PDU Web Server

User's Manual

Management Software for Power Distribution Unit

Table of Contents

1.	Ove	erview	. 1
	1.1	Introduction	. 1
	1.2	Features	. 1
	1.3	Overlook	. 1
	1.4	Installation and Connection	. 1
	1.5	Configuration	. 2
	1.6	Monitoring	. 3
2.	PDI	J web card GUI	. 5
3.	Fur	action Menu	. 6
	3.1	Information	. 6
	3.2	PDU setting	. 6
	3.3	Control	. 7
	3.4.	System configuration	. 9
	3.5.	Log	13
	3.6.	Help	14

1. Overview

1.1 Introduction

This PDU Web card can provide web server to monitor and manage multiple PDUs in a networked environment including LAN and INTERNET. It can detect temperature and humidity of the environment via connected EMD (Environmental Monitoring Device).

Integrated with PDUTracker software, it can monitor and remotely access to all distributed PDU web cards in a LAN or INTERNET. For the detailed operations, please check the user manual of PDUTracker.

1.2 Features

- > Embedded web server via web browser
- > Offer SNMP MIB to monitor PDU status.
- Support 10M/100M Fast Ethernet auto-detect function
- Support protocols such as TCP/IP, UDP, SNMP, SMTP, SNTP, HTTP and so on.
- Support event log record and export, including PDU warnings, faults and EMD warnings.
- > Support data log record and export.
- > Support daily reports for event log and data log.

1.3 Overlook



- Ethernet port (10/100Base-T)
- Sensor port
- Golden finger: connects to PDU slot
- Ethernet port status LEDs

1.4 Installation and Connection

Installation

When using SNMP card, please follow the installation steps below first: **Step 1:** Remove the cover of intelligent slot on the panel of PDU and retain the screws **Step 2:** Slide the card into the slot and fix it with the screws from step 1. (See Chart 1-1)



Chart 1-1

For system diagram of PDU web card, please refer to chart 1-2. Plug the Ethernet cable to the Ethernet port (RJ-45) on the SNMP card. Use another Ethernet cable to connect to the sensor port on the SNMP card and the other end to the optional environmental monitoring device.



Chart 1-2

1.5 Configuration

a) Please install SNMP web manager in your PC. After software is installed successfully, a shortcut icon of the Installer will appear on your desktop as shown in Chart 1.4.



Chart 1-4

b) Enter specific IP address to search all of the SNMP devices in the LAN. The SNMP web manager will automatically collect the IP addresses from sever in default via a DHCP server. If there is no DHCP server, it will apply default IP address as 192.168.102.230, default subnet mask as 255.255.255.0 and default gateway 0.0.0.0.

IP address MAC address 192.168.107.79 00-00-5E-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
192.188.107 Scan Add Del	[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 interface. It is necessary to enter password for any modifications. The default password is 12345678.

Please check SNMP Web Manager User Manual for detailed configuration.

1.6 Monitoring

There are two ways to monitor the device:

- a) Double click the selected device from the device list (refer to Chart
- 1-5) and it will pop up screen as Chart 1-6.

PDU Web Server 1.0									
						St			Login C
Information	Input information								
Status	Input voltage :	Input voltage : 223.3 V				Input por	wer: 15 KWH		
Dasic Information	Input current:	Input current: 0.4 A			Input apparent power: 99 VA				
PD0 setting	Input frequency:	50.0 Hz			Input energy consumption: 0.1 W				
Parameters setting	PDU Temperature:	35.0 C							
Control									
Real-time control	Output information								
System configuration		Outlet1 Outlet2 Outlet3 Outlet4 Outlet5 Outlet6 Outlet7 Outlet8							Outlet8
E-mail	Current(A)	Current(A) 0.0 0.0 0.0				0.4	0.0	0.0	0.0
SMS	Active power(W)	Active power(W) 0 0 0			0	15	0	0	0
Event action	Apparent power(VA)	Apparent power(VA) 0 0 0			0	94	0	0	0
SNMP configuration	Energy consumption(KWH)	Energy consumption(KWH) 0.0 0.0 0.0			0.0	0.1	0.0	0.0	0.0
Log	Shutdown count down(Sec.)	0	0	0	0	0	0	0	0
Event log	Restore count down(Sec.)	0	0	0	0	0	0	0	0
Data log	Status	ON	ON	ON	ON	ON	ON	ON	ON
Help									
Serial Port Debug	EMD information								
		EMD temp.: 22.3 C				Humidity: 68.2 %			

Chart 1-6

b) Install PDUTracker software to monitor SNMP web card. Refer to Chart 1-7.

Please check PDUTracker User Manual for detailed operation.

PDOTTacker											
PDUTracker Configuration Devic	e control View Help										
🛐 🥺 🛃 t	🚺 🧖 Guest Mor		CM1_9000000000								
复 xuan-zhaoyou-nb.vcn.vol.corp	Output information										
🦳 < сом1_900000000000000		Outlet 1	Outlet 2			Outlet 5	Outlet 6	Outlet 7	Outlet 8		
	Apparent power										
	Status										
	: Input information										_
			Input vo	oltage 221.0							
						Input Pow					
			mpare			put Apparent Pow					
			Input freq	uency 50.0	Hz Input E	nerav Consumptic	on 0.1 KW				
	Product information					Rated infor	mation				-
		900000000000							ninal I/P Voltage		v _
									inal O/P Voltage		v
						Input					

Chart 1-7

2. PDU web card GUI

PDU web card GUI includes the function menu, login section and main screen. Refer to Chart 2-1:

PDU Web Server 1.0		А						atus	D	Login (Suest
B Information		Input information									
Status		Input voltage :	223.3 V				Input po	wer: 15 KWH			
Basic information		Input current:	0.4 A			Inpu	t apparent po	wer: 99 VA			
PDU setting		Input frequency:	50.0 Hz			Input ene	ray consumpt	tion: 0.1 W			
Parameters setting		PDU Temperature:	35.0 C				57 1				
Control		· · · ·									
Real-time control		Output information									
System configuration		ouput mormation	Outlet1	Outlet2	Outlet3	Outlet4	Outlet5	Outlet6	Outlet7	Outlet8	
VVeb E-mail	Web Current(A) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.							0.0	0.0		
SMS		Active power(W) 0 0 0					15	0	0	0	
Event action		Apparent power(VA)	0	0	0	0	94	0	0	0	
System time SNMP configuration		Energy consumption(KWH)	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	
		Shutdown count down(Sec.)	0	0	0	0	0	0	0	0	
Event log		Restore count down(Sec.)	0	0	0	0	0	0	0	0	
Data log		Status	ON	ON	ON	ON	ON	ON	ON	ON	
Help											
Serial Port Debug	FIID information										
		EMD temp : 22.3 C						lity: 68.2 %			
		Line temp. 22.0 0 Truminuty. 00.2 /6									

Chart 2-1

- A. PDU web card version
- B. Function Menu

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

C. Main Screen

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

D. Login section

It shows the current user type that logs in. The default passwords for administrator is ``12345678''.

3. Function Menu

3.1 Information

3.1.1. Status

Select Information >> Status. Please refer to Chart 3-1. It shows real-time monitored PDU data including input, output and environmental information in table format.

Information Input information Pol setting Input voltage: 23.3 V Input power: 15 KWH Parameters setting Input offequency: 50.0 Hz Input energy consumption: 0.1 W Real-time control System configuration PDU Temperature: 35.0 C Input energy consumption: 0.1 W Web E-mail SMS Event action Outlet1 Outlet2 Outlet3 Outlet6 Outlet6 Outlet7 Outlet8 Actree power(W) 0 <t< th=""><th>PDU Web Server 1.0</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	PDU Web Server 1.0										
Information Status Input information Input information Input frequency: 50.0 Hz Input apparent power. 99 VA Parameters setting Control Output frequency: 50.0 Hz Input energy consumption: 0.1 W Output information Veb E-mail Current(A) 0.0 0.0 0.0 0.0 0.4 0.04 0.0 0.0 0.0 StMP configuration Berent log Data log Betare count down(Sec: 0 0 0 0 0 <th colspa<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>Si</td><td></td><td></td><td>Login</td></th>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Si</td> <td></td> <td></td> <td>Login</td>							Si			Login
Information Input information Basic information Input offequency: 50.0 Hz Input energy consumption: 0.1 W PDU setting Input frequency: 50.0 Hz Input energy consumption: 0.1 W Real-time control System configuration 0.1 W Input energy consumption: 0.1 W System configuration Velo Current(A) 0.0 0.0 0.0 0.0 0.4 4 0.0 0.0 0.0 StMS Event action System configuration Current(A) 0.0											
Status Input space 15 KWH Basic information Input space 15 KWH PDU setting Input space 19 VA Parameters setting Input space 19 VA Control Input space 19 VA Real-time control System configuration Veb Input space Web Current(A) 0.0 0.0 0.4 0.0 0.0 StMS Event action System time Outlet1 Outlet2 Outlet3 Outlet4 0.0 0.0 0.0 0.0 StMS Event action System time Shutdown count down(Sec.) 0 0 0.0 <td< td=""><td>Information</td><td>Input information</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Information	Input information									
Data Induction Input apparent power. 99 VA Poll setting Input dequency: 50.0 Hz Input energy consumption: 0.1 W Real-time control System configuration Web Imput setting 0.01 Hz Imput energy consumption: 0.1 W System configuration Web Imput nergy consumption: 0.1 W 0.0 0.0 0.0	Status Basic information	Input voltage :	Input voltage : 223.3 V				Input power: 15 KWH				
Outcomposition Input frequency: 50.0 Hz Input energy consumption: 0.1 W Parameters setting PDU Temperature: 35.0 C 0 <td>PDU sotting</td> <td>Input current:</td> <td colspan="3">Input current: 0.4 A</td> <td colspan="4">Input apparent power: 99 VA</td> <td></td>	PDU sotting	Input current:	Input current: 0.4 A			Input apparent power: 99 VA					
PDU Temperature: 35.0 C PDU Temperature: 35.0 C Output information Output information Web Current(A) Outlet1 Outlet2 Outlet3 Outlet4 Outlet6 Outlet6 Outlet7 Outlet8 SMS Event action System time Current(A) 0.0 0.0 0.0 0.4 0.0 0.0 0.0 StMM Configuration Current(A) 0.0 0.0 0.0 0.0 0.4 0.0 0.0 0.0 StMM configuration Current(A) 0.0 0.0 0.0 0.0 0.4 0.0 0.0 0.0 StMM configuration Energy consumption(KWH) 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 Log Energy consumption(KWH) 0.0 </td <td>Parameters setting</td> <td>Input frequency:</td> <td>50.0 Hz</td> <td></td> <td></td> <td colspan="4">Input energy consumption: 0.1 W</td> <td></td>	Parameters setting	Input frequency:	50.0 Hz			Input energy consumption: 0.1 W					
Control Real-line control System configuration Web E-mail SNS Event action SNMS SNMS configuration SNMS Event action SNMP configuration Log Event log Data log Help Serial Port Debug EMD information EMD tentpress EVent log Data log Betare Help Serial Port Debug EMD tentpress 22.3 C Humidity: 58.2 %	Control	PDU Temperature:	35.0 C								
Output information System configuration Web E-mail StMS Event action System configuration StMS Event action Data log Better Better StMM configuration StMM configuration StMM configuration StMM configuration StMM configuration Better StMM configuration StMM configuration StMM configuration Better StMM configuration StMM configuration Better Better Sterial Port Debug	Pool time centrel										
Outlet1 Outlet2 Outlet3 Outlet4 Outlet6 Outlet6 Outlet7 Outlet8 Email SMS Event action System time StMP configuration Current(A) 0.0<	System configuration	Output information									
E-mail SNB Current(A) 0.0 0.0 0.0 0.4 0.0 0.0 0.0 SNB Active power(W) 0 0 0 0 15 0 0 0 Style Mail 0.0 0.0 0	Web		Outlet1	Outlet2	Outlet3	Outlet4	Outlet5	Outlet6	Outlet7	Outlet8	
SNS Event action System time Active power(W) 0 0 0 15 0 0 0 SNDP Active power(W) 0 0 0 0 15 0 0 0 0 SNDP Onfiguration Apparent power(W) 0	E-mail	E-mail Current(A) 0.0 0.0 0.0 SMS Active power(W) 0 0 0				0.0	0.4	0.0	0.0	0.0	
Event action System time Apparent power(VA) 0 0 0 94 0 0 0 System time Energy consumption(KWH) 0.0	SMS					0	15	0	0	0	
SNMP configuration Energy consumption(KWH) 0.0 0.0 0.0 0.1 0.0 0.0 0.0 Log Shutdown count down(Sec.) 0	Event action System time	Apparent power(VA)	Apparent power(VA) 0 0 0			0	94	0	0	0	
Log Shutdown count down(Sec.) 0<	SNMP configuration	Energy consumption(KWH)	Energy consumption(KWH) 0.0 0.0 0.0			0.0	0.1	0.0	0.0	0.0	
Event log Data log Restore count down(Sec.) 0	Log	Shutdown count down(Sec.)	0	0	0	0	0	0	0	0	
Data log Status ON ON ON ON ON ON Help Serial Port Debug EMD information EMD temp: 22.3 C Humidity: 68.2 %	Event log	Restore count down(Sec.)	0	0	0	0	0	0	0	0	
Help Serial Port Debug EMD information EMD temp.: 22.3 C Humidity: 68.2 %	Data log	Status	ON	ON	ON	ON	ON	ON	ON	ON	
Serial Port Debug EMD information EMD temp.: 22.3 C Humidity: 68.2 %	Help	p									
EMD temp.: 22.3 C Humidity: 68.2 %	Serial Port Debug	EMD information									
		EMD temp.:			Humid	dity: 68.2 %					

Chart 3-1

3.1.2. Basic information

Select Information >> Basic information. It includes PDU basic information and PDU rated information. Please refer to Chart 3-2.

PDU Web Server 1.0			
		Basic information	n G
Information			
Statua	Basic information		
Basic information	PDU model: PDU	Input phase/Output phase: 1/1	
PDU setting	PDU FW version: 00.09	PDU serial number: 9000000000000	
Parameters setting	Equipment attached: SNMP web server	SNMP FW version: -00S	
Control			
Real-time control	PDU rated information		
System configuration	Nominal I/P Voltage: 230.0 V	Input SocketNumber: 1	
Web	Nominal O/P Voltage: 230.0 V	Output SocketNumber: 8	
E-mail			
Sivis Event action			
System time			
SNMP configuration			
Log			
Event log			
Help			
Serial Port Debug			
Senai Port Debug			

Chart 3-2

3.2 PDU setting

3.2.1 Parameters setting

Some PDU parameters can be configured with PDU Web Server. Configurable parameter setting includes outlet setting, voltage and current range setting,

shutdown imminent time and Delay between turning on outlet. Select PDU setting >> Parameters setting. Please refer to Chart 3-4.

PDU Web Server 1.0	Parameters setting Login Guest
Information Status Basic information PDU setting Parameters setting Control Real-time control System configuration	Outlet1 Outlet2 Outlet3 Outlet4 Outlet5 Outlet5 Outlet7 Outlet8 Max.Current(A) 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 Off at power on
Web E-mail SMS Event action System time SNMP configuration Log Event log	Low input warning voltage 196.0 V Apply Low input current: 0.0 A Apply High input warning voltage 253.0 V Apply High input current: 16.0 A Apply Max input voltage 276.0 V Apply Delay time to turn on outlet 1 Sec Apply Default Default Default Default Default Default
Help Serial Port Debug	

Chart 3-4

Step 1. Click "Apply" button to save the settings. Each function setting is saved by clicking "Apply" button in each section.

Step 2. Click "Default" button to recover the default setting.

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

- Maximum current (A):Setting maximum output current in Amp for each outlet. If output current is higher than this setting, PDU will alarm overload warning.
- OFF at power on: When selected, there is no output on this outlet after PDU is turned on. If unclicked, it will have output on this outlet after PDU is turned on.
- Automatic disconnection: When selected, if overload warning happens, it will cut off power on selected outlet in one minute.
- ON / OFF from the panel: When selected, it's allowed to manually turn on/off the selected outlet. When unclicked, it's not allowed to manually turn on/off the selected outlet.
- Low input warning voltage: Setting low input warning voltage. When input voltage is lower than this setting point, it will buzz to remind users.
- High input warning voltage: Setting high input warning voltage.
 When input voltage is higher than this setting point, it will buzz to remind users.
- Max. input voltage: Setting acceptable maximum input voltage point.
 When input voltage is higher than this setting point, it will buzz and

then shut down all outlets immediately.

- Low input current: Setting acceptable low input current point. When input current is lower than this setting point, it will buzz to remind users
- High input current: Setting acceptable high input current point. When input current is higher than this setting point, it will buzz to remind users.
- Delay time to turn on outlet: Setting delay time for activating output outlet.

3.3 Control

3.3.1. Real-time control

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

PDU Web Server 1.0		Real-time control	Login Guest
Information Status Basic information PDU setting Parameters setting Control Real-time control System configuration Web E-mail SMAP configuration System time SMAP configuration Log Event to(p) Data log Help Senial Port Debug	PDU test Apply Pre-alarm time before shutdown: 2 min Apply Shutdown the outlet 1 in 0 second(s) Apply Shutdown the outlet 1 in 0 second(s) and restore in 0 minute(s) Apply Cancel shutdown outlet 1 i Apply		

Chart 3-5

You can real-time control the PDU by executing the following operations:

- PDU test: Before operation, please apply this test to check if all the panel LEDs and the buzzer are working well.
- Pre-alarm time before shutdown: Set pre-alarm time before shutting down the selected outlet.
- Shut down # no. outlet in x minute(s): The selected outlets will be shut down in x minute(s).
- Shut down # no. outlet in x minute(s) and restore in x minute(s): the selected outlets will be shut down in x minutes and turned on in x minute(s).
- Cancel shutdown # no. outlet: If the selected outlet is counting down for shutdown, this action will cancel the shutdown immediately.

3.4. System configuration

3.4.1. Web user

It configures the authority to access to SNMP web card. Please enter access ID and password in each column. There is no any limitation to access control in default setting. Please refer to Chart 3-6.

Information Status Basic information PDU setting User Name Parameters setting Control Read Apply Delete Read Apply Delete Weil Control Read Apply Delete Weil Control Read Apply Delete Weil Control Read Apply Delete System configuration Log Event action SMMP configuration Log Event tog Data log Help	PDU Web Server 1.0	D		Web	Login
Status Description Basic information User Name Password Permission Operation PDU setting user Read Apply Delete Control Read Apply Delete System configuration Weil Read Apply Delete Event action System time SNMP configuration Event action Read Apply Delete Event action System time SNMP configuration Log Event action Read Apply Delete	Information	Here Assessed			
Usering user Read Apply Delete Parameters setting Control Read Apply Delete Control Read Apply Delete Read Apply Delete Real-time control System configuration Web Read Apply Delete SNMS Event action SNMS SNMS State in the poly Delete Read Apply Delete Log Event by Delete State in the poly S	Status Basic information	User Name	Password	Permission	Operation
Parameters setting Read Apply Delete Control Real-time control Read Apply Delete System configuration Read Apply Delete Webl E-mail Read Apply Delete SNMS Event action System time SNMP configuration Log Event tog Data log Hein	PDU setting	user		Read	Apply Delete
Control Read Apply Delete Real-time control Read Apply Delete System configuration Read Apply Delete Web E-mail SMMS Event action System time SIMP configuration Read Apply Delete Log Event log Data log Hein Read Read Read	Parameters setting			Read	Apply Delete
Real-time control Read Apply Delete System configuration E-mail SMS E-mail SMS Event action System time SIMP configuration Log Event log Data log Hein	Control			Read	Apply Delete
System configuration Wet E-mail SMS E-vent action System time SNMP configuration Log E-vent log Data log Heln	Real-time control			Read	Apply Delete
Serial Port Debug	SMS Event action System time SIMP configuration Log Event log Data log Help Serial Port Debug				

Chart 3-6

3.4.2. E-mail

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

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

PDU Web Server 1.0	
	E-mail Login Guest
Information Status Basic information PDU setting Parameters setting Control Real-time control System configuration Web E-mail SMS Event action	SMTP server: smtp.test.com Receive 1: Apply) Delete Port: 25 Receive 2: Apply) Delete Send from: Receive 3: Apply) Delete User name: test Receive 4: Apply) Delete Need Auth Receive 5: Apply) Delete Password: Receive 6: Apply) Delete Note: After apply, you can click "Test" button to send a test message. Receive 7: Apply) Delete Apply Test Receive 8: Apply) Delete
System time SNMP configuration	Password get back Email: Apply Delete
Log Event log Data log Help Serial Port Debug	Recipient's Email Address (for Daily Report) Account 1: Apply Delete Account 2: Apply
	Send Email for Daily Report (hh.mm):at 00:00 Send Email when Event Log overflows (100 records): Send Email when Data Log overflows (500 records): Apply

Chart 3-7

1. Enter SMTP server, SMTP port, sender's E-mail address, user name and password. Click the checkbox "Need Auth" for password verification.

- 2. Enter correct e-mail accounts in Receiver list. Then, click "Apply" to add them into receivers list. Click "Delete" button to delete them.
- 3. Click "Apply" to save the changes. The "Test" button can be used to send a test e-mail to all receivers to confirm the correct operation. When the test e-mails are successfully sent to the specific recipients, a successful dialog will pop up on the operated PC. Otherwise, a failure dialog will pop up to indicate there is an error for parameter setting.
- 4. You may decide who will receive daily report e-mail at designate duration. Please enter recipient's Email Address and timer into the corresponding columns. Then, click "Apply" button to set up this action. You also can configure who will receive the alarm e-mail when event log exceeds 100 or data log exceeds 50 records. Please click checkbox for selection.

3.4.3. SMS

It's required to have a service software such as ViewPower Pro to execute the function. If an alarm occurring, a message of the PDU status will be sent to the specified users via mobile phone. Please refer to Chart 3-8.

PDU Web Server 1.0				Lorin Cuert
			SINS	Eugin Guesi
Information Status Basic information PDU setting Parameters setting Control Real-lime control System configuration Web E-mail SMS Event action System time SIMP configuration Log Event log Data log Help Serial Port Debug	SMS server: 192.168.107.11 Port: 41222 Account name: Password: Note: After apply, you can clic Apply Test	Re Re Re k "Test" button to send a test message.	sceive 1: A	pply Delete pply Delete pply Delete pply Delete

Chart 3-8

3.4.4. Event action

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

Select System Configuration >> Event action. Please refer to Chart 3-9.

PDU Web Server 1.0		Event action	Login Guest
Information Status Basic information PDU setting Parameters setting Control Real-time control System configuration Event action System time SIMMP configuration Log Event log Data log Help Serial Port Debug	 ✓ Send E-mail while any PDU's event occurs. Apply ☐ Send SMS while any PDU's event occurs. Apply EMD alarming temperature upper limit 99.9 ° C Apply EMD alarming humidity upper limit 100.0 % Apply Data record interval 60 Sec. Apply 		

Chart 3-9

- Send an e-mail notification while any PDU event occurs: When clicking this checkbox, it will send an e-mail alarm when any event occurs on the local PDU.
- Send an SMS while any PDU event occurs: When clicking this checkbox, if an alarm occurs, a message of PDU status will be sent to the specified users via mobile phone.
- EMD alarms if temperature is over upper limit: Set up alarm for high temperature point. If detected temperature is beyond setting value, an alarm message will be sent.
- EMD alarms if humidity is over upper limit: Set up alarm for high humidity point. If detected humidity is beyond setting value, an alarm message will be sent.
- Data record interval xx sec: The data will be recorded in Data log per xx sec.

3.4.5. System time

Select System Configuration >> System time. Please refer to Chart 3-10.

PDU Web Server 1.0		System time	Logout Administrator
Information Status Basic information P0U setting Parameters setting Control Real-time control System configuration Web E-mail StMS Event action System taction System taction StMS configuration Log Event log Data log Help Serial Port Debug	Automatic time correction interval: 12 Hours V Time server: time windows com Time Zone(Relative to GMT): GMT V Applying daylight saving time: No V Adjust now >> System Time (mm/dd/yyyy hh: mm:ss): 02/12/2014 00:01:08 Apply Auto Restart System for Every (0: Disable): 0 Minute(s) Apply Manual Restart System After 30 Seconds: Apply		

Chart 3-10

- Automatic time correction interval
- Time server: The SNTP server IP address or domain name.
- Time Zone (Relative to GMT)
- Applying daylight saving time
- 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.

3.4.6. SNMP configuration

Setting SNMP web card basic information such as set IP address, passwords, trap IP address, SNMP UDP port and restore to the default settings.

Note: It's normal to reboot after some operations are executed.

Select System Configuration >> SNMP configuration. Please refer to Chart

PDU Web Server 1.0			SNMP configuration Login Guest	
Information	* : System will reboot when this item has been Applied.			^
Basic information	SNMP equipment attached Input:	SNMP web server	(Less than 32 characters) Apply	
Pool setting Parameters setting	Network settings *	-		
Control Real-time control		 Automatically obtain IP Use a static IP address 	s	
System configuration	IP address:	192.168.107.234		
E-mail SMS	Subnet mask: Default gateway:	255.255.255.0 192.168.107.254		
Event action System time	DNS:	192.168.100.226		
SNMP configuration		Apply		
Event log Data log	Password			
Help	Old password:			
Serial Port Debug	New password:			
	Confirm password:			
		Apply		
	Trap IP address			
	Trap IP address 1:	192.168.107.56	Apply Delete	~

PDU Web Server 1.0		
	SNIVE configuration Light Gees	
Information	Password	^
Status Basic information	Old password:	
PDU setting	New password:	
Parameters setting	Confirm password:	
Control	Apply	
Real-time control		
System configuration	Trap IP address	
Web E-mail	Trap IP address 1: 192 168 107.56 Apply Delete	
SMS	Trap IP address 2: 0.0.0 Apply Delete	
Event action System time	Trap IP address 3: 0.0.0. Apply Delete	
SNMP configuration	Trap IP address 4: 0.0.0 Apply Delete	
Log		
Event log Data log	SNMP UDP port	
Help	SNMP port: 161 Apply	
Serial Port Debug	Trap receive port: 162 Apply	
	SNMP community string: public Apply	
	Restore the factory settings	
	Confirm restore factory settings? Restore	
		~

Chart 3-11

- 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 automatically obtain IP addresses in default. 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 required length of password is 8~15 digits.
- Trap IP address: It provides 4 static trap addresses in the SNMP device.
- SNMP UDP port: You may change SNMP port and trap port.
- Restore to the default settings
 Note: The system will automatically obtain IP addresses in default and the default password is 12345678.

3.5. Log

3.5.1. Event log

In the Event Log window, history events are listed and can be saved as .csv file. The event log includes PDU warnings, fault info and EMD warnings. Please refer to Chart 3-12.

Select Log >> Event log.

PDU Web Server 1.0			Event log	Logout Administrator
Information		1		
Status Basic information	Time		Event name	
PDU setting	02/12/2014 00:00:33	Connect to time server error		
Parameters setting				
Control				
Real-time control				
System configuration				
Web E-mail SMS				
Event action System time				
Event log Data log				
Help				
Serial Port Debug				
		1		Clear Save as

Chart 3-12

3.5.2. Data Log

In the Data Log window, all history logs will be listed and can be save as .csv file. Please refer to Chart 3-13.

Select Log >> Data log.

PDU Web Server 1.0													
									Data log		Login	Guest	
Information						1							
Status Basic information	Time	voltage (V)	Outlet 1 current(A)	Outlet 2 current(A)	Outlet 3 current(A)	Outlet 4 current(A)	Outlet 5 current(A)	Outlet 6 current(A)	Outlet 7 current(A)	Outlet 8 current(A)	frequency (Hz)	Temp.(° C)	
PDU setting	01/21/2016 11:00:45	223.6	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	50.0	35.0	
Parameters setting Control	01/21/2016 10:59:45	222.3	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	49.9	35.0	
Real-time control	01/21/2016 10:58:46	223.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	49.9	35.0	
System configuration Web	01/21/2016 10:57:45	223.7	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	49.9	35.0	
E-mail SMS	01/21/2016 10:56:45	223.6	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	49.9	35.0	
Event action System time	01/21/2016 10:55:45	222.9	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	49.9	35.0	
SNMP configuration Log	01/21/2016 10:54:45	223.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	50.0	35.0	
Event log Data log	01/21/2016 10:53:46	223.7	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	49.9	35.0	
Help	01/21/2016 10:52:45	222.8	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	49.9	35.0	
Serial Port Debug	01/21/2016 10:51:44	222.5	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	49.9	35.0	
	01/21/2016 10:50:44	224.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	50.0	35.0	
	01/21/2016 10:49:44	223.9	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	50.0	35.0	

Chart 3-13

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 3-14.

Information Send content: OPI Basic information Output window: (Pigo PDU setting Parameters setting (Pigo) Control Real-time control (Pigo) System configuration Veb E-mail SMS Event acton StMP configuration SMMP configuration Log Event tog	PDU Web Server 1.0		Serial Port Debug	Logout Administrator
Data tog Help Serial Port Debug	Information Status Basic information PDU setting Control Real-time control System configuration Web E-mail SMS Event action System time SMMP configuration Log Event log Data log Help Serial Port Debug	Send contend: OPI	Send	Clear

Chart 3-15