

Netmate II

Web-based SNMP Card for UPS

User's Manual

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Chapter 1 Introduction

1.1 Introduction

Netmate II UPS network monitor adapter card is a new standard UPS network centralized monitoring products with delicate design. The function includes Email and SMS warning, task schedule, history event and history data record, etc. Its graphical interface is easy to operate with mature and stable hardware platform, and able to extend various devices through RS485 port (RJ45 form), such as temperature and humidity module, 4i2o signal collecting module, remote power control module, air conditioning infrared module, battery power module, sensors (smoke sensor, water leakage sensor, door contact, sound-light alarm), etc.

1.2 Features

- Network mode: LAN based on IP, Wan, Internet, ADSL, E1, wireless Ethernet, etc;
- Provide the safe and reliable user authority management;
- Built-in optimal IP Power communication protocol, guarantee the real-time data acquisition and make full use of bandwidth;
- Support many configuration management modes such as Telnet, Hyper Terminal, Web browser;
- Support task schedule, UPS timing open/shutdown setting, battery timing discharge, etc;
- Compatible with different brands and types of UPS;
- Support history data and history event record;
- Built-in system clock supports automatic reset to achieve time synchronization;
- Support many network protocols such as SNMP, HTTP, DNS, SMTP, SNTP

DHCP, etc;

- Support to extend 2 channels of temperature and humidity module;
- Support Email alarm;
- Match with SMS alarm service to achieve alarm function.

1.3 Function

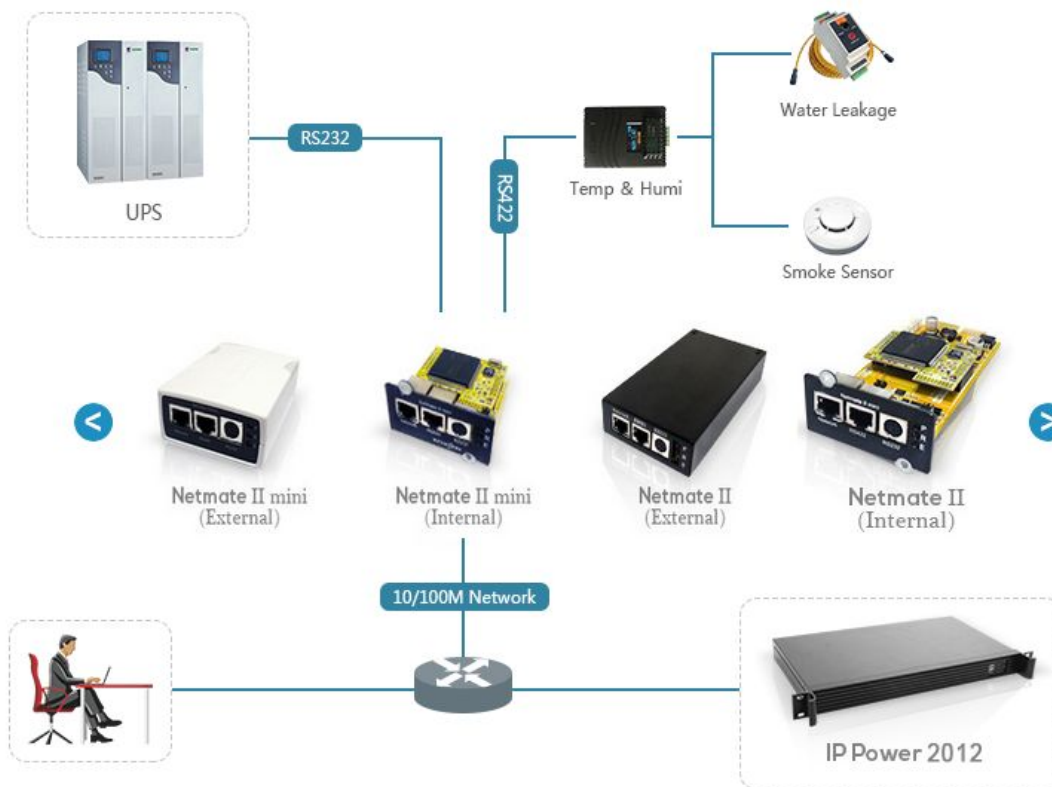
- Remote monitoring for UPS through network;
- User interface based on Web;
- Compatible with multi-brand and multi-type of UPS;
- Support SMS alarm;
- Support Email alarm;
- Multi-user authority management;
- Support DHCP;
- Support remote self-test, shutdown and restart UPS function (Required UPS support);
- Configuration via Telnet, Hyper Terminal and Webpage;
- Task schedule (timing self-test, open / shutdown);
- Record history event and history data;
- Remote monitoring and managing for UPS through HTTP, SNMP, Java applet, Telnet and IP Power software;
- Ability to extend temperature and humidity module;
- Match with IP Power software to achieve centralized monitoring and unified management;
- Match with IP Power software to achieve shutdown protection for client-end.

Chapter 2 Installation Requirement

- A smart UPS with RS-232 communication port;
- A computer with RS-232 serial port and 10M/100M Ethernet adapter for initial configuration;
- An available physical connection to an existing network;

- A complete network environment;
- Function extension equipment, which is used for network monitoring & managing UPS, computer room environment devices (optional).

Chapter 3 Topologies



Chapter 4 Appearance and Installation

4.1 Appearance

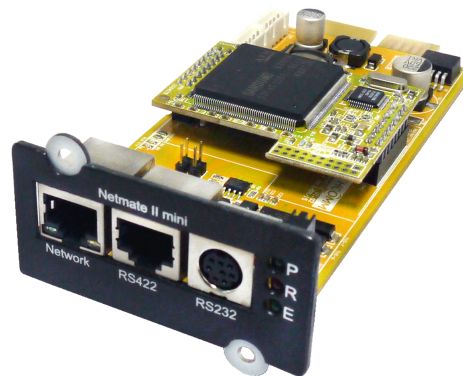
External



Internal



Netmate II mini



Netmate II

- **P:** Power indicator (green), constantly on;
- **R:** Running indicator (red), slow flash shows normal working, constantly on or no flash shows the program NOT running or the system halted;
- **E:** UPS communication indicator (green), constantly on shows device is connected with UPS communication, flash shows the device is disconnected with UPS communication;
- **RS232 Port:** when using hyper terminal to configure, we need to use white configuration cable RS-232 and PS2 → RS232 port cable to connect;
- **RS485:** to extend other devices;
- **LAN:** Interface of UTP 10/100M RJ45 Ethernet.

4.2 Components

Netmate II Mini (Internal)	1 Netmate II Mini card, 1 PS2→RS232 port cable, 1 white configuration cable, 1 IP Power SE CD (including instruction, installation procedure, etc), 1 guarantee card, 1 certificate.
Netmate II Mini & Netmate II (External)	1 Netmate II Mini adapter, 1 PS2→RS232 port cable, 1 white configuration cable, 1 IP Power SE CD (including instruction, installation procedure, etc), 1 guarantee card, 1 certificate, 1 power adapter.

4.3 Installation

Internal: insert the Netmate II internal card to the slot of UPS, and connect it to network via Ethernet port.

External: connect the Netmate II Mini to network via Ethernet port; connect the white configuration cable RS-232 from it to the RS232 port of UPS.

Chapter 5 Web Configuration

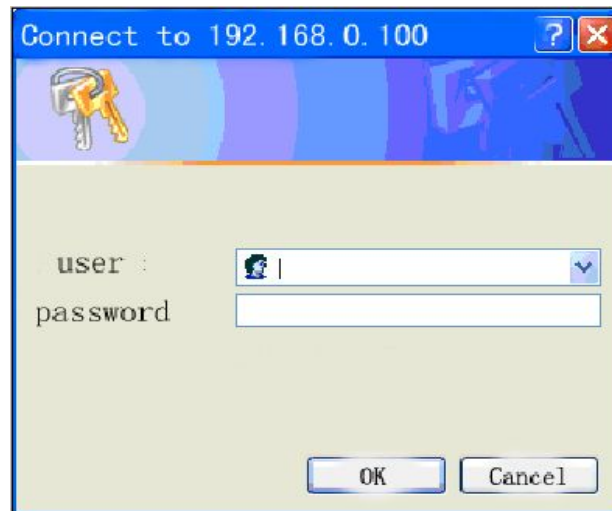
5.1 Login via Web Browser

Netmate II supports HTTP network protocol so that users can login to operate easily via Web browser such as Microsoft Internet Explorer and Netscape. Here we take IE for example.

1.Open an IE browser;

2.Enter the Netmate II IP address (default IP address is 192.168.0.100), the system will display the following interface;

(Users can change the IP according to their own network environment.)



3) Enter User name and Password in the box, its default User and Password are both “admin”.

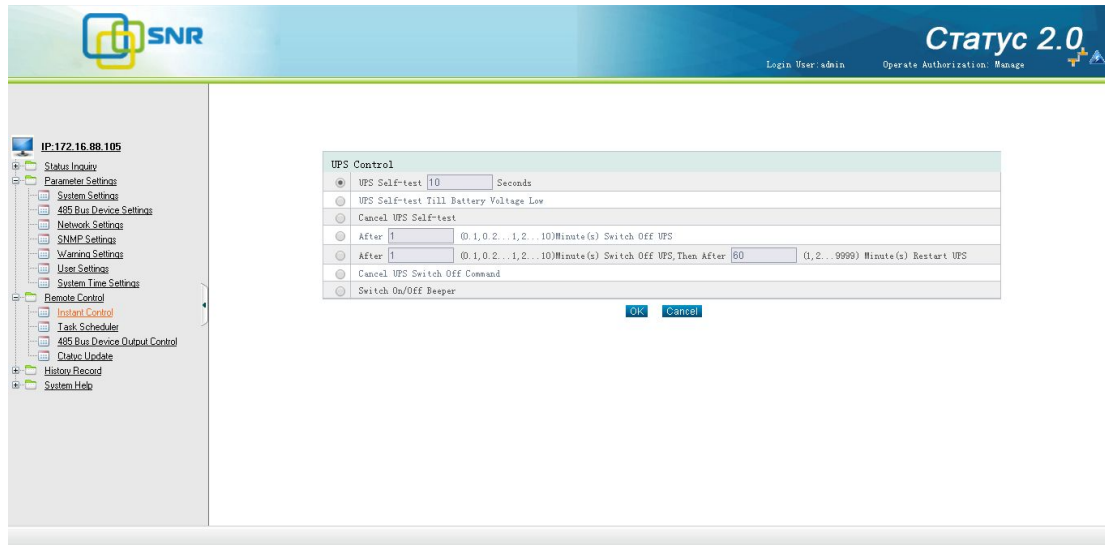
(Users can change the User name and Password.)

5.2 Web Operation

Enter the main function item, the sub-menu items will be shown on the left side of the page. When using this Netmate II for the first time, please enter the [Parameter Settings] menu item to set all the configuration items, and then the UPS status could be correctly displayed by other pages.

Enter Netmate II UPS Webpage, there are 5 main function items in the first Web page:

- **Status Inquiry**
- **Parameter Settings**
- **Remote Control**
- **History Record**
- **System Help**



Netmate II Main Function Item

5.2.1 Status Inquiry

Sub-Menu:

- System Basic Information
- Bus Device Information
- Device Basic Information
- Current Running Status

5.2.1.1 System Basic Information

This page is to display system basic information and network information. Values shown here are either providing by Netmate II itself or they are user settings from the [Parameter Settings] page.

1. Basic Information

This part is to display basic information. Values in System Name/System Administrator/System Installation Position/Hardware Version/Software Version Product Serial Number are provided by Netmate II itself, other values come from user's settings in [Parameter Settings] page.

Basic Information			
System Name		System Current Time	11/22/2012 14:20:07
System Administrator		System Runtime	03:00:02
System Installation Position		Last Self-test Time	
Hardware Version	Ver 5.0-4M-M0	Next Self-test Time	
Software Version	Ver5-57-1-28-01 \$Rev: 918 \$ 11:33:34 Oct 8 2012	Last Switch Off Time	
Product Serial Number	RC-NMII-00E000006B4D	Next Switch Off Time	

A, System Name

This part will display the information automatically when users have finished the settings in [SNMP Settings] page.

B, System Administrator

This part will display the information automatically when users have finished the settings in [SNMP Settings] page.

C, System Installation Position

This part will display the information automatically when users have finished the settings in [SNMP Settings] page.

D, System Current Time

Current Time of Netmate II , it will be refreshed according to users' settings in [System Time Settings] page.

E, System Run Time

Current Run Time of Netmate II .

F, Other information is provided by Netmate II system itself.

2. Network Information

This part is to display network information. The MAC address is provided by Netmate II . All other values in this section come from your settings in [Parameter Settings] page.

Network Information			
IP Address	192.168.0.100	Primary DNS Server	0.0.0.0
Subnet Mask	255.255.255.0	Secondary DNS Server	0.0.0.0
Gateway	192.168.0.1	Primary Time Server	0.0.0.0
MAC Address	00:E0:00:00:6B:4D	Secondary Time Server	0.0.0.0
Online Method		SMTP Server	

A, IP Address

This part will display the information automatically when users have finished the

settings in [Network Settings] page.

B, Subnet Mask

This part will display the information automatically when users have finished the settings in [Network Settings] page.

C, Gateway

This part will display the information automatically when users have finished the settings in [Network Settings] page.

D, Primary DNS Server

This part will display the information automatically when users have finished the settings in [Network Settings] page.

E, Secondary DNS Server

This part will display the information automatically when users have finished the settings in [Network Settings] page.

F, Primary Time Server

This part will display the information automatically when users have finished the settings in [System Time Settings] page.

G, Secondary Time Server

This part will display the information automatically when users have finished the settings in [System Time Settings] page.

H, SMTP Server

This part will display the information automatically when users have finished the settings in [Warning Settings] page.

I, MAC Address

The information is provided by Netmate II system automatically.

5.2.1.2 Bus Device Information

This page is to display analog data status of the signal collection card and environment status, which can be realized by connecting with relevant modules such

as signal collection module, temperature and humidity module, etc.

1. Signal Collect Card Analog Data Status and Signal Collect Card Switch Data Status

Need to connect with signal collection module (4i2o module), after connection, users can set the parameters in [485 Bus Device Settings] page.

Signal Collect Card Analog Data Status----Offline			
Name	Data/Unit	Exceed Warning Data Upper Limit	Lower Than Warning Data Lower Limit
Analog Data1	0.00 ()	Normal	Normal
Analog Data2	0.00 ()	Normal	Normal
Analog Data3	0.00 ()	Normal	Normal
Analog Data4	0.00 ()	Normal	Normal
Analog Data5	0.00 ()	Normal	Normal
Analog Data6	0.00 ()	Normal	Normal
Analog Data7	0.00 ()	Normal	Normal
Analog Data8	0.00 ()	Normal	Normal

Signal Collect Card Switch Data Status----Offline			
Name	Warning	Name	Warning
Switch Data1	Normal	Switch Data2	Normal
Switch Data3	Normal	Switch Data4	Normal
Switch Data5	Normal	Switch Data6	Normal
Switch Data7	Normal	Switch Data8	Normal
Switch Data9	Normal	Switch Data10	Normal
Switch Data11	Normal	Switch Data12	Normal
Switch Data13	Normal	Switch Data14	Normal
Switch Data15	Normal	Switch Data16	Normal

2. Environment Status (total 2 Bus)

Need to connect with temperature and humidity module, after connection, users can set the parameters in [System Settings] page.

Environment Status(total 2 Bus)						
Route Index	Temperature	Temp Over	Temp Down	Humidity	Humidity Over	Humidity Down
Module 1	Offline	Offline	Offline	Offline	Offline	Offline
Module 2	Offline	Offline	Offline	Offline	Offline	Offline

5.2.1.3 Device Basic Information

This part is to display basic information of each part of the device (UPS Basic Information, Battery Information, Rating Information and Warning Definition Information. The content will change according to users' settings and UPS real situation.

1. Basic Information

Information about UPS Manufacturer/Model/Type/Version/Current System Time is

provided by the UPS automatically.

Basic Information			
Manufacturer	richcomm	Model	UPS 5K-11A
Type	ON LINE	Version	Version1.0
Current System Time	05/13/2011 11:27:32		

2. Battery Information

Values here are current battery information of UPS.

Battery Information			
Battery Number	3	The Latest Battery Change Time	10/01/2010
Battery Charge Voltage	0.00 V	Battery Used Time	224 Day 11:28:01

A, Battery Number

Display the battery number of the UPS. This part will display the information automatically when users have finished the settings in [System Settings] page.

B, Battery Charge Voltage

Display the battery Charge Voltage. This part will display the information automatically when users have finished the settings in [System Settings] page.

C, The Latest Battery Change Time

Display the latest battery change time. This part will display the information automatically when users have finished the settings in [System Settings] page.

D, Battery Used Time

Display battery used time, the information will be provided by Netmate II automatically.

3. Rating Information

Values here are all provided by the UPS automatically.

Rating Information			
Rating Output Voltage	220.0 V	Rating Battery Voltage	02.55 V
Rating Frequency	50.0 Hz	Rating Current	100 A

4. Warning Definition Information

This part will display the information automatically when users have finished the settings in [System Settings] page.

Warning Definition Information			
Offline	Inquiry Time	1000 Millisecond	
	Inquiry Times	3	
Input Voltage	Upper Limit	0.00 V	
	Lower Limit	0.00 V	
Load Upper Limit	0.00 %	Battery Low Electric Level	30.30 V
Temperature Upper Limit	0.00 C(32.00 F)	Battery Life	04/20/2023

A, Offline Inquiry Time

Display the inquiry time interval whether UPS is offline. This part will display the information automatically when users have finished the settings in [System Settings] page.

B, Offline Inquiry Times

Display the inquiry times whether UPS is offline. This part will display the information automatically when users have finished the settings in [System Settings] page.

C, Input Voltage Upper Limit

Display the input voltage upper limit of UPS. This part will display the information automatically when users have finished the settings in [System Settings] page.

D, Input Voltage Lower Limit

Display the input voltage lower limit of UPS. This part will display the information automatically when users have finished the settings in [System Settings] page.

E, Load Upper Limit

Display the added load upper limit values. This part will display the information automatically when users have finished the settings in [System Settings] page.

F, Temperature Upper Limit

Display the temperature upper limit values. This part will display the information automatically when users have finished the settings in [System Settings] page.

G, Battery Low Electric Level

Display the battery low electric level values. This part will display the information automatically when users have finished the settings in [System Settings] page.

H, Battery Life

Display the battery life values. This part will display the information automatically

when users have finished the settings in [System Settings] page.

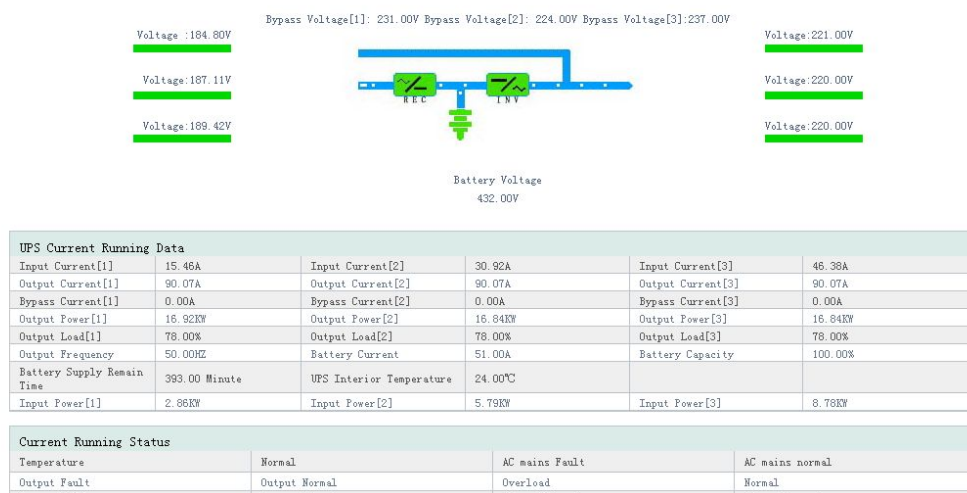
5.2.1.4 Current Running Status

This part is to display the current UPS all kinds of running status values and running status chart. You can check the current running status of the UPS clearly, when an abnormal status condition happens, values here will be shown in red (single-phase).

Single-phase UPS Running Page



Three-phase UPS Running Page



Basic Information

The current values about Input Voltage/Input frequency/Battery Voltage/Battery Content/UPS Temperature/Environment Temperature/ Environment Humidity/Output Voltage/Output Max Voltage/Output Min Voltage/ Current Load are displayed here.

Current Running Status

The current running status about connection/AC/Switch/UPS/Working /Battery /Testing/Beep is displayed here.

5.2.2 Parameter Settings

Sub-Menu:

- **System Settings**
- **485 Bus Device Settings**
- **Network Settings**
- **Warning Settings**
- **User Settings**
- **System Time Settings**

5.2.2.1 System Settings

This page is to set UPS basic parameter, warning definition, UPS warning and switch off setting, it can also add or revise UPS load device.

1. Basic Parameter Settings

This part is to set up the UPS basic parameter. The communication protocol is default, Baud Rate/ Battery Type/ Battery Charge Voltage/Latest Battery Change Time need to be set according to users UPS real situation. (Please refer to the UPS manual)

Basic Parameter Settings	
Communication Protocol	MEGATEC 3To3
Protocol Version	0
Device Address	0
Baud Rate:	2400
Battery Type:	2V
Battery Number	0
Battery Charge Voltage	0.00
Latest Battery Change Time	10/01/2010 M/D/Y

2. Warning Definition Settings

Warning Definition Settings			
Smart Device Control Parameter	Inquiry Time	1000 Milliseconds	Offline Times
			3
Input Voltage	Upper Limit	0.00	
	Lower Limit	0.00	
Load Upper Limit	0.00	Battery Low Electric Level	0.00 (single)
Temperature Upper Limit	0.00	Battery Life	12/12/2015 M/D/Y
Current Upper Limit	0.00 A	Battery Offline Low Electric Level	0.00 (single)
Three Phases UPS No Phase Alarm Enable <input type="checkbox"/>	Phase A Voltage Lower Limit(0~200)	0 V	
	Phase B Voltage Lower Limit(0~200)	0 V	
	Phase C Voltage Lower Limit(0~200)	0 V	

A, Inquiry Time

Set the inquiry interval time to check whether UPS is offline.

B, Offline Times

Set the inquiry times to check whether UPS is offline. If UPS status is always offline during the inquiry times, the system will judge the UPS offline and send warning.

C, Input Voltage Upper Limit

Set current voltage upper limit, if the UPS input voltage exceeds the upper limit value, the system will send the warning.

D, Input Voltage Lower Limit

Set current voltage lower limit, if the UPS input voltage is lower than the Lower limit value, the system will send warning.

E, UPS Load Upper Limit

Set current load upper limit, if the UPS load exceeds the upper limit value, the system will send warning.

F, UPS Battery Low Electric Level

Set current UPS battery voltage lower limit, if the UPS battery voltage is lower than the lower limit value, the system will send warning.

G, UPS Temperature Upper Limit

Set current UPS temperature upper limit, if the UPS temperature exceeds the upper limit value, the system will send warning.

H, UPS Battery Life

Set current UPS battery life, if the UPS battery used time exceeds the Battery Life, the system will send warning.

3. UPS Warning, Switch Off Settings

This part is to set whether send Warning and Switch Off message when the UPS is abnormal. This part can also set the Switch Off Delay Time after sending warning message and before the Switch Off starts.

UPS Warning, Switch Off Settings				
Event	Warning	Switch Off	Switch Off Delay Time(Minute)	
AC Power Supply Break	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="0"/>	
UPS Battery Voltage Low	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="0"/>	
UPS Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="0"/>	
UPS Offline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="0"/>	
UPS Bypass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="0"/>	
Input Voltage Abnormal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="0"/>	
UPS Over Load	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="0"/>	
UPS Over Temperature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="0"/>	
UPS Battery Low Electric Level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="0"/>	
UPS Battery Overdue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="0"/>	
UPS Switching Off Status	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="0"/>	
UPS Testing Status	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="0"/>	
Switch Off Task to be Executed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="0"/>	

4. Load Device List

This part can list the server's name and IP; it is convenient for user to manage.

Load Device List			
Serial Number	Device Name	IP Address	Operate
1	-	0.0.0.0	Modify
2	-	0.0.0.0	Modify
3	-	0.0.0.0	Modify
4	-	0.0.0.0	Modify
5	-	0.0.0.0	Modify
6	-	0.0.0.0	Modify
7	-	0.0.0.0	Modify
8	-	0.0.0.0	Modify
9	-	0.0.0.0	Modify
10	-	0.0.0.0	Modify

5.2.2.2 485 Bus Device Settings

This page is to set up the signal collect card parameters. It needs to connect signal collect module and enable the bus collect card in [system settings] page, which support 4 channels dry contact signal input and 2 channels output control.

1.485 Bus Device Configuration Parameter

This part is to set up Inquiry Time Interval/Offline Times/Respond Await Time/Temperature and Humidity module Numbers of 485 Bus Device; it can also enable the Bus Collect Card.

485 Bus Device Configuration Parameter			
485 Bus Device	Inquiry Time Interval	<input type="text" value="5"/> Seconds	Offline Times
	Respond Await Time	<input type="text" value="2000"/> Milliseconds	Remote Power Control Module Number
	Enable Bus Collect Card	<input type="checkbox"/>	Temperature and Humidity Module Number
	Enable Battery Module	<input type="checkbox"/>	Infrared Module Number
	Electricity Detected Module Number	<input type="text" value="0"/> (Max: 8)	

A, Inquiry Time Interval

Set inquiry time interval to check whether the device is offline.

B, Offline Times

Set inquiry offline times to check whether the bus device is offline. If bus device is offline all the time during the set inquiry times, the system will judge the bus device offline and send warning.

C, Respond Await Time

Set respond await time.

D, Enable Bus Collect Card

Set in order to start the bus collect card.

E, Temperature and Humidity Module Number

Set temperature and humidity module extending number.

2. Temperature and Humidity Alarm Settings

This part is to set up the Upper and Lower limit of temperature and humidity, it can also set up the tolerance numerical value of temperature and humidity. It will send warning messages when the temperature and humidity of UPS exceeds the limit. (This part needs to connect the temperature and humidity module)

Temperature And Humidity Alarm Settings										
Module Number	Describe	Temperature Alarm Upper Limit	Temperature Alarm Lower Limit	Temperature And Linkage of Infrared Module Select	Temperature Tolerance Numerical Value	Humidity Alarm Upper Limit And Linkage of Discharge Module Select		Humidity Alarm Lower Limit And Linkage of Discharge Module Select		Humidity Tolerance Numerical Value
Module 1		0.00	0.00	None	0.00	0.00	None	0.00	None	0.00
Module 2		0.00	0.00	None	0.00	0.00	None	0.00	None	0.00

A, Alarm Description

Set alarm description, it is convenient for users to distinguish the alarm position.

B, Temperature Alarm Upper Limit

Set current temperature alarm upper limit, if the UPS temperature exceeds the upper limit value, the system will send warning.

C, Temperature Alarm Lower Limit

Set current UPS temperature alarm lower limit, if the UPS temperature is lower than the lower limit value, the system will send warning.

D, Temperature Tolerance Numerical Value

Set temperature tolerance numerical value.

E, Humidity Alarm Upper Limit

Set current humidity alarm upper limit, if the humidity exceeds the upper limit value, the system will send warning.

F, Humidity Alarm Lower Limit

Set current humidity alarm lower limit, if the humidity is lower than the lower limit value, the system will send warning.

G, Humidity Tolerance Numerical Value

Set humidity tolerance numerical value.

5.2.2.3 Network Settings

This page is to set Basic Network Settings/DNS Server Settings/Enable Options,

which is used to communicate with UPS via network.

1. Basic Network Settings

Basic Network Settings	
MAC Address	00:E0:00:00:6B:4D
IP Address	<input type="text" value="192.168.0.100"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="192.168.0.1"/>
IP Access Method	<input type="button" value="Manual Setting"/>

A, IP Access Method

When choosing DHCP Auto Access, IP address/Subnet Mark/Gateway items will turn gray, user cannot modify it. When choosing Manual Setting, user can modify it.

B, Other Items

The MAC Address is provided by Netmate II, user can not reset it. Users can set the IP Address, Subnet Mark, and Gateway freely according to real situation, but the IP Address should not be conflicted with other IP.

2. DNS Server Settings

DNS Server Settings	
Primary DNS Server	<input type="text" value="0.0.0.0"/>
Secondary DNS Server	<input type="text" value="0.0.0.0"/>

User can set the Primary DNS Server and Secondary DNS Server IP address, when the Primary Server can not work normally, the system will choose the Secondary DNS Server IP address.

3. Enable Options

User can set the Enable Options, including Enable SNMP/ Enable GSM/ Enable TELNET/ Enable HTTP/ Enable IPPOWER.

Enable Options			
<input checked="" type="checkbox"/>	Enable SNMP		
<input type="checkbox"/>	Enable GSM		
<input checked="" type="checkbox"/>	Enable TELNET	Port	<input type="text" value="23"/>
<input checked="" type="checkbox"/>	Enable HTTP	Port	<input type="text" value="80"/>
<input checked="" type="checkbox"/>	Enable IPPOWER	Password	<input type="text" value="RICHCOMM"/> Port <input type="text" value="0"/> 0 is default
<input type="checkbox"/>	Enable Card to Card	Server	<input type="text" value="Client"/> <input type="text" value="255.255.255.255"/> (Server IP)

A, Enable SNMP

Choose whether enable SNMP (Simple Network Management Protocol), that is to say, users can choose whether allow users to monitor and manage UPS via SNMP

Network Management software.

B, Enable GSM

Choose whether enable GSM, that is to say, users can choose whether allow users to monitor and manage UPS via GSM.

C, Enable TELNET

Choose whether enable TELNET, that is to say, users can choose whether allow users to remote login Netmate II Web Server via TELNET. After choosing Enable TELNET, users still need to set the needed port number of Netmate II Web Server via TELNET.

D, Enable HTTP

Choose whether enable HTTP, that is to say, users can choose whether allow users to login Netmate II Web Server via Web browser. After choosing Enable TELNET, users still need to set the needed port number of Netmate II Web Server via Web browser.

E, Enable IPPOWER

Choose whether enable IPPOWER, that is to say, users can choose whether allow users to monitor and manage UPS via IPPOWER software. After choosing Enable IPPOWER, users still need to set the needed communication password of IPPOWER software and Netmate II .

5.2.2.4 SNMP Settings

This page is to set the relevant needed settings, when the Netmate II is matched with SNMP software, including Basic Settings, Authorization Settings and TRAP Settings.

1. Basic Settings

Basic Settings	
System Name	<input type="text"/>
System Administrator	<input type="text"/>
System Installation Position	<input type="text"/>

A, System Name

Name the Netmate II .

B, System Administrator

Set the administrator of the Netmate II .

C, System Installation Position

Set Netmate II installation location.

(The Basic Settings is convenient for centralized monitoring and management, when using many devices. Users can inquire each device fast and simply)

2. Authorization Settings

Authorization Settings		
Authorized IP Address	Community	Authorization
<input type="text" value="0.0.0.0"/>	<input type="text"/>	No Authorization <input type="button" value="v"/>
<input type="text" value="0.0.0.0"/>	<input type="text"/>	No Authorization <input type="button" value="v"/>
<input type="text" value="0.0.0.0"/>	<input type="text"/>	No Authorization <input type="button" value="v"/>
<input type="text" value="0.0.0.0"/>	<input type="text"/>	No Authorization <input type="button" value="v"/>
<input type="text" value="0.0.0.0"/>	<input type="text"/>	No Authorization <input type="button" value="v"/>
<input type="text" value="0.0.0.0"/>	<input type="text"/>	No Authorization <input type="button" value="v"/>
<input type="text" value="0.0.0.0"/>	<input type="text"/>	No Authorization <input type="button" value="v"/>
<input type="text" value="0.0.0.0"/>	<input type="text"/>	No Authorization <input type="button" value="v"/>
<input type="text" value="0.0.0.0"/>	<input type="text"/>	No Authorization <input type="button" value="v"/>
<input type="text" value="0.0.0.0"/>	<input type="text"/>	No Authorization <input type="button" value="v"/>

This part is to set SNMP users' IP Address, Community and relevant Authorization. Users can set 10 SNMP users IP Address at most, and can choose the Authorization which includes No Authorization, Readable and Readable/Writable.

3. Trap Settings

Receiver IP Address is used to receive traps sent by Netmate II . Users can set 4 Trap Receivers IP address at most. Users can also choose whether receive the traps.

TRAP Settings			
Receiver IP Address	Community	Receive	Event
<input type="text" value="0.0.0.0"/>	<input type="text"/>	No <input type="button" value="v"/>	<input type="button" value="Select"/>
<input type="text" value="0.0.0.0"/>	<input type="text"/>	No <input type="button" value="v"/>	<input type="button" value="Select"/>
<input type="text" value="0.0.0.0"/>	<input type="text"/>	No <input type="button" value="v"/>	<input type="button" value="Select"/>
<input type="text" value="0.0.0.0"/>	<input type="text"/>	No <input type="button" value="v"/>	<input type="button" value="Select"/>

5.2.2.5 Warning Settings

This page is to set the relevant configuration by Email and Mobile SMS alarm. It includes Email Settings, Receiver Settings, Mobile Information Configuration and Mobile Receiver Settings.

1. Email Settings

EMAIL Settings			
SMTP Server	<input type="text"/>	Port	<input type="text" value="25"/>
Sender Mailbox	<input type="text"/>		
<input type="checkbox"/> Authorization			
User Name	<input type="text"/>	Password	<input type="text"/>

SMTP Server: This section is to set the IP Address/ Port/ Sender Mailbox of Netmate II Email Server. If the SMTP Server needs to authorize, users need to set Email user name and password. Note that free email server such as Hotmail, Yahoo are not allowed.

2. Receiver settings

Receiver Settings				
	Mailbox	Warning Event	Send Warning	Send Log
Receiver1	<input type="text"/>	Select	<input type="checkbox"/>	<input type="checkbox"/>
Receiver2	<input type="text"/>	Select	<input type="checkbox"/>	<input type="checkbox"/>
Receiver3	<input type="text"/>	Select	<input type="checkbox"/>	<input type="checkbox"/>
Receiver4	<input type="text"/>	Select	<input type="checkbox"/>	<input type="checkbox"/>
Receiver5	<input type="text"/>	Select	<input type="checkbox"/>	<input type="checkbox"/>
Receiver6	<input type="text"/>	Select	<input type="checkbox"/>	<input type="checkbox"/>
Receiver7	<input type="text"/>	Select	<input type="checkbox"/>	<input type="checkbox"/>
Receiver8	<input type="text"/>	Select	<input type="checkbox"/>	<input type="checkbox"/>

This part is to set Mailbox to receive Email warning and log when an event occurs. Users can set 8 Email addresses at most.

Click the “Select” button of Warning Event, the system will pop out the following box, users can choose the needed events to receive by Email. Users can also choose whether send warning and log.

UPS Warning Event-----Receiver1	
<input type="checkbox"/>	Over Temperature
<input type="checkbox"/>	Input Failure
<input type="checkbox"/>	Output Failure
<input type="checkbox"/>	Overload
<input type="checkbox"/>	Bypass Failure
<input type="checkbox"/>	Output Closed
<input type="checkbox"/>	Switch Off
<input type="checkbox"/>	Charge Failure
<input type="checkbox"/>	System Switch Off
<input type="checkbox"/>	Fan Failure
<input type="checkbox"/>	Fuse Failure
<input type="checkbox"/>	Ordinary Failure
<input type="checkbox"/>	AC Resume Auto Switch On
<input type="checkbox"/>	Switch Off Delay
<input type="checkbox"/>	Instant Switch Off
<input type="checkbox"/>	Battery Failure
<input type="checkbox"/>	Battery Voltage Low
<input type="checkbox"/>	Bypass Output
<input type="checkbox"/>	Other Unknown Failure
<input type="checkbox"/>	Test Activated
<input type="checkbox"/>	UPS Offline

3. Mobile Information Configuration

Netmate II does not include.

5.2.2.6 User Settings

This page is to set the user information which is used to login Netmate II via Web or Telnet, and manage its user information via IP Power software.

1. Web/Telnet User Settings

WEB/TELNET User Settings		
User Name	Password	Authorization
admin	*****	Manage
		Access
		Access
		Access
		Access
		Access
		Access
		Access

This part is to set Web/Telnet User Authorization. Users have the authorization to access, control or manage the system.

2. IP POWER User Settings

IPPOWER User Settings		
Authorized IP Address	Subnet Mask	Authorization
<input type="text"/>	<input type="text" value="0.0.0.0"/>	Access <input type="button" value="v"/>
<input type="text"/>	<input type="text" value="0.0.0.0"/>	Access <input type="button" value="v"/>
<input type="text"/>	<input type="text" value="0.0.0.0"/>	Access <input type="button" value="v"/>
<input type="text"/>	<input type="text" value="0.0.0.0"/>	Access <input type="button" value="v"/>
<input type="text"/>	<input type="text" value="0.0.0.0"/>	Access <input type="button" value="v"/>
<input type="text"/>	<input type="text" value="0.0.0.0"/>	Access <input type="button" value="v"/>
<input type="text"/>	<input type="text" value="0.0.0.0"/>	Access <input type="button" value="v"/>
<input type="text"/>	<input type="text" value="0.0.0.0"/>	Access <input type="button" value="v"/>

This part is to set the authorized IP address, all the authorized address can be managed via IP Power software. Authorization item includes Manage and Access.

5.2.2.7 System Time Settings

This page is to update the current system time of Netmate II. It provides two kinds of update ways, Manual Reset and Auto Reset.

1. System Current Time

Display current system time of Netmate II, it is provided by Netmate II automatically, and will change according to user's settings.

System Current Time	11/22/2012 17:36:00
---------------------	---------------------

2. Manual Reset

Set current system time.

Manual Reset	
System Current Time	<input type="text" value="11/22/2012 17:35:40"/> M/D/Y Hour:Minute:Second
Time Zone	GMT <input type="button" value="+"/> <input type="button" value="v"/> <input type="text" value="8"/> : <input type="text" value="0"/> Hour:Minute
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

3. Auto Reset

Auto Reset	
Primary Time Server	<input type="text" value="0.0.0.0"/>
Secondary Time Server	<input type="text" value="0.0.0.0"/>
Auto Refresh Time Interval	<input type="button" value="No Auto Refresh"/> <input type="button" value="v"/>
<input type="checkbox"/> Instant Refresh	
<input type="button" value="OK"/> <input type="button" value="Cancel"/> <input type="button" value="Help"/>	

A, Primary Time Server

Set current primary time server IP address of Netmate II.

B, Secondary Time server

Set current secondary time server IP address of Netmate II , when the primary time server cannot work normally, the system will choose secondary time server to proofreading time automatically.

C, Auto Refresh Time Interval

Set auto refresh time interval of current Netmate II system time.

D, Instant Refresh

Choose whether refresh the current system time of Netmate II instantly.

5.2.3 Remote Control

Sub-Menu

- Instant Control
- Task Scheduler
- Extend Output Control
- Netmate Update

5.2.3.1 Instant Control

This part is to set UPS control command for sending instant self-test, switch off, restart UPS and Beeper.

UPS Control	
<input checked="" type="checkbox"/>	UPS Self-test <input type="text" value="10"/> Seconds
<input type="checkbox"/>	UPS Self-test Till Battery Voltage Low
<input type="checkbox"/>	Cancel UPS Self-test
<input type="checkbox"/>	After <input type="text" value="60"/> Seconds Switch Off UPS
<input type="checkbox"/>	After <input type="text" value="60"/> Seconds Switch Off UPS, then after <input type="text" value="60"/> Seconds Restart UPS
<input type="checkbox"/>	Cancel UPS Switch Off Command
<input type="checkbox"/>	Switch On Beeper
<input type="checkbox"/>	Switch Off Beeper

5.2.3.2 Task Scheduler

This part is to display our task scheduler, including the Carry out time, Dictate item, and Carry out Frequency, Task Param and Operation.

Max 10 Items	Carry out time	Dictate Item	Carry out Frequency	Task Param	Operation
No Plan!					

Click the “Add” button, the system will pop out the following box. Users can set the Target Project, which includes UPS Self-test, Switch Off and Sleep item. Users can also set the execute frequency and execute time.

1. Target Project

Target Project	
<input checked="" type="checkbox"/>	UPS Self Test <input type="text" value="10"/> Seconds
<input type="checkbox"/>	UPS Self Test Till Battery Voltage Low
<input type="checkbox"/>	UPS Switch Off
<input type="checkbox"/>	UPS Sleep Until <input type="text"/> (M/D/Y H:M:S) To Restart,Max Time Delay is 9999 Minutes

A, UPS Self-Test Time

Set UPS timing self-test.

B, UPS Self-Test Till Battery Voltage Low

Choose whether UPS self-test till battery voltage low.

C, UPS Switch Off

Set UPS timing switch off automatically.

D, UPS Sleep

Set UPS timing switch off automatically, after fixed time the UPS will be restarted automatically.

2. Task Attribute

Task Attr	
Execute Frequency	<input type="radio"/> Once <input type="radio"/> Every Month <input checked="" type="radio"/> <input type="text" value="1"/> Day
Execute Time	<input type="text" value="11/22/2012 17:38:36"/> (M/D/Y H:M:S)

Execute Frequency

Set execute frequency of timing control task.

Execute Time

Set execute starting time of timing control task.

5.2.3.3 485 Bus Device Output Control

This part needs to connect signal collecting module to show.

Signal Collect Card Extend Output Control				Description
Control	<input type="button" value="1"/>	Route Output After	<input type="text" value="0"/>	Second
			<input type="button" value="Turn off"/>	Relay
				<input type="text"/>
				<input type="button" value="OK"/> <input type="button" value="Cancel"/>

Temperature And Humidity Module Extend Output Control		Description
Control	<input type="button" value="1"/>	Route Output
		<input type="button" value="Turn off"/>
		<input type="text"/>
		<input type="button" value="OK"/> <input type="button" value="Cancel"/>

5.2.3.4 Netmate Update

This part is used for product upgrade and update. System provides two ways: detect Netmate new version and upgrade and Refresh.

<input type="checkbox"/> detect Netmate new version and upgrade	
The Server IP Address to Save Upgrade Files:	<input type="text" value="0.0.0.0"/>
The Time Interval to Test Upgrade Program:	<input type="text" value="15"/> Days
Auto Refresh Time:	<input type="text" value="00:00:00"/> For example:16:04:06
<input type="checkbox"/> Refresh	

5.2.4 History Record

This part is to display history record, users can learn about the UPS information simply and intuitively.

Sub-Menu

- **History Event Record**
- **History Data Maintenance**

5.2.4.1 History Event Record

This page is to display record of all events. Record includes the Date/Time of the event and the event description.

First. Previous. Next. Last. Turn to[]Page [Current 1/3 Page Totally Records 69]

Date/Time	Event
11/22/2012 15:08:31	Remote Power Control Module 2 Offline AlarmOccur
11/22/2012 15:08:31	Remote Power Control Module 1 Offline AlarmOccur
11/22/2012 15:07:56	Battery Module Offline
11/22/2012 15:07:23	NetmateII EXT Offline AlarmOccur
11/22/2012 14:39:19	Battery Voltage Status Low Cancel
11/22/2012 14:39:18	input normal
11/22/2012 14:37:56	Battery Voltage Status Low
11/22/2012 14:37:56	Input Bad
11/22/2012 14:35:45	Undefine Alarm id:[0000B]
11/22/2012 13:10:25	Battery Used Limited
11/22/2012 11:23:44	Devices Reconnect
11/22/2012 11:20:20	Devices offline
11/22/2012 11:20:14	Break temperature and humidity 1
11/22/2012 11:20:14	Break temperature and humidity 2
11/22/2012 11:15:22	Devices offline
11/22/2012 11:15:16	Break temperature and humidity 1
11/22/2012 11:15:16	Break temperature and humidity 2
11/22/2012 11:14:23	Devices offline
11/22/2012 11:14:15	Break temperature and humidity 1
11/22/2012 11:14:15	Break temperature and humidity 2
11/22/2012 11:08:47	Devices offline

5.2.4.2 History Data Maintenance

This part is to set Everyday Time for Sending Log Mail and record history data time interval. And it also provides the connection of downloading all history event record and all history record.

History Data Maintenance	
Everyday Time for Sending Log Mail	17:41:59
<div> <input type="button" value="OK"/> <input type="button" value="Cancel"/> <input type="button" value="Help"/> </div> <div> <input type="button" value="Download All History Event Record"/> </div>	

5.2.5 System Help

Sub-Menu

- System Help
- About Netmate

5.2.5.1 System Help

This part is to display the relevant operation information about Netmate.

Netmate Web Server Help

System basic information

The webpage displays Netmate system current basic information and network information. The value displays here will be diverse as the user setting, Netmate and UPS information changed.

Basic information

It displays Netmate system current basic information. "system name", "system administrator" and "system install position" is auto displayed after user setting in the "SNMP config" option in the webpage. The other information are auto responded and displayed by Netmate system. The "current system time" is the system time of Netmate. It can be refreshed by user's setting in the "system time setting" webpage. The "system run time" is the time Netmate already run.

Network information

Displays current network information of Netmate system. "IP address", "Subnet mask", "Gateway", "On-line mode", "main DNS server" and "Sub DNS server" is auto displayed after user setting in "network setting" webpage. "Main DNS server" and "Sub DNS server" is auto displayed after user setting in "system time setting". "SMTP server" is auto displayed after user setting in "warning setting" webpage. "MAC address" is auto responded and displayed by Netmate system.

UPS basic information

This webpage displays current UPS basic information, battery information, rating information and warning definition information. The value displays here will be diverse as the user setting and UPS information changed.

Basic information

Displays current UPS basic information. "UPS communication protocol" is auto played after user setting according to UPS's actual situation in "UPS setting". The other information are auto responded and displayed by UPS.

Battery information

Displays current UPS battery information. "battery used time" is auto responded and displayed by Netmate system. The other information are auto displayed by user setting according to actual situation in "UPS setting" webpage.

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5.2.5.2 About Netmate

This part is to display basic information of Netmate. It includes Hardware Version/Software Version/Product Serial Number/Remain Time.

About	
Hardware Version	Ver 5.0-4M-M0-N
Software Version	Ver7-99-1-32-01 \$Rev: 1782 \$ 15:24:42 Sep 29 2014
Product Serial Number	RC-NMII-00E00000B316
Remain Time	0 Days

Chapter 6 Common Problem Solutions

6.1 Forget the IP address, how to do?

If forgot the IP address of Netmate II, user can connect the one end of configuration cable to the serial port of the computer and connect the other end to the RS232 connecting cable, and then connect to the RS232 port of the Netmate II. At last, connect with the power line, and user will find the IP through the following operation:

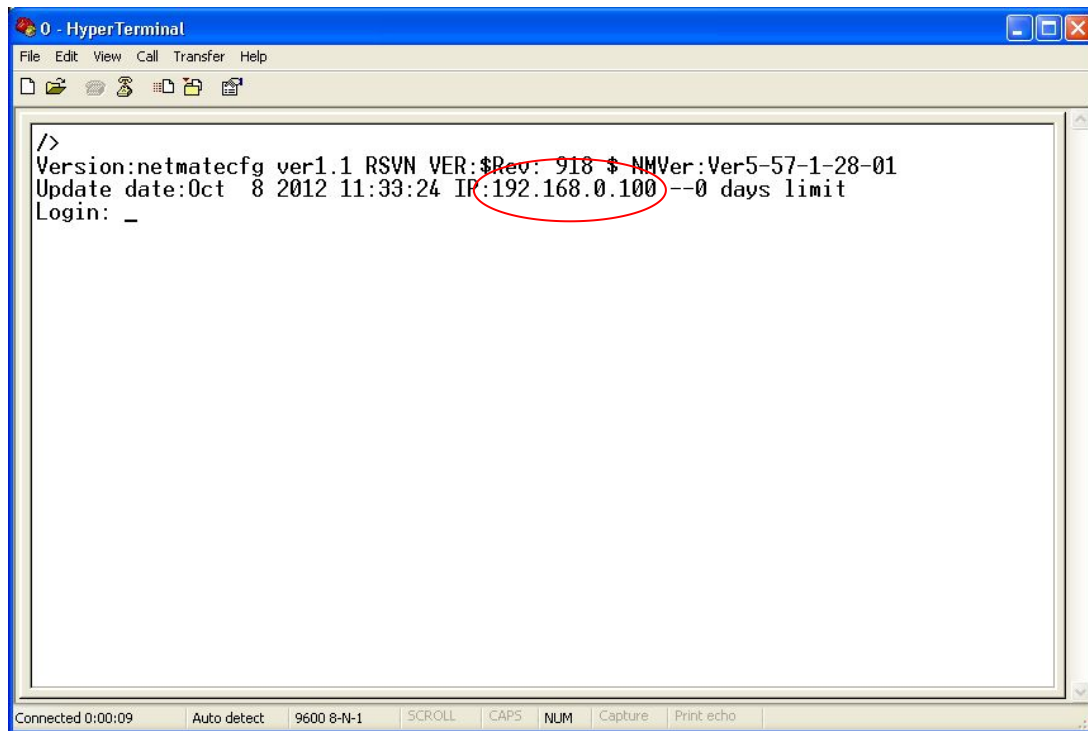
- 1) Open the Hyper Terminal: click open Menu→ Procedures→ Accessories→ Communication→ Hyper Terminal;
- 2) Set name according to user's demand;
- 3) Choose a serial port according to the connecting situation between monitoring

card or monitoring host and the RS232 port of computer;

4) Configure the port;

(B) 9600, (D) 8, (P) no, (S) 1, (F) no

5) Click the “OK” button, user will open the following Hyper Terminal page, the picture will display the IP address of the monitoring card.



6.2 Why the device can be PING, but user cannot open the webpage?

1. Restart the device;

2. Check whether the IP is conflicted with other IP;

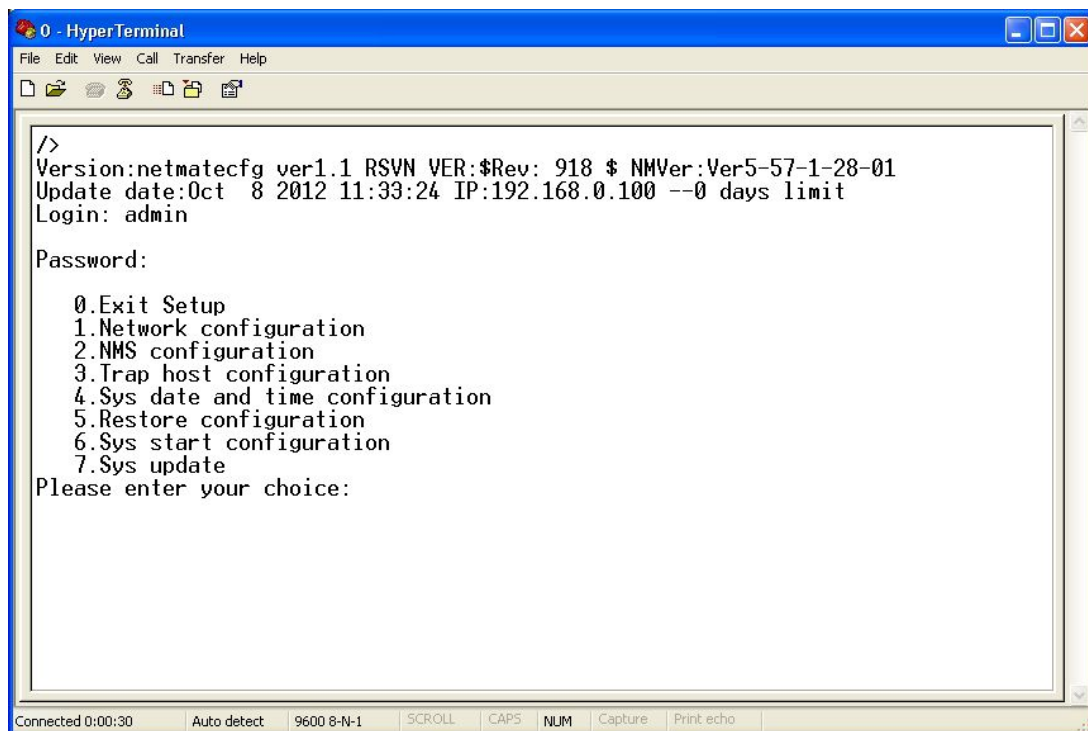
If user still cannot open the webpage, please cut off the Netmate II, click Open Menu→ Running→ Input “cmd” →click the “Enter” key, enter the doc order interface, then input `***.***. *** (***. ***. *** is the device IP)`, check whether the IP is effective, if the IP is tested through, it means there is the same IP in the network, the IP is conflicted.

3. Whether enable HTTP item or the default port has been modified.

If the device has been restarted, and there is no conflicted IP in the network, then check whether enable HTTP item or the default port has been modified. The operation

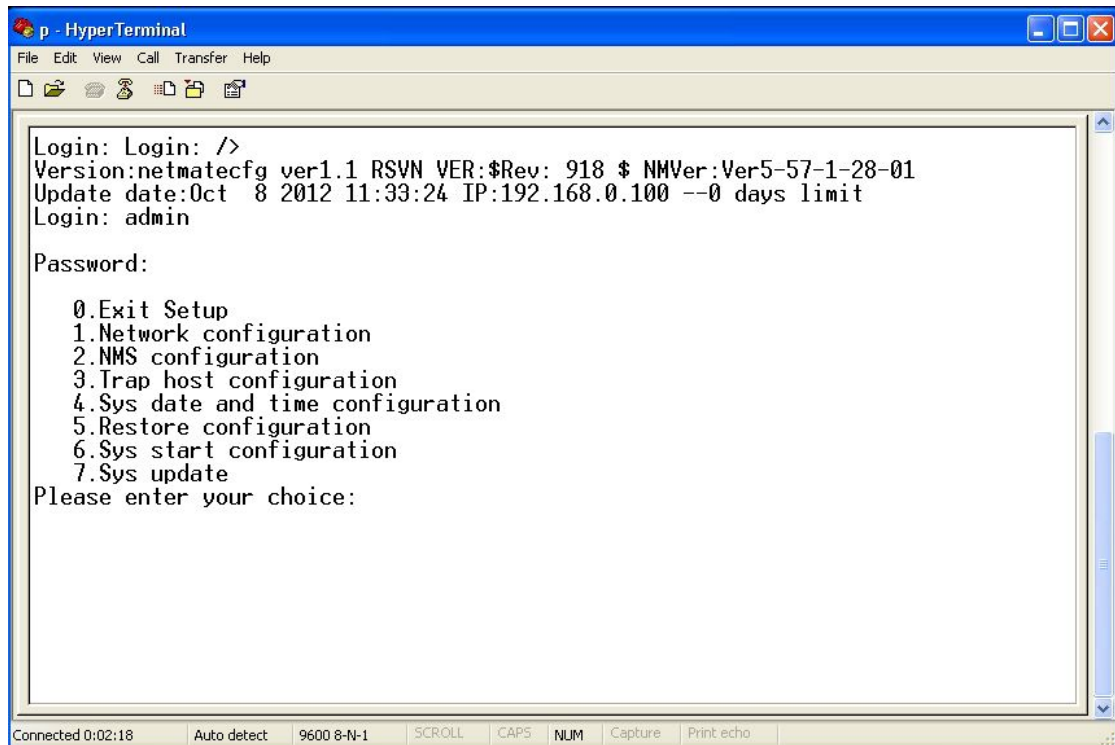
is as follows:

- 1) User can connect the one end of configuration cable to the serial port of the computer and connect the other end to the RS232 connecting cable, and then connect to the RS232 port of Netmate II. At last, connect with the power line;
- 2) Open the Hyper Terminal; click open Menu→ Procedures→ Accessories→ Communication→ Hyper Terminal;
- 3) Set a name according to user's demand;
- 4) Choose a serial port according to the connecting situation between monitoring card or monitoring host and the RS232 port of computer;
- 5) Configure the port;
(B) 9600, (D) 8, (P) no, (S) 1, (F) no
- 6) Click the "OK" button, user will open the following Hyper Terminal page;



- 7) Input the user name after the "login", system default user name is admin, click the "Enter" key, then the Hyper Terminal will display the "Password:" input the relevant password, the default password is admin. At last click the "Enter" key, the Hyper Terminal will display the main configuration menu of Netmate II, the page is as

follows:



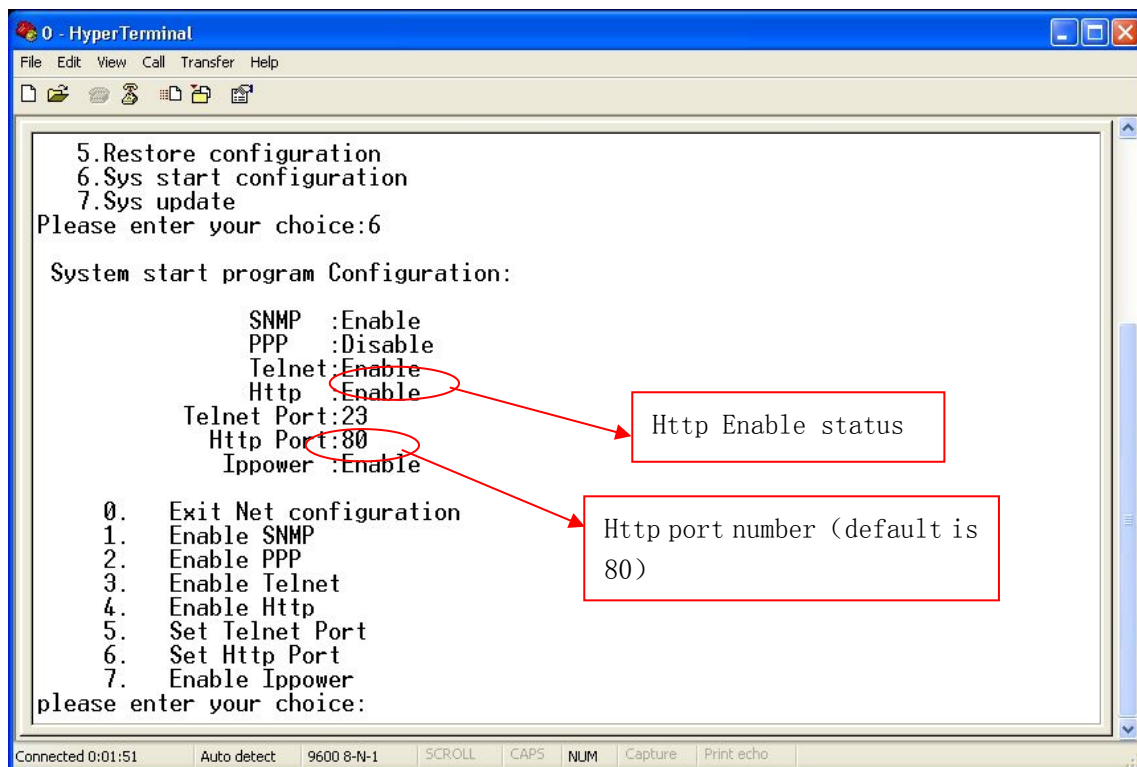
```
p - HyperTerminal
File Edit View Call Transfer Help

Login: Login: />
Version:netmatecfg ver1.1 RSVN VER:$Rev: 918 $ NMVer:Ver5-57-1-28-01
Update date:Oct 8 2012 11:33:24 IP:192.168.0.100 --0 days limit
Login: admin

Password:

0.Exit Setup
1.Network configuration
2.NMS configuration
3.Trap host configuration
4.Sys date and time configuration
5.Restore configuration
6.Sys start configuration
7.Sys update
Please enter your choice:
```

8) Input 7 after the “please enter your choice:” user will enter the system function configuration menu of Netmate II; user can check and modify the function configuration. The page is as follows:



```
0 - HyperTerminal
File Edit View Call Transfer Help

5.Restore configuration
6.Sys start configuration
7.Sys update
Please enter your choice:6

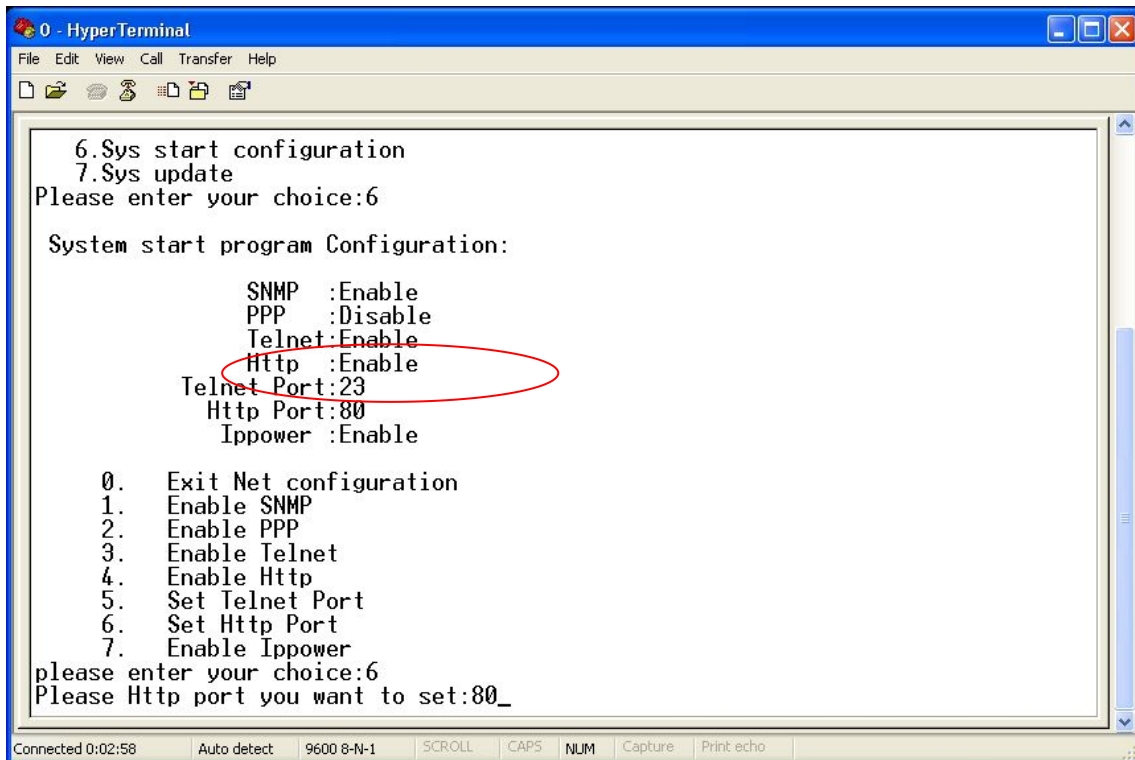
System start program Configuration:

      SNMP :Enable
      PPP  :Disable
      Telnet:Enable
      Http :Enable
Telnet Port:23
Http Port:80
Ippower :Enable

0. Exit Net configuration
1. Enable SNMP
2. Enable PPP
3. Enable Telnet
4. Enable Http
5. Set Telnet Port
6. Set Http Port
7. Enable Ippower
please enter your choice:
```

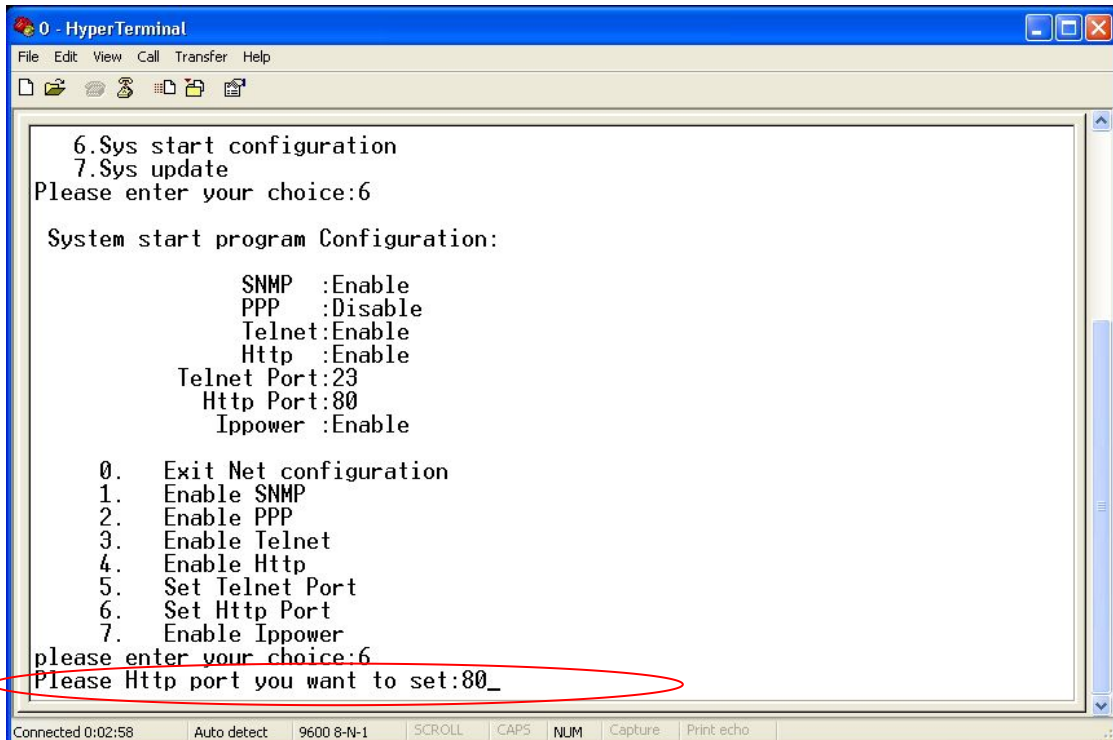
9) If the Http is disabled, user can modify the enable status via inputting 4 after the

“Please enter your choice:” the operation is as follows:



```
0 - HyperTerminal
File Edit View Call Transfer Help
Please enter your choice:6
System start program Configuration:
    SNMP :Enable
    PPP :Disable
    Telnet:Enable
    Http :Enable
    Telnet Port:23
    Http Port:80
    Ippower :Enable
0. Exit Net configuration
1. Enable SNMP
2. Enable PPP
3. Enable Telnet
4. Enable Http
5. Set Telnet Port
6. Set Http Port
7. Enable Ippower
please enter your choice:6
Please Http port you want to set:80_
```

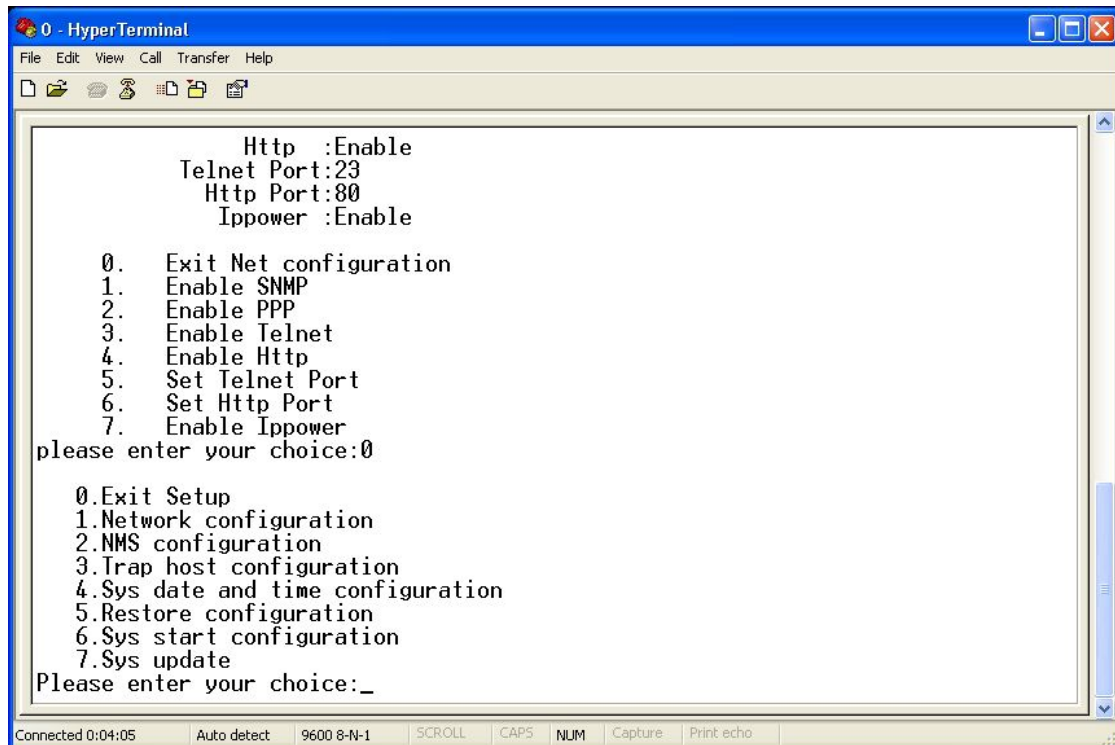
10) If the HTTP default port has been modified, user can modify it via inputting 6 after “Please enter your choice:” operation is as follows:



```
0 - HyperTerminal
File Edit View Call Transfer Help
Please enter your choice:6
System start program Configuration:
    SNMP :Enable
    PPP :Disable
    Telnet:Enable
    Http :Enable
    Telnet Port:23
    Http Port:80
    Ippower :Enable
0. Exit Net configuration
1. Enable SNMP
2. Enable PPP
3. Enable Telnet
4. Enable Http
5. Set Telnet Port
6. Set Http Port
7. Enable Ippower
please enter your choice:6
Please Http port you want to set:80_
```

11) Input 0 after “Please enter your choice:” after finishing the modification, exit Net

configuration, and enter the main configuration menu. The operation is as follows:



```

0 - HyperTerminal
File Edit View Call Transfer Help

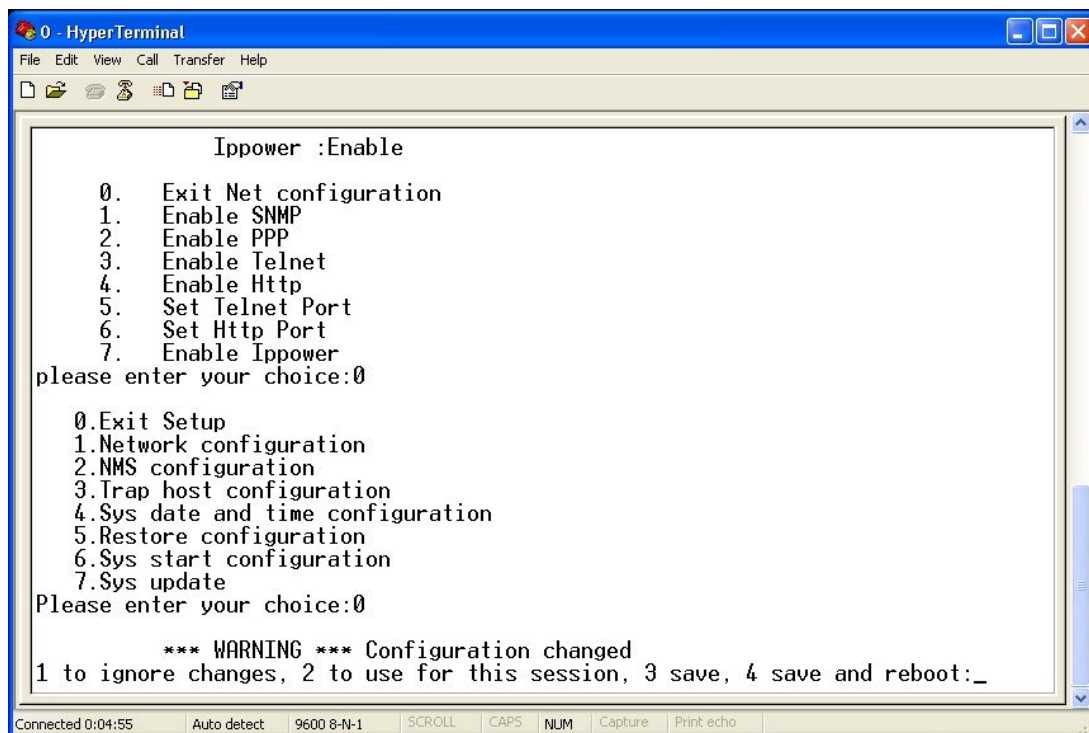
Http :Enable
Telnet Port:23
Http Port:80
Ippower :Enable

0. Exit Net configuration
1. Enable SNMP
2. Enable PPP
3. Enable Telnet
4. Enable Http
5. Set Telnet Port
6. Set Http Port
7. Enable Ippower
please enter your choice:0

0.Exit Setup
1.Network configuration
2.NMS configuration
3.Trap host configuration
4.Sys date and time configuration
5.Restore configuration
6.Sys start configuration
7.Sys update
Please enter your choice:_

Connected 0:04:05 Auto detect 9600 8-N-1 SCROLL CAPS NUM Capture Print echo
  
```

12) Inputting 0 after “Please enter your choice:”, and the Hyper Terminal will display 3 ways to save and reboot for Netmate II , user can choose one way according to own real situation, the operation is as follows:



```

0 - HyperTerminal
File Edit View Call Transfer Help

Ippower :Enable

0. Exit Net configuration
1. Enable SNMP
2. Enable PPP
3. Enable Telnet
4. Enable Http
5. Set Telnet Port
6. Set Http Port
7. Enable Ippower
please enter your choice:0

0.Exit Setup
1.Network configuration
2.NMS configuration
3.Trap host configuration
4.Sys date and time configuration
5.Restore configuration
6.Sys start configuration
7.Sys update
Please enter your choice:0

*** WARNING *** Configuration changed
1 to ignore changes, 2 to use for this session, 3 save, 4 save and reboot:_

Connected 0:04:55 Auto detect 9600 8-N-1 SCROLL CAPS NUM Capture Print echo
  
```

6.3 What is the login user name and password?

When login the Netmate II at first time via IE browser, user name is admin and password is also admin. But if login the webpage, user can set other user name, so other setting users can also login the webpage.

6.4 Forget the login password, how to do?

Please remember the login password of Netmate II, if the user forgot the password, the user must send the device back to our company to deal with it.

6.5 Cannot connect with the device, how to do?

Netmate II connection is normal according to PING order, UPS communication indicator is flashing, IP Power monitoring device displays the UPS is offline. Solution is as follows:

- 1) Check the protocol configuration and Baud rate configuration;

Enter the system configuration page of Netmate II, check whether the protocol configuration and Baud rate configuration is right.

- 2) Check the line order of conversion line;

If the settings of the protocol and baud rate are all right, please check whether the line order of conversion line is normal.

- 3) Check the UPS;

If the protocol, Baud rate and line order of conversion line are all normal, please check whether the UPS is normal.

Chapter 7 Notice Items

1. After finishing the configuration of Netmate II, user should cut off the power of the monitoring card first, and then plug out the relevant port configuration cable, void to damage the port of computer and monitoring card for the hot plug in and pull out.
2. The white cable in the package is used for the configuration of SNMP card; it cannot be used to connect UPS. In order to guarantee the UPS communication quality,

please use the cable which is provided by UPS manufacturer.

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