High range	Color Color Color		
	Device List Enabling output ma Regulation tempera Digital input configu	MasterCase - Variable anual management ature uration DI 2	4	Low range	High range	Color Color Color	× •	
	Device List Enabling output ma Regulation tempera Digital input configu Digital input configu Graph configuration	MasterCase - Variable anual management ature uration DI 2 uration DI 5			_		× •	
	Device List Enabling output ma Regulation tempera Digital input configu Digital input configu Graph configuration – ViewFinder	MasterCase - Variable anual management ature uration DI 2 uration DI 5	4 V	Low range	_	Color Color Color reground color	× 	
	Device List Enabling output ma Regulation tempera Digital input configu Digital input configu Graph configuration – ViewFinder ViewFinder ViewFinder	MasterCase - Variable anual management ature uration DI 2 uration DI 5	er background color		_			
	Device List Enabling output ma Regulation tempera Digital input configu Digital input configu Graph configuration – ViewFinder	MasterCase - Variable anual management ature uration DI 2 uration DI 5 ViewFinde	er background 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

	orpr					
al	Area 1					
bal > device detail						
Main	Parameters	Alarms	HACCP graph	Log graph	Graph conf.	Not
asterCase - 4			1	1		
MasterCase -	- 4					
		gure features of that ty	ne of graph then cay	ve the changes		
	-	gure reatures of that ty	pe or graph, then sav	ve the changes.		
Graph 🖲 HACCP	O Log					
⊤Variable configura						
variable configura	ation					
Device List		1 -				
-	MasterCase - 4					
-			Low range	High range	Color	
Device List	MasterCase - 4		Low range	High range	Color	
Device List	MasterCase - 4 Variable manual management		Low range	High range		-
Device List Enabling output r	MasterCase - 4 Variable manual management erature		Low range	High range		
Device List Enabling output r Regulation temp Digital input conf	MasterCase - 4 Variable manual management erature figuration DI 2		Low range	High range		-
Device List Enabling output r Regulation temp	MasterCase - 4 Variable manual management erature figuration DI 2		Low range	High range		•
Device List Enabling output r Regulation tempe Digital input conf	MasterCase - 4 Variable manual management erature figuration DI 2 figuration DI 5		Low range	High range		
Device List Enabling output r Regulation tempe Digital input conf Cipital input conf	MasterCase - 4 Variable manual management erature figuration DI 2 figuration DI 5		Low range	High range		×
Device List Enabling output r Regulation tempe Digital input conf Digital input conf Graph configuration	MasterCase - 4 Variable manual management erature figuration DI 2 figuration DI 5 on ViewFind		Low range			
Device List Enabling output r Regulation temp Digital input conf Digital input conf Graph configuration ViewFinder ViewFinder Horizontal grid	MasterCase - 4 Variable manual management erature figuration DI 2 figuration DI 5 on ViewFind	er background color	Low range			
Device List Enabling output r Regulation tempe Digital input conf Digital input conf Graph configuration	MasterCase - 4 Variable manual management erature figuration DI 2 figuration DI 5 on ViewFind	er background color	Low range			

- 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 **bud** 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

licon from the menu and select "Alarms". The following page will appear:

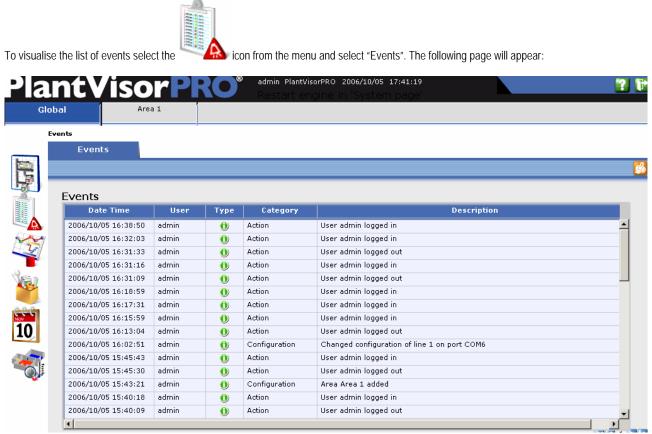
Area 1       Active alarms       Active alarms       List of all recorded active alarms.       Date Time     Device     Description     Ack     Area     Group       2006/10/05 14/45:41     J/O Module - 2     No connection     Area 1     Group 1	Ack Area Group I
Active alarms     Reset alarms       List of all recorded active alarms.     Date Time       Date Time     Device       Description     Ack       Area     Group	Ack Area Group 1
List of all recorded active alarms.           Date Time         Device         Description         Ack         Area         Group	Ack Area Group 1
Date Time Device Description Ack Area Group	Ack Area Group I
Date Time Device Description Ack Area Group	Ack Area Group (
	Ack Area Group I
	Ack Area Group
2006/10/05 14:45:41 U/O Module - 2 No connection Area 1 Group 1	
	Area 1 Group 1
	Area 1 Group 1
2006/10/05 14:45:41 URack (MRK) - 3 No connection Area 1 Group 1	
2006/10/05	

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

rms						
Active alarms	Reset alarms					
i						
List of all recorded reset						
List of all recorded reset	didfills.					
From	То	Duration	Device	Description	Area	Group
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
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
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
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
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
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
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
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
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
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
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
	2006/10/02 14:00:05	2gg 20h 51m 42s	uRack (MRK) - 3	No connection	Area 1	Group 1
2006/09/29 17:08:22		2gg 20h 51m 42s	I/O Module - 2	No connection	Area 1	Group 1
2006/09/29 17:08:22 2006/09/29 17:08:22	2006/10/02 14:00:05					
	2006/10/02 14:00:05 2006/09/29 16:10:45	Ogg Oh 4m Os	IR 33 - C - 1	no connection	Area 1	Group 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.



# 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"



The following page will appear:

Pla	intV	<b>isc</b>	<b>pr</b> PRC	edmin PlantVisor Restart engi	PRO 2006/10/05 18:31:9 ne in 'System pag			? [
GI	obal	Ar	rea 1					
	I/O configurati	on						
	Fax		SMS	E-mail	RAS	Window	Relay	
F				·				
		both the nu		nter the details of possible e performed after the failur			tempt and the next can b	e set.
					Switchboard:			
	Modern				Switchboard:			
	Number	of attempts	;: 0					
Ve.	Try aga	in after:	0 minutes					
NOV	Address	book ——						
10	Refere	nce:			Referen	ice	Address	
	Numbe	er:						<u> </u>
Ţ								Ţ

### 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:

Pla	antV	<b>isor</b>	RO <sup>®</sup> adm	in PlantVisorPf start engin	e in 'System pag	53 e'		? 🖿
G	lobal	Area 1						
	ı I/O configurati	n						
	Fax	SMS	E-	mail	RAS	Window	Relay	
Ş								
		odem used to send FAXE both the number of atten				book. the delay between one at	tempt and the next can t	be set.
	Configur	ation						
Ĩ	Modem:			-	<ul> <li>Switchboard:</li> </ul>			
	Number	of attempts: 0						
Ve.	Try aga	n after: 0 mi	nutes					
cee	Address	book						
10	Refere	nce:			Referen	ice	Address	
	Numbe			_				<b>A</b>
~				X				T

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 modern telephone line passes through a switchboard, must b 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.

I/O configuration						
Fax		SMS	E-mail	RAS	Window	Relay
Select the mod In addition, bot Configuratio Modem: Number of	em used to send	FAXES and enter t attempts to be per	the details of possible r formed after the failur	ecipients in the addr a of the first attempt	ess book. and the delay between on	attempt and the next can I
Configuratio	n					•
Modem: Number of	,	SoftV92 Data Fax	Modem with SmartCP	Switchboard:	0	
Try again a	ter: 10	minutes				
Address boo	k					
Reference Number:	reference Fax			Ref	erence	Address
	12040070345		X			

Global		Area 1					
I/O conf	figuration						
	Fax	SMS	E-mail	RAS	Window	Relay	
			nd enter the details of possible to be performed after the failu			tempt and the next ca	an be set.
-c	onfiguration —						
	lodem:	PCI SoftV92	Data Fax Modern with SmartCF	Switchboard: 0			
	Jumber of attem	, 					
Т	'ry again after:	10 minut	es				
	ddress book —						
				Referenc		Address	
	Reference:			reference Fax	1234567		
2	Number:		×	Telefence rax	1234307	0945	

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.

0 configuration									
Fax		SMS		E-mail	RAS		Window	Re	elay
Select the modem u	ised to send	FAXES and	enter the de	etails of possible	recipients in the add ure of the first attemp	iress book. It and the dela	ur hetween one	attempt and th	he nevt can
Configuration —							, between one		
Modem:	PCI	I SoftV92 Da	ita Fax Mode	em with SmartCl	P 🗾 Switchboard	: 0			
Number of atter	npts: 10								
Try again after:	10	minutes							
Address book —					_				
Reference: F						ference	12245	Addre	55
Number: 1	2345678945				reference Fax		12345	678945	
n <b>tV</b> is	or	PR	<b>0</b> ° (	admin PlantVisc	ipro 2006/10/05 : line in 'System	18:36:39 page'			
<b>ntVis</b>	Area 1	PR	<b>0</b> ° (	admin PlantVisc Restart eng	rPRO 2006/10/05 : line in 'System	18:36:39 page'			_
ntVis		SMS	<b>)</b> ®	admin PlantVisc Restart enc E-mail	rPRO 2006/10/05 : Jine in 'System RAS	L8:36:39 page'	Window	R	elay
ntVis			•	Restart eng	ine in 'System	18:36:39 page'	Window	R	elay
ntVis			<b>)</b> ®	Restart eng	ine in 'System	18:36:39 Dage'	Window	R	elay
o configuration Fax	Area 1	SMS	enter the di	Restart end E-mail	ine in 'System	page'			
o configuration Fax	Area 1	SMS	enter the di	Restart end E-mail	RAS	page'			
o configuration Fax Select the modem i In addition, both th	Area 1	SMS FAXES and attempts to	enter the dube perform	Restart end E-mail	RAS RAS e recipients in the add ure of the first attemp	page'			
o configuration Fax Select the modern the In addition, both the Configuration	Area 1 used to send number of PC.	SMS FAXES and attempts to	enter the dube perform	E-mail E-mail etails of possible ed after the failu	RAS RAS e recipients in the add ure of the first attemp	page'			
Configuration Select the modern of In addition, both th Configuration	Area 1 used to sence e number of PC npts: 10	SMS FAXES and attempts to	enter the dube perform	E-mail E-mail etails of possible ed after the failu	RAS RAS e recipients in the add ure of the first attemp	page'			
Configuration Fax Select the modern of In addition, both th Configuration Modern: Number of atter Try again afters	Area 1 used to sence e number of PC npts: 10	SMS FAXES and attempts to I SoftV92 Da	enter the dube perform	E-mail E-mail etails of possible ed after the failu	RAS RAS e recipients in the add ure of the first attemp	page'			
Select the modern of In addition, both th Configuration Modern: Number of attern Try again afters	Area 1 used to sence e number of PC npts: 10	SMS FAXES and attempts to I SoftV92 Da	enter the dube perform	E-mail E-mail etails of possible ed after the fail em with SmartC	RAS RAS e recipients in the add ure of the first attemp P  Switchboard	page' dress book. pt and the dela d: 0		e attempt and t	the next can
Select the modern of In addition, both th Configuration Modern: Number of atter Try again after: Address book Reference:	Area 1 used to sence e number of PC npts: 10	SMS FAXES and attempts to I SoftV92 Da	enter the dube perform	E-mail E-mail etails of possible ed after the failu	RAS RAS e recipients in the add ure of the first attemp P  Switchboard	page'	ay between one	e attempt and t	the next can
Select the modern of In addition, both th Configuration Modern: Number of attern Try again afters	Area 1 used to sence e number of PC npts: 10	SMS FAXES and attempts to I SoftV92 Da	enter the dube perform	E-mail E-mail etails of possible ed after the fail em with SmartC	RAS RAS e recipients in the add ure of the first attemp P  Switchboard	page' dress book. pt and the dela d: 0	ay between one	e attempt and t	the next can
Select the modern of In addition, both th Configuration Modern: Number of atter Try again after: Address book Reference:	Area 1 used to sence e number of PC npts: 10	SMS FAXES and attempts to I SoftV92 Da	enter the dube perform	E-mail etails of possible ed after the failu em with SmartC	RAS RAS e recipients in the add ure of the first attemp P  Switchboard	page' dress book. pt and the dela d: 0	ay between one	e attempt and t	the next can
Select the modern of In addition, both th Configuration Modern: Number of atter Try again after: Address book Reference:	Area 1 used to sence e number of PC npts: 10	SMS FAXES and attempts to I SoftV92 Da	enter the dube perform	E-mail etails of possible ed after the failu em with SmartC	RAS RAS e recipients in the add ure of the first attemp P  Switchboard	page' dress book. pt and the dela d: 0	ay between one	e attempt and t	the next can

#### 8.2 Setting the modem to send SMS

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

Pla	IntV	<b>isorPR</b>	admin PlantVisori Restart engi	PRO 2006/10/06 10:06: ne in 'System pag			? 🖿
Gl	obal	Area 1					
	1/0 configuration						
	Fax	SMS	E-mail	RAS	Window	Relay	
H		dem used to send SMS message					
	In addition, bo	oth the number of attempts to be	performed after the failur	re of the first attempt and	the delay between one at	ttempt and the next can b	e set.
1	Modem:		····· <b>•</b>	Switchboard:			
	Туре:	€ Analogico C GSM		Number of atte	mpts: 0		
V.	Provider		•	Try again after			
	Call:	Nazionale					
10	Address b	ook					
IV	Referenc	ne:		Refere	nce	Address	
<b>1</b>	Number:	1					
		r	X				

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"

Global	Area 1	PRO		ne in 'System page			
I/O configu	uration	<u></u>					
	Fax	SMS	E-mail	RAS	Window	Relay	
							-
Select t	he SMTP server, the se	nder and the type	e of connection used to se	end E-MAIL messages and	enter the details of poss	ible recipients in the add	ress bo
Cor	nfiguration						
	-						
SI	MTP:		*	Connection:			
S	ender:		*	Provider:			
N	umber of attempts:	0					
Ti	ry again after:	0 minu	ites				
	Iress book						
— Add							
				Referen	ce	Address	
Re	eference:						1
Re	eference: ddress:						
R			X				

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

configuration					
Fax	SMS	E-mail	RAS	Window	Relay
elect the SMTP server, the	sender and the typ	e of connection used to	send E-MAIL messages and	d enter the details of pos:	sible recipients in the ad
Configuration					
SMTP:	192.168.0.	30 *	Connection:		
Sender:		ndustry.com *	Provider:		
	jindasa yoon	luustry.com	Flovider.	J	<u> </u>
Number of attempts:	0				
Try again after:	0 min	utes			
Address book					
Reference: help e-m	ail		Refere	nce	Address
	⊇industry.com				
		×			

## Click on

The address book will be updated.

<b>2</b> ]a	ntViso	orPRO	admin PlantVisorPF Restart engin	<mark>RO 2006/10/06 10:26:3</mark> e in 'System page			? 🕻
		Area 1					
	I/O configuration						
	Fax	SMS	E-mail	RAS	Window	Relay	
Ē,							<u> </u>
	Select the SMTP serve	er, the sender and the typ	e of connection used to ser	nd E-MAIL messages and	enter the details of possil	ble recipients in the ad	dress book.
	SMTP:	192.168.0.	30 *	Connection:			
	Sender:	industry@ir	ndustry.com *	Provider:		·····	
	Number of atten	npts: 0					
	Try again after:	0 min	utes				
10							
10	Address book —						
	Reference:			Referen		Address	
	Address:			help e-mail	helpmail	@industry.com	
							T

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.

/O configuration										
Fax		SMS	E-n	nail	RAS		Window		Relay	
Select the SMT	P cerver the	ender and the	e type of connecti	on used to se	nd E-MAIL messages	and ent	er the details	of possible	recipients in th	e addre
Select the Shiri	r server, ure :		e type of connect		nu E-MAIL Messages			or possible	recipients in th	
Configurat	ion ———									
SMTP:		192.16	58.0.30	*	Connection:		⊙ <sub>LAN</sub> C	DialUp		
Sender:		indust	ry@industry.com	*	Provider:					
Number	of attempts:	0								
Try agai	n after:	0	minutes							
- Address bo	ook									
Referenc	e: reception	e-mail			Refe	erence			Address	
Address:		industry.com		_	help e-mail			helpmail@in		
	,	,		×						
ı ntV		'PR	edmit Res	n PlantVisorPl tart engin	RO 2006/10/06 10:2 ie in <sup>1</sup> System p	28:26 age'				
	SOP Area 1	PR	<b>o<sup>®</sup> admi</b> Res	n PlantVisorPl tart englr	RO 2006/10/06 10:2 le in 'System pa	28:26 age'				
bal			Res	tart engin	e in 'System p	28;26 age'	Window		Relay	
		SMS	Res	n PlantVisorPl tart engin nail	RO 2006/10/06 10:2 ne in 'System p RAS	28:26 age	Window		Relay	
bal			Res	tart engin	e in 'System p	28;26 age'	Window		Relay	
bal /0 configuration Fax	Area 1	SMS	E-n	tart engin nail	e in 'System p	age		of possible		e addre
bal / D configuration Fax Select the SM1	Area 1	SMS	E-n	tart engin nail	ie in 'System p. Ras	age		of possible		e addre
bal /0 configuration Fax	Area 1	SMS	E-n	tart engin nail	RAS	age	er the details			e addre
bal / D configuration Fax Select the SM1	Area 1	SMS sender and the	E-n e type of connecti	tart engin nail on used to se	RAS RAS nd E-MAIL messages Connection:	age				e addre
bal /0 configuration Fax Select the SMT Configurat SMTP: Sender:	Area 1 P server, the s	SMS sender and the	E-n	tart engin nail	RAS	age	er the details			e addre
bal /0 configuration Fax Select the SMT Configurat SMTP: Sender:	Area 1	SMS sender and the	E-n e type of connecti	tart engin nail on used to se	RAS RAS nd E-MAIL messages Connection:	age	er the details			e addre
bal /0 configuration Fax Select the SMT Configurat SMTP: Sender:	Area 1 P server, the s ion of attempts:	SMS sender and the	E-n e type of connecti	tart engin nail on used to se	RAS RAS nd E-MAIL messages Connection:	age	er the details			e addre
bal /0 configuration Fax Select the SMT Configurat SMTP: Sender: Number	Area 1 P server, the s ion of attempts:	SMS sender and the [192.16 [industr 0	E-n e type of connecti 58.0.30 ry@industry.com	tart engin nail on used to se	RAS RAS nd E-MAIL messages Connection:	age	er the details			e addre
bal /0 configuration Fax Select the SMT Configurat SMTP: Sender: Number	Area 1	SMS sender and the [192.16 [industr 0	E-n e type of connecti 58.0.30 ry@industry.com	tart engin nail on used to se	RAS RAS nd E-MAIL messages Connection:	age	er the details			e addre
bal /0 configuration Fax Select the SMT Configurat SMTP: Sender: Number Try again	Area 1	SMS sender and the [192.16 [industr 0	E-n e type of connecti 58.0.30 ry@industry.com	tart engin nail on used to se	e in 'System p. RAS nd E-MAIL messages Connection: Provider:	age	er the details			e addre
Address bo	Area 1 P server, the s ion of attempts: h after: e:	SMS sender and the [192.16 [industr 0	E-n e type of connecti 58.0.30 ry@industry.com	tart engin nail on used to se	e in 'System p. RAS nd E-MAIL messages Connection: Provider:	and ent	er the details		recipients in th	e addre
bal /0 configuration Fax Select the SMT Configurat SMTP: Sender: Number Try again Address bo Reference	Area 1 P server, the s ion of attempts: h after: e:	SMS sender and the [192.16 [industr 0	E-n e type of connecti 58.0.30 ry@industry.com	nail	RAS RAS Connection: Provider: Refe	and ent	er the details	DialUp	recipients in th	e addre
bal /0 configuration Fax Select the SMT Configurat SMTP: Sender: Number Try again Address bo Reference	Area 1 P server, the s ion of attempts: h after: e:	SMS sender and the [192.16 [industr 0	E-n e type of connecti 58.0.30 ry@industry.com	tart engin nail on used to se	RAS RAS Connection: Provider: Refe	and ent	er the details	DialUp	recipients in th	e addre

### 8.4 Settings for remote calls

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

Pla	ntVis	sorPRC	admin PlantVisorPl Restart engin	<mark>RO 2006/10/06 10:29:</mark> ie in 'System pac			? 🖿
	iobal	Area 1					
	I/O configuration						
	Fax	SMS	E-mail	RAS	Window	Relay	
F							
		n used for the calls to the Re the number of attempts to be					e set.
	Configuration						
Ĩ	Modem:			•	Switchboard:		
	Number of at	ttempts: 0					
Ve	Try again aft	er: 0 minutes					
CCC	Address book						
10	Reference:			Refere	nce	Address	
	Number:						
-		,	X				
							-

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 Remoto supervisor).
- Switchboard: set the number that allows calls to the outside, if the modern 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 **built** 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.

Pla	nt\	/is	orPl	RO	admin PlantVise Restart end	or <b>PRO 2006/10/06 10:30</b> aine in 'System pa			? 🖿
	lobal		Area 1						
	I/O configurat	ion						-	
	Fax		SMS		E-mail	RAS	Window	Relay	
	The WAV fi		when displaying t	he alarm w	indow can be selecter	d. Warning, the file must r	eside on the computer whe	ere the supervisor is install	ed.
Ŷ	Current Sound:					Sfo	glia		
<b>We</b>									
10									
-									

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 where the settings.

#### Checking functionality of the I/O peripherals 9.1



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

Pla	intVi	sorPR	admin PlantVisorPRO 20 Restart engine in		? 🖿
	obal	Area 1			
	I/O test page				
	Test I/O	test, select an action type :	and its recipient, then click the button		5
	Action type:				
	€ Fax C Print	C Sm C Rel		C Remote connection	
<b>10</b>	Recipient				
•	Select the I/C	peripheral that is to	be checked from the "Periphe	ral list" section	

- Select the receiver •
- C' 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

Pla	IntVi	<b>isorP</b> R	estart en		<b>/10/06 10:33:11</b> ystem page'		? 🖿
	lobal	Area 1		-			
	Periodic print conf	iguration					
	НАССР	Log					
흕							+ - 🗸
	Only the logge	d variables to HACCP standa		reports.			
		Descrip	tion		Туре	# variables	
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V.C.	- Context						
		0	*			• *	
NOV	Description	·			Туре	<u> </u>	
10	Device		*				
-		Available va	riables		Configure	ed variables	
				1			
•							
				- 🔀			-
			<u>)</u>		•	<u> </u>	

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:

Pla	nt\	<i>lisor</i>	<b>PRO</b>	admin PlantVisorPF Restart engin		5 <b>/10/06 10:34:40</b> System page'		2 🖿
Glo		Area 1						
P	eriodic print c	-						
	HACO	CP	Log					+ - V
H.	Oply the lo	need variables to b	10 CCP standards	can be involved in the repo	rte			
A		gged variables to r	Description	an be involved in the repu	105.	Туре	# variables	
								<u> </u>
Vez	Context							
	Descript	ion Periodic print :	1	*		Type Daily	•	د
10	Device	MasterCase -		*				
		l input configuratio		es		Enabling output manual manager	ed variables ment	<b>_</b>
		l input configuratio are version	n DI 5			Digital input configuration DI 1 Regulation temperature		
				•				-
	•			Þ				

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 **use** 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:

alal Glob		OFPRO Area 1	admin PlantVisorPR Restart engine				
Pe	eriodic print configurati						
	НАССР	Log					+ 5 (
	Only the logged varia	bles can be involved in the Description	reports.		Туре	# variables	<u> </u>
	Context-						<b>•</b>
10	Description Period	lic print Log 1 lar Chiller-HP screw compr. Available variable			Type Daily Interval 10 * Minutes Configur	ed variables	• *
<b>S</b> I	4 - way valve ci Condensing tem Inlet water tem Outlet water ter	nperature perature			Condensation pressure Fan 1 circuit 1 Line contactor compressor		
	•		<b>•</b>	X	<ul> <li>▲</li> </ul>		•

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 on 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 with the settings.

## 10.2 Manual reports



To set manual reports select "Manual report configuration" from the "Report"

admin PlantVisorPRO 2006/10/06 10:39:08 D) ? 1 an ISOr Ľ Global Area 1 Print online НАССР Log Only the logged variables to HACCP standards can be involved in the reports. Period A
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A Instantaneous · / · / · O Daily · / · / · O Weekly From From \_ / \_ / \_ То У/У/У O Generic Context \* Device -----Available variables Configured variables • • X • ١ •

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:

Plan	EVIS(	orph	Restart		6/10/06 10:40:02 System page'	<b>?</b> 1*
Global		Area 1				
Print on	line					
	НАССР	Log				
흔						V
2 2 C	the logged varia	ables to HACCP sta	andards can be involved in	the reports.		
	Instantaneous	s				
1	C Daily					
	C Weekly	From				
100 0	C Generic	From	¥ / ¥ / ¥	То	·/ ·/ ·	
<b>10</b>	ontext					
10	evice MasterCa	ise - 4	*			
		Available	variables		Configured variables	
	Digital input cor	nfiguration DI 2 : manual managem		_	Digital input configuration DI 1 Digital input configuration DI 5	<u> </u>
	Firmware versio		ent	<b>_</b>	Regulation temperature	
				- 🔀		
	•					

menu. The following page will open.

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.

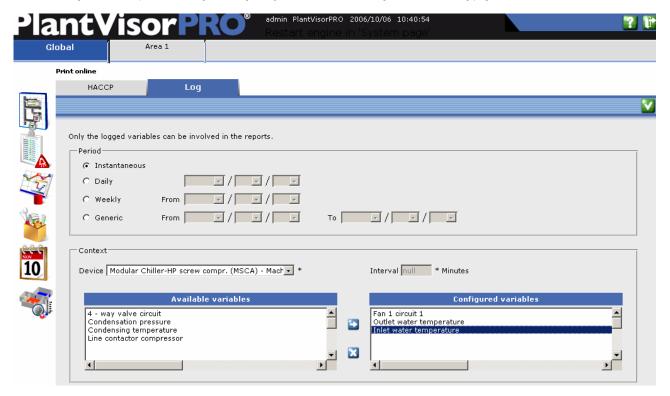
Use the "Available variables" table and select the variable from which the values must be extracted in order to create the report. Click on introduce the variable into the report. The "Configured variable" table will populated in this way. If a variable is incorrectly introduced into the "Configured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



## 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



icon. The "Scheduler" menu will

To access scheduler management based on alarms and events place the mouse arrow on the appear; select "Alarms and events management". The following page will be visualised:

Pla	intVi	sorPR	admin PlantVisori Restart engli	•Ro 2006/10/06 10:41:4 ne in 'System pag			? 🗗
Gl	obal	Area 1					
	Alarms and events i	management					
	Rules	Alarm conditions	Event conditions	Time bands	Actions		
2							+ - V
	Rules for manag	jing actions against alarms o	r events.				
	Enabled	Description	Condition	Time bands	Actions	Delay	IDE
2 2 2 2 2 2 3 2 3 2 3 3 3 3 3 3 3 3 3 3							×
10	Rule Description		* Enabled 🔽				
<b>~</b> ]	Condition [		▼ * Time bands		• * Actions		*
	Delay:	minutes					

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

Pla	intV	<b>ÍS</b>	orP	RC	) <sup>®</sup> adr Re			2006/10/06 in 'Syste					? 🖿
	obal		irea 1										
	Alarms and eve	ents manag	ement										
	Rules	;	Alarm con	ditions	Event	condition	s	Time ban	ds	Actions			
													+ - V
	To edit an a	action doub	le click the cor	respondin	g row in the	e list belo	w.						
	IDE		Descrip	tion		Fax	SMS	E-mail	Relays	Variable	Remote	Print	Windov
													<b></b>
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Ver													
													<b>_</b>
10													
10	To add a ne	ew action, e	nter the descr	iption ther	n click the in	mage '+'.	Then dou	ble click the	new row ent	ered in the list (	highlighted in	red).	
	Descripti	ion ———											
- T	Name			*									

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

Click on											
Pla	IntVis	SorPRC	admin P	lantVisori	PRO 2006/10	D/O6 10:44:	18			?	ľ
	lobal	Area 1									
	Alarms and events ma	anagement									
	Rules	Alarm conditions	Event condition	s	Time band	ds	Actions				
										+ -	
L?	To edit an action d	ouble click the correspondi	ng row in the list belo	ow.							
	IDE	Description	Fax	SMS	E-mail	Relays	Variable	Remote	Print	Window	
	Action :	1								<u> </u>	1
Ŷ	<b>7</b>										
Ve.	•									▼ ▶	1
	To add a new actio	on, enter the description the	en click the image '+'	.Then do			tered in the list	(highlighted	in red).		
10					Click her	re					
	Description Name	*									
-	[										1

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.

		Area 1	edmin Plar Restart	tVisorPRO 2006/10/06 engine in 'System			? (
AL		<u>agement</u> > action config	-				
	Fax	SMS	E-mail	Relay	Variable	Remote	Print/Window
LF -							
	Action: Actior	1					
1	Fax	Address book -	numbers		Numbers conf	igured for the actio	n
	Fax -> 123454	5678				2	
10							
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#### 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.

ar	ntV	<b>isorP</b>	RO <sup>®</sup> admin Plar Restart	ntVisorPRO 2006/10/06 engine in 'Systen			?
Glob		Area 1					
<u>Ala</u>		ts management > action					- 1 - 1 - 1 - 1
a 🗕	Fax	SMS	E-mail	Relay	Variable	Remote	Print/Window
J _							
	Action: A	ction 1					
*	- Fax						
57							
1		Address bo	ook - numbers		Numbers con	figured for the actio	n
	Eav N	1234545678		A Fax - 1	> 1234545678		
4	I da -2	1234343070			1234343070		
				<b>E</b>			
	•						
20							

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 **W** 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.

Pla	antV	<b>isor</b> PF	Restart e	t <mark>WisorPRO 2006/10/06</mark> engine in 'Systen			2 🖿
	Global	Area 1					
	Alarms and eve	ents management > action c	onfiguration				
	Fax	SMS	E-mail Relay		Variable	Remote	Print/Window
	Action:	Action 1 Address boo	k - numbers		Numbers conf	figured for the action	

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 **bud** 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:

<b>2</b> [a	intVi	sorpr	estart e	tVisorPRO 2006/10/06 engine in 'Syster			? 🖿
	obal	Area 1					
	Alarms and events r	nanagement > action config	juration	_			
	Fax	SMS	E-mail	Relay	Variable	Remote	Print/Window
Ģ							
	Action: Act	ion 1					
Î	E-mail	Address book - a	dduoseoe	_	Adduceos con	figured for the actio	
		AUURESS DUUK - a		- •	Auuresses con		-
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om the	"Number book" s	elect the items corresp	oonding to the numb	pers to which the e-r	mail must be sent an	id click on 💽	
		appear in the "Number	Ū.			<b>S</b> 2	

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:

Pla	IntV	<b>iso</b>	rPR	edmin Plant Restart e	WisorPRO 2006/10/06 angine in 'Systen			? 🖿
	lobal	Are						
	Alarms and eve	ents managen	nent > action cont	figuration				
here	Fax		SMS	E-mail	Relay	Variable	Remote	Print/Window
								<b>`</b>
	Action:	Action 1						
	Relays-	Dolaus au	vailable in the ir	sctallation	Status			
Ve		dule - 2 -> 0N	V/OFF relay1 from enabling comma	serial 🔺 🗖	De-energised 🔽	Relay	s configured	Status 🔺
10	•	]		V	X	<b>₹</b>		<b>▼</b>
-								

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 corresponding to the relay in the "Status" field and click on corresponding to the selected 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 **Live** to save the settings.

#### Programming setting of variables in an action

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

Pla	IntV	<b>isorP</b> R	eadmin Plant Restart e	VisorPRO 2006/10/06 angine in 'System			? 🖿
	lobal	Area 1					
	Alarms and even	ts management > action confi	iguration				
	Fax	SMS	E-mail	Relay	Variable	Remote	Print/Window
	Action: A Variable Device: [ Variabl	ction 1 	stion	set to #	¥ariables conf	igured for the action	Value
10			T	<b>X</b>			¥ F

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.

Pla	IntV	<b>isor</b>	RO <sup>®</sup> admin Plar Restart	ntVisorPRO 2006/10/06 engine in 'Syster	<b>12:24:06</b> m page'		2 🖿
G	lobal	Area 1					
	Alarms and eve	ents management > action	configuration				
	Fax	SMS	E-mail	Relay	Variable	Remote	Print/Window
	Action:	Action 1 Installatio	ns available		Installations co	nfigured for the actio	en
<b>4</b>							

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.

CAREL code +030220771 rel 1.0 dated 04/10/06

## Programming setting of the Print/Windows functions in an action

Select the "Print/Window" tab. The following page will open

Pla	intV	ĬS	orPR	estart e	WisorPRO 2006/10/06 engine in 'Systen			2 🖿	
	lobal		Area 1						
	Alarms and eve	ents mana	gement > action con	figuration					
	Fax		SMS	E-mail	Relay	Variable	Remote	Print/Window	
	Action:	Action	1						
	Print — Enat	Print  Enable print on alarm							
10	Window Enat	ble the ala	rm window						

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

#### <u>Alarms and events management</u> > action configuration

Return to the action rule configuration page

	Vís	orPR				2006/10/06 in 'Syste					
Global		Area 1									
Alarms and	events manaç	gement									
Ru	ıles	Alarm conditions	Ever	nt conditions	s	Time ban	ds	Actions			
											-
To edit a	in action doub	ole click the correspo	nding row in th	ne list belov	ν.						
IDE		Description		Fax	SMS	E-mail	Relays	¥ariable	Remote	Print	Windo
	Action 1									<b>√</b>	
1											
To add a	new action, r	enter the description	then click the	image '+'.	Then dou	ble click the	new row ent	ered in the list (	(highlighted in	ı red).	

#### Deleting an action

Pla	nt V	<b>is</b>	orPRC	) <sup>®</sup> adr Re			2006/10/06 in 'Syste					2	Þ
	lobal		Area 1										
	Alarms and ev	ents manag	jement										
	Rule	s	Alarm conditions	Event	conditions	;	Time ban	ds	Actions				
													2
	To add as		la alialatha annsana dia	· · · · ·	Est balan								
		action doub	le click the correspondin	ig row in the									
	IDE	Action 1	Description		Гах	SMS	E-mail	Relays	Variable	Remote	Print	Windov	
1		ACCONT									<b>→</b>		
V.												<b>T</b>	
	•												
10	To add a n	ew action, e	enter the description the	n click the ir	nage '+'. '	Then dou	ble click the	new row ente	red in the list (	highlighted in	red).		
	Descript	ion											
	Name A		*										

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

#### Time bands 11.1.2

Click on the "Time bands" tab

Pla	lľ	itV	/isc	<b>prPRC</b>	<b>admin Plar</b> Restart	tVisorPRO 200 engine in <sup>1</sup>				2 🕅
	loba			rea 1						
	Alan	ns and eve	' ents manage	ement				_		
		Rules	;	Alarm conditions	Event conditio	ns Tin	ne bands	Actions		
Ģ										+ = v
		IDE		Des	ription			Тур	e	
			Sempre/A	lways/Toujours/Immer			Daily			<u> </u>
<b>N</b>	/									T
Ne.		•								<u> </u>
		Time ba	nds							
10		Descript	tion	*			#		Value	
-		Type Daily	•	from 00 to 00	· : 00 •	<b>*</b>				
							4			<b>▼</b>

#### 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.

J	*	
Туре		from 00 💌 : 00 💌
Daily 💌		to 00 💌 : 00 💌

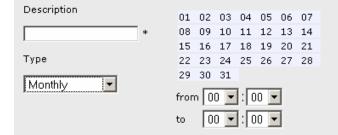
If the "Weekly" type is selected:

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	
*	🗆 Mon 🗆 Tue 🗆 Wed 🗖 Thu
Туре	🗖 Fri 🗖 Sat 🗖 Sun
Weekly	from 00 💌 : 00 💌
	to 00 💌 : 00 💌

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.



#### 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		Janu	iary					
*	01	02	03	04	05	06	07	
Tues	08	09	10	11	12	13	14	
Туре	15	16	17	18	19	20	21	
Annual	22	23	24	25	26	27	28	
	29	30	31					
	fror	n 🛛	0 💌	]:[0	0 -	·		
	to	0	0 🔻	]:[0	0 -	·		

#### 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	🔄 January 💽 🎑 2006 💟
туре *	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21
Special event	22 23 24 25 26 27 28 29 30 31
	from 00 💌 : 00 💌 to 00 💌 : 00 💌

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

Click on **use** 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.

Pla	int	<b>isor</b>	<b>PRO</b>	admin PlantVisor Restart engl		<mark>/10/06 16:04</mark> :: Vstem pag			? 🕅
G	obal	Area 1							
	Alarms and ev	ents management					_		
	Rule	s Alarr	n conditions	Event conditions	Tim	e bands	Actions		
									197
	IDE		Desci	iption			Ту	ре	
		Sempre/Always/T	oujours/Immer			Daily			<u> </u>
		Time band 1				Daily			
4									
Ve.	•								
	Time ba	nds							
NOV	Descrip	tion				#		Value	
10	Time b					*		00:00-23:00	
	Туре		from 00 🔻	. 00 💌					
-				: 00 -					
	Daily	•			_				
									-
						<u>र</u>			

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.

Pla	int	Viso	orpr	admi Res			/10/06 16:04 ystem pag					? 🗗
	lobal		rea 1									
	Alarms and	l events manage	ement									
	R	ules	Alarm conditio	ns Event c	onditions	Tim	e bands	Actio	ns			
		-							_			
	ID		lways/Toujours/I	Description			Daily		Туре			
		Time ban		miner			Daily					
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	7											
												<b>T</b>
Vei	•										•	
	Time	bands										
10	Des	cription					#			/alue		
10	Tim	e band 1	*									1
-	Тур	е	from	00 💌 : 00 💌								
		ily 💌	to	00 💌 : 00 💌		<b>₽</b>						
												-
							4				Þ	

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

#### 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:

Pla	ntV	isor	RO	admin PlantVisorPI Restart engin	e in 'System pag			? 🖿
	obal	Area 1						
	Alarms and ever	its management						
	Rules	Alarm co	nditions	Event conditions	Time bands	Actions		
F								+
	Only the logo	jed variables can be in	volved in th	e conditions on event.				
	IDE			Description			Туре	
Ve.	Condition							
	Descriptio	in			*			
10	Device:				▼ Variable:	····· •		
*	Operation	: 🗾 🕶 on:	(€ Variable	C Constant				
-	Device:				▼ Variable:	🔽		

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

Pla	int V	<b>/iso</b>	rPRC	admin PlantVi Restart er	sorPRO 2006 ngine in 'S				? 🖿
	lobal	Area							
	Alarms and eve	ents managem	ent						
	Rules	A	larm conditions	Event conditions	Tim	e bands	Actions		
2									+ - V
	Only the al-	arm variables (	checked as ACTIVE c	an be involved in the o	onditions on a	larm.			
	IDE			Description				Туре	
	, ·								<u>*</u>
1									
V.									<b>~</b>
0.0.0	Conditio	n							
	Descrip	tion		*					
10	@ All	the devices	C One or mo	re devices 🛛 🙃 Syste	m	Devices			-
1			Available variabl	es			Associated v	variables	
					<u>~</u>				<u>~</u>
					-				-

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:

- Select the device from the "Device" field. The list of alarms of that device will be visualised in the "Alarm variables" table. a)
- Select the variables from the "Alarm variables" table b)
- 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.

Click on ]; the incorrectly introduced item will no longer appear in the "Configured alarms table".

to save the alarm conditions. d) Click on

ii)

11.1.5RulesSelect the "Rules" tabThe following page will open:

Pla	.ntVi	sorPRO	eadmin PlantVisorF Restart engin	2006/10/06 16:08:38 ne in 'System page'			? 1
	obal	Area 1					
,	Alarms and events r	management					
	Rules	Alarm conditions	Event conditions	Time bands	Actions		
2							+
	Rules for manag	ing actions against alarms or	r events.				
	Enabled	Description	Condition	Time bands	Actions	Delay	IDE
							_
10	Rule						<b>_</b>
*	Condition		* Enabled		* Actions		• *
	Delay:	minutes					

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 will be updated

#### Modifying the rules

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

lľ	ntVi	sorPR	edmin PlantVisorA	• <b>RO 2006/10/06 16:09:2</b> 4 he in 'System page			
Globa		Area 1					
Alar	ms and events i	management					
	Rules	Alarm conditions	Event conditions	Time bands	Actions		
							-
		jing actions against alarms or					105
2	Enabled	Description General Rule	Condition Event condition	Time bands	Actions Action 1	Delay 10	IDE
7	<b></b>		Evene condition	Time band 1	Heatin 1	10	
	•						1
Li i	<u> </u>						
	-Rule						
	Description	Seperal Rule	* Enabled 🔽				
	Beserbaen		Enabled				
	Condition	Event condition	💽 * Time bands Tim	ne band 1	* Actions Action 1		-
<i>y</i> *							
	Delay: 1	LO minutes					

Modify the values as indicated in creating a rule.

Click on **bud** 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.

l	ntV	ÍS	orPR	• admin PlantVis Restart eng	orPRO 2006/10/06 16:09: gine in 'System pag			
Globa	al 👘		Area 1					
Alar	ms and eve	nts mana	agement					
	Rules		Alarm conditions	Event conditions	Time bands	Actions		
								+
			actions against alarms					
5	Enable	d	Description General Rule	Condition Event condition	Time bands Time band 1	Actions Action 1	Delay 10	IDE
7	<ul> <li>✓</li> </ul>		General Kule	Evencionation	Time band 1	Action 1	10	
1								
	•							
	-Rule							
	Descripti			* Enabled [	-			
	Description	500		Enabled				
6	Conditior			* Time bands		* Actions		
j.	Condition					Acuons		
	Dalaur		minutes					
	Delay:		minutes					
	1							

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

### 11.2 Scheduled activity management



icon. The Scheduler" menu will appear;

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

Pla	intVi	<b>isorP</b> R		lmin PlantV	isorPRO 2006/10/06 1	6:18:34		? 🖿
	obal	Area 1						
	Scheduled activitie	<del>s</del> management			_			
	Rules	Time bands	A I	Actions				
								+
	Rules for mana	ging scheduled actions.						
	Enabled	Descriptio	on	т	ïme bands	Actions	Delay	IDE
								<u> </u>
1	1							
1								
Vei								
								=
10	- Rule							
10	_			_				
	Description		* Er	nabled 🔽				
	Time bands -		• * A	ctions		*		
	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

Pla	IntV	<i>isorPF</i>	edmin P	lantVisorPRO 2006/10/	27 15:55:08		? 🖿
	lobal	Area 1					
		<del>ties management</del> > action	-				
	Fax	Sms	E-mail	Relay	Variable	Remote	Report
<ul> <li>10</li> </ul>	Action: A	Action2	<u>.</u>	Log [		y	

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

#### <u>Scheduled activities management</u> > action configuration

Go back tot he 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:

Pla	IntVis	<b>sorPRO</b> °	admin PlantV	isorPRO 2006/10/06 1	16:29:18		? 🖿
	lobal	Area 1					
	Scheduled activities n	nanagement					
	Rules	Time bands	Actions				
2							+
H	Rules for managin	ig scheduled actions.					
	Enabled	Description	т	ime bands	Actions	Delay	IDE
							<u> </u>
Ť	7						
NG.							
-0-0-0							<b>V</b>
10	Rule						
IV	Description	*	Enabled 🔽				
4	Time bands	*	Actions		*		
			Hodons [				
	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 will be updated

#### Modifying the rules

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

Pla	intVis	orpro	admin	PlantVisorPRO 2006/10/06	16:31:10		? 🖿
		Area 1					
	Scheduled activities man	-					
	Rules	Time bands	Action	s			
문							
	Rules for managing s	cheduled actions.					
	Enabled	Description		Time bands	Actions	Delay	IDE
	✓	schedule		Time band 1	Action2	10	
	γ						
Vei							
10	Rule						
10	Description schedul	e *	Enable	V b			
6	Time bands Time b	and 1 💽 *	Actions	Action2	*		
	Delay: 10	minutes					

Modify the values as indicated in creating the rule.

Click on will be updated.

#### Delete rules

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

Pla	ntVis	orpro	admin PlantVisorPRO 2006/10/06	16:32:19		? 🖿
	obal	Area 1				
	Scheduled activities ma	-				
	Rules	Time bands	Actions			
R						+ - V
	Rules for managing	scheduled actions.				
	Enabled	Description	Time bands	Actions	Delay	IDE
	<	schedule	Time band 1	Action2	10	<u> </u>
1						
1						
Vei						
All and a second						-
Nov	- Rule					
10						
	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 The following page will be visualised icon. The "Configuration" menu will appear; select "User configuration".

Pla	nt\	<b>isorPR</b>	admin PlantVisorPRO 2006/10/06 1 Restart engine in 'System		2 🗈
	lobal	Area 1			
	User configura				
	User	s Profiles			
	To edit a co To remove	nfigured user double click the corr an user, select the row in the list b 	esponding row in the list below. elow and then click the image '-'		
	admin	Users	System Admir	Profiles	
10	<b>[4]</b>				
	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.

onfiguration				
Users	Profiles			
		Descriptio	n	
System Administrator				
Profile				
Profile				
Description	ction	No access	Read-only access	Read and write access
Description		No access	Read-only access	Read and write access
Description Fun	s, areas, groups)			
Description Fun Fun Site configuration (device	s, areas, groups)	o	0	0
Description Fun Site configuration (device Manufacturer parameters	s, areas, groups)	0 0	0	0 0
Description Fun Site configuration (device Manufacturer parameters Service parameters	s, areas, groups)	© ©	0	0 0 0
Description Fun Site configuration (device Manufacturer parameters Service parameters Acknowledge of alarms Cancel actions of alarms	s, areas, groups)	© © ©	0 0 0 0 0	
Description Fun Site configuration (device Manufacturer parameters Service parameters Acknowledge of alarms Cancel actions of alarms	s, areas, groups)	© © ©	0 0 0 0 0	
Description Fun Site configuration (device Manufacturer parameters Service parameters Acknowledge of alarms	s, areas, groups)	© © ©	0 0 0 0	0 0 0 0

#### 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 will be updated. 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

ntVisorPRO 🕆	<mark>dmin PlantVisorPRO 2006</mark> Restart engine in 'S		
Area 1			
• configuration			
Users Profiles			
	Descriptio	D	
System Administrator	Description	1	
1			
Profile			
Profile Description New Profile			
	No access	Read-only access	Read and write access
Description New Profile	No access	Read-only access	Read and write access
Description New Profile Function			
Description New Profile Function Site configuration (devices, areas, groups) Manufacturer parameters Service parameters	0 ©	۲	0 0 0
Description New Profile Function Site configuration (devices, areas, groups) Manufacturer parameters Service parameters Acknowledge of alarms	C C C	•	
Description New Profile Function Site configuration (devices, areas, groups) Manufacturer parameters Service parameters	0 ©	0 0 0	0 0 0
Description New Profile Function Site configuration (devices, areas, groups) Manufacturer parameters Service parameters Service parameters Acknowledge of alarms Cancel actions of alarms	C C C	0 0 0 0	
Description New Profile Function Site configuration (devices, areas, groups) Manufacturer parameters Service parameters Acknowledge of alarms	C C C	0 0 0	
Description New Profile  Function Site configuration (devices, areas, groups) Manufacturer parameters Service parameters Acknowledge of alarms Cancel actions of alarms Enabled Area	C C C C C C	C C C C C Enabled	
Description New Profile  Function Site configuration (devices, areas, groups) Manufacturer parameters Service parameters Acknowledge of alarms Cancel actions of alarms  Enabled Area Global Global	C C C C C C	C C C C C Enabled	
Description New Profile  Function Site configuration (devices, areas, groups) Manufacturer parameters Service parameters Acknowledge of alarms Cancel actions of alarms  Enabled Area Global Global	C C C C C C	C C C C C Enabled	

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

## 12.1.3 Deleting a user profile

Sel	ect	the	prot	ile	to c	lele	te
-----	-----	-----	------	-----	------	------	----

	orpro				
al A	Area 1				
er configuration					
Users	Profiles				
					-
		Descript	ion		
System Administrat	tor				
New Profile					
- Duefile -					
Profile Description					
	Function	No access	Read-only access	Read and write access	
Description	Function devices, areas, groups)	No access	Read-only access	Read and write access	
Description Site configuration ( Manufacturer param	devices, areas, groups) neters				
Description Site configuration ( Manufacturer paran Service parameters	devices, areas, groups) neters s	o	0	0	
Description Site configuration ( Manufacturer param Service parameters Acknowledge of ala	devices, areas, groups) neters s rms	۵ ۵	0	0 0	
Description Site configuration ( Manufacturer paran Service parameters	devices, areas, groups) neters s rms	© ©	0 0	0 0 0	
Description Site configuration ( Manufacturer parar Service parameters Acknowledge of ala Cancel actions of a	devices, areas, groups) meters s arms larms	ຈ ຈ ດ	C C C C C		
Description Site configuration ( Manufacturer param Service parameters Acknowledge of ala	devices, areas, groups) meters s arms larms <u>Area</u>	ຈ ຈ ດ	C 6 6		

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.

Pla	ntV	<b>isorPR</b>	admin 🖲	PlantVisorPR	0 2006/10/06	16:44:22		2 🖿
	obal	Area 1						
	User configurati		_					
	Users	Profiles						
南								+
	To edit a cor To remove a	nfigured user double click the co in user, select the row in the list	rresponding row below and then	in the list below. click the image '-	,			
	admin	Users			System Admin		ofiles	
	,							
10								T
-	User User	New User				Password	•••••	
	Profile	New Profile	•			Confirm password	•••••	

#### 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 **users** 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

	sorPRO	admin PlantVis	orPRO 2006/10/06 16:45:20		
pal	Area 1				
er configuration					
Users	Profiles				
To edit a configura	d user double click the correspon	oding row in the list he	low		
To remove an user	r, select the row in the list below	and then click the ima	iow. ge '-'		
	Users			Profiles	
admin	users		System Administrator	Promes	
New User			New Profile		
14600 0361			New Frome		
User					
_					
_	w User		Passwor	d	
User Ne					
User Ne				d password	

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

#### 12.2.3 Deleting a user

Select the user to be deleted

lobal User configura Usel	Area 1					<u> </u>
-						
Use	tion					
	s Pr	ofiles				
						E
To edit a c	nfigured user double	click the corresponding ro	w in the list below.			
To remove	an user, select the ro	ow in the list below and the	n click the image '-'			
To remove admin		Users		Pro	ofiles	
admin			System	Administrator		
New Use			New Pro	file		
User						
1						
User				Password		
Duefile		•		Confirm a command		_
Profile	I	·		Confirm password	1	

Click on **beside** 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 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

ſ	ntViso	orpr	admin PlantvisorPRO 2006/10/06 17:59:28 Restart engine in 'System page'
oba		area 1	
Syst	tem pages		
	Information	System	IDE Support GUARDIAN
	System		Windows XP 5.1 Service Pack 2
	System languag	le	US_en Vendor ID: IDT\Centaur, Via Inc. CPU Type ID: 0 Family ID: 6 Model ID: 9 Stepping Code: 8 Brand ID: V
	Processor		Nehemiah
/	Total physical n	nemory (RAM)	491,000 KB
	Used physical m percentage	nemory (RAM)	51 %
	Used CPU perce	ntage	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
	Туре		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.

Plai	ntViso	orPRO	⁰ admin Rest		<b>RO 2006/10/06 17:59:</b> Te in 'System pag			? 🖿
Glob	al	Area 1						
Syr	stem pages							
B	Information	System	IDE		Support	GUARDIAN		
	Engine status				* 0		Active	
4	Refresh I/O perip	herals			٥			
	Change logo of the	e header of the pages				Sfoglia		
10	Change 'Login pag	je' image				Sfoglia		
<b>T</b>	Export site configuration							
	Import site config	uration				Sfoglia		

icon. The "Configuration" menu will appear.

The table below explains the various functions

Item	Explanation
Motor status	Stop (00) 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 ris 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 real 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.

Pla	nt	Vis	orpro	• admin Resta	<b>RO 2006/10/06 18:00:</b> he in 'System pao		? 🕅
	obal		Area 1				
	System pa	-					
lere.	Info	rmation	System	IDE	Support	GUARDIAN	
5							
	Expo	rt site config	juration				
	Impo	rt maps fron	n LayoutEditor (jsp)			Sfoglia	
A BO	Impo	rt device ma	odel from DeviceCreator			Sfoglia	
10	Remo	ve device m	odel				
	Impo	rt rules fron	n RuleEditor			Sfoglia	

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

ystem pages					
Information	System	IDE	Support	GUARDIAN	
In this page it is po	ssible to gather information	to send to customer servic	e when problems arise		
in and page it is po	ssible to gather information	to send to castomer servic	e when problems anse.		
	og files to customer service				
Custome e-mail :	r service				
Commen	t:				
	ļ				
Export all	log files in folder C:\Carel\P	lantVisorPRO\Logs.zip			
Export an	log mos miloldor or (odror).				

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.

If the logs must just be exported in order to examine them, click on III 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/rras/rras/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.

	ptions	(L.)
ialing Rules Modems	Advanced	
The followin	ng moderns are installed	
Modern		Attached To
U.S. Robotics 56	K Faxmodem USB	COM3
	Add	Remove Properties

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

General	Modem	Diagnostics	Advanced	Driver	Power Management
Port	СОМЗ				
Spea	aker volum	e			
	Off	e	- 🗍 Or	1	
		1	1		
- <u>М</u> ахі	mum Port	Speed			
	5760	0			
	3760	0			
Dial	Control				
		ait for dial tone	before dialin	9	

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.

ieneral Modem	Diagnostics	Advanced	Driver	Power Managemen
Extra Settings				
Extra initializati	on commands:			
1				
		Advanced Po	ort Setting	js
	_	Advanced Po ange Default		

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

ieneral Advanced	
Call preferences	
Disconnect a ca	all if idle for more than <b>mins</b>
Cancel the call	if not connected within 🔟 secs
Data Connection Pre	ferences
Port speed:	57600
Data Protocol:	Standard EC 🛛 🐱
Compression:	Enabled 💌
Flow control:	Hardware 😽

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, <u>a combination must be found</u> 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".

S Internet	My Documents	1	
<ul> <li>Internet Explorer</li> <li>E-mail</li> <li>Outlook Express</li> </ul>	My Recent Documents		
Paint	My Music		
Pl@ntVisor Engine	🔢 My Computer		
Riles and Settings Transfer Wizard	Second Se		
🔏 Windows Messenger	Control Panel		
Windows Media Player	Connect To	PVRemoteCall	Connect Status
	inters and Faxes	Show all connection	Cancel as Default Connection
MSN Explorer	() Help and Support		Create Copy
	Search		Create Shortcut Delete
All Programs 📡	7 Run		Rename
	🖉 Log Off 🛛 💽 Turn Off Computer		Properties Sort by Name

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

Modem - U.S. I	Robotics 56K Faxmod	em USB (COM3) Configure
Phone number		
Area code:	Phone number:	
~	0491515651	Alternates
Country/region of	ode:	
		*
🔲 Use dialing r	ules	Dialing Rules

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

Modem Configuration	?
U.S. Robotics 56	6K Faxmodem USB (COM3)
Maximum speed (bps):	115200
Modem protocol	×
Hardware features	
🔽 Enable hardware flow	w control
🗹 Enable modem error	control
Enable modem comp	pression
Show terminal window	
Enable modem speaker	
	OK Cancel

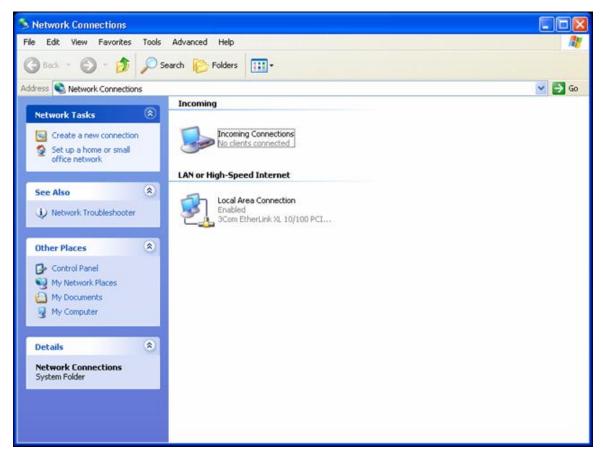
All of the parameters can be modified with the following criteria: first act on compression, then on protocol and finally the speed.

### 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":

Internet Internet Explorer	My Documents	
E-mail Outlook Express	My Recent Documents 🔸	
	My Pictures	
Pl@ntVisor Engine	🕑 My Music	
Files and Settings Transfer Wizard	Favorites	
Windows Media Player	Wy Computer	
MSN Explorer	S My Network Places	
	Control Panel	
Windows Movie Maker	Connect To	Show all connections
Tour Windows XP	Printers and Faxes	
	🕐 Help and Support	
	P Search	
All Programs 🖒	707 Run	
	🖉 Log Off 🛛 💽 Turn Off Computer	
👪 start		

By doing this the following page will appear:



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

eral Users Network	ting	
twork components:		
🟋 Internet Protocol (		
] 🛃 File and Printer SH ] 📳 QoS Packet Sche ] 📕 Client for Microsof	eduler	TOWORKS
Install	Uninstall	Properties
Transmission Control P wide area network prot across diverse intercor	tocol that provides	

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

Incoming TCP/IP P	roperties	? 🔀
Network access	access my local area network	
TCP/IP address ass Assign TCP/IP	addresses automatically using DHCP	
From:	10 . 0 . 0 . 1	
To: Total:	10.0.2	
	mputer to specify its own IP address	
	ОК	Cancel

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 al 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.



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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: