Manual

PDU TG-1021

Desktop PDU





© 2013 – Inter-Tech Elektronik Handels GmbH – D-30855 Langenhagen – Germany www.inter-tech.de – vertrieb@inter-tech.de



Table of Contents

1. Introduction	2
2. PDU Package	
3. Function	
4. Installation	5
5. Web Interface	6



1. Introduction

The PDU is an Internet ready device designed and is equipped with an intelligent currentmeter (True RMS) that will indicate the total power consumption of a power strip.

The PDU offers an easy set up and user-friendly communication software. This software provides the function that assistant manager to remotely monitor the multiple PDU power consumption to realize the total current power consumption and utilization for the enterprises.

Features:

- Built-in web server, manager can real time to control power.
- Homepage support SSL.
- Provide per outlet power consumption.
- Send the email and traps when outlet is turned on and off.
- Provide utility, it can monitor a large mount of PDU at the same time.
- Support the SNMP and provide MIB for the PDU to be monitored by NMS.
- Real time to control outlets of PDU.
- Indicate outlets status with LED.
- Schedule control
- Auto reboot the locked device by pinging its IP
- Support network time protocols



2. PDU Package

The standard PDU package contains a Power Distribution Unit with supporting hardware and software. The components of the package are:

- Network Power Manager
- CD-ROM, it contains:
- User Manual.
- Management Utility
- MIB: Management Information Base for Network. (PDUMIB.mib)
- Adobe Acrobat Reader.



3. Function

Interface



Functions	Description
Ethernet	RJ45 port for network communication port.
Reset Button	 Press and hold the key after 6 beeping; it can reset Network Power Manager back to default setting.
LED Indicator	OUTLET (green): Light on means outlet is turned on. POWER (red): Light on means input power is working normally.
	SIGNAL (yellow): Flash after reset is pressed.



The default setting for the way to get IP address is fixed IP. It is 192.168.0.200

Note:

TO SETUP THE NETWORK SYSTEM FOR PDU, STRONGLY RECOMMAND TO BUILD UP THE POWER MONITORING NETWORK SYSTEM ISOLATED WITH THE OTHERS, IN ORDER TO KEEP THE STABILITY OF GETTING POWER INFORMATION AND SYSTEM OPERATION.



5. Web Interface

Login:

Input the PDU IP address in web browser.

Default ID is snmp.

Password is 1234.

R		GER
The server 192. J and password. Warning: This se password be sen without a secure	168.0.59 at Protected re- rver is requesting that yo it in an insecure manner (connection).	quires a username our username and basic authentication
User name:	2	-
<u>U</u> ser name: <u>P</u> assword:	21	
<u>U</u> ser name: <u>P</u> assword:	Remember my p	→ assword



Information: System

Indicate PDU system information, including:

Model No.

Firmware Version

MAC Address

System Name

System Contact

Location

🛃 PDU			
Information	Model No.	NPS-1023J-01N1	
<u>System</u>	Firmware Version	s4.82-120215-1s	
Control	MAC Address	00:16:18:77:38:74	
Outlet	System Name	PDU	
<u>Schedule</u>	System Contact	Admin	
Ping Action	ojotom contact	Admin	
Configuration	Location	Office	
PDU		Apply	
<u>User</u>			
Network			
Mail			
SNMP			
<u>SSL</u>			
<u>Time</u>			



Control: Outlet

Indicate PDU outlet on/off status and control outlet.

Select the outlet by checking the box and then click ON or OFF button to control output power for $\ensuremath{\mathsf{PDU}}$

ON: Press the icon to turn on the assigned outlets.

OFF: Press the icon to turn off the assigned outlets.

OFF/ON: Press the icon to reboot the assigned outlets.

🚼 PDU			
Information	PDU	Status	
<u>System</u>	OutletA	ON	
Control			
Outlet	ON	OFF	OFF/ON
Schedule			
Ping Action			
Configuration			
PDU			
User			
<u>Network</u>			
Mail			
SNMP			
<u>SSL</u>			
Time			



Control: Schedule

Control the assigned outlet by pre-set schedule.

Outlet: Assign the outlet that want to be controlled in this schedule.

Every: Set week's day, assigned day or every day.

Date: When select "sgl" at column of "Every", need to input the truly date here.

Action:	Begin:	End:
ON	Turn on outlet at this time	None
OFF	Turn off outlet at this time	None
OFF/ON	Turn off outlet at this time	Turn on outlet at this time
ON/OFF	Turn on outlet at this time	Turn off outlet at this time

Active: Enable the assigned schedule control.

🛃 PDU							
Information System	Current Tim Outlet (A,B,)	e: 2007/ Every	/01/01 00:13 Date (yy/mm/dd)	:59 Begin (hh:mm)	End (hh:mm)	Action	Active
<u>Outlet</u>	А,	Mon 🔻	09/06/30	07:59	18:30	ON -	
Schedule	А,	Mon 🔻	09/06/30	07:59	18:30	ON -	
Ping Action Configuration	А,	Mon 🔻	09/06/30	07:59	18:30	ON -	
PDU	А,	Mon 🔻	06/01/01	00:07	00:07	OFF -	
<u>User</u> <u>Network</u>	А,	Mon 🔻	06/01/01	00:07	00:07	OFF -	
Mail	А,	Mon 🔻	06/01/01	00:07	00:07	OFF -	
<u>SNMP</u> SSL	А,	Mon 🔻	06/01/01	00:07	00:07	OFF -	
 <u>Time</u>	А,	Mon 👻	06/01/01	00:07	00:07	OFF -	



Control: Ping Action

Automatically reboot the locked device by ping its IP

Ping IP Address: Set the device IP that want to be monitored by ping from PDU.

Response 10 minutes: PDU will ping the assigned IP address each minute one time, if the equipment has not responded, then number will be increased one time, when the continual 10 minutes have not obtained the response, the number will display 10 and PDU will carry out the assigned action automatically.

Action: Select outlet action to "OFF" or "OFF/ON"

Active: Enable this function.

🛃 PDU					
Information	Ping IP Address	Response 10 minutes	Outlet	Action	Active
Control	19.168.23.200	0	OutletA	OFF -	
Outlet					
<u>Schedule</u>					
Ping Action					
Configuration					
PDU					
<u>User</u>					
Network					
Mail					
SNMP					
SSL					
<u>Time</u>					



Configuration: PDU

Set the outlet name and delay time.

- **Name:** Rename the outlet.
- **ON:** Set delay time for power on sequential.
- **OFF:** Set delay time for power off sequential.
- Note: The maximum delay time is 255 seconds.

🛃 PDU				
Information		ON	OFF	
<u>System</u>	Name	Delay (sec)	Delay (sec)	
Control		(300)	(500)	
Outlet	OutletA	1	1	
Schedule				
Ping Action	Apply	Apply	Apply	
Configuration				
PDU				
<u>User</u>				
Network				
Mail				
SNMP				
<u>SSL</u>				
Time				

Note : After PDU is plugged into main power, PDU system will start to sequentially turn on the output socket according to the pre-set delay time in PDU web interface. The factory default setting for delay time is one second for each outlet; therefore the 8 ports PDU will take 8 seconds, 24 ports PDU will take 24 seconds to complete start-up procedure.

Before the sequence procedure is completed, if a PDU is unplugged from the power source, the outlets which are not turned on will be regarded as remaining at the power-off status. Next time the PDU is plugged into main power, these outlets will not be automatically turned on. These outlets can only be turned on by web interface.



Configuration: User

Change ID and password.

Default ID is snmp and password is 1234.

🛃 PDU			
Original			
Password			
New			
Password			
	Apply		
	Protect Prote		



Configuration: Network

PDU network information

Enable DHCP: Change the way to get IP address for PDU.

🛃 PDU			
Information	IP Address		
<u>System</u>	Host Name	DIGIBOARD	
Control			
Outlet	IP Address	192.168.0.200	
<u>Schedule</u>	Subnet Mask	255.255.255.0	
Ping Action	Gateway	192.168.0.254	
Configuration	-	Enable DUCD	
PDU			
<u>User</u>	DNS Server IP		
Network	Primary DNS IP	192.168.0.254	
Mail	Secondary DNS IP	192.168.0.254	
SNMP		Apply	
<u>SSL</u>		(1949)	
Time			



Configuration: Mail

When event occurs, PDU can send out email message to pre-defined account.

Email Server: The Email Server only support to be input domain name, not IP address.

Sender's Email: Input the sender email address.

Email Address: Input the recipient email address.

The message in the email: Indicate OutletA~H-XXXXXXX status in order X=0 : means the power off. X=1 : means the power on.

Note: Make sure DNS server can resolve the Email Server's domain name.

🚼 PDU			
Information	Email Setting		
<u>System</u>	Email Server	mail.your.com	
Control			
Outlet	Sender's Email	sender@yourcom.com	
<u>Schedule</u>	Recipient's En	nail Address	
Ping Action	Email Address		
Configuration		Apply	
PDU		Арріу	
<u>User</u>			
Network			
Mail			
SNMP			
<u>SSL</u>			
<u>Time</u>			



Configuration: SNMP

When event occurs, PDU can send out trap message to pre-defined IP address.

Trap Notification: Set receiver IP for trap.

Community: Set SNMP community.

Read Community is public and fixed.

Default Write Community is "public" and can be modified by user.

🛃 PDU				
Information	Trap Notification			
<u>System</u>	Receiver IP	192.168.0.1		
Control				
Outlet		Apply		
<u>Schedule</u>	Community			
Ping Action	Read	public		
Configuration	Write	public		
PDU				
<u>User</u>		Арріу		
Network				
Mail				
SNMP				
<u>SSL</u>				
<u>Time</u>				



Configuration: SSL

Enable SSL for web communication.

User must input the correct ID and password to enable SSL function. The ID and password must be the same with the setting in "User".

🚼 PDU				
Information	Enable SSL			
<u>System</u>	Confirmation			
Control				
Outlet	ID			
Schedule	Password			
Ping Action		Apply		
Configuration				
PDU				
<u>User</u>				
Network				
Mail				
<u>SNMP</u>				
SSL				
Time				



Configuration: Time

Set the time for schedule control.

Internet Time Setting: Get time from the assigned network time server.

System Time: Input time manually.

🛃 PDU			
Information	Internet Time Setting		
<u>System</u>	Time Between Updates	NO 🔻	
Control			
Outlet	Primary Time Server	pool.ntp.org	
Schedule	Secondary Time Server	asia.pool.ntp.org	
Ping Action	Time Zone	GMT+8:00 -	
Configuration			
PDU		Apply	
User	System Time 2007/01/01 00:12:43		
Network	System Time	2007/01/01 00:12:39	
Mail	(yyyy/mm/dd hh:mm:ss)		
<u>SNMP</u>		Apply	
<u>SSL</u>			
Time			