User Manual

IP PDU

Introduction:

LIU-0816-WN is a PDU product designed to provide continuous and stable power supply for servers. LIU-0816-WN monitors the power consumption status and environmental status of the equipment, and provides users with corresponding information and makes corresponding warning and overload power-off measures. Users can access LIU-0816-WN through the network port to obtain the current status of the device and control the opening and closing of each output port, so as to realize the function of remote restart of the server.

Product Features:

8 power output, the total current 16A;

Current and voltage (total input) measurement;

Built in temperature and humidity sensor to monitor the use environment of the equipment;

Embedded technology, support Java, web browsing;

Two level values of warning and overload can be set;

Setting the power on delay time of each circuit can effectively prevent the impact of current surge on the power supply system;

LED indicates the power supply status of each switch;

LED digital display shows the current voltage and current values;

Provide local operation query button of PDU device;

Built in lightning protection circuit, anti voltage surge circuit, effective protection of the server;

LIU-0816WN
IEC320 C20*1
IEC320 C13*8
RJ 45
110-240V 50/60Hz
110-240V 50/60Hz
16A overload protection, lightning protection
90-264V AC resolution 1 V
0-20A resolution 0.1 A
0°C~50°C resolution 1°C
20% -90%RH resolution 1%RH
Metal
442*119*44.5mm

Specification:

Product Diagram:





Instructions:

- 1、 Power Input Socket IEC320 C20
- 2、 Output Socket IEC C13
- 3、 Reset Key
- 4、 Function Key, Check the machine IP address
- 5. Meter Panel, Display voltage, current, temperature, humidity, etc
- 6. Temperature and humidity sensor
- 7、 Network Port, Connect LAN or WAN

Using Directions:

1. Equipment connection Connect LIU - 0816-8 IEC C13 output plug with one side of the output line,

connect 8 output line respectively with the power input end of the server which needs power supply. Connect one side of input line plug with the LIU - 0816 - WN IEC320 C20 input socket, and the other side with the AC power supply socket. After that, LIU - 0816 - WN will start from the first port to the 8th port with interval of 1 second, and supply power for the server. Display panel will show the current supply voltage and total output current of 8 circuits, 8 LED indicator light indicates the state of current 8 output port.

2. Check the IP address The display will show LIU - 0816 - current IP address after pressing the FUNC button when the display shows the voltage and current. The default IP address is 192.168.0.100

3. Check the temperature and humidity The display will show temperature and humidity of LIU - 0816 - WN built-in temperature and humidity sensor after pressing the FUNC button in the state of screen shows the IP address. The left screen shows temperature and the right screen shows humidity.

4. Reset of the equipment Press the LIU - 0816 - WN RST button on the front panel, it will reset.

5. Reset the device to the factory default value. Press the FUNC key for 10-15 seconds and hear the buzzer beep twice, indicating that the device's IP address, username, and password have been restored to the factory default value

6. Network access and control With LIU - 0816 - WN power-on, users can achieve the function that PC host access and control LIU - 0816 - WN in the same LAN by connecting RJ45 socket with network

①. Login control interface Open the IE browser on any PC in LAN host, the address bar: <u>Http://192.168.0.100</u>, uses can login LIU - 0816 - WN control interface after inputting user name (admin), password (admin) in the jumped login screen as shown in the picture below.

	PDU
	Loading: nullA Temp: null'C Moisture: null% Status: normal
Info	PDU
PDU	PDU: Current: 0.0A Status: normal
System	Threshold
Control	Voltage
Socket	Warning 250v
Allocation	Overload 300v
PDU	Current:
Threshold	Warning 17A
User	Overload 17A
Internet	Temperature:
	Warning(≤) 5
	Overload (\geq) 50
	Moisture:
	Warning: 80%

②. PDU system information Click the "System" on the left side of the information bar, to indicate the PDU system information as the following picture.

Item No.	IP PDU	
Firmware Version	1.0.0	
MAC Address		00:04:A3:00:00:00
System Name		IP PDU
Admin		admin
System Address		office
		Apply

③. The power port control Click "Socket" in the control bar which is on the left side of the interface, display as shown below.

Soket Name	Status	
outlet 1	on	
outlet2	on	
outlet3	on	
outlet4	on	
outlet5	on	
outlet6	on	
outlet7	on	
outlet8	on	
	Operate On 💌	Apply

Users can start or shut off LIU - 0816 - WN 8-way output in this interface.

Start all: click drop-down box behind the action box, choose "Start", click the "Apply" button Shut off all : click drop-down box behind the action box, choose "Shut off", click the "Apply" button

Custom start and shut off : illustrate the method of custom start and shut off, if the user needs to start 1, 2, 3, 4 circuit, but shut off 5, 6, 7, 8, the first method: click the drop-down box behind the action box, choose "Start". And then, click the small box behind outlet1, outlet2, outlet3, outlet4 respectively, click "Apply" button. The second method: click the drop-down box behind the action box, choose "Shut off ". And then, click the small box behind outlet7, outlet8 respectively, click "Apply" button.

④. Start and shut off time-delay Click "PDU" in the configuration box which is on the left side of the interface, display interface as shown below.



Users can start or shut off time-delay of LIU - 0816 - WN 8-way output. The picture above is the factory Settings, it means that the 8 circuit of LIU - 0816 - WN will output from the 1st to the 8th port in sequence in the interval of one second after connecting with power. When open the 8 output through the network, the starting delay time will display on the 8 output port. It is important to note that when the user disconnect the input power of LIU - 0816 - WN, shutting off the time-delay function is invalid. Shutting off the time-delay function is only applicable to control 8-way output through a network.

⑤. Threshold value setting Click "Threshold value" in the configuration box which is on the left side of the interface, display interface as shown below.



The picture above is the factory Settings, the meaning is:

Current warning value 5A: When the total current exceeds 5A, the buzzer of LIU-0816-WN emits a "beep" alarm with a slightly longer interval

Current overload value 6A: When the total current exceeds 6A, the buzzer of LIU-0816-WN emits a "beep" alarm with a short interval sound

Warning voltage 250V: When the input voltage exceeds 250V, the buzzer of LIU-0816-WN emits a "beep" sound alarm

Current overload value 300V: When the input voltage exceeds 300V, the buzzer of LIU-0816-WN emits a short beep interval sound alarm

Temperature is under 5 $^{\circ}$ C, or exceed 50 $^{\circ}$ C: When LIU - 0816 - WN built-in temperature and humidity sensor sensing the environment temperature is under 5 $^{\circ}$ C or exceed 50 $^{\circ}$ C, LIU - 0816 - WN buzzer sends out "beep, beep" sound alarm

Humidity warning value 80%: When LIU - 0816 - WN built-in temperature and humidity sensor sensing environment humidity is more than 80%, LIU - 0816 - WN buzzer sends out "beep, beep" sound alarm

Explanation: The specific threshold setting is set by the user according to the actual usage environment

(6). The user name and password setting Click "user" in the configuration box which is on the left side of the interface, display interface as shown below.

Old	
User Name	
Password	
New	
User Name	
User Name Password	
	word

The login user name and password of LIU - 0816 - WN can be modified in this interface. After filling in the original and new user name, password and password confirmation respectively, click apply button, the new user name and password will be used at the next time login LIU - 0816 - WN.

⑦. IP address and DNS Setting. Click "network" in the configuration box which is on the left side of the interface, display interface as shown below.

lost Name	PDUBOARD
P Address	192.168.0.74
Subnet Mask	255.255.255.0
Gateway	192.168.0.1
	DHCP
DNS	
Primary DNS IP	180. 168. 255. 118
Secondary DNS IP	116.228.111.18
	Apply

Host name: The name showed in the LAN, users can set itself IP address: The current LAN IP address of LIU - 0816 - WN Subnet mask: The current LAN subnet mask of LIU - 0816 - WN Gateway: The current gateway of LIU - 0816 - WN Enable the DHCP: The superior router of the current LAN will distribute network parameters automatically for LIU - 0816 - WN, it will come into force after clicking the apply button Primary DNS IP refer to the supervisor router setting of current LAN Secondary DNS IP refer to the supervisor router setting of current LAN