



MONITORING SOFTWARE FOR UPS UPS WITH LAN INTERFACE

USER MANUAL

NOTE:

THIS MANUAL & SOFTWARE IS VALID ONLY FOR UPS MONITORED BY LAN CARD (SNMP). NOT VALID FOR UPS COMMUNICATED BY USB or RS232 PORTS SINCE THE SOFTWARE TO BE USED IS DIFFERENT.



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1. OVERVIEW.

MONITORING SOFTWARE:

Viewpower-PRO is an advanced UPS management software which is perfect for professional UPS monitoring. It can monitor and manage one to multiple UPSs in a networked environment including LAN, INTERNET and RS485 based networks. Monitoring can be performed by multiple PCs from the network. Each UPS must has its own SNMP LAN card connected to the network. Viewpower PRO software must be installed in every PC used for monitoring and control purposes.

Main software features:

- Control and monitor up to 1000 UPS on the network
- Log events and data
- Broadcasting of alarms and messages as SMS or emails
- Scheduled actions as power-off/power-on, battery tests, wake-on LAN
- Automatic shutdown/sleep for PC on the network

SHUTDOWN SOFTWARE:

Shutdown Wizard is a separated software module that must be installed in each PC required to receive remote shutdown commands generated by UPS events. In those PC required to ONLY be shutdown remotely there is no need to install Viewpower PRO. Only Shutdown Wizard is required. Shutdown Wizard will receive remote shutdown command from other PC (named Master) with Viewpower PRO configured for sending remote commands to specific IP addresses.

NOTE:

For additional information about remote PC shutdown and UPS shutdown, we suggest to revise carefully ANNEX-1 and section LOAD CONFIGURATION and EVENT ACTION of this manual.





2. VIEWPOWER PRO INSTALL AND UNINSTALL.

2.1. SYSTEM REQUIREMENT.

- 1 GB RAM memory at least (2 GB is recommended).
- 2 GB hard disk space at least.
- Administrator authority is required.
- More than 16bit colors and 800 x 600 or above resolution display is recommended.
- TCP/IP protocol must be installed for network management .
- Platforms supported by software are listed below at the moment this manual was printed:
 - Windows 2000
 - Windows XP/2003/Vista/2008 (32bit & x64bit)
 - Windows 7 (32bit & x64bit)
 - Windows SBS 2011
 - Linux RedHat 8, 9
 - Linux RedHat Enterprise AS3, AS5, AS6 (32bit)
 - Linux RedHat Enterprise AS6 (64bit)
 - Linux RedHat Enterprise 5.2 (32bit & 64bit)
 - Linux SUSE 10 (32bit & 64bit)
 - Linux Cent OS 5.4 (32bit)
 - Linux Ubuntu 8.X, 9.X, 10.X (32bit)
 - Linux Ubuntu 10.X (64bit)
 - Linux Ubuntu 12.04 (32bit & 64bit)
 - Linux Fedora 5
 - Linux Open SUSE 11.2 (32bit & 64bit)
 - Linux Debian 5.x, 6.x (32bit)
 - Linux Debian 6.x (64bit)
 - Mac OS 10.6 (x64bit)
 - Mac OS 10.7 (x64bit)
 - Solaris 10 for x86 (32bit)

XMART keeps working to assure compatibility of all of our software with new OS released in the market. In case of doubts, please check with your XMART distributor to know the updated compatibility list.



2.2. SOFTWARE INSTALLATION

NOTE:

Before installing Viewpower-PRO in the PC, we strongly recommend to uninstall all other UPS monitoring software. Some other UPS software can affect normal operation of the Viewpower-PRO because they could be using same communication ports (for example 161 and 162). In case of ports conflict, we suggest to revise ANNEX-3 of this manual.

VIEWPOWER PRO

Insert the software CD into CD ROM. Installation menu will be automatically displayed, or you can run **Autorun.exe** to start the installation in CD directory.

It will show the Installation menu offering installation options for 2 software modules:

- Viewpower PRO: (required for monitoring and control UPS from each PC)
- Shutdown Wizard (required to shutdown PC)
- Exit

After clicking install, it will display the installation in process. Follow instructions during installation.

SHUTDOWN WIZARD

From CD, search for Shutdown Wizard directory for your Operating System. Find executable file and double click.

You can also download more updated software from our web: www.xmart-ups.com. Software files are in compress format (ZIP).

2.3. SOFTWARE UNINSTALL

VIEWPOWER PRO

Please choose Start> All Programs> ViewPower-Pro> Uninstall. Then follow the onscreen instruction to uninstall the software. Before uninstall software, you must stop all software programs first and then log in as "Administrator" Otherwise, it can't be uninstalled completely.

SHUTDOWN WIZARD

Find directory where Shutdown Wizard was installed and run uninstall file. By default, this software is installed in C:\Shutdown Wizard

To be uninstall Shutdown service must be stopped. From windows service can be stopped from task manager (WinShutdownService) or from system prompt **cmd.exe** (as administrator) by command:

C:\WINDOWS\system32>sc stop winshutdownservice



3. SERVICE TRAY APPLICATION.

After installation of the Viewpower PRO, The Installer will leave a shortcut icon on your desktop. Simply click the shortcut. Then it will start the software and display an orange plug icon located in taskbar. To launch the Graphic User Interface (GUI), double click the plug icon or choose "Open Monitor" by clicking right button of the mouse. Refer to below diagram.

Or, use the Start Menu method; Start>All Programs>ViewPower Pro>ViewPower Pro.



3.1. START MONITOR

This software will be automatically activated when installing it as service application. At this time, users can remote monitor UPSs through web browser even though users do not login in operation system.

If service application cannot be registered successfully, when starting up tray service, it will automatically activate monitoring application. If it's failed or stopped manually, simply click "Start Monitor" to activate it.

"Start Monitor" will check if monitoring application is registered as service application. If it's successfully, this software will be activated from service mode. If not, this software will be activated as monitoring mode. Users can identify the application mode from tray icon as below:

- Monitoring application is not activated successfully::
- Monitoring application is activated as service mode: 6
- Monitoring application is activated as monitoring mode:

3.2. STOP MONITOR

Click "Stop Monitor" to stop monitoring application. This command ONLY can be done if software is running as administrator in your operating system. If software is running without administrator authorization, this command will not work.

If you need to stop monitor service you can go to task manager to find the service named "upsProMonitor" to stop it.

3.3. OPEN MONITOR

Monitor service runs in background. To open the graphic interface user must click "Open Monitor" to open monitoring GUI.



3.4. SNMP MANAGER

SNMP Manager is a plugging utility for ViewPower Pro to search and operate all SNMP devices in the LAN. This is a tool for service personnel or trained personnel. It is used for detecting UPS LAN card when Viewpower PRO cannot detect it. SNMP manager is also used for changing type of IP assigned to LAN card, for example from static to dynamic or from dynamic to static. To get more detailed information about SNMP Manager revise Annex 1 of this manual.

3.5. SOFTWARE UPDATE

Software update includes Online Update and Manually Update.



However, we strongly suggest to do all updates by checking if there is a new version in our web: www.xmartups.com. In that case, uninstall old version from your PC, download new version and install it.

3.6. EXIT

Click "Exit" to exit service application. Monitor service will continue working in background so any UPS event will be registered and attended according to configuration.



4. VIEWPOWER-PRO: GRAPHIC USER INTERFACE (GUI)

Viewpower Pro GUI allows user to monitor and control all UPS connected in the network.

GUI also allows to configure actions to be taken on required PCs connected to UPS for each kind of UPS event. For example, user can configure shutdown commands to be sent to PC based on an event detected by UPS like an AC FAILURE state.

When OPEN MONITOR command is executed by right clicking on Task-bar icon, GUI opens in the default navigator. GUI shows in panel form all current and past UPS monitored in this network. Available UPS marked with green circle and not available UPS with red "X".

GUI also can present all UPS in list format by clicking LIST VIEW key on right-upper of the screen

Configuration Schedule View Format Language Hel	p User type:	Guest Login
(192168.103.166_SNMPP01_000000000000) UPS information: (Input information: 238.3V/50.0Hz Output information: 229.8V/50.0Hz Battery information: 41.0V/100%	null(192.168.103.165_SNMPP01_000000000000)	null(192.168.103.164_SNMPP02_0000000000000000000000000000000000
null(192.168.103.163_SNMPP01_0000000000000000000000000000000000	null(192.168.103.162_SNMPP00_000000000000000000000000000000000	null(192.168.103.161_SNMPP03_0000000000000000000000000000000000

Configuration Schedule View Format Language Help User type: Guest Login												
Unassigned						Text view Graphic view						
UPS	Connection status	UPS information	Input information	Output information	Bypass information	Battery information						
UPS1(192.168.107.230_SNMPP01_000000000000)	Connected	Standby mode	214.4V/50.0Hz	0V/0.0Hz		41.0V						
(192.168.103.96_SNMPP01_00000000000000)	Connected	Line mode	220.0V/50.0Hz	229.8V/50.0Hz		81.2V						



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For selecting one of the available UPS, user just need to double click on green circle. At that moment, GUI will open a monitoring screen based on power path format:



- A. **Function Menu:** It offers complete toolset for navigation and setting the GUI.
- B. Login section: It shows user type for current login user. Administrator or Guest. To login as administrator, press login key to introduce password: "administrator"
- C. Shortcut buttons:





Scheduled start/stop UPS functions, Scheduled Battery tests and Wake on LAN schedule.



Event and data logs.

Refresh screen

D. Main Screen: It displays information according to selected functiion.



4.1 STATUS

This screen allows full UPS monitoring: Input / Output and battery information. This section can be accessed by click on the icon:

This information can be presented in different formats. Formats can be selected by clicking on vertical left menu.

STATUS – POWER FLOW CHART:

Configuration Schedule View Forma	it Language Help	User type: Administrator Logout	
📲 🎬 🤒 🕌 💌			
UPS1(192.168.107.230_SNMPP01_0000000000	000)		
PC Status	wer flow UPS info Diagram Environmental information		
Basic information			
Parameters setting	Bypass	LIPS information	
Real-time control	-	UPS mode: Line mode	
Purchasing information		UPS temp.: 21 °C	
Close window			
	Input	Output	
	Input Information Input voltage: 214.5 V	Output Information Output voltage: 239.8 V	
	Input frequency: 50 Hz	Output frequency: 50 Hz	
		Load level: 1 %	
		current. O A	
	Battery Battery information		
	Battery voltage: 41 V		
	Battery capacity: 99 % Remaining backup time: 963 Mir	n	

- Green flow indicates energy paths used under current mode.
- Grey bar means energy paths not used in current state.
- Input information includes input voltage and input frequency.
- Output information includes output voltage, output frequency, load level, and output current.
- UPS information includes UPS operation mode and UPS temperature.
- Battery information includes battery voltage, battery capacity and remaining backup time.



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STATUS <UPS INFO>: it shows UPS information in text format.

Configuration Schedule View Format Language	Help	User type: Administrator Lo	ogout
🖷 🌇 🤒 📳			
UPS1(192.168.107.230_SNMPP01_0000000000000000000000000000000000			
Status Power flow UPS	info Diagram Environmental information		
Basic information			
Parameters setting Battery capacity	(%) Input information		Load level(%)
Real-time control	Input information		
Purchasing information 99	Input voltage 214.3 V		2
Close window	Input frequency 50 Hz		
	UPS information		
	Battery information		
	Output information		

STATUS < **DIAGRAM**>: It shows UPS in 2 axis chart format.

Configuration Schedule View	Format Language Help	User type: Administrator Logout
🛒 🏹 🥺 👔 🕞)	
UPS1(192.168.107.230_SNMPP01_00000	000000000)	
Status Basic information	Power flow UPS info Diagram Environmental information	
	Input voltage	
Parameters setting	Input frequency	
Real-time control	Output voltage	
Purchasing information	Output frequency	
Close window	Current 5 120 -	
	Load level	
	Battery voltage 80	
	UPS temp. 60	
	40	
	20	
	0 - · · · · · · · · · · ·	
		000



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STATUS <**ENVIROMENTAL INFORMATION**>: If external temperature / humidity sensor is connected to SNMP LAN card, this section will show information related to the sensor. Sensor TH is an optional device not included with the UPS. It must be purchased separately. In case no sensor is connected, fields of this section will show in blank.

Confi	guration	Schedule	View	Format	Language	Help		User type:	Administrator	Logout
5		9 👔	۲							
UPS1(192.168.10	7.230_SNMPP	01_00000	000000000000000000000000000000000000000)					
	Status			Powe	r flow UPS	nfo Diagram	Environmental information			
	Status Basic in Parame Real-tin Purchas Close w	formation ters setting ne control ing informatic indow	n	Powe	r flow UPS Temperatu Humid	Info Diagram Environmenta e : 30.5 y : 37.4	Information			



BASIC INFORMATION:

This section shows basic information about the UPS like UPS type and model, quantity of internal batteries and main model specifications.

Configuration Schedule View	Format Language Help		User type: Administrator Logout
🛒 🏹 😕 🖺 💌			
UPS1(192.168.107.230_SNMPP01_0000	000000000)		
Status Basic information Parameters setting Real-time control Purchasing information Close window	UPS type : Input phase/Output phase : Input voltage/Output voltage : Serial number : FW version :	Basic information on-line 1/1 240/240 V 000000000000 00057.05	Battery information Battery group numbers : 2
	UPS purchasing date : Battery purchasing date : UPS Warranty : Batteries Warranty : Battery lifecycle : Reminder: Replace batteries : UPS P/N :	Purchasing information 2012-09-11 2012-09-11 0 Year(s) 0 Year(s) 0 Month(s) Enable	UPS rated information Rated VA : 1000 VA Rated output voltage : 240 V Rated output frequency : 50 Hz Rated output current : 4 A Rated battery voltage : 36 V

PARAMETERS SETTING:

In this section, user can modify main UPS parameters. In this section we describe all possible UPS parameters even your system will only show available parameters for the UPS you are monitoring. Not all UPS have same parameters. For example, online UPS usually have more parameters to configure than interactive UPS.

Confi	iguration Schedule View	Format Language Help		User type: Administrator	Logout
5	🖙 🥺 🖺 🖲				
UPS2(192.168.107.114_SNMPP01_0000	000000000)			
	Status	UPS alarm 🔘 Enable	Disable Apply	Advanced ECO mode	🔾 Enable 💿 Disable 🛛 Apply
Â.	Basic information	Alarm at bypass mode 💿 Enable	O Disable Apply	Green power function	O Enable O Disable Apply
1	Parameters setting	Alarm at battery mode 💿 Enable	O Disable Apply	Cold start	Enable O Disable Apply
ES.	Real-time control	Auto reboot 💿 Enable	O Disable Apply	Bypass not allowed	O Enable O Disable Apply
-	Purchasing information	Bypass when UPS is off 🔘 Enable	Disable Apply	Battery deep-discharge protection	⊙ Enable ◯ Disable Apply
CO	Close window	Converter mode 🔘 Enable	Disable Apply	Site fault detection	O Enable O Disable Apply
		ECO mode 🛛 Enable	Disable Apply	P1 programmable outlet control(battery mode)	O Enable O Disable Apply
			Outlet setting		Battery numbers setting
		Backup time for P1(battery mode)	999 🛉 Min Apply	Numbers in parallel	
			Voltage and frequence	y range for bypass mode	Voltage range for ECO mode
		Maximum voltage	264 😧 V Apply	Maximum voltage	242 V Apply
		Minimum voltage	170 🗘 V 🛛 Apply	Minimum voltage	218 🔹 V Apply
		Maximum frequency	53 🔶 Hz Apply		
		Minimum frequency	47 + Hz Apply		



PARAMETERS SETTING:

UPS ALARM: Enable/Disable audible alarm (beep)

ALARM AT BYPASS: Enable/Disable audible alarm (beep) for bypass mode

ALARM AT BATTERY Enable/Disable audible alarm (beep) for battery mode

AUTO REBOOT: Enable/Disable auto-reboot function when AC main service comes back from long blackout. **BYPASS WHEN UPS OFF:** Enable/Disable bypass mode when UPS is OFF but connected to main AC service **COVERTER MODE:** Enable/Disable frequency converter function.

ECO MODE: Enable/Disable ECO mode.

GREEN POWER: Enable/Disable green-power function that allows UPS automatic shutdown when in battery mode no load is connected to UPS outlets.

COLD-START: Enable/Disable cold-start function to allow UPS to start-up in battery mode.

BYPASS NOT ALLOWED: Enable/Disable BYPASS function. If activated (NOT ALLOWED), UPS never will switch to bypass mode. If inactive (ALLOWED) UPS will go to bypass mode depending of internal configuration.

BATTERY DEEP-DISCHARGE PROTECTION: If activated, UPS will shutdown when Deep protection Battery level is reached. This level is usually configurable and higher than standard low battery level.

SITE FAULT DETECTION: If activated, UPS will generate beep alarm if site wiring problem is detected. Usually Line and neutral swapped.

P1 PROGRAMMABLE OUTLET: If activated, UPS will turn-off programable outlets according to internal configuration. See backup for P1 parameter.

BACKUP FOR P1: Backup for programable outlets can be configured in minutes.

BATTERY NUMBER IN PARALLEL: Allows user to fix de quantity of Battery packs are connected in parallel (internal + external batteries).

VOLTAGE & FREQUENCY RANGE FOR BYPASS

MAX - MIN VOLTAGE: Configures voltage range for bypass mode. When UPS is in bypass mode and input is out of this range, UPS switch to battery mode.

MAX -MIN FREQUENCY: Configures frequency range for bypass mode. When UPS is in bypass mode and input is out of this range, UPS switch to battery mode.

VOLTAGE RANGE ECO

MAX - MIN VOLTAGE: : Configures voltage range for ECO mode. When UPS is in ECO mode and input is out of this range, UPS switch to online mode.

IMPORTANT: For deeper information we suggest to revise user manual of your UPS.



REAL TIME CONTROL:

This section allows to the user to perform control commands in real time. For example: shutdown, start-up, battery tests, etc.

Configuration Schedule View	Format Language Help	User type: Administrator Logout
🛒 🌇 🤒 🔍		
UPS2(192.168.107.114_SNMPP01_00000	00000000)	
Status Basic information Parameters setting Real_time_constrol	Alarm control	UPS turn on/off On Off
Pushasian information	Battery self-test	Outlet control
Close window	10-second self-test : Start Cancel	P1 Time for power-on 0 Vin Start (0 means immediate on)
	Deep discharge test :	Time for power-off 0 🗘 Min Start
	Start Cancel	(0 means immediate off)
	Minute self-test : 0.2 + Start Cancel	

PURCHASING INFORMATION:

User can introduce purchasing information in this section. Software can generate alarm messages based on this information according to EVENT section configuration.

IMPORTANT: Press < APPLY> for saving changes.

Configuration Schedule View Format	Language Help		User type:	Administrator	Logout	
🛒 🗟 🙁 🧐						
UP\$1(192.168.107.230_SNMPP01_00000000000	00)					(enaprise ment)
🙄 Status	I	Purchasing information				
Basic information	UPS P/N	123456789				
Parameters setting	UPS purchasing date	2012-09-11				
Real-time control	UPS Warranty) Year(s)				
Purchasing information	Battery purchasing date	2012-09-11				
Close window	Batteries Warranty	D 🗣 Year(s)				
	Battery lifecycle	D 🗘 Month(s)				
Remi	nder: Replace batteries					
						Apple
						(



4.2. MAIN FUNCTIONS CONFIGURATION.

In this section user can configure all parameters related to UPS and the response of the software for each possible event generated by UPS or electrical service.

User can access this section by clicking on CONFIGURATION link on upper horizontal menu or by clicking on the



Each specific configuration area can be accessed by each individual tab:



PASSWORD:

Allows to modify administrators password

GROUP AREA:

Allows to create groups for available UPS in the network

UPS SETTING:

Allows to group name and group UPS of the network

SMS:

Allows to configure SMS sending messages. (External GSM device is required)

EMAIL:

Allows emails sending configuration

LOAD CONFIGURATION:

Allows to configure shutdown and sllep commands to other PC son the network

EVENT ACTION:

Allows to configure how software will response to each posible event of the UPS and from AC main service.

LOG SETTING:

Allows to configure event and data logging activity

EMD MANAGER:

Allows to configure parameters related to temperature and humidity sensor.

MODBUS COMM SETTING:

Allows to configure parameters for MODBUS communication network

SNMP MANAGER:

Allows to add IP address ranges for scanning additional networks



PASSWORD / AJUSTE DE LA CONTRASEÑA.

Software comes with default password "administrator".

Before configuring any parameter you must login as administrator. Guest users only will be able to monitor UPS but not changing any parameters.

Configurat	ion Schedule	View	Format	Language	Help			User	type: Administrator Logou	t
5	99									
Password	Group area	UPS settin	g SMS	E-mail	Load configuration	Event action	Log Setting	EMD Manager	ModBus communication setting	SNMP Manager
1										
				Admi	nistrator					
			Old passw	ord *						
			New passw	ord *						
		Co	nfirm passw	ord *						
				Ap	oly Reset					

GROUP AREA

User can create UPS groups for an easy monitoring and management. By default, software comes with one group names "unassigned". If user do not crate and assign UPS to new groups, all available UPS will be automatically assigned to "unassigned" group.

Configuration	Schedule View	Format Language	Help		User type: Ac	dministrator Lo	ogout
T	9 👔 오						
Password G	roup area UPS settin	ng SMS E-mail	Load configuration	Event action	Log Settings EMD Ma	inager ModBus	communi SNMP Manager
Group Name 🛦	Background image	Note					
AREA-02		OFFICES		c	(INVESTIGATE)		
AREA-03		HOME		Group Name	UNASSIGNED		
UNASSIGNED		FACTORY	Bac	kground image		Select Customize	
				Note	FACTORY		
					Clear Add Modify	Delete	
			Ma	ximum numbers f	or a device group 15		

To create a new group write group name and select ADD button. You can also add descriptive information in the NOTE field. If ADD button is disable, you can press CLEAR button to enable ADD function.

Note 1: Default group is "UNASSIGNED". This group can be modified but not deleted.



UPS SETTING

In this section user can assign UPS to available groups. If no assignation is made, new UPS will be automatically assigned to "unassigned" group.

Configuration Schedul	e View Format La	anguage Help		User type: Adm	ninistrator Logout	
📲 🛱 🔍 🕯	1 🗨					
Password Group area	UPS setting SMS	E-mail Load configurati	on Event action Log	g Settings EMD Mana	nger ModBus commu	ini SNMP Manager
Group area	▼ Port	device name	e OPT-1.5K	Browse		
Device ID	Protocol	Port	Group area	device name	Address	Note
0000000000000000	SNMPP01	192.168.1.9	UNASSIGNED	OPT-1.5K	OFFICE-01	ADMIN
						Modify Delete

SMS

NOTE: For having capability to send SMS messages an external GSM device must be connected to the RS232 of the PC where Viewpower PRO is installed. This GSM device is not included neither with the UPS nor the software.

In this section user can configure list of SMS receivers Software will send SMS messages according to EVENT ACTION configuration. Each event must be configured to generate a SMS text message if required according to EVENT ACTION configuration section.

guage Help	User type: Administrator	Logout	
mail Load configuration Event action	Log Settings EMD Manager	ModBus communi	SNMP Manager
Receivers Receivers list			
Phone No. Add Delete			
			Apply
	mail Load configuration Event action Receivers Receivers list Phone No. Add Delete	mail Load configuration Event action Log Settings EMD Manager Receivers Receivers list Phone No. Add Delete	Mage Help User type: Administrator Logout Graphic vi mail Load configuration Event action Log Settings EMD Manager ModBus communi Receivers Receivers list Phone No.

CHANGES MUST BE ALWAYS CONFIRMED BY PRESSING "APPLY" KEY.



EMAIL

NOTE: For sending emails it is required the PC where software is installed has access to internet. In this section user can configure information about the email outgoing server and email account to be used to send emails. Emails will be sent to list of receivers configured in this section.

NOTE: Email is sent when an event is detected by UPS if that event has been configured to send an email. Event response must be configured in section EVENT ACTION.

Configuration	Schedule View Format	Language Help		User t	type: Administrator Logo	put	
T	9 👔 🕤						
Password Gr	roup area UPS setting SMS	E-mail Load configu	ration Event action Lo	og Settings EMD Manager	ModBus communication setting	g SNMP Manager	
SMTP server	SMTP server settings mail.xmart-ups.com Port • None SSL O TLS	25	Receivers list	test@xmart-ups.com marketing@xmart-ups.com			
	Exchange server						
Send from	test@xmart-ups.com						
User name	test@xmart-ups.com		E-mail				
	SMTP authentication required						
Password	*****						
Note	Click "Test" button to check if the transmission is successfully Test						
							Apply

CHANGES MUST BE ALWAYS CONFIRMED BY PRESSING "APPLY" KEY.

We recommend to do a TEST after configuring email section to confirm emails can be sent successfully. System will generate a successfully sent message in case configuration is OK. If any problems is detected



SMTP SERVER:	It must indicate the server to be used to send emails
	Examples: <u>smtp.live.com</u> for Hotmail / <u>smtp.gmail.com</u> for Gmail
PORT:	Port number depends of kind of server to be used: NONE: 25 / SSL: 465 / TLS: 587
NONE:	Used by non-secure server like webdomain email servers
SSL:	It is used by email servers with SSL security like gmail
TLS:	Used by emails servers with TLS security like hotmail.
EXCHANGE SERVER:	For Exchange email servers
SEND FROM:	This field must indicates the name of the email account to be used for sending emails
USER NAME:	User name of the email account. Usually same than email account
SMTP AUTHENTICAT.:	It depends of the email account to be used
PASSWORD:	Password of the email account to be used

NOTE: In case of doubts check with your internet provider or responsible of this area in your company.



LOAD CONFIGURATION.

Load configuration can send remote shutdown commands to other computers via intranet or internet. PC are identified by its IP address. In case of doubts about IP address of your PC, please revise ANNEX-1 of this manual. Shutdown or sleep commands are generated by some events that can be configured in EVENT ACTION section. The purpose of a remote shutdown/sleep command is to allow PC to save files and close operating system when required, for example when a long blackout is detected. EVENT ACTION generates shutdown command according to the configured event. Then software sends shutdown command to remote PC configured in LOAD CONFIGURATION section.

For each remote PC to be turned-off, user must configure one dedicated line in this section.

Configuration Sch	edule View Format	Language Help				User type: Ad	ministrator	Logout	
									Continuing
									Graphic View
Password Group a	rea UPS setting SMS	S E-mail Load o	onfiguration Event	action Log Settings	EMD Manager	ModBus communicat	tion setting SN	IMP Manager	
IP All	Browse								
IP address of load	Enabled SSH shutdown	wake on LAN	Power-off option	File to execute when shu	tting Waiting tir	me for load shutdown	When a schedule	ed Execute file	Selected devices
192.168.1.3	No	No	Sleep mode		1		Yes		(192.168.1.9_P01_
192.168.1.5	No	No	Sleep mode		1		No		(192.168.1.9_P01_
192.168.1.23	No	No	Sleep mode		1		No		(192.168.1.9_P01_
L									
								Add	Modify Dele

IP ADDRESS OF LOAD: Enter the IP address of remote computer

POWER OFF OPTION: Selecting type of power off: SHUTDOWN or SLEEP.

WAITING TIME FOR LOAD SHUTDOWN: This is the time software will wait for sending remote command to PC

SELECTED UPS: Configure IP address of the UPS that will produce shutdown event.

WAKE ON LAN: It generates a start-up command to the configured PC when AC main service comes back. It is required configured PC supports this kind of function.

WHEN SCHEDULED SHUTDOWN IS TRIGGERED: To send shutdown command as configured in scheduled actions section.

SELECTED DEVICES: Shows IP of UPS which will generate shutdown command for this PC

FILE TO EXECUTE WHEN SHUTTING DOWN: A file can be executed when shutdown command is sent.

EXECUTE FILE: A file can be executed when an event is detected

ENABLED SSH SHUTDOWN: Some EXsi y Linux OS have SSH functions that allow shutdown by SSL clients without shutdown wizard. Function SSH requires user and password information.

NOTE: ALL remote PC required to receive remote shutdown commands MUST have installed SHUTDOWN WIZARD software.



MANUAL – CONTROL SOFTWARE VER 1.17 UPS WITH LAN CARDS (SNMP)

Each shutdown command line must be created by selecting ADD key. For modifying existing lines press MODIFY key in bottom right corner of the screen. These 2 commands will open an information window like described below. For saving changes press APPLY.

IP address of load	0 . 0 . 0 . 0	
User name Password:		
MAC address :	Auto match Accepts wake on LAN when events occur	
Power-off option File to execute when shutting down Waiting time for load shutdown	 Shutdown • Sleep mode 1 • Min Accepts scheduled device shutdown 	
Execute file Selected devices Note	UPS (192.168.1.9_P01_0000000000000)	
4	Apply Cancel	v



EVENT ACTION

In this section user can configure response of the software for all possible events related to each UPS of the network. In this section is where user configures is software must send messages or shutdown commands when a specific event is detected. Events can be internal or external. Internal events are those related to the UPS like UPS alarms or abnormal states. External events are related to AC main source like AC failure.

For configuring response to events, user must select EVENT ACTION tab, chose protocol P01 and select required UPS. Then relevant events must be selected and configured.

In the image of this section there is an example of configuration for AC FAILURE state.

<WRITE TO EVENT LOG>: In case event required to be registered in the event log.

<LOAD SHUTDOWN>: Shutdown is required for PC related to this UPS (according to LOAD CONFIGURATION).

<UPS SHUTDOWN>: To mark if UPS must be shut down when this event is detected.

<WAITING TIME FOR LOAD SHUTDOWN>: Indicates waiting time until shutdown command is generated. In below image waiting time is 2 min.

<LOAD SHUTDOWN REMINDER>: To activate periodic reminders during shutdown process.

<POP-UP DIALOG BEFORE SHUTDOWN>: To configure time when shutdown message will be displayed.

<WARNING DIALOG INTERVAL>: To configure time between messages.

<WAITING TIME FOR UPS SHUTDOWN>: To configure waiting time to shutdown UPS since the momento event was detected. In below image is 4 min.

<PHONE NUMBER>: Allows to select phone numbers to send SMS when this event is detected.

<EMAIL>: Allows to select emails accounts to send messages when this event is detected.

<EDIT EMAIL>: Opens 2 additional fields to add extra information in emails to be sent.

If neither phone numbers nor email accounts are listed is because they have not been configured previously in SMS and E-mail sections.

Configura	tion Schedule View Format Language	Help				User type: Administrator Logout
	0 🛍 🔿					
Password	Group area UPS setting SMS E-mail	Load configuration	vent action	Log Settings	EMD Manager	ModBus communication setting SNMP Manager
Protocol	P01 VPS Select	▼			Send	by 🔲 wake on LAN 📄 Execute file
Level	Event (192.168.1.9_P01_000000	0000000000)				
	EMD Dry Contact1 alarm	EMD event	-			Vite the event to the log Audible alarm
	EMD Dry Contact2 alarm	EMD event	- 11			Load shutdown Pop-up a warning dialogue (local system only)
	EMD Dry Contact3 alarm	EMD event				✓ UPS shutdown
	EMD Dry Contact4 alarm	EMD event	- 11	Waiting ti	ime for load shutdov	vn 2 Alm
	EMD temperature exceeds the upper limit	EMD event		5		✓ Load shutdown reminder
	EMD temperature becomes lower than the lower lim	EMD event				
	EMD humidity exceeds the upper limit	EMD event		Pop-up di	ialog before shutdov	vn 60 😴 Sec.
	EMD humidity becomes lower than the lower limit	EMD event		v	Varning dialog inter	val 30 🔷 Sec.
	EMD smoke alarm	EMD event		Waiting t	ime for UPS shutdov	vn 4 A Min
0	AC failure	Input event			Phone N	lo. 123456789
	AC recovery	Input event				
	Neutral not connected	Input event	- 11			
A	Site fault	Input event				
	Phase sequence incorrect	Input event	- 11		E-m	ail A test@ument.unc.com
A	Phase sequence incorrect in bypass	Bypass event				v test@xmart-ups.com
A	Input frequency unstable in bypass	Bypass event	- 11			
	On bypass	Bypass event				
0	Charger failure	UPS internal event	- II			Edit E-mail
•	Inverter short-circuited	UPS internal event				
	Over temperature fault	UPS internal event	•			Appiy Default



LOG SETTING

In section user can configure some parameters related to logging function, as refresh frequency in seconds, record interval, etc.

Configuration Schedule View Form	nat Language Help	User type: Administrator	Logout
🖷 🖙 🤒 🖺 💌			
Password Group area UPS setting	SMS E-mail Load configuration Event action	Log Settings EMD Manager	ModBus communi SNMP Manager
Refresh frequency Record interval The max. number of logs for historical data Backup path	2 Sec. 60 Sec. 100000000 (0: unlimited) (Default backup path: \$SOFTWARE_INSTALL_DIR\$\MySQL	Format example: c:\backup\ (data\backup)	
			Apply Default
O Pregúntame cualquier cosa	0 🛤 🛍 🖩 💁 💷 🖉 🛯	🏮 🔕 🍬 🖉 🌍 🔅 🔇	▲ 🖉 🐨 📥 📾 🕼 💭 ESP 11:22 21/02/2017 😼

EMD MANAGER

In case an XMART EMD sensor is connected to the SNMP card of the UPS, parameters of temperature and humidity can be configured in this section.

Some sensor models also includes dry contact inputs for detecting opening of door and windows of the room where UPS is installed.

Revise DRY CONTACT EVENT & CONFIGURATION tab.

Configuration Schedule View Format Langu	age Help	User type: Administrator	Logout
- - - - - - - - - -			
			Graphic view
Password Group area UPS setting SMS E-m	ail Load configuration Event action Log S	ettings EMD Manager	ModBus communi SNMP Manager
Dry contact event Dry contact configuration Alar			
FMD alarming temperature ran	Te FMD alarmin	g humidity range	
	Upper limit 1		
	Lower limit 0	Apply	
📰 🔿 Prequintame cualquier cosa 🛛 🔲 🔚		o n a o i s	🛆 💌 🔟 🍙 🗮 🖼 dri 🎞 ESP 🛛 11:28 🔜



MODBUS COMMUNICATION

Even most common networks are LAN Ethernet types, it is also possible to communicate UPS in a MODBUS network. In this section related parameters can be configured.

Configuratio	on Schedule	View Fo	ormat Language	Help		Us	ser type: Administrator	Logout	
7	9 🔋	۲							
Password	Group area	UPS setting	SMS E-mail	Load configuration	Event action	Log Settings	EMD Manager	ModBus communi	SNMP Manager
Port Device ID Baud rate Data Bit Stop Bit Parity	Modbus Setting Select • 4800 • 8 • 1 • NONE •	Refresh							

SNMP MANAGER

This section allows to add IP ranges to be monitored from SNMP MANAGER tool. See annex 1 of this manual for additional information.

Configuration Sche	dule View	Format	Language	Help		Use	er type: Administrato	r Logout	
🖷 🍞 🥹	۵ 📓								
Password Group are	uPS setting	SMS	E-mail	Load configuration	Event action	Log Settings	EMD Manager	ModBus communi	SNMP Manager
IP address list	192.168.1								
IP address	Add Dele	ete							



4.3 SCHEDULE

This section can be selected from horizontal menú (SCHEDULE) or by selecting quick access key:



Software can be configured to run scheduled activities based on dates and times. These actions can be daily, weekly or only one time. Types of actions to be scheduled are listed below:

- SCHEDULED ON-OFF
- SCHEDULED BATTERY SELF-TEST
- WAKE ON LAN SHEDULE

Every scheduled action must have its own programming line. Select ADD key to include each scheduled action.

Actions are applied over IP configured by its IP address. Write also date and time for each action. In below example, image shows scheduled OFF and ON actions to be executed only once on UPS 192.168.1.3. Below configuration also enables LOAD SHUTDOWN action. It will be applied ONLY if LOAD CONFIGURATION section allows Scheduled Actions from this UPS.

Configura	ation Schedule	View Format	Language	Help	User ty	pe: Administrator Logout	
7	r 🥹 👔	۲					
Scheduled	on/off Schedule	ed battery self-test	Wake on LAN	schedule			
Cycle	UPS off	UPS on	Load shutdown	Operated UPS	-		
Once	2017-02-21 11:47	2017-02-21 11:50	Yes	(192.168.1.9_P01_00		Scheduled on/off setting	
					UPS	Select	
					Frequency	• Once	
						O Daily	
						O Weekly	
					Power off at	2017-02-21 11:47 🔹	
					Power on at	2017-02-21 11:50 🔹	
						✓ Load shutdown reminder	
					Pop-up dialog before shutdown	30 Sec.	
					Warning dialog interval	10 Sec.	
						Add	Delete



4.4 HISTORY / REGISTRO HISTORICO

User can select this section by horizontal menú (VIEW/HISTORY) or by clicking on shortcut key:



This section shows all registered data and events in a determined data range. Type of information listed is described below:

EVENT LOG:

List of events marked to be included in the event log.

Might Colline Herbine	Archivo	rchivo Editar Ver Historial Marcadores Herramientas Ayuda — 🔿 🗙											
Image: Standard 15178/WerkbowerPro/Paper 151485047-selectedIndex=08d3d9-selectedIndex=2 1335 C Q. Buscr Image: Administrator Logout Image: Configuration Schedule View Format Language Help User type: Administrator Logout Image: Configuration Schedule View Format Language Help User type: Administrator Logout Image: Configuration Schedule View Format Event statistics Data Diagram EMD logs Purchasing information UPS (192.168.1.9, Pol_00000000000000) Time period 2017-02-21 Image: Configuration Browse ID Device ID device name Level Date Event Type Image: Configuration Pol 1 192.168.1.9 Q 2017-02-21 Image: Configuration UPS internal event Image: Configuration Image: Configurati	🔀 h	ttp://localhiewPow	verPro/ × +										
Configuration Schedule View Format Language Help User type: Administrator Logout Image: Configuration Schedule View Format Language Help User type: Administrator Logout Image: Configuration Event statistics Data Diagram EMD logs Purchasing information Image: Configuration Image: Configu	1	🗲 🛈 🏛 🛛 localh	ost:15178/ViewPowe	erPro/#app=	13f4&5047-selectedIndex=6&55f	-selectedIndex=0&dad9-selectedIndex=2	Q, Buscar	♣ 俞 ☆	İ		≡	•	
Image: Second	Co	nfiguration	Schedule V	/iew F	ormat Language He	p	User type: Administrator Lo	ogout					
Image: Second	_		-										
Event log Event statistics Data Diagram EMD logs Purchasing information UPS (192.168.1.9_P01_00000000000000) Time period 2017-02-16 = - 2017-02-21 Browse 1 192.168.1.9 0 2017-02-21 115:03.1 Battery self-test passed Battery event 2017-02-21 UPS internal event 2017-02-21 11:0:0:20 Pl outlet power on UPS internal event UPS inte	5		9 🖪 (
UPS (192.168.1.9_P01_0000000000000) Time period 2017-02-16 Image: Point of the period Type 1 192.168.1.9_P01_0000000000000) Time period 2017-02-16 Image: Point of the period Type Print Delete Date Event Type Print Delete all Event Type Point Delete all Event Type Point Delete Delete Point of the period Point period Point of the period Point of the per		t la s	t statistics	Data [unsharing information							
UPS (192.168.1.9_P01_000000000000) Time period 2017-02-16 = - 2017-02-21 Browse 1 192.168.1.9_ device name Level Date Event Type 1 192.168.1.9_ i 2017-02-21 11:50:31 Battery self-test passed Battery event 2 192.168.1.9_ i 2017-02-21 11:50:28 Line mode UPS internal event 3 192.168.1.9_ i 2017-02-21 11:50:20 P1 outlet power on UPS internal event 4 192.168.1.9_ i 2017-02-21 11:50:19 Battery test mode UPS internal event 5 192.168.1.9_ i 2017-02-21 11:47:16 P1 outlet power off UPS internal event 6 192.168.1.9_ i 2017-02-21 11:47:16 P1 outlet power off UPS internal event 7 192.168.1.9_ i 2017-02-21 11:47:16 P1 outlet power off UPS internal event 8 192.168.1.9_ i 2017-02-21 11:46:58 UPS will power off immediately UPS external event 9 192.168.1.9_ i 2017-02-21 05:16:22 Communication established UPS internal event <th>Ever</th> <td colspan="12">Event log Event statistics Data Diagram EMD logs Purchasing information</td>	Ever	Event log Event statistics Data Diagram EMD logs Purchasing information											
OPS (192168.13) Poll_00000000000000000000000000000000000					Time netied 2017								
ID Device ID device name Level Date Event Type 1 192.168.1.9 1 2017-02-21 11:50:31 Battery self-test passed Battery event 1 2 192.168.1.9 1 2017-02-21 11:50:28 Line mode UPS internal event 1 3 192.168.1.9 1 2017-02-21 11:50:20 P1 outlet power on UPS internal event 4 192.168.1.9 1 2017-02-21 11:50:19 Battery test mode UPS internal event 5 192.168.1.9 1 2017-02-21 11:47:16 P1 outlet power off UPS internal event 6 192.168.1.9 1 2017-02-21 11:47:12 Standby mode UPS internal event 7 192.168.1.9 1 2017-02-21 11:47:12 Standby mode UPS external event 8 192.168.1.9 1 2017-02-21 11:46:58 UPS will power off immediately UPS external event 9 192.168.1.9 1 2017-02-21 05:16:22 Communication established UPS internal event 10 192.168.1.9 <	U	PS (192.168	.1.9_P01_0000000	000000000		-02-16 # 2017-02-21 # Brov	vse						
1 192.168.1.9 1 2017-02-21 11:50:31 Battery self-test passed Battery event 2 192.168.1.9 1 2017-02-21 11:50:28 Line mode UPS internal event 3 192.168.1.9 1 2017-02-21 11:50:20 P1 outlet power on UPS internal event 4 192.168.1.9 1 2017-02-21 11:50:19 Battery test mode UPS internal event 5 192.168.1.9 1 2017-02-21 11:47:16 P1 outlet power off UPS internal event 6 192.168.1.9 1 2017-02-21 11:47:12 Standby mode UPS internal event 7 192.168.1.9 1 2017-02-21 11:47:12 Standby mode UPS external event 8 192.168.1.9 1 2017-02-21 11:46:58 UPS will power off immediately UPS external event 8 192.168.1.9 1 2017-02-21 05:16:22 Communication established UPS external event 9 192.168.1.9 1 2017-02-20 17:09:40 Line mode UPS internal event 10 192.168.1.9 0PT-1.5K 1 2017-02-20 17:09:40 Line mode UPS internal event	ID	Device ID	device name	Level	Date	Event	Туре						
2 192.168.1.9 1 2017-02-21 11:50:28 Line mode UPS internal event 3 192.168.1.9 1 2017-02-21 11:50:20 P1 outlet power on UPS internal event 4 192.168.1.9 1 2017-02-21 11:50:19 Battery test mode UPS internal event 5 192.168.1.9 1 2017-02-21 11:47:16 P1 outlet power off UPS internal event 6 192.168.1.9 1 2017-02-21 11:47:12 Standby mode UPS internal event 7 192.168.1.9 1 2017-02-21 11:47:12 Standby mode UPS external event 8 192.168.1.9 1 2017-02-21 11:46:58 UPS will power off immediately UPS external event 9 192.168.1.9 1 2017-02-21 05:16:22 Communication established UPS external event 9 192.168.1.9 1 2017-02-20 17:09:40 Line mode UPS internal event 10 192.168.1.9 0 2017-02-20 17:09:40 Line mode UPS internal event 11 10.124.054.0 0PT-1.5K 1 2017-02-20 17:09:40 Line mode UPS internal event 11 </td <th>1</th> <td>192.168.1.9</td> <td></td> <td>•</td> <td>2017-02-21 11:50:31</td> <td>Battery self-test passed</td> <td>Battery event</td> <td></td> <th></th> <td></td> <td></td> <td></td>	1	192.168.1.9		•	2017-02-21 11:50:31	Battery self-test passed	Battery event						
3 192.168.1.9 0 2017-02-21 11:50:20 P1 outlet power on UPS internal event 4 192.168.1.9 0 2017-02-21 11:50:19 Battery test mode UPS internal event 5 192.168.1.9 0 2017-02-21 11:47:16 P1 outlet power off UPS internal event 6 192.168.1.9 0 2017-02-21 11:47:12 Standby mode UPS internal event 7 192.168.1.9 0 2017-02-21 11:46:58 UPS will power off immediately UPS external event 8 192.168.1.9 0 2017-02-21 05:16:22 Communication established UPS external event 9 192.168.1.9 0 2017-02-21 05:16:22 Line mode UPS internal event 10 192.168.1.9 0 2017-02-20 17:09:40 Line mode UPS internal event 11 100.120.017.02-20 17:09:40 Line mode UPS internal event Insut event 11 100.120.017.02-20 17:09:38 AC recovery Insut event Insut event 11 100.120.017.02-20 17:09:38 AC recovery Insut event Insut event	2	192.168.1.9		õ	2017-02-21 11:50:28	Line mode	UPS internal event					=	
4 192.168.1.9 i 2017-02-21 11:50:19 Battery test mode UPS internal event 5 192.168.1.9 i 2017-02-21 11:47:16 P1 outlet power off UPS internal event 6 192.168.1.9 i 2017-02-21 11:47:12 Standby mode UPS internal event 7 192.168.1.9 i 2017-02-21 11:46:58 UPS will power off immediately UPS external event 8 192.168.1.9 i 2017-02-21 05:16:22 Communication established UPS external event 9 192.168.1.9 i 2017-02-21 05:16:22 Line mode UPS internal event 10 192.168.1.9 i 2017-02-20 17:09:40 Line mode UPS internal event 11 102.168.1.9 OPT-1.5K i 2017-02-20 17:09:40 Line mode UPS internal event 11 102.168.1.9 OPT-1.5K i 2017-02-20 17:09:40 Line mode UPS internal event 11 102.168.1.9 OPT-1.5K i 2017-02-20 17:09:40 Line mode UPS internal event 11 102.168.1.9 OPT-1.5K i 2017-02-20 17:09:40 Line mode	3	192.168.1.9		ň	2017-02-21 11:50:20	P1 outlet power on	UPS internal event						
5 192.168.1.9 Image: Constraint of the state of	4	192.168.1.9		ň	2017-02-21 11:50:19	Battery test mode	UPS internal event					ш	
6 192.168.1.9 0 2017-02-21 11:47:12 Standby mode UPS internal event 7 192.168.1.9 0 2017-02-21 11:46:58 UPS will power off immediately UPS external event 8 192.168.1.9 0 2017-02-21 05:16:22 Communication established UPS external event 9 192.168.1.9 0 2017-02-21 05:16:22 Line mode UPS internal event 10 192.168.1.9 0 2017-02-21 07:09:40 Line mode UPS internal event 11 100.192.168.1.9 0 2017-02-20 17:09:40 Line mode UPS internal event Print 0 Print 0 Delete all Export	5	192.168.1.9		ŏ	2017-02-21 11:47:16	P1 outlet power off	UPS internal event					ш	
7 192.168.1.9 i 2017-02-21 11:46:58 UPS will power off immediately UPS external event 8 192.168.1.9 i 2017-02-21 05:16:22 Communication established UPS external event 9 192.168.1.9 i 2017-02-21 05:16:22 Line mode UPS internal event 10 192.168.1.9 i 2017-02-20 17:09:40 Line mode UPS internal event 11 100.172.00 OPT-1.5K i 2017-02-20 17:09:40 Line mode UPS internal event Print OPt-1.5K i 2017-02-20 17:09:48 AC recovery Input event	6	192.168.1.9		ň	2017-02-21 11:47:12	Standby mode	UPS internal event					111	
8 192.168.1.9 0 2017-02-21 05:16:22 Communication established UPS external event 9 192.168.1.9 0 2017-02-21 05:16:22 Line mode UPS internal event 10 192.168.1.9 0 2017-02-20 17:09:40 Line mode UPS internal event 11 100.156.1.9 0 2017-02-20 17:09:40 Line mode UPS internal event Print 0 Print Delete all Export	7	192.168.1.9		ŏ	2017-02-21 11:46:58	UPS will power off immediately	UPS external event					ш	
9 192.168.1.9 10 2017-02-21 05:16:22 Line mode UPS internal event 10 192.168.1.9 OPT-1.5K 10 2017-02-20 17:09:40 Line mode UPS internal event 11 100.156.1.9 OPT-1.5K 10 2017-02-20 17:09:40 Line mode UPS internal event 11 100.156.1.9 OPT-1.5K 10 2017-02-20 17:09:38 AC recovery Input event V	8	192.168.1.9		ŏ	2017-02-21 05:16:22	Communication established	UPS external event					ш	
10 192.168.1.9 OPT-1.5K 1 2017-02-20 17:09:40 Line mode UPS internal event 11 100.156.1.0 OPT-1.5K 2017-02-20 17:09:38 AC recovery Input event V	9	192.168.1.9		ň	2017-02-21 05:16:22	Line mode	UPS internal event					ш	
11 1001501.0 OPT-1.5K Control of the second	10	192.168.1.9	OPT-1.5K	ň	2017-02-20 17:09:40	Line mode	UPS internal event					11	
Print Delete all Export	11	10216010	OPT-1 5K	Ă		AC recovery	Input.event				_	•	
Print Delete all Export												5	
							Print	Delete	eiete a		Expo	π	
1203 1100 🔲 🛱 🖬 ӣ 🕅 🕅 🕅 🖉 🌀 🌒 🦣 🖉 🤤 🔅 🖏		o 🗆	📄 🕯 🖼	0	w] x] [// D)) 🕘 🍬 🖉 🖨 🔆 S					1	2:03	

EVENT STATISTICS:

Shows events grouped by quantity of appearances.

DATA LOG:

List of data and values marked to be included in the data log.

DIAGRAM:

Shows data and values in graphic mode.

EMD LOGS:

List of temperature and humidity data (ONLY if EMD sensor is connected to SNMP card).



4.5 FORMAT

User can select this section by FORMAT option in horizontal menu. Temperature and data can be format in this section.

Configuration	Schedule	View	Format	Language	Help
	~ ~		Temper	ature unit 🕨	Centigrade
	🥹 📳		Date fo	rmat 🕨	Fahrenheit
	AREA-02	AREA-0	3		
UNASSIGNED	AILA-02		5		
192.168.1.9_SNM	1PP0100000	00000000	000		
UPS inform	nation: 🌔	Line mod	e		
Input inform	nation: 231.2	2V/50.0Hz			
Output inform	nation: 229.8	3V/50.0Hz	:		
Battery inform	nation: 41.0	//100%			

Configuration	Schedule	View	Format	Language	Help	
	~ @		Tempera	ature unit 🌖		
	😕 📳		Date for	rmat 🔰	• YYYY-MM-DD	
					YYYY/MM/DD	
UNASSIGNED	AREA-02	AREA-0	3		YYYY:MM:DD	
19216819 SNM	1PP01000000	0000000	000		MM-DD-YYYY	
					MM/DD/YYYY	
UPS inform	nation: 🦲	Line mod	е		MM:DD:YYYY	
Input inform	nation: 227 5	V/50 0H-			DD-MM-YYYY	
					DD/MM/YYYY	
Output inform	nation: 229.6	V/50.0Hz	<u> </u>		DD:MM:YYYY	
Battery inform	nation: 41.0V	//100%				



4.6 LANGUAGE

Select LANGUAGE option in horizontal menu. In this section, user can select language for menus and information.

Configuration Schedule View For	rmat Language Help	
	English	
📑 🔐 🥹 [🕤	French	
	German	
UNASSIGNED AREA-02 AREA-03	Italian	
19216819 SNMPP010000000000000000	Polish	
152.100.1.5_514141101 000000000000000000000000000000	Portuguese	
UPS information: 🥚 Line mode	Russian	
Input information: 226.7V/50.0Hz	Spanish	
	Ukrainian	
Output information: 229.5V/50.0Hz	Turkish	
Battery information: 41.0V/100%	Czech	
	Chinese(Simplified)	
	Chinese(Traditional)	



ANNEX -1 PC & UPS SHUTDOWN CONFIGURATION

PC SHUTDOWN IN NETWORK:

Software can shutdown multiple PC on network by sending remote commands from Viewpower Pro. Viewpower Pro must be installed at least in one PC of the network. This PC can be named as Master.

PCs required to shutdown can be named as slaves. These PCs must have installed Shutdown Wizard software. They do not require Viewpower PRO software,

If Master PC also requires to be shutdown, it must also have Shutdown Wizard software installed in addition to Viewpower PRO software.

If a shutdown command is sent to remote PC that does not has Shutdown Wizard installed, this PC will simply not shutdown.

As mentioned, at least 1 PC in network must have Viewpower PRO installed. This software must be configured to send remote commands to the network making reference to all IP addresses of PCs to be shutdown.

Shutdown commands are sent as a consequence of an event detected by Viewpower PRO. Once event is detected, it sends commands according to parameters configuration in EVENT ACTION and LOAD CONFIGURATION sections in the Master PC:

LOAD CONFIGURATION: In this section, user can configure IP address of those PC to be shutdown. Revise section **4.2 CONFIGURACION** >> **LOAD CONFIGURATION**, on this manual.

NOTE: To know the IP address of any PC, please revise information at ending of this section.

T 🖓 🤆) 🚯 🤇	•	_							Graphic vie		
Password Group	o area UPS	setting SM	IS E-mail L	oad configuration	Event action	Log Settings	EMD Manager	ModBus communica	tion setting	SNMP Manager		
IP All	IP All Browse											
IP address of load	Enabled SSH	wake on LAN	Power-off option	File to execute w	hen shutting down	Waiting tin	ne for load shutdown	When a scheduled	Execute file	Selected devices		
192.168.1.3	No	No	Sleep mode			1		Yes		(192.168.1.9_P01_		

EVENT ACTION: In this section, user can select the event that will generate shutdown command and its related parameters. For deeper information, check section **4.2 CONFIGURACION** >> **EVENT ACTION**, on this manual.



SHUTDOWN BY TIME:

Shutdown command can be sent after reaching an elapsed limit after event is detected. For example 1 minute after an AC FAILURE condition is detected:

Pa	assword	Group area UPS setting S	MS E-mail Loa	ad configuration	Event action	Log Settings	EMD Manager	ModBus communi	SNMP Manager				
P	rotoco	P01 VPS Select	Tura			Send by	wake on LAN 📃 Exe	ecute file					
Г	level	AC failure	Input event	-			✓ Write the event to the log 📃 Audible alarm						
	1	AC recovery	Input event			L	🖌 Load shutdown 🗹 P	e (local system only)					
		Neutral not connected	Input event				UPS shutdown						
	A	Site fault	Input event	N N	Vaiting time for lo	ad shutdown	1 🔶 Min						
		Phase sequence incorrect	Input event	_	✓ Load shutdown reminder								
	Δ	Phase sequence incorrect in hypass	Rynass event										

SHUTDOWN BY BATTERY LEVEL:

Software can also send shutdown command when defined battery level is reached. For example when batteries level goes down to 50% of total maximum capacity. User just needs to select event named: "BATTERY CAPACITY IS LOWER THAN MINIMUM" and define battery level in % that will trigger shutdown command. In below image software has been configured to send command when 50% is reached. When this level is reached, software will send command to PC in case LOAD SHUTDOWN has been marked.

Passwor	d Group area UPS setting SMS	E-mai	I Load config	Event action	Log Settings	EMD Mana	ModBus co	SNMP Man			
Protoco	Protocol P01 VPS Select Minimum battery capacity setting 50 * %										
Level	Event		,								
	Input frequency unstable in bypass	By 🔺		Send by	wake on LAN	Execute file					
	Battery capacity is lower than minimum cap	Ва			✓ Write the ever	ent to the log 📃	Audible alarm				
	Battery self-test cancelled	Ва			🖌 Load shutdo	wn 🗹 Pop-up a	warning dialogue	(local system or			
	Battery capacity is lower than minimum cap	Ва			UPS shutdow	'n					
	Battery overcharged	Ba	Waiting time for	r load shutdown	1 Mir	, I					
	Battery failed	Ba	Walting time for	field shatdown	•						
	Battery voltage too low	Ba			Load shutdow	wn reminder					
0	Battery self-test passed	Ва	Pop-up dialog b	efore shutdown	60 🔶 Se	ec.					
0	Battery self-test is going to start	Ва	Warnin	g dialog interval	15 🔶 Se	ec.					
	Battery oppositely connected	Ва		Phone No.				•			
4			1111					•			



NOTE: HOW TO KNOW IP OF MY PC:

C:\Users\JP12>ipconfig

In windows IP address can be consulted by Control Panel. Select Network section and double click on the network adapter in use. Press DATAILS option to list IP address related to IPv4.

IP can also be read by cmd.exe command line of the system.

Run "**cmd.exe**" and then execute command "**ipconfig**". This command will list information for all network adapters available. Please take note of IPv4.

Adaptador de Ethernet Conexión de área local:

Sufijo DNS específico para la conexión. . : Vínculo: dirección IPv6 local. . . : fe80::8c05:ded7:d334:e351%22 Dirección IPv4. : 192.168.1.3 Máscara de subred : 255.255.255.0 Puerta de enlace predeterminada : 192.168.1.1



UPS SHUTDOWN:

UPS also can receive shutdown command from software based on waiting time. User must select event that will generate this command and then mark all UPS available. UPS shutdown option must be also marked. Then a waiting time must be configured as described in below image (5 minutes).

Confi	guration Schedule	View For	nat	Language	Help			User type:	Guest	Login		
-	🕎 🥺 👔										aphic view	List
Passwo	ord Group area	UPS setting	SMS	E-mail	Load config	Ever	nt action	Log Settings	EMD Mana	. Mo	dBus co	SNM
Protoc	Protocol P01 UPS Select											
0	AC failure	Input event	^				✓ Write the second	ne event to the lo	g 📄 Audible	alarm		
	AC recovery	Input event					Load sl	hutdown 🗹 Pop	-up a warning o	dialogue	(local system	only)
	Neutral not connecte	Input event				<u>г</u>	✓ UPS sh	utdown				
	Site fault	Input event		Waiting	time for UPS shut	down	4	Min				
	Phase sequence incor	Input event			Phon	e No						
	Phase sequence incor	Bypass event			Thom	ie no.						
	Input frequency unsta	Bypass event										
0	On bypass	Bypass event										
0	Charger failure	UPS internal ev			_					\dashv		
0	Inverter short-circuite	UPS internal ev			E	-mail	✓ test@:	xmart-ups.com				

Shutdown command for any UPS can be related to Battery event, for example: BATTERY CAPACITY IS LOWER THAN MINIMUM, as explained in previous section of this manual. User only needs to select this kind of event and configure it accordingly.

For deeper information we suggest to revise section 4.2 of this manual.

IMPORTANT:

If selected event disappears with enough time before shutdown command has been sent, shutdown process will be cancelled. For example, if software has been configured to shutdown UPS 5 minutes after detecting AC FAILURE event but AC main service comes back 2 minutes before sending shutdown command, software will reset event to inform UPS to eliminate shutdown action. If AC service is reestablished just few seconds before shutdown is completed, probably software will not have enough time to detect new event and inform UPS to stop shutdown process.

On the other hand, if selected event was configured to shutdown PC where software is installed and event is reestablished after PC has been shut down, there will be no way to warn UPS to stop shutdown process since PC is already powered off.



ANNEX – 2 SNMP MANAGER

SNMP MANAGER is an auxiliary software that allows performing some service activities like:

- Searching of SNMP card in the network based on its IP
- Configuring IP address and IP type for SNMP cards (DHCP or Static)
- Upgrade SNMP card firmware
- Password modification for SNMP cards
- Configuring TRAP IP and communication port

You can run SNMP Manager if you have downloaded it from XMART service center or you can simply right click on orange power plug:

 ✓ Start Monitor Stop Monitor SNMP Manager Configuration Https Software Update Open Monitor Exit 	SNMP MANAGER A. Functions M B. SNMP Devic C. Configuratio D. Results: Sho	has 4 main areas: enu: Navigation menu. es: List all XMART SNMP cards in network. n: Configuration functions for SNMP cards. ows results and options for each function.
System Settings Language System Settings Language IP address 192.168.1.9 SNMP status: 1 Use system time: 02/21 192.168.1 192.168.1 192.168.1	MAC address 60-19-29-01-3B-6D SNMP reset enable Reset /2017 11:38:19 Apply Scan Add Del	Basic Info IP settings Online upgrade System manager Static trap address IP address 192.168.1.9 MAC address 60-19-29-01-3B-6D C Output window [12:38:57] 192.168.1.9 Online successfully. [15:57:41] 192.168.1.9 Online successfully. [D



SNMP DEVICE LIST

As soon as SNMP manager opens, it does an automatic scan to find all available SNMP cards in the network.

Scan.

You may also do a manual search of specific IP address by entering the IP range and then click "Scan" button to search.

Add.

Click "Add" button and it will pop up a window to ask for entering specific IP address. Then, click "Apply" button to add IP address (Subnet). Refer to Diagram 3-2.

Delete.

You may select IP address from the list and remove it by clicking "Del" button.

SNMP Status.

It will display SNNP status, 0 or 1, after selecting IP from the IP list. If there is program inside of selected SNMP card, the status becomes 1. If not, it will display 0. If no IP address is selected, it will display --- as default.

Use system time.

If "Use system time" is selected, the SNMP card will apply PC system time.





SNMP MANAGER.

FUNCTIONS.

SYSTEM

Login.

It's necessary to verify ID to remote access SNMP devices. The default password is:

12345678

Step 1: Select System >> Login

Step 2: Enter default password and then click "Login" button. Or click "Cancel" to cancel login.

Logout.

Clear all currently saved passwords.

Quit.

Select "Quit" to exit SNMP Manager.

	SNMP Manager								
S	stem Settings Language								
Γ	IP address	AMA Caddress		Γ	Denis Infe	(ID III			
	192.168.1.9	60-19-29-01-3B-6D			Basic IIIIo	IP settings	Online upgrade	System manager	Static trap address
					IP add	ress 192.16	8.1.9		
					MAC add	ress 60-19-	29-01-3B-6D		
				1		×			
			F	lea	ase enter the IF	o address.			
				192	2.168.10				
	SNMP status: 1	SNMP reset enable Reset		Ap	oply Cance	I			
	Use system time: 02/21/20	017 11:38:19 Apply							
	192 168 1	Roop			-Output window				
	192.168.12	Add			[12:38:57] 19	2.168.1.9 Onli	ine successfully.		
		Del			[15:57:41] 19:	2.168.1.9 Onli	ine successfully.		
				L					



SETTINGS.

BASIC INFO.

User can manually enter basic information of SNMP cards such as UPS name, Address, and Note for verification.

	SNMP Manager								
s	/stem Settings Language								
[1							
	IP address	MAC address		Basic I	1fo	IP settings	Online upgrade	System manager	Static trap address
	192.168.1.9	60-19-29-01-3B-6D			_				
				IP	addre	ss 192.16	8.1.9		
				MAC	addre	ss 60-19-	29-01-3B-6D		
	SNMP status: 1	SNMP reset enable Reset							
	Lise system time: 02/21/20	17 11:38:10 Apply							
			.						
	192 168 1			-Output win	dow-				
	192.168.12	scan		[12:38:57]	102	169 1 0 Onl	ing successfully		
		Add		[15:57:41]	192.	168.1.9 Onl	ine successfully.		
		Del		[16:08:53]	192.	168.1.9 Onl	ine successfully.		
				[16:08:56]	192.	168.1.9 Onl	ine successfully.		

IP SETTINGS.

It allows IP configuration for the SNMP card. IP can be configured as DHCP (automatically obtain IP) or Static.

SNMP Manager											
System Settings Language											
			_		1						
IP address	MAC address		Basic Info IP	o settings	Online upgrade	System manager	Static trap address				
192.168.1.9	60-19-29-01-3B-6D		MAC add	dress 60)-19-29-01-3B-6D]					
			Automatically obtain IP address								
				🔵 Use a	static IP address						
			IP ad	ddress	92.168.1.9]					
			Subnet	t mask 💈	255.255.255.0						
			Default Ga	ateway	92.168.1.1						
SNIMD status: 1	SNIMP reset enable Posst				Apply	•					
Use system time: 02/21/20	17 11:38:19 Apply			DNS		Apply					
192.168.1	Scan	OL	utput window								
192.168.12	Add Del	[1 [1] [1] [1]	2:38:57] 192.16 5:57:41] 192.16 6:08:53] 192.16 6:08:56] 192.16	68.1.9 Onli 68.1.9 Onli 68.1.9 Onli 68.1.9 Onli	ne successfully. ne successfully. ne successfully. ne successfully.						

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FIRMWARE UPGRADE.

IMPORTANTE:

This process must be performed by service personnel only. Before starting upgrading process is mandatory to disable all firewalls in the PC from download will be done. If firewalls are not disabled, downloading process could be interrupted. Sometimes this kind of interruptions can cause a permanent damage in the card.

SNMP Web Manager									
System Settings Language Help									
IP address	MAC address	Basic Info IP settings	Online upgrade	System manager	Static trap addr	ess SMS			
192.168.1.9	60-19-29-01-3B-6D					_			
		FTP server IP address	192.168.1.3	-					
		Target file path	0221-FIRMWARE	-1057\upgrade1 (0 5 7 tar oz Br	owse			
			 Upgrade the 	selected device					
			 Upgrade all u 	in-upgraded devices	5				
			 Force to upgr 	ade all devices					
				0%					
SNMP status: 1	SNMP reset enable Reset		Upgrade Ca	ncel					
Lise system time: 02/21/20	17 16:56:56 Apply								
192.168.1	Scan	Output window							
		Done							
	Add	Stopping snmplnfoServer							
	Del	Done /usr/bip/dbcpDetect.sb							
		rm -rf upgrade1_0_5_2.tar.gz							
		rm -rf /etc/snmpcard.conf							
		cp rc.local /etc/rc.d/rc.local							
		rm -rf install.sh							
		[16:56:51] 192.168.1.1: Upgr	rade is completed.	1					
				-					

PROCEDURE:

Make sure all firewalls are disable.

Select ONLINE UPGRADE tab. Write IP of the PC where download will be done from Search firmware file by BROWSE key Select type of upgrade:

- Only in selected card:
- All cards not upgraded in the network
- All cards in the network (añready upgraded or not)

Press UPGRADE key

If you have not logged in as administrator previously, you will be asked for the password. Introduce: 12345678 Confirm again.

When process ends, results window must show a message like this:

"UPGRADE IS COMPLETE"

If download cannot be done, results window will show up to 5 attempts for upgrading and a final message indicating upgrade failure. Check if all firewalls are disable. Check if network is working OK.



STATIC TRAP ADDRESS.

ONLY for service personnel.

You may configure two static trap addresses and change trap port in SNMP Manager. The default trap port is 162.

😰 SNMP Web Manager								
System Settings Language Hel	p							
IP address	MAC address	Basic Info IP settings Online upgrade System manager Static trap address SMS						
192.168.1.9	60-19-29-01-3B-6D	Tran IP Address						
		Trap to Trap to Tra						
		IP address 1 Communication port 162						
		IP address 2						
		Apply						
		Select device						
		 Select all 						
		Anniv						
SNMP status: 1	SNMP reset enable Reset							
Use system time: 02	2/21/2017 17:08:54 Apply							
		-						
192.168.1	Scan	Output window-						
	Add	Done						
		Stopping snmplnfoServer						
	Der	/usr/bin/dhcpDetect.sh						
		rm -rf upgrade1_0_5_2.tar.gz						
		m - m /etc/snmpcard.cont mv snmpcardch.sh /etc/						
		cp rc.local /etc/rc.local						
		rm -r install.sn reboot						
		[16:56:51] 192.168.1.9: Upgrade is completed.						

NOTE: This software allows SNMP device to send trap messages to 2 static trap addresses and 8 dynamic trap addresses. It will default define host computer with software installed as a dynamic trap address. If communication failure occurs between SNMP card and host computer for over 10 minutes, it will stop sending trap message.



ANEXO -3 COMMUNICATION PORT 162

This software uses port 162 as default to communicate with SNMP card of the UPS. Sometimes firewalls could be blocking this port. Other times, other software could be using same port 162. In any of these 2 situations, Viewpower Pro will have problems to communicate with UPS card.

To know if port 162 is being used by another software, user could revise it from the system command line of the Operating System.

Before doing this procedure make sure Viewpower PRO is stop. If not, results will not determine if port 162 is being used by other software or by Viewpower Pro.

Viewpower PRO can be stop by command "sc stop upspromonitor" from command line.

<u>Run cmd.exe as administrator by right clicking: run as administrator:</u> Then execute command:

C:\WINDOWS\system32>sc stop upspromonitor

SERVICE_NAME : upspromonitor TYPE : 110 WIN32_OWN_PROCESS (interactive) STATUS : 3 STOP_PENDING (NOT STOPPABLE, NOT_PAUSABLE,

Then you should confirm if software is stopped or not. Line command must reply with message STOPPED

C:\WINDOWS\system32>sc query upspromonitor

SERVICE_NAME : upspromonitor TYPE : 110 WIN32_OWN_PROCESS (interactive) STATUS : 1 STOPPED

<u>Now you can proceed to check if port 162 is being used with command netstat as follow. If port is not usedm</u> system prompt will reply with blank line:

C:\WINDOWS\system32>netstat -an | find "162" C:\WINDOWS\system32>

If port is in use, prompt will reply with message like this:

C:\WINDOWS\system32>netstat -an | find "162" UDP 0.0.0:162 *:* UDP [::]:162 *:*

In case other software is using same port 162, find it and stop it. If it cannot be stopped, you could change port number for SNMP card by using SNMP MANAGER as explained in previous ANNEX-2 of this manual.