

# **SNMP Web Pro**

# User's Manual

Management Software for Uninterruptible Power Supply Systems



Direktronik AB tel. 08-52 400 700 www.direktronik.se



# Table of Contents

1.	Overview	1
	1.1 Introduction	1
	1.2 Features	1
	1.3 Overlook	2
	1.4 Installation and Connection	2
	1.5 Configuration	3
	1.6 Monitoring	4
2.	SNMP web pro GUI Function Menu	7
3.	Function Menu	8
	3.1 Information	8
	3.2 UPS setting	9
	3.3 Control	11
	3.4. System configuration	11
	3.5. Log	20
	3.6. Help	22
	-	

## 1. Overview

## 1.1 Introduction

This SNMP web pro can provide web server to monitor and manage multiple UPSs in a networked environment including LAN and INTERNET. It can detect temperature and humidity for the environment via connecting to EMD (Environmental Monitoring Device). The same port is also applied for data transmission. Simply connect to SMS modem for SMS sending with a RJ11 to DB9 cable.

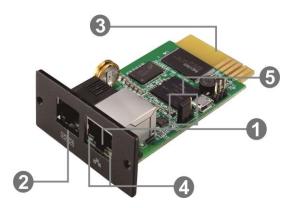
Integrated with Shutdown Wizard, it can not only prevent data loss from power outage and safely shutdown systems, but also store programming data and scheduled shut down the UPS. All UPS warning and fault event records can be kept in SNMP web pro.

Integrated with ViewPower Pro software, it can monitor and remote access all distributed devices with SNMP web pro card in a LAN or INTERNET. For the detailed operations, please check user manual of ViewPower Pro.

## 1.2 Features

- > Open monitor via Web Browser.
- > Offer SNMP MIB to monitor UPS status.
- > Automatically detect and exchange 10M/100M Fast Ethernet.
- > Support wake-on-LAN function.
- Supported protocol such as TCP/IP, UDP, SNMP, SMTP, SNTP, HTTP, HTTPS, SSL, SSH, IPV4/IPV6, DHCP and so on.
- Integrated with Shutdown Wizard, it can prevent data loss from power outage and safely shut down systems.
- Able to store event log more than 200,000 threads, including UPS warnings, faults and EMD warnings, operation data logs from web users or ViewPower pro users. It will be stored safely without loss even when power failure occurs.
- > Support daily reports for event log and data log.
- > Scheduled UPS on/off and battery test.
- > Support EMD monitoring and SMS sending.
- Equipped with real-time clock to record log with date and keep running up to 7 days without power connected.

## 1.3 Overlook



Ethernet port (10/100Base-T)
Sensor port/data transmission port
Golden finger: connects to UPS slot
Ethernet port status LEDs
Jumper setting to restore default setting

#### Ethernet port status LEDs:

100M LED (Green)	On	Port is operating at 100Mbit/s
	Off	Current web bandwidth is 10Mbit/s
Link status LED (Yellow)	Flash	Link Active
	Off	Card is not connected to the network

#### Pin assignment for Jumper:

Pin #	Status	Description
Pin 1 & Pin 2	Closed	Normal operation
Pin 2 & Pin 3	Closed	After re-connecting utility, the IP
		address of SNMP web card and
		password will restore to default setting.
		Default static IP address:
		(192.168.102.230)
		Default password: 12345678

**NOTICE:** After setting is restored to default, be sure to change the jumper setting to connect Pin 1 and Pin 2 for normal operation.

## 1.4 Installation and Connection

#### **Installation**

If using SNMP web card, please follow below steps to install card first: **Step 1:** Remove the cover of intelligent slot on the back panel of UPS and retain the screws

**Step 2:** Slide the card into the open slot and secure with the screws from step 1. (see chart 1-1)



## Chart 1-1

Refer to chart 1-2 for connecting the SNMP web pro.

**Step 3:** Plug Ethernet cable to the Ethernet port (RJ-45) on the SNMP web manager.

**Step 4:** Use one more Ethernet cable. Connect one end to the sensor port on the SNMP web manager and the other end to the optional environmental monitoring device.

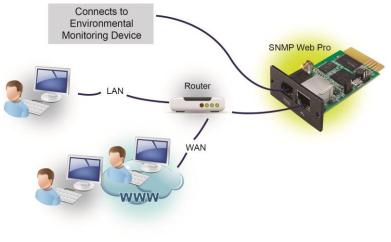


Chart 1-2

## 1.5 Configuration

a) Please install SNMP web manager wizard in your PC. After software is installed successfully, the Installer will leave a shortcut icon on your desktop.



b) Enter specific IP address to search all SNMP devices in LAN. The SNMP web manager is default applied static IP address as 192.168.102.230, default subnet mask as 255.255.255.0, and default gateway as 192.168.102.254. Users can modify IP address or apply DHCP mode through web server of SNMP web pro card, SSH Client or SNMP Web Manager.

SNMP Web Manager	
System Settings Language Help	
IP address MAC address  192.168.107.79 00-00-6E-00-10-23  SNMP status: 1 SNMP reset enable Use system time: 08/17/2012 16:42:01 Apply	Basic Info       IP settings       Online upgrade       System manager       Static trap address         IP address       192.168.107.79       MAC address       00-00-5E-00-10-23         MAC address       00-00-5E-00-10-23       IP address       IP address
192.168.107 Add Del	- Output window [16:42:00] 192.168.107.79 Online successfully.

Chart 1-5

c) User can modify IP setting, online upgrade, password management, and static trap address setting in SNMP Web Manager screen. It is necessary to enter password for any medications. The default password is 12345678.

Please check SNMP Web Manager User Manual for detailed configuration.

## 1.6 Monitoring

There are two ways to monitor:

a) Double click the selected device from the device list (refer to Chart 1-5) to open web page as Chart 1-6 a. Or simply enter https address (http://192.168.107.234) in web browser to access web server directly. Refer to Chart 1-6 b.

avorites 🛛 🍰 🔊 Suggested Sites 👻 🕯	😰 Web Slice Gallery 👻					
SNMP Web Server			<b>公</b> • 1	5 × 🗆 🖷		
SNMP Web Pro 1.0						
			Statu		Login Gues	t
Information						
Status	UPS information	ñ				
Basic information	UPS mode:		UPS temp.: 3			
UPS setting	Auto reboot:		Converter mode: f			
Parameters setting	ECO Mode:		Bypass when UPS is off: I	alse		
Control	Bypass not allowed:	true	Fault type:			
Real-time control	UPS warning:					
System configuration						
Web	Input information					
E-mail	Input voltage:	221.0 V	Input frequency:	50.0 Hz		
SMS Wake on LAN						
Shutdown	Output information					
Event action	Output voltage:	229.8 V	Output frequency:	50.0 Hz		
Scheduled System time	Output current:	0.3 A	Load level: I	5 %		
SNMP configuration						
Log	Battery information					
Event log	Battery voltage:	41.0 V	Battery capacity:	92 %		
Data log	Remaining backup time:					
Help	g					
Serial Port Debug	EMD information					
	EMD finormation EMD temp.:	24.6.0	Humidity:	30.2 %		
	EIVID temp	24.0 0	Humidity.	0.2 /0		

Chart 1-6 a

92.168.107.234		👻 😵 Certificate Error 📓 🍫 💥	₽ Bing	
avorites 🛛 🚖 🙋 Suggested Sites 👻 🙋 W	/eb Slice Gallery 👻			
NMP Web Server		<u>ه</u> -	S • 🗆 🖶 •	Page  Safety  Tools
NMP Web Pro 10				
		Stat		Login Guest
Information				
Status	UPS information	1 mm		
Basic information	UPS mode: Line Mode	UPS temp.	a second s	
UPS setting	Auto reboot: true	Converter mode		
Parameters setting	ECO Mode: false	Bypass when UPS is off.		
Control	Bypass not allowed: true	Fault type:		
Real-time control	UPS warning:			
System configuration				
Web	Input information			
E-mail SMS	Input voltage: 225.4 V	Input frequency:	50.0 Hz	
Wake on LAN				
Shutdown	Output information			
Event action Scheduled	Output voltage: 229.9 V	Output frequency:		
System time	Output current: 0.1 A	Load level:	4 %	
SNMP configuration				
Log	Battery information			
Event log Data log	Battery voltage: 41.0 V	Battery capacity:	93 %	
Help	Remaining backup time: 999 Min			
Serial Port Debug				
outan on booky	EMD information			
	EMD temp.: 26.6 C	Humidity:	73.0 %	

Chart 1-6 b

b) Installed ViewPower Pro software to monitor SNMP web pro. Refer to Chart 1-7.

Please check ViewPower Pro User Manual for detailed monitoring.

Configuration Schedule View Format Language Help	o User type:	Guest Login Graphic view List view
(192.168.103.166_SNMPP01_0000000000000000000000000000000000	null(192.168.103.165_SNMPP01_0000000000000000000000000000000000	null(192.168.103.164_SNMPP02_0000000000000000000000000000000000
UPS information: One node Input information: 238.3V/50.0Hz Output information: 229.8V/50.0Hz Battery information: 41.0V/100%	Disconnected 📀	Disconnected 📀
null(192.168.103.163_SNMPP01_0000000000000000000000000000000000	null(192.168.103.162_SNMPP00_000000000000000000000000000000000	null(192.168.103.161_SNMPP03_0000000000000000000000000000000000
Disconnected 📀	Disconnected 📀	Disconnected 📀

Chart 1-7

# 2. SNMP web pro GUI

SNMP web pro GUI includes function menu, login section and main screen. Refer to Chart 2-1:

SNMP Web Server - Windows Internet Explor	rer					- <b>-</b> X
http://192.168.107.234/			🕶 🗟 🍕 🗙	₽ Bing		• ۹
👷 Favorites 🛛 🚖 🖉 Suggested Sites 🔻 🖉	] Web Slice Gallery 🕶					
SNMP Web Server			合 •	🖾 🔹 🖶	▼ Page ▼ Safety ▼	Tools 🔻 🔞 🕶
SNMP Web Pro 1.0	А		Stat	us	D <sub>Login Guest</sub>	
Information           Basic information           UPS setting           Parameters setting           Control           Real-time control           System configuration           Web           E-mail           SMS           Vake on LAN           Shutdown           Event action           Scheduled           System time           SNMP configuration           Log           Event log           Data log           Help           Serial Port Debug	C UPS information UPS mode: Auto reboot: ECO Mode: Bypass not allowed: UPS warning: Input information Input voltage: Output information Output voltage: Output current: Battery information Battery voltage: Remaining backup time: EMD information	true false 221.0 V 229.8 V 0.3 A 41.0 V 999 Min	UPS temp: Converter mode: Bypass when UPS is off Fault type: Input frequency: Output frequency: Load level: Battery capacity: Humidity:	false false 50.0 Hz 50.0 Hz 6 % 92 %		
Done			👩 🔮 Internet   Prote	cted Mode: On		<b>1</b> 100% ▼

Chart 2-1

- A .SNMP web pro GUI version
- B .Function Menu

It offers complete tool-set for navigation and setting the GUI.

C .Main Screen

It will display information and/or control alternatives according to function menu selected.

D. Login section

It shows user type for current login user. The default password for administrator is "12345678".

# **3. Function Menu**

## 3.1 Information

## 3.1.1. Status

Select Information >> Status. Refer to Chart 3-1. It's shown real-time monitored UPS data including input, output, UPS, battery information and environmental information in table format.

SNMP Web Server - Windows Internet Explorer						_ <b>D</b> _X_
http://192.168.107.234/			▼ 🗟 😽 🗙	₽ Bing		+ م
👷 Favorites 🛛 🚖 🙋 Suggested Sites 👻 🖉 W	eb Slice Gallery 👻					
SNMP Web Server			🟠 🔹	🖾 🔹 🖷 🔹 i	Page 👻 Safety 👻	Tools 🕶 🔞 🕶
SNMP Web Pro 1.0			Stat	us	Login Guest	
Information	UPS information				_	
Status	UPS mormation UPS mode:	Line Mede	UPS temp.:	20.2.0		
Basic information	Auto reboot:	Process Constraint	Converter mode:	Contraction and the second		
UPS setting	ECO Mode:		Bypass when UPS is off:			
Parameters setting	Bypass not allowed:		Fault type:			
Control	UPS warning:		r dan type.			
Real-time control				1	I	
System configuration	Input information					
Web E-mail	Input voltage:	221 0 V	Input frequency:	50.0 Hz	_	
SMS				1.000		
Wake on LAN Shutdown	Output information					
Event action	Output voltage:	229.8 V	Output frequency:	50.0 Hz		
Scheduled	Output current:		Load level:			
System time SNMP configuration			2000 10101			
Log	Battery information					
Event log	Battery voltage:	41 0 V	Battery capacity:	92 %		
Data log	Remaining backup time:		Dattery capacity.	02.70		
Help				1		
Serial Port Debug	EMD information					
	EMD temp.:	24.6.0	Humidity:	80.2 %		
	Lind temp.		, lumidity.			
Done			👩 🌍 Internet   Prote	cted Mode: On	- A	🔍 100% 🔻

Chart 3-1

## 3.1.2. Basic information

Select Information >> Basic information. It includes UPS basic information, battery information and UPS rated information. Refer to Chart 3-2.

	🖉 Web Slice Gallery 👻					
SNMP Web Server			合 •	<b>⊠ • ⊡ ⊕ •</b> I	Page ▼ Safety ▼ 1	ools 🕶 (
SNMP Web Pro 1.0						
			Bas	ic information	Login Guest	
Information	NO 81 20220 - 201					
Status	Basic information			lese .		
Basic information		G1K ON_LINE	Input phase/Output phase:			
UPS setting	Input voltage/Output voltage: UPS FW version:		UPS serial number: SNMP FW version:			
Parameters setting	Equipment attached:		SNWP PVV Version:	1.0.0		
Control	Equipment attached:	SIMMP web pro				
Real-time control	-					
System configuration	Battery information					
Web	Battery group number:	4				
E-mail SMS						
Wake on LAN	UPS rated information					
Shutdown	Rated VA:		Rated output voltage:			
Event action Scheduled	Rated output frequency:		Rated output current:	4.0 A		
System time	Rated battery voltage:	36.0 V		ļ		
SNMP configuration						
Log						
Event log Data log						
Help						
Serial Port Debug						

Chart 3-2

## 3.2 UPS setting

#### 3.2.1 Parameters setting

Some UPS functions can be set and changed via software. Parameter setting includes backup time setting for programmable outlet (P1), battery number setting, voltage and frequency range setting for bypass mode and voltage range setting for ECO mode.

Select UPS setting >> Parameters setting. Refer to Chart 3-4.

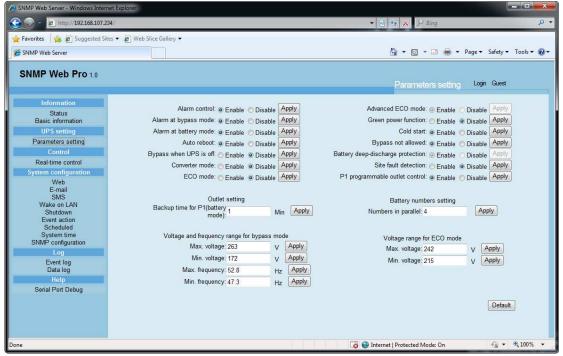


Chart 3-4

**Note:** Different UPSs may access different parameter setting.

- 1. Select the functions by clicking "Enable" or "Disable" button. Change the numbers by clicking up-down arrows or modify the numbers directly in the number column.
- 2. Click "Apply" button to save the settings. Each function setting is saved by clicking "Apply" button in each section.
- 3. Click "Default" button to recover the default setting.

**Note:** Any functions which are not supported by UPS will not be able to access.

- > Alarm Control: If enabled, UPS alarm will be activated. Vice versa.
- Alarm at bypass mode: If enabled, UPS alarms when it's working at bypass mode. Vice versa.
- Alarm at battery mode: If disabled, UPS will not alarm when it's working at battery mode. Vice versa.
- Auto reboot: If enabled, UPS will auto recover when AC is recovering. Vice versa.
- Bypass when UPS is off: If enabled, AC will directly provide power to connected devices when UPS is off. Vice versa.
- Converter mode: If enabled, the UPS will operate in converter mode.
   Vice versa.
- ECO mode: If enabled, the UPS will operate in ECO mode when input voltage is within acceptable range. Vice versa.
- Battery open status check: If enabled, the monitored UPS will check if the battery connection is ok or not when UPS is turned on.
- Cold start: If disabled, the UPS can be turned on only when AC is normally connected to UPS. Vice versa.
- Bypass not allowed: If enabled, the UPS will not transfer to bypass mode under any conditions. If disabled, the UPS will be allowed to transfer to bypass mode according to UPS internal setting.
- Battery deep-discharge protection: If enabled, the monitored UPS shuts down in accordance with the condition of battery and load on battery mode to protect battery. Vice versa.
- Site fault detection: If enabled, the monitored UPS will beep when the input neutral and hot wires are reversed. Vice versa.
- P1 Programmable outlet control (battery mode): If enabled, when UPS is running at battery mode, it will cut off P1 outlets after backup setting time arrives. If disabled, UPS will provide continuous power to P1 outlets until the battery is running out.
- Outlet setting: Users can set limited backup time for P1 outlets when UPS is on battery mode.
- > Battery numbers setting: Set battery numbers in parallel.
- Voltage and frequency range for bypass mode: Set acceptable voltage and frequency range in bypass mode
  - ♦ Maximum and minimum voltage: When UPS is on bypass mode and

input voltage is out of setting range, UPS will enter battery mode.

- Maximum and minimum frequency: When UPS is on bypass mode and input frequency is out of setting range, UPS will enter battery mode.
- Voltage range for ECO mode: Set acceptable voltage range for ECO mode.

## 3.3 Control

## 3.3.1. Real-time control

Select Control >> Real-time control. Refer to Chart 3-5.

SNMP Web Server - Windows Inte	rnet Explorer	
🚱 🍚 👻 http://192.168.107.	234/	👻 😒 😒 🔎 Bing 🛛 🔎 👻
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	ites 🔻 🍘 Web Slice Gallery 👻	
SNMP Web Server		🟠 🔻 🖾 👻 🖃 🖶 👻 Page 👻 Safety 👻 Tools 👻 🕢 👻
SNMP Web Pro 1.0		Real-time control Login Guest
Information Status Basic information UPS setting Parameters setting Control Real-time control System configuration Web E-mail SMS Wake on LAN SMS Wake on LAN SMS Wake on LAN SMS Wake on LAN SMS UVAE SMU SMS UVAE SMS SMS SMS UVAE SMS SMS SMS SMS SMS SMS SMS SMS SMS SM	Alarm control Of UPS turn on/off Or Of Battery self-test 10-second self-test Star Cancel Deep discharge test Star Cancel Minute self-test: 1 Min(s). Star Cancel	
Done		👩 🕒 Internet   Protected Mode: On 🛛 🍕 👻 🔩 100% 👻

#### Chart 3-5

You can real-time control the UPS by executing following operation:

- > UPS turn On/Off: Click "On" to turn on the UPS and "Off" to turn off the UPS immediately.
- Battery Self-Test: It offers three types of battery self-test: 10-second self-test, deep discharge test, and self-defined self-test. Simply clicking "Start" button from each type. It will execute the self-test immediately.

## 3.4. System configuration

#### 3.4.1. Web user

It configures the authority to access SNMP web pro. Please enter access ID and password in each column. There is no limitation to access control in default setting. It is also allowed for http and https modification. The default setting is 80 for http and 443 for https. If any modification for adding web

users, deleting web users or port re-configuration, it's necessary to click "Restart Web Server" button to restart web server to activate all modifications. Refer to Chart 3-6.

SNMP Web Server - Windows Internet	Explorer			▼ 8 4	🕈 🗙 🔎 Bing	L.	× ם _
Favorites 🛛 🚖 🔊 Suggested Sites	▼ 🙋 Web Slice Gallery ▼			ł	) • 🛯 • 🗆 🖶 •	Page ▼ Safety ▼	Tools 🔻 🔞
SNMP Web Pro 1.0					Web	Login Guest	
Information Status Basic information UPS setting Parameters setting Control	*: Restart the web server Web Server Configure			Apply			
Real-time control System configuration Weis E-mail SMS Wake on LAN Shutdown E-went action Scheduled System time SNMP configuration Log E-went log Data log Help Serial Port Debug	User Account User	Name	F	assword	Permission Read Res	Operation Apply tart Web Server	
e				a 🖨 Internet I	Protected Mode: On	<i>4</i> 2 <b>+</b>	100%

Chart 3-6

## 3.4.2. E-mail

It's allowed to send alarm mail by SMTP server. To use this function, the e-mail service must be correctly configured. All values in this function page are default empty. This action can't be executed without the SMTP information, e-mail account and password. Besides, the sender account should be allowed for SMTP/POP3 forwarding.

Select System Configuration >> E-mail. Refer to Chart 3-7

SNMP Web Server - Windows Interr	net Explorer			
🕞 - 🔊 - 😢 http://192.168.107.2	34/	▼	↔ 🗙 🔎 Bing	• م
🚖 Favorites 🛛 🚖 🔊 Suggested Sit	tes 👻 🖉 Web Slice Gallery 👻			
SNMP Web Server			🟠 • 🖾 • 🖂 🖶 •	Page ▼ Safety ▼ Tools ▼ 🔞 ▼
SNMP Web Pro 1.0			E-mail	Login Guest
Information Status Basic information UPS setting Parameters setting Control Real-time control System configuration Web E-mail SMS Wake on LAN Shutdown E-vent action Scheduled System time SIMP configuration Log Event log Data log Help Serial Port Debug	Send Email when E	Password get back Email: Account 1: Account 2: for Daily Report (hh:mm): at 00:00 Event Log overflows (30M):	s (for Daily Report) Apply Delete Apply Delete	Apply     Delete       Apply     Delete
	Send Email when	Data Log overflows (30M): Apply		
Done		🗔 🤤 Interne	et   Protected Mode: On	🖓 👻 🔍 100% 👻

#### Chart 3-7

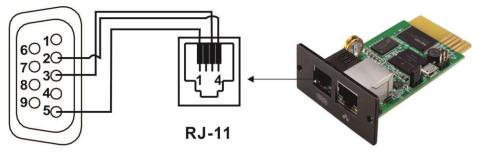
- Enter SMTP server, security type (supported encryption from SMTP server), SMTP port, sender's E-mail address, user name and password. Click checkbox of "Need Auth" for password verify.
- 2. Enter correct e-mail accounts in Receive list. Then, click "Apply" to add into receivers list. Click "Delete" button to delete e-mail account.
- 3. Click "Apply" to save the changes. The "Test" button can be used to send a test e-mail to all receivers to confirm correct operation. When the test e-mails are successfully sent to specific recipients, it will pop up a successful message on operated PC. Otherwise, it will pop up a failure dialog to indicate there is an error for parameter setting.
- 4. You may decide who will receive daily report e-mail at specific duration. Please enter recipient's Email Address and timer into columns. Then, click "Apply" button to set up this action. You also can configure who will receive alarm e-mail when event log exceeds 100 or data log exceeds 50 records. Please click checkbox of selections.
- 3.4.3. SMS
  - Sending SMS By Server

It is required to have service software available such as ViewPower Pro. In the event of an alarm condition occurring, a message about UPS status will be sent to the specified users via mobile phone. Please refer to Chart 3-8 b.

• Sending SMS By Serial Port

It is used EMD port as data transmission to send SMS without any service software. Please configure Baud rate of GSM Modem as 9600 and then connect data transmission port (2) of SNMP web port card to GSM Modem with a RJ11 to DB9 cable. Please refer to Chart 3-8 a for

detailed wiring.



DB-9

Chart 3-8 a

Favorite:	SNMP Web Server - Windows Internet	Explorer	▼ 🖻 🕁 🗙 🔎 8	ng P
Status     1:     Apply       Basic information     1:     Apply       UPS setting     1:     Apply       Parameters setting     0     2:       Control     SMS server:     192.168.102.230       Real-time control     Receive     Apply       System configuration     Pot:     41222       Web     Receive     Apply       E-mail     SMS     Note1:       Status configuration     Note2:     Account name:       Sims     Note1:     Ater apply, you can clck: "Test" button to send a test message.       Note2:     It send SMS by serial port, EMD function will be disabled.       Apply     Test	Favorites A good Server SNMP Web Server SNMP Web Pro 1.0		ණ • ක • SMS	🖃 🌧 🔻 Page 🕶 Safety 🕶 Tools 🕶 🚱
	Basic information UPS setting Parameters setting Control Real-time control System configuration Web E-mail SMS Wake on LAN Shutdown Event action Scheduled System time SIMP configuration Log Event log Data log Help	SMS maximum length: SMS server: 192.168.102.230 Port: 41222 Account name: Password: Note1: After apply, you can click "Test" button to s Note2: If send SMS by serial port,EMD function wi	1: Receive Receive 3: Receive 4:	Apply Delete Apply Delete

Chart 3-8 b

3.4.4. Wake on LAN

It's to remotely wake on specific PCs in LAN when these PCs are supported to Wake-on-LAN (WOL) via a magic packet.

Select System Configuration >> Wake on LAN. Refer to Chart 3-9.

avorites 🛛 🚖 🔊 Suggested Site	es 👻 🖉 Web Slice Gallery 👻			
NMP Web Server			🟠 • 🖾 • 🖾 🖶 •	Page ▼ Safety ▼ Tools ▼
NMP Web Pro 1.0			Wake on LAN	Login Guest
Information	MAC address 01: 00-00-00-00-00	Apply Delete		
Status Basic information	MAC address 02: 00-00-00-00-00 (	Apply Delete		
UPS setting Parameters setting	MAC address 03: 00-00-00-00-00 [	Apply Delete		
Control	MAC address 04: 00-00-00-00-00 [	Apply Delete		
Real-time control	MAC address 05: 00-00-00-00-00 (	Apply Delete		
System configuration Web	MAC address 06: 00-00-00-00-00 (	Apply Delete		
E-mail	MAC address 07: 00-00-00-00-00 [	Apply Delete		
SMS Wake on LAN	MAC address 08: 00-00-00-00-00 (	Apply Delete		
Shutdown Event action	MAC address 09: 00-00-00-00-00 0	Apply Delete		
Scheduled System time	MAC address 10: 00-00-00-00-00 [	Apply Delete		
SNMP configuration	(MAC address format: 01-1F-C6-C7-E0-08)			
Log Event log Data log				
Help				
Serial Port Debug				

#### Chart 3-9

After MAC addresses of remote PCs are entered into address column, it will allow to remote control the PCs. However, it's also required to have hardware support for remote PCs to implement this function.

#### 3.4.5. Shutdown

It is to remotely shut down specific PCs with Shutdown Wizard. This function is only available to integrate with Shutdown Wizard. Please also check user manual of Shutdown Wizard for the details.

Select System Configuration >> Shutdown. Refer to Chart 3-10.

SNMP Web Server - Windows Interne	t Explorer			
🚱 🕞 👻 http://192.168.107.234	1		👻 😽 🗙 🖓 Bing	• ٩
🚖 Favorites 🛛 👍 🔊 Suggested Sites	🔹 🧑 Web Slice Gallery 👻			
SNMP Web Server			🟠 🕶 🗟 👻 📾 🕶 Pa	ge 🕶 Safety 🕶 Tools 🕶 🔞 🕶
SNMP Web Pro 1.0			Shutdown	Login Guest
Information Slatus Basic information UPS setting Parameters setting Control Real-time control System configuration Web E-mail SMS Wake on LAN Shutdown E-vent action Scheduled System time SNMP configuration Log	IP address 01:       0.0.0.0         IP address 02:       0.0.0         IP address 03:       0.0.0         IP address 04:       0.0.0         IP address 05:       0.0.0         IP address 05:       0.0.0         IP address 05:       0.0.0         IP address 06:       0.0.0         IP address 06:       0.0.0         IP address 07:       0.0.0         IP address 08:       0.0.0         IP address 09:       0.0.0         IP address 09:       0.0.0         IP address 10:       0.0.0         IP address 10:       0.0.0         IP address 10:       0.0.0	Apply       Delete         Apply       Delete		
Event log Data log Help Serial Port Debug Done			👩 🕒 Internet   Protected Mode: On	<i>4</i> ∰ ▼ %100% ▼

Chart 3-10

## 3.4.6. Event action

This function is only available to integrate with Shutdown Wizard. Please also check user manual of Shutdown Wizard for the details.

Select System Configuration >> Event action. Refer to Chart 3-11.

SNMP Web Server - Windows Internet Explorer		
E http://192.168.107.234/		• ۹
👷 Favorites 🛛 🚔 🔊 Suggested Sites 🔻 🔊 Web Slice Gallery 👻		
SNMP Web Server	🚹 🔹 🗟 👻 🖃 🖶 👻 Page 👻 Safety	🔹 Tools 👻 🔞 👻
SNMP Web Pro 1.0	Event action Login Guest	1
Information         Status         Basic information         UPS setting         Parameters setting         Control         Real-time control         System configuration         Web         E-mail         SMS         Wake on LAN         Shutdown the PC while low battery.         Apply         Wake on LAN         Shutdown         Shutdown         Shutdown the PC while low battery.         Apply         Wake on LAN         Shutdown         Shutdown         Shutdown the PC while low battery.         Apply         Wake on LAN         Shutdown         Shutdown the PC while low battery.         Apply         Wake on LAN         Shutdown         Shutdown the PC while low battery.         Apply         Shutdown         Shutdown the PC while low battery.         Apply         Basic difference         Shutdown         Basic difference         Shutdown         Basic difference         Shutdown         Basic difference		
	👩 🌚 Internet   Protected Mode: On 🛛 🥠 🔻	<b>€</b> 100% ▼

Chart 3-11

- Shutdown the PC while battery mode: When selected, integrated with Shutdown Wizard, local PC will shut down while UPS works on battery mode.
- Time needed for shutting down the PC: Enter the delay time to shut down the operating system.
- The PC should:
  - 1. Shutdown: When clicking the checkbox, the selected system will shut down. The default setting is clicked.
  - 2. Sleep mode: When clicking the checkbox, selected system will suspend the system instead of a normal shutdown. But this function is only supported by Windows 2000 or higher on supported hardware.
- Also power off the UPS after shutting down the PC: When click the checkbox, monitored UPS will turn off after local system shuts down. The UPS shutdown time will be later than system complete shutdown time. Users can choose to shut down the system without shutting down the UPS.
- Shutdown UPS output after xx sec: It will cut off UPS output after monitored UPS works on battery mode for xx sec.
- Shutdown the PC while low battery: When clicking this checkbox, local PC will shut down when monitored UPS battery is running low.

- Wake on LAN while AC recovery: When clicking this checkbox, the local PC will be wake on LAN while AC recovery.
- Send E-mail while any UPS event occurs: When clicking this checkbox, it will send alarm E-mail when any event occurs on the local UPS.
- Send SMS while any UPS event occurs: When clicking this checkbox, in the event of an alarm condition occurring, a message about UPS status will be sent to the specified users via mobile phone.
- EMD alarming temperature upper limit: Set up alarm for high temperature point. If detected temperature is beyond setting value, it will send alarm message.
- EMD alarming humidity upper limit: Set up alarm for high humidity point. If detected humidity is beyond setting value, it will send alarm message.
- Data record interval xx sec: Data log record the data per xx sec.

#### 3.4.7. Scheduled

Select System Configuration >> Scheduled. Refer to Chart 3-12.

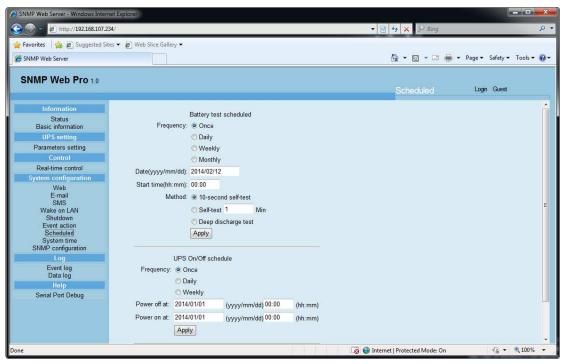


Chart 3-12

- Scheduled battery self-test: Scheduled battery self-test can be executed once, daily, weekly, or monthly. Users can select UPS and time parameters. It is recommended to set only one action in the same time. If multiple actions have been applied at the same time, some of these actions may be ignored. Any action will be ignored when the action is not supported by the UPS.
- Scheduled UPS on/off: Scheduled UPS on/off can be executed once, daily, weekly. Users can select UPS and time parameters. It is

recommended to set only one action in the same time. If multiple actions have been applied at the same time, some of these actions may be ignored. Any action will be ignored when the action is not supported by the UPS.

### 3.4.8. System time

Select System Configuration >> System time. Refer to Chart 3-13.

SNMP Web Server - Windows Interr	et Explorer			
G = http://192.168.107.2	34/		▼ 🗟 44 🗙 🖓 Bing	• م
🚖 Favorites 🛛 🚖 🔊 Suggested Sit	es 👻 🙋 Web Slice Gallery 👻			
SNMP Web Server			🖄 • 🖾 • 🗆 🖷 •	Page 🕶 Safety 🕶 Tools 🕶 🔞 🕶
SNMP Web Pro 1.0			System time	Login Guest
Information Status Basic information	Automatic time correction interval: 12 Hours -	n		
UPS setting Parameters setting Control	Time Zone(Relative to GMT): GMT - Adjust now >>			
Real-time control System configuration Web	System Time (mm/dd/yyyy hh:mm:ss): 01/05/2016 18:41	:52 Apply		
E-mail SMS Wake on LAN Shutdown	Auto Restart System for Every (0: Disable): 0 Mi	inute(s) Apply		
Event action Scheduled System time SNMP configuration	Manual Restart System After 30 Seconds. Apply			
Log Event log Data log				
Help Serial Port Debug				
Done			Internet   Protected Mode: On	🖓 👻 🍕 100% 💌

Chart 3-13

- Automatic time correction interval
- Time server: The SNTP server IP address or domain name.
- Time Zone (Relative to GMT): It's measured to relative to GMT.
- System Time (mm/dd/yyyy hh:mm:ss): It is to set up SNMP web local host time
- Auto Restart System for Every (0: Disable): XX Minute(s)
- Manual Restart system after 30 Seconds: When click "Apply" button, SNMP will restart after 30 seconds.

#### 3.4.9. SNMP configuration

Setting SNMP web pro basic information such as IP address, password, trap IP address, SNMP UDP port, add/delete snmpv3 user account and restore the factory settings.

Note: Some modifications are required to restart snmp server to become

effective.

Select System Configuration >> SNMP configuration. Refer to Chart 3-14 a

and 3-14 b.

SNMP Web Server - Windows Internet E	xplorer				
🚱 🕞 = 🙋 http://192.168.107.234/			* 🗟 *9	× P Bing	, Q
🚖 Favorites 🛛 🚖 🙋 Suggested Sites 🕶	🖉 Web Slice Gallery 👻				
SNMP Web Server			6	▼ 🗟 ▼ 🖃 🚔 ▼ Page	★ Safety      ★ Tools      ★
SNMP Web Pro 1.0	lel		S	SNMP configuration	Logout Administrator
Information	* : System will reboot when this item has been Applied.				<u> </u>
Status	SNMP equipment attached				
Basic information UPS setting	Input:	SNMP web pro	(Less than	32 characters) Apply	
Parameters setting	Network settings				
Control		O Automatically obtain	IP address		
Real-time control		Use a static IP addre	ess		
System configuration	IP address:	192.168.107.234			
Web	Subnet mask:	255.255.255.0			
E-mail SMS	Default gateway:	192.168.102.254			
Wake on LAN	DNS:	0.0.0.0			
Shutdown Event action		Apply			
Scheduled					
System time SNMP configuration	Password				
Log	Old password:				
Event log	New password:				
Data log Help	Confirm password:				
Serial Port Debug		Apply			
Contra to the booking		Second State			
	Trap IP address				
	Trap IP address 01:	0.0.0.0	Apply	Delete	
	Tran IP address 02	0000	Apply	Delete	
Done			😝 Internet   P	rotected Mode: On	🖓 👻 🍕 100% 💌

Chart 3-14 a

e http://192.168.107.234			▼ №	א א µ P Bing		
vorites 🛛 🚖 🔊 Suggested Sites	• 🔊 Web Slice Gallery •					
VMP Web Server			Ċ		▼ Page ▼ Safety ▼ Tool	is 🕶
NMP Web Pro 1.0				SNMP configura	tion Logout Adminis	stra
	Trap IP address 05:	0.0.0.0	Арріу	Delete		
Information Status	Trap IP address 06:	0.0.0.0	Apply	Delete		
Basic information	Trap IP address 07:	0.0.0.0	Apply	Delete		
UPS setting	Trap IP address 08:	0.0.0.0	Apply	Delete		
Parameters setting	Trap IP address 09:	0.0.0.0	Apply	Delete		
Control Real-time control	Trap IP address 10:	0.0.0.0	Apply	Delete		
System configuration	Trap IP address 11:	0.0.0.0	Apply	Delete		
Web	Trap IP address 12:	0.0.0.0	Apply	Delete		
E-mail SMS						
Wake on LAN	SNMP server configuration *					
Shutdown Event action	SNMP port:	161	Apply			
Scheduled System time	Trap receive port:	162	Apply			
SNMP configuration	SNMP community string:	public	Apply			
Log	Add SNMPV3 user:	Add				
Event log Data log	SNMP server control:	Start Stop		Restart		
Help	SNMPV3 User Account*					
Serial Port Debug	User Name	Permission		Op	eration	
	Restore the factory settings*					
	Confirm restore factory settings?	Restore				

Chart 3-14 b

- IP address: There are two methods to obtain IP address
  - 1. Automatically obtain IP address (DHCP, default)
  - 2. Manually configure IP address

The system will default automatically obtain IP addresses. If there is no this kind of service provided in LAN, the default IP will display as "192.168.102.230", Net mask as "255.255.255.0" and default gateway as "0.0.0.0".

- Password: Modify the password. The length of password is 8~15 digits.
- Trap IP address: The SNMP device could provide 12 static trap addresses.
- SNMP server configuration: You may change SNMP port and trap port. You also can add SNMPV3 users by clicking "Add" button. It will pop up a screen to set up user setting such as security level and permission level. Refer to below chart.

SNMP Web Pro 1.0						SNMP con		Logout Administrator
		Trap IP address 05.	0.0.0		Apply	Lielete		
Information		Trap IP address 06:	0.0.0.0		Apply	Delete		
Status Basic information		Trap IP address 07:	0.0.0.0		Apply	Delete		
UPS setting		Trap IP address 08:	0.0.0.0		Apply	Delete		
Parameters setting		Trap IP address 09:	0.0.0.0		Apply	Delete		
Control		Trap IP address 10:	0.0.0.0		Apply	Delete		
Real-time control						Delete		
System configuration Web		Trap IP address 11: SnmpParameterPanel	0.0.0.0		Apply	Delete		
E-mail SMS Wake on LAN Shutdown Event action Scheduled System time SNMP configuration Log	SNMP server con	Note:You have to stop the SNMP se User Name: user1 Auth Protocol: MD5 Priv Protocol: DES Permission: Read Only	vice first.	Security Lew Auth Passwor Priv Passwor cel Apply	d:	uth,NoPriv		
Event log Data log		SNMP server control:		Stop		Restart		
Help								
Serial Port Debug	L	Jser Name	P	ermission			Operation	
	Restore the factor	y settings Confirm restore factory settings?	Restore					

# Restore the factory settings Note: The system will default automatically obtain IP addresses and default Password is 12345678.

## 3.5. Log

## 3.5.1. Event log

In the Event Log page, it lists all history events and can be saved as .csv file. The event log includes UPS warnings, fault info, EMD warnings, UPS operation logs from web users or ViewPower pro users. All logs are recorded in flash memory of web card by month. It's safely recorded without loss even after power failure occurs. It can save up to over 200,000 threads. Refer to Chart 3-15.

Select Log >> Event log.

MP Web Server				
			🔐 • 🔊 •	Page   Safety   Tools
MP Web Pro 1.0				
			Event log	Logout Administrator
Information	at ante			
Status	01_2016.csv - Apply Delet	e1		
Basic information	Time	Event name	Event source	Client IP
UPS setting	01/05/2016 15:36:40	Overload fault	MCU Polling	
Parameters setting	01/05/2016 15:36:41	Connect to time server error	SNTP	
Control	01/05/2016 15:37:44	Setting battery group number	Snmp Client	192.168.103.69
Real-time control	01/05/2016 15:37:45	Setting battery group number	Snmp Client	192.168.103.69
System configuration	01/05/2016 15:37:45	Setting battery group number	Snmp Client	192.168.103.69
Web	01/05/2016 15:38:26	Setting battery group number	Snmp Client	192.168.105.129
E-mail SMS	01/05/2016 15:38:26	Setting battery group number	Snmp Client	192.168.105.129
Wake on LAN	01/05/2016 15:38:26	Setting battery group number	Snmp Client	192.168.105.129
Shutdown	01/05/2016 17:56:11	Setting battery group number	Snmp Client	192.168.105.129
Event action Scheduled	01/05/2016 17:56:11	Setting battery group number	Snmp Client	192.168.105.129
System time	01/05/2016 17:56:12	Setting battery group number	Snmp Client	192.168.105.129
SNMP configuration	01/05/2016 18:42:59	System configuration	Web Browser	192.168.107.129
Log	01/05/2016 18:43:04	Connect to time server error	SNTP	
Event log Data log				
Help	1.2			
Serial Port Debug	13			

Chart 3-15

## 3.5.2. Data Log

In the Data Log page, it will list all history logs and can be save as .csv file. All logs are recorded in flash memory of web card by day. It's safely recorded without loss even after power failure occurs. It can save up to over 200,000 threads. Refer to Chart 3-16.

Select Log >> Data log.

e http://192.168.107.234/				▼	* <del>7</del> ×	₽ Bing	
rorites 🛛 🚖 🔊 Suggested Sites	🔹 🙋 Web Slice Gallery 👻						
MP Web Server					🟠 • 6	] 🔹 🖃 🖶 🖶 Page	▼ Safety ▼ Tools
IMP Web Pro 1.0					Data	og Logout /	Administrator
Information	01 05 2016.csv - A	pply Delete					
Status	01_05_2016.csv •	ppiy Delete		12345			
Basic information	Time	Input voltage(V)	Output voltage(V)	Output frequency(Hz)	Load(%)	Battery voltage(V)	Temp.(°C)
UPS setting	01/05/2016 18:56:21	223.1	229.7	50.0	4	41.0	29.0
Parameters setting	01/05/2016 18:57:21	224.4	229.8	50.0	4	41.0	29.3
Control	01/05/2016 18:58:21	223.2	229.8	50.0	3	41.0	29.3
Real-time control	01/05/2016 18:59:21	222.4	229.6	50.0	4	41.0	29.0
system configuration	01/05/2016 19:00:21	222.3	229.5	50.0	4	41.0	29.3
Web	01/05/2016 19:01:21	224.6	229.7	50.0	4	41.0	29.0
E-mail SMS	01/05/2016 19:02:21	224.4	229.8	50.0	5	41.0	29.3
Wake on LAN	01/05/2016 19:03:21	222.7	229.8	50.0	5	41.0	29.0
Shutdown	01/05/2016 19:04:21	223.0	229.5	50.0	4	41.0	29.3
Event action Scheduled	01/05/2016 19:05:21	223.8	229.9	49.9	4	41.0	29.0
System time	01/05/2016 19:06:21	222.1	229.5	50.0	6	41.0	28.9
SNMP configuration	01/05/2016 19:07:21	223.9	229.9	50.0	4	41.0	29.0
Log	01/05/2016 19:08:21	220.9	229.9	49.9	4	41.0	29.0
Event log	01/05/2016 19:09:21	221.5	229.7	49.9	3	41.0	29.0
Data log	01/05/2016 19:10:21	222.0	229.7	50.0	4	41.0	29.0
Help	01/05/2016 19:11:21	221.7	229.7	50.0	4	41.0	29.0
Serial Port Debug	01/05/2016 19:12:21	223.3	229.6	50.0	4	41.0	29.0
	01/05/2016 19:13:22	224.1	229.8	50.0	3	41.0	29.0
	01/05/2016 19:14:22	221.4	229.8	49.9	5	41.0	29.0
	01/05/2016 19:15:22	223.8	229.7	49.9	5	41.0	29.0

Chart 3-16

## 3.6. Help

## 3.6.1. Serial Port Debug

It's to test communication condition between SNMP card and device.

Select Log >> Event log. Refer to Chart 3-17.

SNMP Web Server - Windows Inter	net Explorer				
🚱 🕞 = 🙋 http://192.168.107.2	34/		▼ 🗟 49 >	< ↓ P Bing	• ٩
👷 Favorites 🛛 👍 🙋 Suggested Sit	tes 👻 🙋 Web Slice Gallery	÷			
SNMP Web Server			<u>ن</u> الأ	🔊 🔹 📑 💌 Page 🕶	Safety 🕶 Tools 🕶 🔞 🕶
SNMP Web Pro 1.0			Se	rial Port Debug	Logout Administrator
Information	Send content:			Send	
Status Basic information				Cond	
UPS setting	Output window:				
Parameters setting					
Control					
Real-time control System configuration					
System contiguration Web E-mail SMS Wake on LAN Shutdown Event action Scheduled System time SNMP configuration Log Event log Data log Help Serial Port Debug					- Clear
Done			🔞 🍚 Internet   Prot	ected Mode: On	🖓 🕶 🔍 100% 💌

Chart 3-17



Direktronik AB tel. 08-52 400 700 www.direktronik.se