



IPower Switch Pro 8

User Manual
Benutzerhandbuch
Manuel Utilisateur
Manuale

English
Deutsch
Français
Italiano



No. 32659

lindy.com



Introduction

Thank you for purchasing the IPower Switch Pro 8. This product has been designed to provide trouble free, reliable operation. It benefits from both a LINDY 2 year warranty and free lifetime technical support. To ensure correct use, please read this manual carefully and retain it for future reference.

This IPower Switch Pro 8 is an advanced power management solution which connects to your existing network infrastructure to provide convenient remote control power management and monitoring of equipment. System administrators can control the power to multiple servers, workstations, hubs, switches, routers etc allowing reboot and power-on and off functions, via a simple to use browser interface.

Package Contents

- IPower Switch Pro 8
- Brackets and Screws for mounting
- Lindy Quick Installation Guide, OpenSource Statement

Features

1. Remote management switch for up to 8 computers or other devices
2. Daily, Weekly, Monthly & Yearly Power Consumption Data
3. IPv4 and IPv6 Support
4. SSL Web Browser (Https) for set up and operation
5. Quick and easy to install

Installation

Login

Power on your PDU and connect the Ethernet cable. Press and hold the “Function” button and release the button after 2 beeps, the “Meter” will display 4 numbers in sequence; this is the PDU’s IP address. If the PDU can’t get an IP from the DHCP server, the IP will stay as the default - 192.168.0.216. Make sure that servers IP address is in the same subnet as the PDU’s IP. Input IP address to your web browser and then check the PDU information.

1. Default Login Name is “snmp” and default Login Password is “1234”.



LINDY
CONNECTION PERFECTION

IPower Switch Pro 8

Login Name:

Login Password:

2. You can add up to 8 user accounts.
 - a. Admin (Full authority, control and configuration permission). Default Login Name "snmp", default Login Password "1234".
 - b. Power User (Monitoring PDU, control the specific outlets. No permission for configurations). Default Login Password "password".
 - c. View Only (Monitoring PDU. No permission to control or configure the PDU)



Information		Management		Configuration											
Network		Security		User		Mail		SNMP		Time		Radius		Log	
Users (Max. 8 users)															
No.	User	New Password	Confirm	Permission	Email										
01	snmp			Administrator											
															New

Information - Overview

On this tab you will find a summary of all values, event logs and the outlet status.



Information		Management		Configuration			
Overview		System		Event Log		Data Log	
Summary							
Total PDU Current	0 Amp	Normal					
Temperature(1)	N/A						
Humidity(1)	N/A						
Temperature(2)	N/A						
Humidity(2)	N/A						
Event Log							
Date	Time	Event					
2019/01/23	19:39:41	Web user [snmp] logged out from 192.168.10.188					
2019/01/23	19:39:12	Web user [snmp] logged in from 192.168.10.188					
2019/01/23	19:25:36	OutletH has been turned on by (Boot up)					
2019/01/23	19:25:35	OutletG has been turned on by (Boot up)					
2019/01/23	19:25:34	OutletF has been turned on by (Boot up)					
Outlet Status							
No.	Status	Setting	Name				
1	●		OutletA				
2	●		OutletB				
3	●		OutletC				
4	●		OutletD				
5	●		OutletE				
6	●		OutletF				
7	●		OutletG				
8	●		OutletH				
Status: Normal							
2019/01/23 20:12:36							

Information – System

On this tab you will find all necessary information regarding system, network and SNMP.



Information Management Configuration
 Overview **System** Event Log Data Log

System Information

Model Number	32659
Firmware Version	Ver 1.04_201705221732
System Uptime	System has been up for : 0 day(s) , 0 hour(s) , 48 minute(s) , 13 second(s) , since 01/23/2019 07:25:16 PM

Network Information

IPv4 Address	192.168.10.158
IPv6 Address	192:168:0::127
MAC	00:13:48:03:31:53

SNMP System Information

System Name	pdu
System Contact	admin
System Location	office

Status: Normal
 2019/01/23 20:13:36

Information – Event Log

On this tab you will find all event logs. It's possible to log up to 5000 entries.



Information Management Configuration
 Overview System **Event Log** Data Log

Log Setting

Event Time	☒ Last ☐ From	All Logs ▼ 2011/08/08 12:00:00 ~ 2011/09/08 12:00:00
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Event Log

Date	Time	Event
2019/01/23	20:11:42	Web user [snmp] logged in from 192.168.10.188
2019/01/23	19:39:41	Web user [snmp] logged out from 192.168.10.188
2019/01/23	19:39:12	Web user [snmp] logged in from 192.168.10.188
2019/01/23	19:25:36	OutletH has been turned on by (Boot up)
2019/01/23	19:25:35	OutletG has been turned on by (Boot up)
2019/01/23	19:25:34	OutletF has been turned on by (Boot up)
2019/01/23	19:25:33	OutletE has been turned on by (Boot up)
2019/01/23	19:25:32	OutletD has been turned on by (Boot up)
2019/01/23	19:25:31	OutletC has been turned on by (Boot up)
2019/01/23	19:25:30	OutletB has been turned on by (Boot up)

Filter Clear
 < >

Status: Normal
 2019/01/23 20:13:59

Information – Data Log

On this tab you will find all data logs. It's possible to log up to 5000 entries.



Information Management Configuration
 Overview System Event Log **Data Log**

Data Log
 Log Filter 2019/01/23 00:00:00 ~ 2019/01/23 23:59:59

Date Time	Amp	Temp.-1.C	Temp.-2.C	Hum.-1.%	Hum.-2.%
2019/01/23 20:05:34	0.0	na	na	na	na
2019/01/23 19:55:34	0.0	na	na	na	na
2019/01/23 19:45:34	0.0	na	na	na	na
2019/01/23 19:35:34	0.0	na	na	na	na

Status: Normal
 2019/01/23 20:14:22

Management – Control

This tab is for controlling a single or group outlets.

ATS Primary Input Selection: Select one of the input sources as primary (Support ATS mode only)



Information **Management** Configuration
Control Schedule Ping Action Event Action Device Threshold

Outlet Control

No.	☐	Group	Outlet

Outlet Control

No.	☐	Outlet	Status	Task	Delay On (Sec)	Delay Off (Sec)
1	☐	OutletA	ON	Free	1	1
2	☐	OutletB	ON	Free	2	2
3	☐	OutletC	ON	Free	3	3
4	☐	OutletD	ON	Free	4	4
5	☐	OutletE	ON	Free	5	5
6	☐	OutletF	ON	Free	6	6
7	☐	OutletG	ON	Free	7	7
8	☐	OutletH	ON	Free	8	8

Status: Normal
 2019/01/23 20:14:53

Management – Schedule

On this tab it's possible to add and modify the schedule settings by date and time for all outlets or outlet groups.



Information
Management
Configuration

Control
Schedule
Ping Action
Event Action
Device
Threshold

Schedule Setting

Outlet	OutletA (1) ▼
Outlet Action	ON ▼
Date (yyyy/mm/dd)	☒ Once ☐ Every Sunday ▼
Time (hh:mm)	
Add Modify	

Schedule List

No.	☐	Item	Date	Time	Action	Enable
-----	--------------------------	------	------	------	--------	--------

Status: Normal
 2019/01/23 20:15:16

Management – Ping Action

This tab can be used to reboot the locked device by pinging its IP.



Information
Management
Configuration

Control
Schedule
Ping Action
Event Action
Device
Threshold

Ping Action Setting

Outlet	OutletA (1) ▼
IP Address	
Response Time	5min ▼
Outlet Action	ON ▼
Add Modify	

Ping Action List

No.	☐	Outlet	IP Address	Response Time	Action	Enable
-----	--------------------------	--------	------------	---------------	--------	--------

Status: Normal
 2019/01/23 20:15:33

Management – Event Action

This tab allows you to configure the outlet actions for current, temperature and humidity over threshold. Receive Trap OID equal to: Users can input the private OID to trigger the specified outlet action.

LINDY
CONNECTION PERFECTION

Information **Management** Configuration
Control Schedule Ping Action **Event Action** Device Threshold

Event Action Setting

Event

☐ Device ▼ Warning threshold ▼ Occurs ▼

☐ ENV (1) ▼ Temperature Overrun ▼ Occurs ▼

☐ Receive Trap .1.3.6.1.4.1. [] Value Ignore ▼ []

☐ from []

Action

OutletA (1) ▼ delay [] second(s) turn ON ▼ None ▼

Add Modify

Event List

Delete

No.	Event	Action	Enable
☐			

Status: Normal 2019/01/23 20:16:06

Management – Device

Maximum length of characters for outlet names: 36
Maximum time for delay (on/off): 9999 seconds

After Restart:

Define the outlet action after power restart.

Last Status: After power restart, outlets remain the same power status.

ON: Turn on outlets after power restart.

OFF: Turn off outlets after power restart.

Please Note:

After the PDU is plugged into mains power, the system will start to sequentially turn on the output sockets according to the pre-set delay time in the PDU web interface. The factory default setting for delay time is one second for each outlet; therefore the 8 ports will take 8 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 mains power, these outlets will not be automatically turned on. These outlets can only be turned on by the web interface.

Reset Accumulated Energy: Subtotal for energy (kWh). Users can reset it to 0 and have the PDU restart calculating.

Carbon Emission Rate: Users can check this parameter through power plant.

Information Management Configuration
Control Schedule Ping Action Event Action Device Threshold

Outlet Configuration

No.	Outlet Name	Delay Onsecond(s)	Delay Offsecond(s)	After Restart	Owner
0	All Outlet			Last Status ▼	snmp ▼
1	OutletA	1	1	Last Status ▼	snmp ▼
2	OutletB	2	2	Last Status ▼	snmp ▼
3	OutletC	3	3	Last Status ▼	snmp ▼
4	OutletD	4	4	Last Status ▼	snmp ▼
5	OutletE	5	5	Last Status ▼	snmp ▼
6	OutletF	6	6	Last Status ▼	snmp ▼
7	OutletG	7	7	Last Status ▼	snmp ▼
8	OutletH	8	8	Last Status ▼	snmp ▼

Apply

Status: Normal

2019/01/23 20:16:39

Management – Threshold

This tab is to configure thresholds for current, temperature and humidity.

Information Management Configuration
Control Schedule Ping Action Event Action Device Threshold

ENV Threshold Configuration

No.	Device	Temperature(C)		Humidity(%)		
		Lower	Upper	Lower	Upper	
01	ENV 1	0	99	0	99	Modify
02	ENV 2	0	99	0	99	Modify

Device Threshold Configuration

No.	Device	Warning	Overload	
01	Device	12	16	Modify

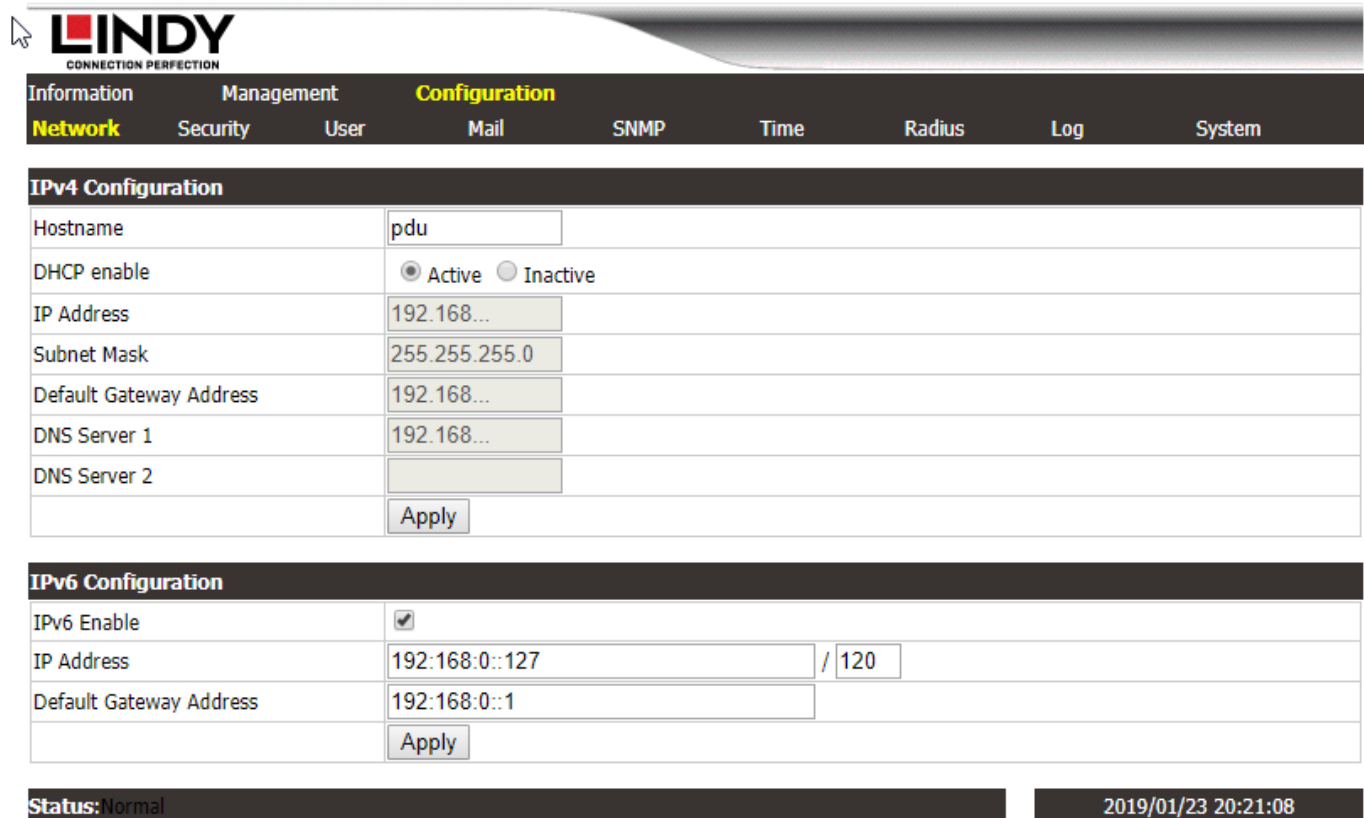
Status: Normal

2019/01/23 20:19:45

Configuration – Network

This tab is for IP Address configurations. The default setting for the way to get an IP address is DHCP. If the PDU can't get the IP from DHCP server, the IP address will stay at 192.168.0.216

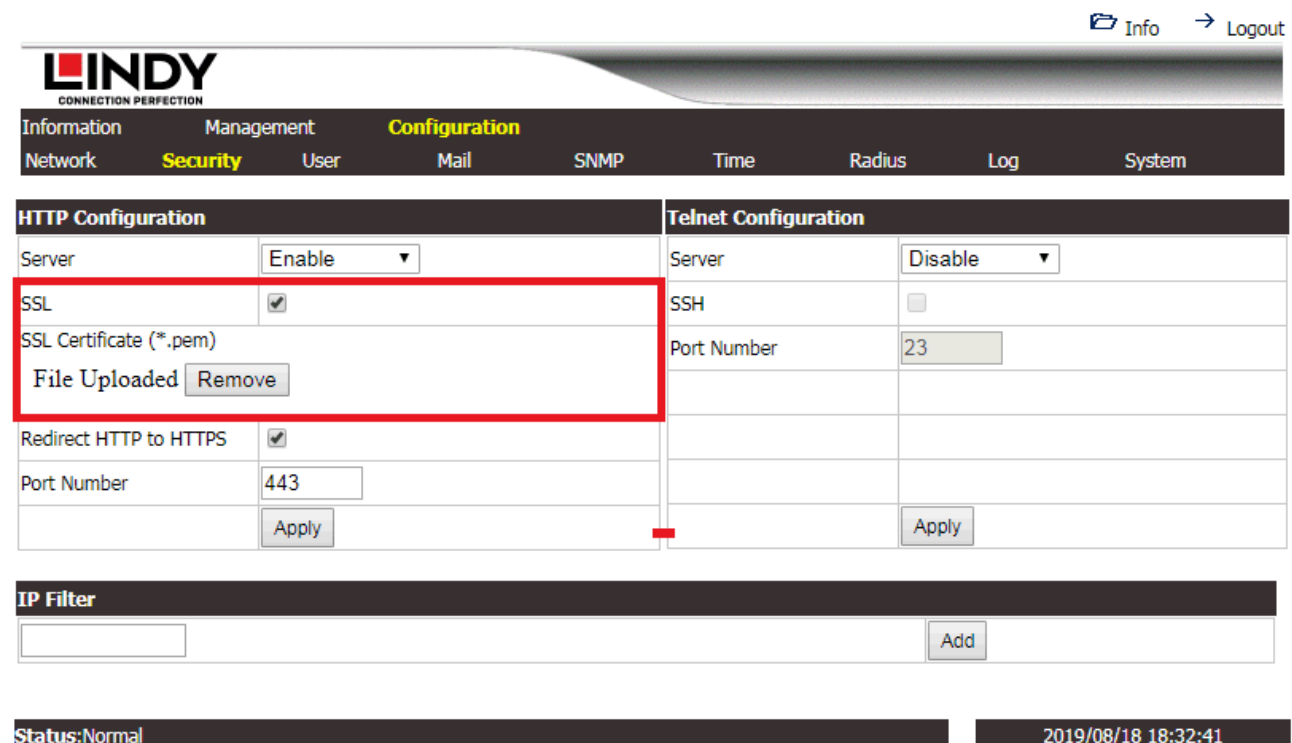
The maximum length of the host name is 36 characters.



The screenshot shows the LINDY web interface for Network Configuration. The top navigation bar includes 'Information', 'Management', and 'Configuration'. Under 'Configuration', there are tabs for 'Network', 'Security', 'User', 'Mail', 'SNMP', 'Time', 'Radius', 'Log', and 'System'. The 'Network' tab is active, showing the 'IPv4 Configuration' section. It includes fields for Hostname (pdu), DHCP enable (Active), IP Address (192.168...), Subnet Mask (255.255.255.0), Default Gateway Address (192.168...), DNS Server 1 (192.168...), and DNS Server 2. An 'Apply' button is at the bottom. Below this is the 'IPv6 Configuration' section with fields for IPv6 Enable (checked), IP Address (192:168:0::127 / 120), and Default Gateway Address (192:168:0::1). Another 'Apply' button is present. At the bottom, a status bar shows 'Status: Normal' and the timestamp '2019/01/23 20:21:08'.

Configuration – Security

This tab is to configure the setup for Web, SSL, SSH and Telnet. For SSH and Telnet the default user name is "snmp" and the password is "1234". It also contains the SSL Certificate upload function.



The screenshot shows the LINDY web interface for Security Configuration. The top navigation bar is the same as the previous page, but the 'Security' tab is active. The 'HTTP Configuration' section on the left includes a 'Server' dropdown set to 'Enable', an 'SSL' checkbox checked, an 'SSL Certificate (*.pem)' field with a 'File Uploaded' button and a 'Remove' button, a 'Redirect HTTP to HTTPS' checkbox checked, a 'Port Number' field set to 443, and an 'Apply' button. The 'Telnet Configuration' section on the right includes a 'Server' dropdown set to 'Disable', an 'SSH' checkbox unchecked, a 'Port Number' field set to 23, and an 'Apply' button. Below these sections is an 'IP Filter' section with an empty input field and an 'Add' button. At the bottom, a status bar shows 'Status: Normal' and the timestamp '2019/08/18 18:32:41'.

Configuration – Mail

This tab is to configure messages to pre-defined accounts when different events are occurring.



Information	Management	Configuration
Network	Security	User
	Mail	SNMP
		Time
		Radius
		Log
		System

Mail Configuration

Email Server	smtp.gmail.com
Port Number	587
TLS/SSL	Yes
Email Server Requires Authentication	Yes
Account	snmp
Password	
Test	example@gamil.com Send
	Apply

Status: Normal
 2019/01/23 20:22:19

Configuration – SNMP

This tab is to configurate network management protocols. Supports SNMPv1, v2 and v3.



Information	Management	Configuration
Network	Security	User
	Mail	SNMP
		Time
		Radius
		Log
		System

SNMP Configuration

SNMP Enable	☒ Active ☐ Inactive
System Name	pdu
System Contact	admin
System Location	office
Apply	

Communication Configuration v1 & v2

No.	Access Type	Community
1.	read-only	public
2.	read-write	private
3.	Not Accessible	
4.	Not Accessible	
5.	Not Accessible	
6.	Not Accessible	
7.	Not Accessible	
8.	Not Accessible	
Apply		

Communication Configuration v3

No.	Access Type	User	Auth Type	Authentication	Encryption
1.	Not Accessible ▼		noauth ▼	MD5 ▼	AES ▼
2.	Not Accessible ▼		noauth ▼	MD5 ▼	AES ▼
3.	Not Accessible ▼		noauth ▼	MD5 ▼	AES ▼
4.	Not Accessible ▼		noauth ▼	MD5 ▼	AES ▼
5.	Not Accessible ▼		noauth ▼	MD5 ▼	AES ▼
6.	Not Accessible ▼		noauth ▼	MD5 ▼	AES ▼
7.	Not Accessible ▼		noauth ▼	MD5 ▼	AES ▼
8.	Not Accessible ▼		noauth ▼	MD5 ▼	AES ▼

Trap Configuration v1 & v2

No.	Enable	IP Address	Community
1.	No ▼		
2.	No ▼		
3.	No ▼		
4.	No ▼		

Trap Configuration v3

No.	Enable	IP Address	User	Auth Type	Authentication	Encryption
1.	No ▼			noauth ▼	MD5 ▼	AES ▼
2.	No ▼			noauth ▼	MD5 ▼	AES ▼
3.	No ▼			noauth ▼	MD5 ▼	AES ▼
4.	No ▼			noauth ▼	MD5 ▼	AES ▼

Status: Normal

2019/01/23 20:23:47

Configuration – Time

This tab is to configure time manually or by NTP for schedules and log records.

LINDY
CONNECTION PERFECTION

InformationManagement**Configuration**
NetworkSecurityUserMailSNMP**Time**RadiusLogSystem

Time Configuration

Set Date	2019Year01Month23Day
Set Time	20:26:17 (hh:mm:ss)
	Apply

SNTP Configuration

SNTP	☐ Active ☒ Inactive
Primary Timer Server	pool.ntp.org
Secondary Time Server	asia.pool.ntp.org
Time Between Automatic Updates	10mins ▾
Time Zone (Relative to GMT)	GMT ▾
	Apply

Status:Normal2019/01/23 20:26:19

Configuration – Radius

The system supports the Remote Authentication Dial-in User Service protocol. (RADIUS). It provides a centralized network protocol to enable remote authentication and authorization.

LINDY
CONNECTION PERFECTION

InformationManagement**Configuration**
NetworkSecurityUserMailSNMPTime**Radius**LogSystem

Radius Configuration

RADIUS	Disable ▾
Primary Server	
Shared Secret	
Port Number	
Timeout	
Retries	
Secondary Server	
Shared Secret	
Port Number	
Timeout	
Retries	
	Apply

Status:Normal2019/01/23 20:26:37

Configuration – Log

Export: Export events and data log in text format. Set the date to mail kWh usage information.

Syslog: Send event log to specified syslog server.

Heartbeat Trap: Send trap to the specified IP to indicate PDU is alive.

Event Log: Check the box to enable to log the specified event



Information Management **Configuration**

Network Security User Mail SNMP Time Radius **Log** System

Export Data Configuration

Event Log	Export
Data Log	Export

Syslog Configuration

Primary Server	
Secondary Server	
Port Number	
	Apply

Data Log Configuration

Data Log Interval	10mins ▼
	Apply

Heartbeat Trap Configuration

Heartbeat Interval	☒ Disable
	Sec
	Apply

Event Log Configuration

System Events	Enable
User Log in	☒
System Configuration Change	☒
Power Events	Enable
Outlet On	☒
Outlet Off	☒
Outlet Fault	☒
Actual Current Exceeding the Warning Threshold	☒
Actual Current Exceeding the Overload Threshold	☒
ENV Events	Enable
Environmental Temperature Overrun	☒
Environmental Temperature Underrun	☒
Environmental Humidity Overrun	☒
Environmental Humidity Underrun	☒
	Apply

Status: Normal

2019/01/23 20:26:55

Configuration – System

System: Export to backup system configuration. Import system configuration from backup file.

Firmware Upgrade: Update: Keep all configurations after complete firmware upgrade. Update and reset: Reset all configuration back to default after complete firmware upgrade.

Reset System: Restart network system through web.

Temperature Scale: Switch temperature unit between Celsius and Fahrenheit.

Hardware Reset: Define reset action. The reset procedure is to press and hold the Button Definition key on the front panel of the PDU, release it after hearing 6 beeps.



Information Management **Configuration** Network Security User Mail SNMP Time Radius Log **System**

Language / 語言

English ▼

System Configuration

Configuration Export	Export
Configuration Import	Datei auswählen Keine ausgewählt Upload
	Update

Firmware Upgrade

Firmware Upload	Datei auswählen Keine ausgewählt Upload
	Update Update and Reset

Reset System

☒	Reset All Setting Back to Factory Default
☐	Reset All Setting Back to Factory Default Except the IP Address
	Apply

Hardware Reset Button Definition

☒	Reset All Setting Back to Factory Default
☐	Reset Administrator's Password to Default Only
☐	Disable (Please note if you forget the password, you can not recover the system anymore!)
	Apply

Temperature Scale

☐	Fahrenheit F
☒	Celsius C
	Apply

Auto Logout

	10 ▼ minutes
	Apply

Status: Normal

2019/01/23 20:27:22

CE/FCC Statement

CE Certification

This equipment complies with the requirements relating to Electromagnetic Compatibility Standards. It has been manufactured under the scope of RoHS compliance.

CE Konformitätserklärung

Dieses Produkt entspricht den einschlägigen EMV Richtlinien der EU für IT-Equipment und darf nur zusammen mit abgeschirmten Kabeln verwendet werden.

Diese Geräte wurden unter Berücksichtigung der RoHS Vorgaben hergestellt.

Die formelle Konformitätserklärung können wir Ihnen auf Anforderung zur Verfügung stellen

FCC Certification

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

You are cautioned that changes or modification not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

LINDY Herstellergarantie – Hinweis für Kunden in Deutschland

LINDY gewährt für dieses Produkt über die gesetzliche Regelung in Deutschland hinaus eine zweijährige Herstellergarantie ab Kaufdatum. Die detaillierten Bedingungen dieser Garantie finden Sie auf der LINDY Website aufgelistet bei den AGBs.

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Recycling Information



WEEE (Waste of Electrical and Electronic Equipment), Recycling of Electronic Products

Europe, United Kingdom

In 2006 the European Union introduced regulations (WEEE) for the collection and recycling of all waste electrical and electronic equipment. It is no longer allowable to simply throw away electrical and electronic equipment. Instead, these products must enter the recycling process.

Each individual EU member state has implemented the WEEE regulations into national law in slightly different ways. Please follow your national law when you want to dispose of any electrical or electronic products. More details can be obtained from your national WEEE recycling agency.

Germany / Deutschland

Rücknahme Elektroschrott und Batterie-Entsorgung

Die Europäische Union hat mit der WEEE Direktive Regelungen für die Verschrottung und das Recycling von Elektro- und Elektronikprodukten geschaffen. Diese wurden im Elektro- und Elektronikgerätegesetz – ElektroG in deutsches Recht umgesetzt. Das Entsorgen von Elektro- und Elektronikgeräten über die Hausmülltonne ist verboten! Diese Geräte müssen den Sammel- und Rückgabesystemen zugeführt werden! Dort werden sie kostenlos entgegen genommen. Die Kosten für den weiteren Recyclingprozess übernehmen die Gerätehersteller.

LINDY bietet deutschen Endverbrauchern ein kostenloses Rücknahmesystem an, beachten Sie bitte, dass Batterien und Akkus den Produkten vor der Rückgabe an das Rücknahmesystem entnommen werden müssen und über die Sammel- und Rückgabesysteme für Batterien separat entsorgt werden müssen. Ausführliche Informationen zu diesen Themen finden Sie stets aktuell auf der LINDY Webseite im Fußbereich.

France

En 2006, l'union Européenne a introduit la nouvelle réglementation (DEEE) pour le recyclage de tout équipement électrique et électronique.

Chaque Etat membre de l' Union Européenne a mis en application la nouvelle réglementation DEEE de manières légèrement différentes. Veuillez suivre le décret d'application correspondant à l'élimination des déchets électriques ou électroniques de votre pays.

Italy

Nel 2006 l'unione europea ha introdotto regolamentazioni (WEEE) per la raccolta e il riciclo di apparecchi elettrici ed elettronici. Non è più consentito semplicemente gettare queste apparecchiature, devono essere riciclate. Ogni stato membro dell' EU ha tramutato le direttive WEEE in leggi statali in varie misure. Fare riferimento alle leggi del proprio Stato quando si dispone di un apparecchio elettrico o elettronico.

Per ulteriori dettagli fare riferimento alla direttiva WEEE sul riciclaggio del proprio Stato.

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www.lindy.com

