User Manual PIS301

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CONTENT

1	Brief introduction	3
	1.1 Function introduction	3
	1.2 Brief uses introduction	4
2	Product appearance	5
	2.1 Product appearance drawing	5
	2.2 Product port introduction	6
	2.3 Introduction of product signal light	6
3	UPSViewer setting	7
	3.1 Hardware installation	7
	3.1.1 UPSViewer card slot installation	7
	3.1.2 UPSViewer installation	7
	3.1.3 Temperature & humidity sensor installation	8
	3.1.4 Water leakage sensor installation	9
	3.1.5 SMS alarm installation	9
	3.2 Software installation	.10
	3.3 UPSViewer using step	.10
	3.4 IPsearch function introduction	.13
	3.4.1 IPsearch instruction	.13
	3.4.2 Use IPsearch software to assign dynamic IP address to UPSViewer	.13
	3.4.3 Use IPsearch software to manually set a static IP address for UPSViewer	.14
	3.4.4 Use IPSearch to open UPSViewer webpage	.14
	3.5 Check computer network information	.15
4	UPSViewer webpage introduction	17
	4.1 UPSViewer webpage functions	.17
	4.2 Open UPSViewer webpage	.17
	4.3 Introduction to user navigation with different permissions	.17
	4.4 System overview	.18
	4.5 UPS	23
	4.5.1 Current Status	
	4.5.2 Device Information	
	4.6 Expansion Equipment (this navigation bar will only be displayed when	the
	expansion device is connected)	
	4.6.1 Automatically search and add devices (search for devices)	
	4.6.2 Manually add device	29
	4.6.3 Delete expansion device	.33
	4.7 Alarm Management	33
	4.7.1 Current Alarms	.33
	4.7.2 History Record	.34
	4.7.3 Operation Log	.35
	4.8 Data Management	.35
	4.8.1 History Data	.35
	4.8.2 Data Chart	35

	4.9 Settings (administrator user specific permissions)	
	4.9.1 Monitoring Settings	
	4.9.2 COM Settings	
	4.9.3 Device management	
	4.9.4 SNMP Settings	
	4.9.5 TCP/IP	
	4.9.6 Alarm Settings	
	4.9.7 Email Settings	
	4.9.8 SMS Settings	
	4.9.9 Time Settings	
	4.9.10 Language Settings	
	4.9.11 User Management	
	4.9.12 Config Settings	
	4.9.13 Factory Reset	
5	Support (Help)	
	5.1 Hide & Change Logo	
	5.1.1 Hide Logo	
	5.1.2 Change Logo	

1 Brief introduction

1.1 Function introduction

UPSViewer is an intelligent UPS network monitoring card that allows UPS to have network monitoring functions. This product provides multiple network access interfaces, which can easily meet the UPS monitoring requirements in various scenarios.

If you want to see the current working status of the UPS, you can simply open any browser and log in to UPSViewer directly to see all the UPS operating data. If you want to connect the UPS to a centralized management platform, UPSViewer provides rich third-party interfaces such as SNMP (Simple Network Management Protocol), Modbus TCP, and MQTT. UPSViewer itself is also equipped with its own centralized management software and Internet of Things monitoring platform to meet the different needs of customers.

UPSViewer comes with a complete alarm mechanism. When a UPS fails, it can quickly report the failure to relevant personnel via email, SMS, voice, etc., so that the administrator can quickly troubleshoot the failure. UPSViewer also has a powerful data analysis function, which can save UPS data, alarms, logs, etc., and can visually display them in the form of charts.

UPSViewer also provides shutdown assistants under different systems. When the UPS mains power is abnormal or the battery is low, in order to avoid sudden power failure caused by IT server hardware damage or software failure, the shutdown assistant can automatically receive the shutdown information sent by UPSViewer shut down the UPS system.

The list of features is as follows:

It supports accessing from web, so all the data can be checked conveniently and set UPSViewer from web.

It supports protocols such as SNMP, Modbus TCP, and MQTT, providing rich interfaces for third-party monitoring.

It provides IP search software, and can automatically search devices within LAN, and process software upgrade, parameters setting functions.

UPS failure can trigger SNMP TRAP, E-mail, message, voice etc. to inform the administrator.

It can add expansion function of temperature and humidity, water immersion, etc.

It provides shutdown software of different software, and the computer server can be closed when there is failure.

It can provide centralized monitoring projects such as local centralized monitoring and cloud Internet of Things Monitoring.

1.2 Brief uses introduction

UPSViewer connects your UPS with internet

When your UPS is equipped with the UPSViewer, after accessing the network through the Network port of the UPSViewer, you can check the UPS status by input the UPSViewer IP address on any computer equipped with a Browser.

UPSViewer allows you to manage the UPS transparent

When your UPS is connected to the network, you can view the UPS data messages and UPS parameter settings in your browser. UPSViewer will detect UPS abnormal information at any time and send it to the administrator by electronic mail and Trap. If you have also installed a message alarm, you will also receive a message in the form of an alert message.

When your UPSViewer is connected with the water immersion sensor, temperature and humidity sensor and other extension devices, you can see the information of your UPS working environment.

When to use the UPSViewer?

If you want to monitor the UPS status remotely through the network, for example, in the case of network interconnection of each subsidiary, the system administrator only needs to install the UPSViewer on each UPS, so that the system administrator can remotely monitor the UPS status information of each subsidiary on the network at any time. If you want to monitor the computer room, warehouse, office environment information through the network, but do not want to go to the warehouse test, at this time you only need to install the expansion equipment to meet the needs.

2.1 Product appearance drawing









Figure 1 is the front of UPSViewer, figure 2 is the side profile of UPSViewer.

In figure 1:

- ① NETWORK: RJ45 network interface;
- ② COMM: Expanded COMM port;
- **③** Signal light.

2.2 Product port introduction

Port	Function
NETWORK port	Network communications
COMM port	External extension devices: Water immersion sensor Temperature and humidity sensor

2.3 Introduction of product signal light

Signal light	Status and meaning
Power light (green)	Power light: UPSViewer power supply status.1. on: UPSViewer normal power supply;2. off: UPSViewer Without electricity.
System light (red)	System light: UPSViewer system status. 1. off: System normal; 2. flicker: Normal alarm; 3. normally on: Serious warning.
UART light (yellow)	 UART light: Indicates the communication status of UPSViewer and UPS. 1. off: UPSViewer and UPS communicate normally; 2. flicker: UPSViewer and UPS communicate abnormally.

3 UPSViewer setting

3.1 Hardware installation

3.1.1 UPSViewer card slot installation

Notice: please turn off the UPS before install UPSViewer.



3.1.2 UPSViewer installation

① Dismantle socket protection cover screw and remove the cover;



2 Push the UPSViewer to the bottom along the track inside the slot;



③ Screw two sides of card to fix screws;



④ Plug the network cables;



(5) Turn on the UPS.

3.1.3 Temperature & humidity sensor installation



Connect the RS485 port of the temperature and humidity sensor to the COMM port of the UPSViewer with the RJ45 network cable to check whether the LCD interface of the temperature and humidity sensor is on and whether there is temperature and humidity information. If there is, the connection is successful.

3.1.4 Water leakage sensor installation



Connect the RS485 port of the flood sensor to the COMM port of the UPSViewer with a network cable (or the COMM port of other devices that have been connected to the UPSViewer) to check whether the liquid crystal interface of the flood sensor is lit up and whether there is any information display. If so, the connection is successful.

Temperature & humidity sensor and Water leakage sensor installation:



3.1.5 SMS alarm installation

Connect the SMS Alarm communication interface to the COMM port of the UPSViewer with a network cable. Refer to "<u>4.6.1 Manual Add Devices</u>" for the device addition procedure.



3.2 Software installation

Omit.

3.3 UPSViewer using step

When software and hardware installation are completed for UPSViewer, below is a flow chart for using UPSViewer for the first time.



• Check whether the Power light of UPSViewer is always on to ensure that the power supply of UPSViewer is normal.

When the power light of UPSViewer is always on, it indicates that the power supply of UPSViewer is normal.

• Complete the connection between UPSViewer and the computer.



• **Open the IPSearch software to set the IP address information.**

When you use UPSViewer for the first time, open the IPSearch software to search for the default information of UPSViewer. Please <u>set the IP address</u> <u>information</u> first. After the setting is successful, you can enter this IP address in the browser IP address bar to log in to the UPSViewer webpage or use the [in IPSearch] launch Web] button to open UPSViewer web page.

• UPSViewer login page.

UPSViewer initial administrator login account and password: account: admin, password: 123456. If <u>the computer and UpsViewer are in the same</u> <u>network condition</u>, use the IPSearch software to login or use the browser to login directly.



• UPSViewer communications with UPS Settings.

If there is a "communication failure", it means there is an alarm event.

∆° <u>∧</u> °					2021/12/20 19:45:24 Admin admin Logout
🕎 Overview	Al	l Alarms	General Alarm Serious Alar	m	
UPS UPS					
Expansion Equipment		ID	Device Type	Event	 Datetime
		1	1#U P S	Comm Fail	2021/12/20 19:44:50
Current Alarms					
History Record					

Please go to [Settings]→[Device Management] to set the communication between UPSViewer and UPS product.

	▲ ⁰ ▲ ⁰				9:50:03 Admin admin Logout
Overview U P S Expansion Equipment	Device Management			Search Device	6 Add Apply
🛆 Alarm Management	ID 1	Modbus Address 1	Protocol Megtec	Modbus Mode	Control Edit 1
 Settings Monitorin Settings 		·		۵x	Control
COM Settings Device Management UPS On/Off Schedule	Device Type UPS NO. 1 -	~ Modbus	Address 1 2	(1 ~ 31[UPS:254])	Edit/ Delete
SNMP Settings TCP/IP	Protocol Megt	ec ~ 3 Modbus	Mode RTU ~ 4		

- ① Click the [Edit] button;
- ② Set [Modbus address] to input the modbus address of the UPS product;
- ③ Select [Protocol]: The protocol selection here must be consistent with the communication port protocol of the UPS;
- ④ Select [Modbus Mode]: ASCII or RTU mode, the mode selection here must be consistent with the Modbus communication mode of the UPS.

If you do not know how to check the Modbus address, port protocol, and Modbus mode of the UPS product, you can refer to the UPS manual or consult the UPS vendor, or refer to 4.9.3 Device Management. After setting, click

"OK" button and then click "Apply" button. Refresh the interface and check the alarm event. If there is no "communication failure" alarm event, the communication is normal.

3.4 IPsearch function introduction

IPsearch: is a search tool that can quickly find information about the online UPSViewer that is already online on the LAN.

3.4.1 IPsearch instruction

IPsearch Interface

IPsearch consists of two regions: UPSViewer device information display area, operation area. (The list refreshes automatically every 15s.) When the user opens the IPsearch tool, it will automatically search the UPSViewer information that is currently online on the LAN, and retrieves the device type, MAC address, IP address, software version, hardware version, and IP address type (DHCP, Static IP).

🥬 IpSearch			- 🗆 X
🎦 Chinese 📓 English	Search L	AN IP of onli	ine devices
1 Launch Web	2 _{Type}	MAC Address	IP Address
	snmpCard	38:81:D7:EA:66:B6	172.16.194.65
Net Settings			
Upgrade			
	<		>
About	B dware Versi	on: v1.0	Select 1 of 1 📥
Refresh	Soft Version: Device Type: s: MAC Address: Protocol Type:	v1.0 mmpCard 38:81:D7:EA:66:B6 dhcp	-

- ① Operating area;
- ② Online device list;
- ③ Equipment information.

When there are multiple devices in the list, the first one is selected as the default device by default. When the user clicks on any device in the list, the device information box will display the corresponding device type, software version, hardware version, MAC address, IP type (manually set static IP and DHCP dynamically assign IP).

3.4.2 Use IPsearch software to assign dynamic IP address to UPSViewer

The steps are as follows:

Note: This DHCP service can only successfully allocate IP when there is a DHCP server.

Chinese 📉 English	Scuren LA	i i oj onun	e acrices	IPv4 Address IPv6 Address Ad Address Configuration	wanced Passwor
aunch Web	Туре	MAC Address	IP Address	Obtain IP address by DMCP	
	snmpCard	38:81:D7:EA:66:B6	172.16.194.65	Obtain IP address by BOOTP	
et Settings				0	
	J			IP Address	
Upgrade				IP Address: 172 . 16 . 194 .	65
	1			Subnet Mask: 255 . 255 . 255 .	0
About			Select 1 of 1 A	Gateway: 172 . 16 . 194 .	1
	Hardware Version: Soft Version: vi	v1.0			
	Device Type: snmp	Card	_		

- ① Click device IP from online device list.
- 2 Click [Net Settings] button.
- ③ Choose [Obtain IP address by DHCP].
- 4 Click [Set] button.

3.4.3 Use IPsearch software to manually set a static IP address for UPSViewer

The user uses IPsearch software to set IP for UPSViewer in static IP mode. The steps are as follows:

pSearch	~		- 🗆 X	🏓 Net Settings	?
Chinese 🔄 English 🖌	Search L	AN IP of onl	IR Address	IPv4 Address IPv6 Address Advanced Address Configuration	Password
aunch Web	snmpCard	38:81:D7:EA:66:B6	172.16.194.65	Obtain IF address by DMLF Obtain IP address by BOOTP Use following Static IP add	
Net Settings				IP Address	
Upgrade				IF Address: 172 . 16 . 194 . 65 Subnet Mask: 255 . 255 . 255 . 0	
About	< Hardware Versi	on: v1.0	Select 1 of 1	Gateway: 172 . 16 . 194 . 1	
Refresh	Soft Version: Device Type: s: MAC Address: Protocol Type:	v1.0 nmpCard 38:81:D7:EA:66:B6 dhcp	-	Set	cancel

- ① Click device IP from online device list.
- 2 Click [Net Settings] button.
- ③ Choose [Use following Static IP address].
- (4) Input the IP information.
- ⁽⁵⁾ Click [Set] button.

3.4.4 Use IPSearch to open UPSViewer webpage

The user uses the IPsearch software to open the UPSViewer webpage as follows:

Note: The following operations must ensure that the computer and

<u>UPSViewer are in the same local area network</u>, otherwise it will fail to open the webpage.



- ① Click device IP from online device list.
- 2 Click [Launch Web] button.
- ③ Enter the initial administrator username: admin, password: 123456.



④ Go to the webpage.



3.5 Check computer network information

Before logging in, make sure that UPSViewer and the computer are on the same network. When the UPSViewer IP and the computer IP are not in the same network, you can use the following methods to set or view. For Windows10 system, the process of viewing IP information and setting IP is as follows: (same for other Windows operating systems)

[Control Panel] \rightarrow [Network and Internet] \rightarrow [Network Connection.]



- ① Right-click on the local connection and select 'Properties'.
- ② Select Internet Protocol Version 4 (TCP/IPv4) and click Properties.
- ③ View or set IPv4 information.

4 UPSViewer webpage introduction

4.1 UPSViewer webpage functions

The UPSViewer page provides users with IP access to the network management interface to view UPS status and set up information. When you connect UPS to the central Management platform, the UPSViewer page provides configuration management for SNMP (Simple Network Management Protocol), MODBUSTCP, and MQTT third-party interfaces.

4.2 Open UPSViewer webpage



Before opening the management webpage, make sure that your computer and UPSViewer are connected normally and in the same network.

4.3 Introduction to user navigation with different permissions

The information displayed is different according to different user permissions. The navigation bar for different users is as follows, where admin is the highest authority administrator.

4.4 System overview

Running Status 10 78 10 75 10 222.9 0 222.9 Output Voltage(V) Load Percentage(%) 10 59 10 20 10 20 10 0 10 10 10 50 10 0 10 25 10 0 10 50 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 10	Energy How Chart	Alarm Overview Image: Alarm Overview
Output Voltage -+- A -+- C 6 2225 222.8 200	222.5	-+ A B + - C

The figure below is the system overview interface:

• Running Status

There are 4 display meters, which display the current output voltage, load rate, battery voltage and battery current respectively. It is convenient for users to quickly obtain current UPS data.

The meaning of the color segment of "load rate running status meter":

Signal light	Status and meaning
Color	Meaning
Green	UPS light load
Blue	UPS heavy load
Orange	UPS overload (alarming color)

• Energy Flow Chart

Display UPS power flow state. Through the energy flow chart, the user can quickly distinguish the UPS power flow direction, bypass, rectifier, inverter working state.



- ① There will be an energy flow animation when UPS takes a bypass;
- 2 There will be an energy flow animation when the UPS is in rectifying invert;
- ③ When the battery is charged and discharged, there will be an energy flow animation.



• Alarm Overview

The alarm information is divided into levels: no alarm (blue), general alarm (yellow), serious alarm (red). The alarm overview is displayed as a percentage in a circular chart.

Alarm Overview	Alarm Overview
General Alarm Serious Alarm	Normal
Current Alarms 1: 1#UPS - Comm Fail - 2021/02/18 17:03:23	Current Alarms

The user can click "General Alarm" "Serious Alarm" to determine the chart display form.

The default mixed display of "General Alarm" and "Serious Alarm":

Hide "General Alarm":

Alarm Overview	
	General Alarm 🗬 Serious Alarm 📻
Current Alarms	
1: 1≢UPS - Comm Fail - 2021/02/18 17:03:23	,

	Alarm Overview		
	General Alarm : 3 (100.00%)	General Alarm 👄 Serious Alarm 🜩	
	Current Alarms		
1: 1(Source)#UPS 13:51:26	- Utility Abnormal -	2021/02/20	^
2: 1(Source)#UPS 13:51:26	- Byp Volt Abnor 2	2021/02/20	
3: 1(Source)#UPS 13:51:26	- Byp FreqOvTrack -	2021/02/20	
			Y

Alarm indicator icon:

🟠 Overview	All Alarms	General Alarm	Serious Alarm	
📕 UPS				
Expansion Equipment	ID	Device Type		Event
	1	1#U P S		Comm Fail
Current Alarms				

Here, in a more prominent position, indicates the number of general and serious alarms. It is convenient for users to quickly grasp the alarm information. Users can click the alarm indicator icon to quickly jump to the alarm management interface.

• Temperature and Humidity information

• Battery information

Display the remaining battery time and battery capacity. (The battery information will only be displayed when the UPS battery module is connected).

• Output Voltage

Outpu	t Voltage	A -	- B -▲- C	
250	222.8	222.8 22	2.9 22236	
200	B	2	2021/02/18 16:40:43 A : 222.9 B : 222.5	
150 -			С:222.3 С:222.3	
100				
50				
0 - 202	21/02/18 16:06:40	2021/02/18 16:29:22	2021/02/18 16:52:05	2021/02/18 17:14:43

The abscissa is the time axis, and the time interval can be adjusted by pulling the slider. When the output voltage is abnormal or sudden, it is convenient for users to quickly lock the abnormal voltage time point.

Load Percentage

ad Percentage	A -■-B -▲-C
5	
4	
3	
2	2021/02/18 16:29:22 A : 0 B : 0
1	C:0
0	•
2021/02/18 16:06:40	<u>2021/02/18 16:29:22</u> <u>2021/02/18 16:52:05</u> <u>2021/02/18 17:14:43</u>

When the UPS product is three-phase type, there will be three-phase data display of phase A_{γ} phase B and phase C, which can be set to display data items in the chart through optional settings.

4.5 UPS

4.5.1 Current Status

$UPS \rightarrow Current Status$

UPS is divided into three-phase and single-phase. According to the number of input and output phases, the model monitored by UPSViewer here is a three-phase, and each item of data is divided by '/', corresponding to "A-phase data/B-phase data/C-phase data", while a single-phase has only one data item.

	▲° ▲°			2021/12/20 19:57:21 Admin admin Logout
🟠 Overview	OnLine Device: 1#			
🗐 UPS	Device.			
Current Status	Auto Refres	n Time 10s Y Integrated Ala	rm: Normal	
Device Information	Main Input		Output	
🗞 Expansion Equipment	Voltage(V)	227.9	Voltage(V)	220.0
🕦 Alarm Management	Current(A)	0.6	Current(A)	0.0
Data Management	Frequency(Hz)	49.90	Frequency(Hz)	49.90
Ô≥ Settings	Load		Battery	
D. Commont	Apparent Power(kVA)	0.00	Capacity(%)	93.0
0 support	Active Power(kW)	0.00	Temperature(°C)	25.0
	Load Percentage(%)	1.0	Voltage(V)	108.0
			Current(A)	0.4
			Remain Time(Min)	:
	Current Status			
	Load On Source	Load On UPS	REC Status	Normal
	Battery Status	Float Charging	Battery Test Result	No Test

• Main Input, Bypass, Output:

These three areas all show: voltage, current, frequency, power factor data in different states.

• Load:

Apparent power, active power, and load factor information.

• Battery:

Capacity, Voltage, Current, Remain Time (Min).

• Current Status:

Current status bar: Display UPS power supply mode and battery status. The user can select the refresh time in the [Auto Refresh Time] drop-down list (5s/10s/30s/60s) to set the update speed of the UPSViewer webpage data.

According to the UPS type, it can be displayed in two forms (cabinet, module). The following figure shows the three-phase data of the cabinet (the same applies to other cabinet models).

Main Input		Bypass	
Voltage(V)	236.5/ 236.6/ 236.4	Voltage(V)	236.8/ 237.0/ 236.2
Current(A)	0.5/ 0.5/ 0.5	Current(A)	0.0/ 0.0/ 0.0
Frequency(Hz)	49.96/ 49.95/ 49.96	Frequency(Hz)	49.96/ 49.96/ 49.96
Power Factor	0.32/ 0.40/ 0.42	Power Factor	1.00/ 1.00/ 1.00
Output		Load	
Voltage(V)	223.1/ 222.7/ 222.6	Apparent Power(kVA)	0.00/ 0.00/ 0.00
Current(A)	0.0/ 0.0/ 0.0	Active Power(kW)	0.00/ 0.00/ 0.00
Frequency(Hz)	49.95/ 49.95/ 49.95	Load Percentage(%)	0.0/ 0.0/ 0.0
Power Factor	0.13/ 0.00/ 0.00		
Battery			
Capacity(%)	99.1		
Voltage(V)	269.8/ 269.1		
Current(A)	0.1/ 0.0		
Remain Time(Min)	;		

The following picture shows the monitoring UPS module (other module machines, the same model), display module data

Module Data	
Input Voltage(V)	236.5/ 236.5/ 236.3
Input Current(A)	0.5/ 0.5/ 0.5
Input Frequency(Hz)	50.03/ 50.03/ 50.03
Input PF	0.34/ 0.40/ 0.43
Output Voltage(V)	222.1/ 222.2/ 222.3
Output Current(A)	0.0/ 0.0/ 0.0
Output Frequency(Hz)	50.03/ 50.03/ 50.03
Output PF	0.00/ 0.00/ 0.00
Bypass Voltage(V)	236.8/ 236.4/ 235.8
Apparent Power(kVA)	0.00/ 0.00/ 0.00
Active Power(kW)	0.00/ 0.00/ 0.00
Load Percentage(%)	0.5/ 0.2/ 0.5
Battery Voltage(V)	269.8/ 269.1
Charge Current(A)	0.1/ 0.0
Discharge Current(A)	0.0/ 0.0
Load On Source	Load On UPS
Rectifier Version	55.1.40
Invertor Version	55.1.39

Module Data	
1 🔳	
The second secon	236.7/ 236.8/ 236.4
Amput Current(A)	0.5/ 0.5/ 0.5
Input Frequency(Hz)	50.03/ 50.01/ 50.01
Input PF	0.34/ 0.40/ 0.42
Output Voltage(V)	222.2/ 222.2/ 222.3
Output Current(A)	0.0/ 0.0/ 0.0
Output Frequency(Hz)	50.01/ 50.01/ 50.01
Output PF	0.00/ 0.00/ 0.00
Bypass Voltage(V)	237.0/ 236.8/ 236.1
Apparent Power(kVA)	0.00/ 0.00/ 0.00
Active Power(kW)	0.00/ 0.00/ 0.00
Load Percentage(%)	0.5/ 0.2/ 0.3
Battery Voltage(V)	269.9/ 269.2
Charge Current(A)	0.1/0.0
Discharge Current(A)	0.0/ 0.0
Load On Source	Load On UPS
Rectifier Version	55.1.40
Invertor Version	55.1.39

① Online module number

② Module UPS data

You can click the module number to switch, which is convenient to view the UPS information of each module. The figure above shows the UPS information of module 10.

4.5.2 Device Information

 $UPS \rightarrow Device Information$

This page mainly displays UPS information, company information, and Modbus address.

🕎 Overview	OnLine Device: 1#		
UPS			
Current Status	Device Information		
Device Information	Firmware Version	55.901.336	
🔗 Expansion Equipment	Company Name	INVT	
Alarm Management	Model	RM030/10X	
Data Management	Phase	3 In-3 Out	
a sui	Serial Number	1105210	
्र Settings	Battery Number	40	
 Support 	Battery AH(AH)	12	
	Battery Type	VRLA	
	Rated Capacity(kVA)	30	
	Rated Input Voltage(V)	220	
	Rated Input Frequency(Hz)	50	
	Rated Output Voltage(V)	220	
	Rated Output Frequency(Hz)	50	
	Modbus Address	1	
	Alias		
	Note		
	Set		

[Alias] [Note] Information setting: The alias remarks here are mainly identification letters added for the convenience of user management.

Specific applications are as follows:

- ① Enter alias information in the alias information input box, and input remarks in the remark information input box;
- 2 Click the **[**Settings**]** button;
- ③ After refreshing the web page, you can see the corresponding device alias.

	▲° △°	2021/12/20 20:03:30 Admin admin Logout
🕎 Overview	OnLine Dovice: 1# 3	
UPS	Device.	
Current Status	Device Information	
Device Information	Firmware Version	11.002.013
Expansion Equipment	Company Name	
🗋 Alarm Management	Model	113000
Data Management	Phase	1 In-1 Out
Settings	Battery Number	8
a second	Battery Rated Voltage(V)	96.0
0 Support	Rated Capacity(kVA)	3
	Rated Input Frequency(Hz)	50
	Rated Output Voltage(V)	220
	Rated Output Frequency(Hz)	50
	Modbus Address	1
	Alias	1#
	Note	UPS
	Set 2	

If the setting is successful, the following prompt message box will be returned.

\checkmark	×
Setti	ng Successful
	Ok

Refresh the interface, you can see the alias and remark information.

Note: This setting function will not take effect after UPS communication fails.

4.6 Expansion Equipment (this navigation bar will only be displayed when the expansion device is connected)

[Expansion Equipment]

Expansion equipment: equipment other than UPS.

	▲° ▲°	2021/02/19 13:34:11 Admin adminį Logoutį
🕎 Overview		
UPS	Auto Refresh Time 10s	
🔅 Expansion Equipment		
Temp. & RH%	28.7℃	
Alarm Management	56.4%RH	
Data Management		
Settings	1	
⑦ Support		

4.6.1 Automatically search and add devices (search for devices)

Note: This function currently supports water immersion expansion equipment, temperature and humidity expansion equipment. For expansion devices of other manufacturers, refer to <u>"Adding Devices Manually"</u>.

The physical map of the water immersion expansion equipment, temperature and humidity expansion equipment is as follows:

The following is the specific process of automatically searching and adding devices:

① Expand the device as shown below:

'COMM' interface is connected to the 'RS485' interface of the expansion device. Pay attention to the LCD of the expansion device. When the LCD screen lights up and there is a display, the physical connection is successful. Go to the [Settings] interface, click [Device Management], click [Search Device], and click [OK] in the pop-up dialog box.

UPSViewer webpage introduction

Image: Constraint of Control Device Management Search Device Add Apply Image: Constraint of Control I		▲ ⁰ ▲ ⁰ 202					
Image: U P S Search Device Image: Add mage: Add madd: Add madd: Add mad mage: Add madd: Add mage: Add mage: Add ma	🕎 Overview						
Expansion Equipment U P S Alarm Management ID Modbus Address Protocol Modbus Mode Control Data Management 1 1 Megtec Edit Settings Monitorin Settings Control Edit COM Settings Delete ID Protocol Control UPS On/Off Schedule SNMP Settings 1 i Edit/ Delete Edit/ Delete TCP/IP IP IP IP IP IP IP	UPS	Device Management			Search	Device Add Apply	
Alarm Management ID Modbus Address Protocol Modbus Mode Control Data Management ID Modbus Address Protocol Edit Settings Monitorin Settings COM Settings ID Protocol Control Device Management UPS On/Off Schedule SNMP Settings I I Edit/ Delete SNMP Settings I I I Search Device ? Edit/ Delete	Expansion Equipment						
Data Management 1 1 Megtec Edit Settings Monitorin Settings COM Settings Delete ID Protocol Control Device Management UPS On/Off Schedule SNMP Settings 1 i Edit/ Delete SNMP Settings TCP/IP TCP/IP Image: Control image:	🗋 Alarm Management	ID	Modbus Address	Protocol	Modbus Mod	e Control	
Settings SMS Alarm COM Settings Delete ID Protocol Control Device Management I Edit/ Delete Edit/ Delete SNMP Settings TCP/IP Search Device ? Concel	Data Management	1	1	Megtec		Edit	
Monitorin Settings Delete ID Protocol Control COM Settings I i Edit/ Delete UPS On/Off Schedule SNMP Settings Stearch Device ? Search Device ?	💱 Settings	SMS Alarm					
COM Settings Device Management UPS On/Off Schedule SNMP Settings TCP/IP CM Cancel CM Settings CM Cancel CM CM CM CAncel CM CM CAncel CM CM CAncel CM CM CAncel CM CM CM CAncel CM	Monitorin Settings		ID		Protocol	Control	
UPS On/Off Schedule SNMP Settings TCP/IP Ok Cancel	COM Settings		1	i		Edit/ Delete	
SNMP Settings Search Device ? TCP/IP OK Cancel	UPS On/Off Schedule						
TCP/IP Ok Cancel	SNMP Settings			Sea	rch Device ?		
UK Lance	TCP/IP						
SSL Information	SSL Information				OK Cance	21	

② After searching for the device, click [Apply]. After the application is successful, a prompt dialog box will pop up and the device information will be searched.

	A ⁰ A ⁰				2021/12/20	20:08:19 Admin admin Logout
🟠 Overview						
	Device Management				Search Device	Add Apply
🛞 Expansion Equipment	LIPS					
Alarm Management	ID	Modbus Address	Protocol	Mode	ous Mode	Control
Data Management	1	1	Megtec			Edit
🔅 Settings	Charles Allerma					
Monitorin Settings		√		×		Control
COM Settings	Delete					Control
Device Management			Setting Successful			Edit/ Delete
UPS On/Off Schedule				Ok		
SNMP Settings						

At this time, the expansion device has been added successfully, and the refresh interface will display the expansion device under the [Expansion Equipment] navigation bar.

② Click the icon to open the extended device interface.

	▲° ▲°			2021/02/19 16:42:55 Admin admin Logout
🟠 Overview	OnLine Device: 1#			
🗐 UPS			Integrated Alarm - Normal	
🔅 Expansion Equipment			integrated Adam . Normal	
Temp. & RH%				
🛆 Alarm Management		Temperature		47.9%RH
Data Management		29.6°C		
💮 Settings				
⑦ Support				Relative Humidity
	Current Status			
	Temp. Alert Status	Normal	RH Alert Status	Normal
	Temperature Settings			
		Cur. Value	Set Value	
	Upper Temp. Limit	35.0	(0~60°C)	
	Lower Temp. Limit	0.0	(0~60°C)	
	Temp. Alarm Hystersis	2.0	(0~5°C)	
			Set	
	RH Settings			
	Upper RH Limit	90.0	(0~100%RH)	
	Lower RH Limit	20.0	(0~100%BH)	
	RH Alarm Hystersis	5.0	(0~10%BH)	
	No real and re	5.0	Set	

Temperature and humidity expansion device interface: provide, temperature alarm upper limit, temperature alarm lower limit, temperature alarm return difference threshold setting. This setting value will be used as the temperature and humidity alarm judgment condition, and the user can set it according to the actual working environment.

4.6.2 Manually add device

Manually add "SMS Alarm"

The detailed operation process is as follows:

(1) Set the baud rate to "19200", [Settings] \rightarrow [COM Settings] \rightarrow "Extended Serial Port A" baud rate to 19200, and click the [Set] button to save the settings. As shown below

	A° A°			2021/12/20 20:10:19 Admin admin Logo		
🟠 Overview						
🗧 U P S	COM Settings					
🗥 Alarm Management		Baud Rate	Stop Bits	Parity		
Data Management	Extended Serial Port A	19200 ~	1Bit ∽	None ~		
	UPS Communication	2400 ~	1Bit 🗸	None 🗸		
🐶 Settings		_				
Monitorin Settings		Set				
COM Settings						

② [Setting] → [Device Management] → [Add]

	▲°			2021/12/20	20:11:31 Admin admin Logout
🟠 Overview					
UPS UPS	Device Management			Search Device	Add Apply
Alarm Management					
Data Management	ID	Modbus Address	Protocol	Modbus Mode	Control
🔅 Settings	1	1	Megtec		Edit
Monitorin Settings					
COM Settings					
Device Management					
UPS On/Off Schedule					

	4	0 1 0				2021/12/20 20	0:13:18 Admin admin Logout
🖄 Overview							
🗐 UPS						Search Device	Add Apply
🕦 Alarm Management		_		_	_		
🗐 Data Management	0 - 3	ID	Modbus Address	Prot	ocol	Modbus Mode	Control
🔅 Settings		1	1	Me	gtec		Edit
Monitorin Settings		_		_	_		
COM Settings						-	F A
Device Management							
		Device Type	SMS Alarm 🗸 🗸				
SNMP Settings		NO.	1 ~	Modbus Address		(1 ~ 31[UPS:254])	
TCP/IP		Protocol	Invt 🗸	Modbus Mode	RTU ~		
SSL Information							
Alarm Settings				Ok Back			
Email Settings					_		

③ Enter the corresponding information in the pop-up information input box, and click the 【OK】 button.

	∆° ∆°				2021/12/20 2	20:15:43 Admin admin Logout
🟠 Overview						
	Device Management				Search Device	Add Apply
Alarm Management	ILPS					
Data Management	ID	Modbus Address	Protocol	M	odbus Mode	Control
🔅 Settings	1	1	Megtec			Edit
Monitorin Settings				_		
COM Settings	SMS Alarm	V		×		
Device Management						Control
UPS On/Off Schedule			Applied	[Edit/ Delete
SNMP Settings				Ok		
TCP/IP						

(4) Click the [Apply] button. So far, manually add the application successfully.

(5) Enter the [Expansion Equipment] \rightarrow [SMS Alarm] page to check whether the communication is normal;

▲ ^o ▲ ^o 2021/02/23 16:12:35 Admin admin Logout
Normal
SMS Settings
Cur. Value Set Value
SMS Center Number +316540942002 +316540942002 *For example: the international prefix number - cell phone Set
Device Information Note Set

⁽⁶⁾ Under normal communication conditions, check if there is a SMS center number.

Note: By default, if you insert different operators, there will be a corresponding SMS center number by default. If not, manually fill in the SMS center number that the card matches. The SMS alarm signal is best to be above 3 bars to ensure that the SMS can be sent out in time.

Users can customize the alarm events to be sent.

	A ⁰ A ⁰			2021/12/20 21:51:0	3 Admin admin Logo
🟠 Overview					
🗐 UPS	SMS Settings				
🔅 Expansion Equipment					Add
🗥 Alarm Management	Cell Phone1	+ 13709935097	☑Call Enable	Event	Delete
🖯 Data Management	Cell Phone2	+	□Call Enable	Event	Delete
💮 Settings			_		
Monitorin Settings			Set		
COM Settings					
Device Management					
UPS On/Off Schedule					
SNMP Settings					
TCP/IP					
SSL Information					
Alarm Settings					
Email Settings					
SMS Settings					

&

∆° ∆°			2021/12/20 21:49:44 Admin admin Logou		
🖄 Overview					
UPS	SMS Settings				
Expansion Equipment					Add
🖒 Alarm Management	Cell Phone1	+ 13709935097	Call Enable	Event	Delete
Data Management					
Settings			Set		
Monitorin Settings					
COM Settings					
Device Management					
UPS On/Off Schedule					
SNMP Settings					
TCP/IP					
SSL Information					
Alarm Settings					
Email Settings					
SMS Settings					
Time Settings					

① Click the "Add" button. If there is no such requirement, you can ignore this step (supports up to 20 mobile phone numbers);

- ② Fill in the recipient's phone number;
- ③ Click the "Event" on the right of the recipient in step.
- ④ Check the events that need to trigger the sending of SMS. After checking, you must click the x in the upper right corner to close.

■ Manually add "Temperature and Humidity Sensor".

The detailed operation process is as follows:

(1) Set the baud rate to "9600", [Settings] \rightarrow [COM Settings] \rightarrow "Extended Serial Port A" baud rate to 9600, and click the [Set] button to save the settings. As shown below

	▲° ▲°		2021/12/20 21:5	52:12 Admin admin Logout
🟠 Overview				
📒 UPS	COM Settings		a. a'i	
🚸 Expansion Equipment	Extended Serial Port A	Baud Rate	Stop Bits	Parity
\land Alarm Management	UPS Communication	9600 ×	1Bit ¥	None Y
🔋 Data Management				
🔅 Settings		Set		
Monitorin Settings				
COM Settings				
Device Management				

② [Setting] → [Device Management] → [Add]

Device Management					
Device management					
			Search Device	Add Apply	
UPS	Ma dhua A ddaraa	Destand	Madhus Mada	Cantral	
1	Modbus Address	Megtec	Wodbus Wode	Edit	
	8	Z			
				ð	X
				_	~
emp. & RH%	~				
~	Modbus A	ddress 1	(1 ~ 31[UPS:254])	
ivt 🗸	Modbus N	lode 🛛 RTU 🗸			
	Ok	Back			
	≥mp. & RH% ~ ivt ~	1 1 emp. & RH% ~ Modbus A ivt ~ Modbus N Ok	1 1 Megtec & emp. & RH% ~ ~ Modbus Address 1 vvt ~ Modbus Mode RTU ~ Ok Back	1 1 Megtec & emp. & RH% V V Modbus Address 1 (Nvt V Ok Back	1 1 Megtec Edit & emp. & RH% Modbus Address 1 (1 ~ 31[UPS:254]) vvt Modbus Mode RTU ~ Ok Back Back Edit

Select RTU mode for Modbus mode.

Note: The Modbus address here is read and filled on the LCD screen of the device. If the address is wrong, it will cause the failure to add the device.

温湿度传感器	17
28.8°C 55.6%RH	
india, or	

③ Click the 【Apply】 button. So far, manually add the application successfully.

When there are multiple expansion devices, the Modbus address of the temperature and humidity sensor or the water sensor cannot be the same. If the Modbus address is the same, it will cause communication abnormality.

Temp. & RH%			
✓ Delete	ID	Modbus Address	
	1	2	
Water Leakage Sensor			
Delete	ID	Modbus Address	
	1	4	

The Modbus address of the expansion device can be manually set through the DIP switch.

Manually add ''Water Leakage Sensor''. Omit.

4.6.3 Delete expansion device

Take deleting the SMS alarm as an example:

	▲° △°				2021/12/20 2	:1:57:48 Admin admin Logout
🟠 Overview						
UPS UPS	Device Management				Search Device	Add Apply
🔅 Expansion Equipment	UPS					
🗥 Alarm Management	ID	Modbus Address	Protocol	M	odbus Mode	Control
Data Management	1	1	Meatec			Edit
🔅 Settings	T 0: D1/0/	i		×		
Monitorin Settings	Temp. & KH%	Delet	te: 2#Temp & PH% 2			
COM Settings	Delete	ID Dele	te: 2# lemp. & KH % :	L	Modbus Mode	Control
Device Management		2	Ok	ncel	RTU	Edit/ Delete

Specific steps are as follows:

- ① Enter the 【Settings】 interface, and click 【Device Management】;
- ② Find the device and click the 【Delete】 button;
- ③ Click the 【Apply】 button.

4.7 Alarm Management

4.7.1 Current Alarms

【Alarm Management】 → 【Current Alarms】

	1 0 4	_ 0			2021/12/20 21:58:55 Admin admin Logout	
🖄 Overview	All Alarms	General Alarm	Serious Alarm			
🗐 UPS				1		
🚸 Expansion Equipment	ID	Device Type		Event	Datetime	
\land Alarm Management						
Current Alarms						
History Record						
Operation Log						

All alarm information will be displayed here in the form of a list, and the data information includes device type, event, date and time. General alarms: filter to display general alarm information, and severe alarms to filter to display severe alarm information.

4.7.2 History Record

 $Alarm Management \rightarrow History Record$

	4 °	△ ⁰			2021/12/20 22:00:18 Admin admin Logout
🟠 Overview					
	Record	Query			
Expansion Equipment	Device Ty	pe All Devices 🗸 1			
Alarm Management					
Current Alarms	Event Lev	el 🛛 🖾 All Levels 🖾 Serious Alarm 🖾 Ge	neral Alarm 🖾 General Event 🖌		
History Record					
Operation Log	One Da	ay 🚺 A Week 🛛 One Month	3		
Data Management			J		
Settings	Datetime	-			
② Sunnort					
	Query	Download			
					J
				1	1
	ID	Device Type	Event	Datetime	4
	1	1#SMS Alarm	Manual Addition-Appear	2021/12/20 21:45:17	
	2	1#U P S	Batt Connected-Appear	2021/12/20 19:56:25	
	3	1#U P S	Float Charging-Appear	2021/12/20 19:56:25	
	4	1#U P S	Load On UPS-Appear	2021/12/20 19:56:24	
	5	1#U P S	Comm Fail-Vanish	2021/12/20 19:56:24	
	6	1#U P S	Comm Fail-Appear	2021/12/20 19:54:56	
	7	1#U P S	Batt Connected-Appear	2021/12/20 19:52:27	
	8	1#U P S	Float Charging-Appear	2021/12/20 19:52:27	
	9	1#U P S	Load On UPS-Appear	2021/12/20 19:52:27	
	10	1#U P S	Comm Fail-Vanish	2021/12/20 19:52:27	
					1/8 >

History query:

① Device type:

In the drop-down list of device type, you can select (all devices/UPS/system) for data filtering.

② Event level:

Set up (all levels, serious alarms, general alarms, common events) options.

③ Query by time:

Quick query button (last day, last week, and last month) is set, and users can also customize the start time and end time. After selecting the query conditions, click the [query] button.

④ Query information display.

Note: When the storage space of UPSViewer is less than or equal to 10MB, a serious warning of "Insufficient memory space" will be issued. When the storage space of UPSViewer is less than or equal to 5MB, historical data will not be stored. Please clean up the data space and delete unnecessary historical data.

4.7.3 Operation Log

 $Alarm Management \rightarrow Operation Log$

	4 °				2021/12/20 22:01:45 Admin admin Logout
🟠 Overview					
目 UPS	Operatio	on Log Query			
Expansion Equipment	Log Type		Control Log 🗸		
Alarm Management	One D	ay 🛛 🗛 Week	One Month		
Current Alarms					
History Record	Datetime		2021/12/19 22:01:17	- 2021/12/20 22:01:17	
Operation Log					
Data Management	Query	Download			
Settings					
 Support 				· ·	
	ID	Device Type		Event	Datetime
	1	1#SMS Alarm		Manual Addition-Appear	2021/12/20 21:45:17
	2	1#SMS Alarm		Manual Addition-Appear	2021/12/20 19:41:43
	3	System		System SW Update-Appear	2021/12/20 19:39:46
					(1/1)

Operation log records the operation information of the manager.

4.8 Data Management

4.8.1 History Data

【Data Management】 → 【History Data】

This is the historical data page, and the "Last Day", "Last Week" and "Last Month" query buttons are set here.

		▲⁰ ▲	0							2021/12/	'20 22:02:49 Admin	admin Logout
Cverview UPS Expansion Equipment	H	istorical D wice Type	ata Query All Devices	¥								
Alarm Management Data Management History Data		One Day A Week One Month										
Data Chart Settings Support	De	Query	2021/12/19 Download	22:02:23 📷 -	2021/12/20 22:02:	23						
	U ID	P S Device Type	Input voltage Phase A	Input voltage Phase B	Input voltage Phase C	Input frequency Phase A	Input frequency Phase B	Input frequency Phase C	Output voltage Phase A	Output voltage Phase B	Output voltage Phase C	Output current Phase A
	1	1#U P S	235.3			49.9			220.1			0.1
	2	1#U P S	233.5 231.1			49.8			220			0
	4	1#U P S	231			49.8			220			0.1
	5	1#U P S	232.2			49.9			220			0.1
	7	1#U P S	231.8			49.9			220			0.1

4.8.2 Data Chart

【Data Management】 → 【Data Chart】

Historical reports show historical data in the form of charts to improve the efficiency of information extraction. In the **[** equipment type **]** drop-down list, you can select #1 UPS, #2 expansion equipment and equipment number. You can select the number of charts to be generated according to your needs, select all, input voltage, input frequency, output voltage, and output current, output frequency, bypass voltage, bypass current, etc. Check the desired information and click the query button to generate the corresponding chart.

	▲° ▲°					2021/12/20 22:06:26] Admin admin[Logout]
Overview UPS	Historical Report Query Device Type					
Comparison Equipment Alarm Management Data Chart Settings Settings Support	One Day A Week	Check All I I I I I I I I I I I I I I I I I I				
	Datetime Ourry	2021/12/19 22:05:01 📧 - 2021/12/2	10 22.05.01			
	Input Voltage(V)	201		*		
					71	

4.9 Settings (administrator user specific permissions)

Note: **[**Settings **]** is a special authority for the administrator user. After filling in the various setting information, you must click the **[**OK **]** button to prompt "Settings successful" to take effect.

4.9.1 Monitoring Settings

 $[Settings] \rightarrow [Monitoring Settings]$

	▲° ▲°	2021/12/20 22:07:57 Admin admin Logout
🟠 Overview		
		Available: 26MB , Total Storage: 101MB
🔅 Expansion Equipment	Memory	
Alarm Management		
Data Management	Data-Collection Interval(Min) :	11
Settings	Alias:	
Monitorin Settings		Set
COM Settings		
Device Management		
UPS On/Off Schedule		

The information displayed on this page is as follows:

- Provide internal storage space information, total storage space size, remaining capacity size information display.
- History save time interval, alias Settings.

History records time interval, the default for 1 minute interval keep records of history, the user can set according to their own requirements to save history records the time interval The alias Settings, set the alias of buy here Mainly used in the email alarm SMS alarm Set an alias, post a message warning will send alarm information as the sender information, convenient for the user The UPS a place

4.9.2 COM Settings

$Settings \rightarrow COM Settings$

This is the serial port communication setting page, which provides users with settings for the baud rate, stop bit, and verification type of the extended serial port and UPS communication.

	∆°		20	021/12/20 22:08:24 Admin admin Logout
🟠 Overview				
目 UPS	COM Settings			
Expansion Equipment		Baud Rate	Stop Bits	Parity
	Extended Serial Port A	9600 🗸	1Bit 🛩	None 🗸
Alarm Management	UPS Communication	9600 🗸	1Bit 🛩	None 🛩
Data Management				
Settings		Set		
Monitorin Settings				
COM Settings				
Device Management				
UPS On/Off Schedule				
SNMP Settings				

Note: The setting information in the **[**COM Settings **]** interface must be consistent with the communication setting information of the UPS, otherwise it will cause the management webpage to fail to communicate with the device.

4.9.3 Device management

【Settings】 → 【Device management】 The Device management is divided into two areas:

	▲° ▲°							2021/12/20 22:1	0:46 Admin admin Logout
🕎 Overview									
目 UPS								Search Device	Add Apply
🚸 Expansion Equipment	UPS								
Alarm Management	ID	Modbus Addre	Modbus Address		Protocol		Modbus Mode		Control
Data Management	1	1		Megtec				Edit	
Settings	Temp. & RH%								
COM Settings	Delete	ID	Mod	bus Address	Protoco	ы	Modbus Mode		Control
Device Management		2		1	Invt		RTU		Edit/ Delete
UPS On/Off Schedule									
SNMP Settings									

• Device management (UPS)

UPS device management, provide users with the modification operation of UPS Modbus address UPS communication protocol Modbus mode. UPS here is the default device. As long as the UPSViewer is powered on and works normally, it will display by default without the need for users to add devices.

Modbus Address: The web page is set to '1' by default, but here must enter the Modbus address for the UPS product.

Now support: Invt, Megtec31, Megtec33 communication protocols. As for 'Invt' protocol (small capacity UPS 1-3KVA and 6~ 20 KVA currently does not apply)

Modbus mode is divided into: RTU, ASCII.

					2021/12/20 22:11:59 Admin admin Logout
🖄 Overview					
🗐 UPS					Search Device Add Apply
🐵 Expansion Equipment					
Alarm Management	ID	Modbus Address	Protocol	Modbus Mode	Control
Data Management	1	1	Megtec		Edit
🔅 Settings					
Monitorin Settings	Temp. & RH%			⊡x	
COM Settings	Delete			de	Control
Device Management		Device Type UPS	~		Edit/ Delete
UPS On/Off Schedule		NO. 1 🛩	Modbus Address 1	(1 - 31[UPS:254])	
SNMP Settings		Protocol Megtec 🗸	Modbus Mode RTU 🗸		
TCP/IP					
SSL Information			Ok Back		
Alarm Settings					

Note: The modification of the UPS device management information is related to whether the UPSViewer can communicate with the UPS normally. The Modbus address protocol Modbus mode setting here is consistent with the setting information on the UPS control panel; otherwise it will cause a communication failure event to occur.

How to check the communication information of the UPS, if necessary, please refer to the UPS 《User manual》 or consult the UPS distributor.

The specific setting steps are as follows:

(1) [System Settings] \rightarrow [Device Management];

2 Click the 【Edit】 button;

③ Select your communication protocol;

④ Select your Modbus mode;

(5) Click **(OK)** & **(Apply)** button.

At the same time, change communication settings on the UPS.

Different series of UPS have different display screens, and the specific setting methods are also different. Users can refer to the corresponding UPS (User manual) for setting.

How to connect the 3-phase UPS?

① On the UPSViewer webpage:

	▲° ▲°				2021/12/20 22:15:09 Admin admin Logout
Overview UPS Expansion Equipment	Device Management				Search Device Add
Alarm Management Data Management	ID 1	Modbus Address	Protocol	Modbus Mode	Control 2
Settings Monitorin Settings COM Settings Device Management UFS On/OII Schedule ShMP Settings TCP/IP SSL Information Alarm Settings	Temp. & RH%	Bevice Type UPS NO. 19 Protocol INMD 9	Modbus Address Modbus Address Modbus Mode ASCII	(1 ~ 31[UP\$254])	Control Edit/ Delete
		√ Success	ully modified	< -	

	▲° ▲°		2021	/12/20 22:18:48 Admin admin Logout
🟠 Overview				
目 UPS	COM Settings			
Alarm Management		Baud Rate	Stop Bits	Parity
	Extended Serial Port A	9600 🛩	1Bit 🛩	None 🗸
Data Management	UPS Communication	9600 🛩	1Bit 🛩	None 🗸
Settings				
Monitorin Settings		Set		
COM Settings				
Device Management				
UPS On/Off Schedule				
SNMP Settings				

② On the 3-phase UPS control panel:

RS232 Protocol Selection SNT Modbus Baudrate 1200 2400 4800 9600 14400 19200 USER Battrery Service Modbus Parity None Odd Even Please Confirm Settings The following is only needed for Modbus	Devid	e Address 1	DATE & TIME
SNT Jodbus DWin YD/T Baudrate Baudrate COMM2 1200 2400 4800 19600 14400 19200 The following is only needed for Modbus Modbus Mode BATTERY Modbus Parity Service RATE None Odd Even Please Confirm Settings The CONFIGURE	RS232 Protocol Select	ion	
Baudrate 1200 2400 4800 19600 14400 19200 USER BATTERY Modbus Mode Sacii Modbus Parity None Odd Even Please Confirm Settings CONFIGURE	SNT 3lodbus DWir	YD/T	LANGUAGE
1200 2400 4800 9600 14400 19200 Image: Source of the following is only needed for Modbus Modbus Mode Modbus Mode Sacil RTU Modbus Parity None Odd Please Confirm Settings 7 CONFIGURE	Baudrate		COMM.
The following is only needed for Modbus Modbus Mode	1200 2400 4800 49600	14400 19200	
The following is only needed for Modbus Modbus Mode ASCI ASCI Modbus Parity Modbus Parity Odd Even Please Confirm Settings Total Configure			USER
Modbus Mode SASCII RTU Modbus Parity None Odd Even Please Confirm Settings 7 CONFIGURE	The following is only needed	or Modbus	BATTERY
ASCII RTU Modbus Parity Modbus Parity None Odd Even Please Confirm Settings CONFIGURE	Modbus Mode		BATTERT
Modbus Parity None Odd Even RATE Please Confirm Settings 7 CONFIGURE			SERVICE
None Odd Even RATE Please Confirm Settings CONFIGURE	Modbus Parity		
Please Confirm Settings 7 CONFIGURE	None Odd	Even	RATE
	Please Confirm	n Settings	CONFIGURE
Home Cabinet Module Setting Log Operate Scope	Home Cabinet Module		ate Scope

 $[Setting] \rightarrow [COMM.]$

(1) Read the "Device Address", fill in the Modbus address column of the UPSViewer webpage, and select "Modbus" in the 'R232 port protocol selection';

② 'Baud rate' selection: "9600". (Must be consistent with the UPSViewer webpage);

③ 'Modbus Mode' selection: "ASCII". (Must be consistent with the UPSViewer webpage);

(4) 'Modbus Parity' selection: "None". (Must be consistent with the management page);

(5) Select **(1)** to confirm the settings.

How to connect the Single-phase UPS?

① On the UPSViewer webpage:

	A ⁰ A ⁰				
Overview				s	earch Device Add Apply
Alarm Management	UPS				
Data Management	ID	Modbus Address	Protocol	Modbus Mode	Control
Settings	1	1	Meater		Edit
Monitorin Settings				D'X	
COM Settings					
Device Management		Device Type UPS 🗸			
UPS On/Off Schedule		NO. 1 ~	Modbus Address 1	(1 ~ 31[UPS:254])	
TCP/IP		Protocol Megtec 🗸	Modbus Mode ASCII ~		
SSL Information					
Alarm Settings			Ok Back		
Email Settings					
		Successful	lly modified Ok		
	A ° A °				2021/12/20 22:21:58 Admin admin Logout
🕎 Overview					
	COM Settings		0, 10, 1	C	0.7
Alarm Management	Eve	anded Serial Pert A	Baud Kate	Stop Bits	Parity
Data Management		PS Communication	2400 ¥	1Bit ¥	None Y
💮 Settings		-s communication	2400	TOR V	None +
Monitorin Settings			Set		
COM Settings					
Device Management					
UPS On/Off Schedule					
SNMP Settings					

② On the single-phase UPS control panel:

• Device management (Expansion Equipment)

Please refer to the previous chapter <u>4.6 Expansion Equipment</u>.

4.9.4 SNMP Settings

$[Setting] \rightarrow [SNMP Settings]$

Through the SNMP protocol, UPSViewer can also be monitored by NMS hosts on the network and actively send traps to specific hosts. It is convenient for users to centrally monitor and manage.

The commonly used versions of SNMP protocol are SNMPV1, SNMPV2, and SNMPV3. UPSViewer supports SNMP version:

Webpage	SNMP protocol version support
UPSViewer Webpage	SNMPV1
UPSViewer Webpage	SNMPV2
UPSViewer Webpage	SNMPV3

General

System Name:

The name of this UPSViewer can be customized by the user for easy identification by management $_{\circ}$

System Location:

It is up to the user to indicate the location of the upsViewer. When an online UPS has an alarm, the administrator can quickly find the location of the device, which is convenient for user management and maintenance.

System Contact:

SNMP Port:

The port number for receiving and transmitting SNMP commands and information on the UPSViewer web page, the default is 161.

Trap Port:

Trap message receiving port number, the default is 162.

SNMPv3 Engine ID Text:

To use the SNMPv3 version, the UPSViewer web page must have a unique engine ID code as its unique identifier to generate authentication and encryption keys. The format of the identifier generation can be selected from the drop-down list (MAC Address / IPv4 / IPv6 / manual setting)

	A ⁰ A ⁰				2021/12/20 22:24:30 Admin admin Logout
🟠 Overview	General Access Control	Trap Notification			
🛆 Alarm Management	System Name			UPS Agent	
Data Management	System Location			My Office	
🖒 Settings	System Contact			Administrator	
Monitorin Settings	SNMP Port			161	
COM Settings	Trap Port			162	
Device Management	SNMPv3 Engine ID Format	Гуре		MAC 🗸	
UPS On/Off Schedule	SNMPv3 Engine ID Text			80001f88033881d7	ea66
SNMP Settings					
TCP/IP	Set				
SSL Information					
Alarm Settings					
		\checkmark		~	
				^	
		5	tting Successful		
		36	stung succession		
				Ok	

【Access Control】 IP Address:

The user can designate ten hosts with specific IP addresses as the administrator, and just enter a legal IP address. If the administrator IP address is not set, any IP can be managed.

	A ⁰ A ⁰				2021/	12/20 22:28:44 Admin admin Logou
🕎 Overview	General Access Cont	rol Trap Notification				
🗐 UPS						
Λlarm Management	IP Address	Version		Community	Permission	Note
🕘 Data Management		All	~ +	public	No Access 🗸	
🔅 Settings		All	~ +	public	No Access 🗸	
Monitorin Settings		All	~ +	public	No Access 🗸	
COM Settings		All	~ +	public	No Access 🗸	
Device Management		All	~ +	public	No Access 🗸	
UPS On/Off Schedule		All	~ +	public	No Access 🗸	
SNMP Settings		All	~ +	public	No Access 🗸	
TCP/IP		All	× +	public	No Access	
SSL Information		All		public	No Access	
Final Settings		All	• +	public	No Access V	
SMS Settings		All	× +	public	NO Access 🗸	
Time Settings	Set					
Language Settings						
IOT Settings						

Version:

Set the SNMP version (All / SNMP V1&SNMP V2 / SNMP V3) used for communication with the administrator host. When you choose to use all and SNMP V3 versions, you need to set the user name / password / authentication / encryption information.

	▲° ▲°				2021/	12/20 22:31:28 Admin admin Logo
🟠 Overview	General Access Control Tra	ap Notification				
UPS UPS						
\Lambda Alarm Management	IP Address	Version		Community	Permission	Note
Data Management	172.16.194.11	SNMP V1 & SNMP V2c ~		public	No Access 🗸	
Sattings	172.16.194.12	SNMP V3 🗸		public	No Access 🗸	
Monitorin Settings		ser Name eagle				
COM Settings		a i lange				
Device Management	Authentication	Protocol MD5 ~		Authentio	ation Password ••••••	•
UPS On/Off Schedule	Privacy	Protocol DES V		P	rivacy Password	•
SNMP Settings		All ~	+	public	No Access 🗸	
TCP/IP		All ~	+	public	No Access 🗸	
SSL Information		All	+	public	No Access ~	
Alarm Settings			+	public	No Access X	
Email Settings				public	No Access	
SMS Settings		All	+	public	NO Access 🗸	
Time Settings		All ~	+	public	No Access 🗸	
Language Settings		All ~	+	public	No Access 🐱	
IOT Settings		All ~	+	public	No Access 🗸	
User Management						
Config Settings	Set					
Factory Reset						

Community:

The administrator host and the UPSViewer web page need to set the same community string, otherwise communication will not be possible. The UPSViewer web community string is defaulted to public. The administrator host and the UPSViewer web page need to set the same community string, otherwise communication will not be possible. The UPSViewer web community string is defaulted to public.

Permission:

Set the administrator's authority (no authority / read only / read & write). Note:

Provide description information for easy query and management.

Trap Notification

Ge	neral Access Contro	Trap Notification			
	IP Address	Accept	Community	Note	
	172.16.194.12	SNMPv2 Inform	public	UPS1	
	172.16.194.14	SNMPv1 Trap	public	UPS2	
	172.16.194.212	SNMPv1 Trap	public	UPS3	
	172.16.194.10	SNMPv3 Trap 🔽 🕂	public	mytest ×	

IP Address:

Ten people can be set to receive Trap notifications using IP addresses. Accept:

Use the drop-down list to select which SNMP version Trap or Inform to receive. When selecting SNMPv3 Trap or Inform, please set the account password and authentication encryption information (SNMPv1 Trap / SNMPv2 Trap / SNMPv2 Inform / SNMPv3 Trap / SNMPv3 Inform).

	▲° ▲°			2021/12/20 22:39:53 Admin adn	nin Logout
🖄 Overview	General Access Control Trap Noti	fication			
Alarm Management	IP Address	Accept	Community	Note	
Data Management	172.16.194.12	SNMPv2 Inform ~	public	UPS1	
🔅 Settings	172.16.194.14	SNMPv1 Trap 🗸	public	UPS2	
Monitorin Settings	172.16.194.212	SNMPv1 Trap 🗸	public	UPS3	
COM Settings	172.16.194.10	SNMPv3 Trap 🗸 🗕	public	mytest	
Device Management	User Nam	e user	Fill in the encrypted	information	
UPS On/Off Schedule			Fin in the encrypted	information	
SNMP Settings	Authentication Protoco	MD5 V	Authentication	Password ••••••	
TCP/IP	Privacy Protoco	DES V	Privac	/ Password ······	

Community:

Trap recipients and UPSViewer web pages need to set the same string to communicate. The default is public.

Note:

This field can provide management staff to mark the use of related content.

SNMP notification request:

Number of Retries	3
Timeout (sec)	5
Set	

Set UPSViewer to request response times and interval time to send Inform host, the default value is 3 times every 5 seconds, users can adjust according to their needs.

The following is the Trap viewing process. Note that after setting the Trap recipient IP, the recipient computer needs to install the Trap viewing software to view it.

	▲° ▲°				2021/12/20 22:41:02 Admin admin Logout
🕎 Overview	🖄 Overview General Access Control Trap Notification				
	Set Trap recipient IP	Select SNMP	version		
Alarm Management	IP Address	Accept	Trap or	Community	Note
Data Management	172.16.194.12	SNMPv2 Inform ~	inform	public	UPS1
Settings	172.16.194.14	SNMPv1 Trap 🗸 🗸		public	UPS2
Monitorin Settings	172.16.194.212	SNMPv1 Trap 🗸 🗸		public	UPS3
COM Settings	172.16.194.10	SNMPv3 Trap 🗸	+	public	mytest
Device Management		NULL 🗸		public	
UPS On/Off Schedule		NULL 🗸		public	
SNMP Settings		NUU1			

Take "MIB Browser Software" to view MIB information as an example:

• Open the "MIB Browser" software and load the .MIB file

iReasoning MIB Browser						
File Edit Operations Tools Bookmarks Help	File Edit Operations Tools Bookmarks Help					
ddress: * 172.16.177.211 • Advanced 01D: 1.3.6.1.4.1.935.1.1.1.3.2.4.0 • Operations: Get Next • 🎓 Go						
SIMP MID: Result Table Irag Receiver ×						
MIB Iree	 Name/OID 	Value	Type IP:Port 👩			
🖶 🎍 iso. org. dod. internet. private. enterprises. ppc	upsBaseIdentModel.0	RM90/15X	OctetSt 172.16.17			
nroducts	marken Press Press and Chasters O	hattan (2)	Tettern 172 16 17			

• Enter the UPSViewer IP address to view or set MIB object information.

Operations Too	ols Database			
🔘 🙆 🐮 🏹	1 16			
Description >		Source	Tine	
Specific: 3; .1.3.6	. 1. 2. 1. 33. 2	172. 16. 194. 241	2013-01-29	08:49:51
Specific: 3: .1.3.6	. 1. 2. 1. 33. 2	172.16.194.241	2013-01-29	08:48:27
coldStart		172.16.194.241	2013-01-29	08:49:48
coldStart		172.16.194.241	2013-01-29	08:49:26
coldStart		172.16.194.241	2013-01-29	08:49:25
coldStart		172.16.194.241	2013-01-29	08:49:23
coldStart		172.16.194.241	2013-01-29	08:49:22
coldStart		172.16.194.241	2013-01-29	08:49:20
coldStart		172.16.194.241	2013-01-29	08:49:19
coldStart		172. 16. 194. 241	2013-01-29	08:48:24
Source:	172.16.194.241	Timestamp:	3 seconds	SNMP Version:
Enterprise:	.1.3.6.1.2.1.33.2			
Specific:	3			
Generic:	enterpriseSpecific			
Variable Bindings	:			
Name:	.1.3.6.1.2.1.33.1.6.2.1.1			
Value:	[Integer] 0			
Name:	.1.3.6.1.2.1.33.1.6.2.1.2			
Value:	[OID] .1.3.6.1.2.1.33.1.	6.3.20		

• Receive and view trap information

4.9.5 TCP/IP

$Setting \rightarrow TCP/IP$

The network connection setting page provides basic network information for users to set up.

	▲° ▲°		2021/02/23 09:48:04 Admin admin Logout
🕎 Overview			
🗐 UPS	ТСР/ІР		
🔗 Expansion Equipment	MAC:	38:81:D7:EA:66:B6	
Alarm Management	IP Mode	Manual Setting OAuto Setting	
	IP Address	172.16.186.31	
Data Management	Subnet Mask	255.255.255.0	
Q Settings	Router	172.16.186.1	
Monitorin Settings	Preferred DNS Server	192 168 0.20	
COM Settings	Alternate DNS Server	102 168 0 21	
Device Management	Alternate Divis Server	132.100.0.21	
SNMP Settings	Set		
TCP/IP			
Alarm Settings			

Select the [Manual Setting] button to set the IP address, subnet mask, default gateway, primary DNS server, and secondary DNS server.

	▲° ▲°		2021/12/20 22:47:29 Admin admin Logout
🟠 Overview			
🗐 UPS	ТСР/ІР		
🛆 Alarm Management	MAC:	38:81:D7:EA:66:B6	
Data Management	IP Mode	Manual Setting Auto Setting	
	IP Address	172.16.194.71	
② Settings	Subnet Mask	255.255.255.0	
Monitorin Settings	Bouter	172 16 194 1	
COM Settings	Kouter	172.10.194.1	
Device Management	Preferred DNS Server		
UPS On/Off Schedule	Alternate DNS Server		
SNMP Settings			
TCP/IP	Set		
SSL Information			

Select the [Auto Setting] button, the IP address, subnet mask, and gateway will be automatically set.

	▲° ▲°		2021/12/20 22:48:07 Admin admin Logout
Overview UP S Alarm Management Data Management Settings Monitorin Settings COM Settings	TCP/IP MAC: IP Mode IP Address Subnet Mask Router Preferred DNS Server	38:81:D7:EA:66:86 OManual Setting @Auto Setting 172:16:194.71 255:255:255:0 172:16:194.1	
UPS On/Off Schedule SNMP Settings TCP/IP SSL Information	Alternate DNS Server		

4.9.6 Alarm Settings

$[Setting] \rightarrow [Alarm Settings]$

Alarm settings are divided into 3 modules of alarm settings, system alarm settings, UPS alarm settings, and extended equipment alarm settings (this module setting is only available when extended equipment is added).

	▲° ▲°		2021/12/20 22:49:40 Admin admin Logout
谷 Overview	Alarm Settings		
Alarm Management	System UPS		
Data Management	Event	Event Level	A
🔅 Settings	System	General Event 🗸 All	
Monitorin Settings	Memory Not Enough	Serious Alarm 🛩	
COM Settings	Data Storage Fail	Serious Alarm 🗸	v
Device Management			
UPS On/Off Schedule	Set		
SNMP Settings			
ТСР/ІР			
SSL Information			
Alarm Settings			
Email Settings			

The following figure shows the system alarm setting interface, which provides events:

1. The remaining memory space is insufficient;

2. The data storage fails. The alarm levels are divided into: ordinary events, general alarms, and severe alarms.

	▲° ▲°	2021/12/20 22:50:23 Admin admin Logout
🟠 Overview		
UPS	Alarm Settings	
🛆 Alarm Management	System U P S	
Data Management	Event	Event Level
🔅 Settings	UPS	General Event 🗸 All
Monitorin Settings	Comm Fail	Serious Alarm 🗡
COM Settings	Maint CB Closed	Serious Alarm 🗸
Device Management	Batt Not Connected	General Alarm ∽
UPS On/Off Schedule	Batt Test Fail	Serious Alarm 🗸
SNMP Settings	Batt Maint Fail	Serious Alarm 🗸
TCP/IP	EPO Status	Serious Alarm 🗸
SSL Information	Fan Fail	Serious Alarm 🗡
Alarm Settings	Temperature Error	Serious Alarm ×
Email Settings	REC Fail	Serious Alarm ×
SMS Settings	Nee rai	
Time Settings	Set	
Language Settings		

This is the UPS alarm setting. Users can set the alarm level according to their needs.

4.9.7 Email Settings

$Setting \rightarrow Email Settings$

UPSViewer can send online UPS data and events to the designated mailbox through email notification.

	▲º			2021/12/20 22:51:20 Admin admin Logout
🟠 Overview				
UPS UPS	Email Server Settings			
🛆 Alarm Management	Email Server			
🗧 Data Management	Port	25		
🔅 Settings	From Email			
Monitorin Settings	Account			
COM Settings	Password			
Device Management	To Email		Send Test Email	
UPS On/Off Schedule				
SNMP Settings			Jet	
TCP/IP				
SSL Information				Add
Alarm Settings				
Email Settings	Email1		Event	Delete
SMS Settings			_	
Time Settings			Set	
Language Settings				

Email Server Settings

1 Email Server:

It is the SMTP mail server address, which can be an IP or domain name. The following check box **SSL** is to set whether to send emails in encrypted mode and the encrypted version. The currently supported encrypted version is "SSL". (This address can be an IP address or a domain name).

2 Port:

Set the communication port number required to send mail, the default is 25, which needs to be determined according to the specific mailbox server.

③ From Email:

You need to write the email address ****@**.***, which is the default email address of the UPSViewer user account. After an alarm event occurs, the UPSViewer will be sent to this email address.

4 Account:

If the mailbox server requires permission authentication, please fill in the authentication account here

(5) Password:

If the mailbox server requires permission authentication, please fill in the authentication password here.

6 To Email:

Recipient's Email addresses (receiving daily reports, alarm information). Note: The network where UPSViewer is located must have the permission to access the mailbox server.

Users can customize the alarm events to be sent:

① Click the [Add] button. If there is no such requirement, you can

ignore this step (up to 20 email addresses are supported);

- ② Fill in the recipient's email address;
- ③ Click the "Event" on the right corresponding to the recipient in the step ②;

Alarm Settings Email Settings SMS Settings Time Settings Language Settings IOT Settings	mail 1 Invalid Email	Event Set	Add Delete
	&		
		X	2021/12/20 22:54:01 Admin admin Logout
🟠 Overview	System U P S Temp. & RH%		
Expansion Equipment		Check All Inverse	
Alarm Management	UPS		
	Comm Fail		
Data Management	Maint CR Closed		
🔅 Settings	Batt Not Connected		
Monitorin Settings	Batt Test Fail		
COM Settings	Batt Maint Fail		
Device Management			
UPS On/Off Schedule	Fan Fail	-	
SNMP Settings	Temperature Error		
TCP/IP	REC Fail	-	Add
SSL Information	Utility Abnormal		
Alarm Settings	Bypass Fail		Delete
Email Settings	Byp Volt Abnor.		
SMS Settings	Byp FregOvTrack		
Time Settings	Bypass Over Load	Image: Second secon	
nine settings			

④ Check the events that need to trigger the sending of emails. After checking, you must click the x in the upper right corner to close.

Special note: If you perform the operations of "modify email address, add event mailbox, delete event mailbox or modify event check", you need to click [Set] to save, otherwise the background will continue to send emails according to the previous settings.

The alarm events provided by the system are:

	X
System U P S Temp. & RH%	
	Check All Inverse
System	<u>^</u>
Event	Enable
Memory Not Enough	✓
Data Storage Fail	⊻

The alarm events provided by UPS are:

System U P S Temp. & RH%	x
	Check All Inverse
UPS	<u>^</u>
Event	Enable
Comm Fail	✓
Maint CB Closed	
Batt Not Connected	✓
Batt Test Fail	✓
Batt Maint Fail	✓
EPO Status	✓
Fan Fail	✓
Temperature Error	✓
REC Fail	✓
Utility Abnormal	✓
Bypass Fail	✓
Byp Volt Abnor.	✓
Byp FreqOvTrack	✓
Bypass Over Load	V

Expansion equipment alarm events:

				X
System UPS	Temp. & RH%			
			Check All Inverse	
Temp. & RH%				
Event		Enable		
Comm Fail		✓		
High Temp Alarm		✓		
Low Temp Alarm		✓		
High Humidity		✓		
Low Humidity		✓		× .

To sum up everything that has been stated so far is that users can select all or customize to add alarm events.

4.9.8 SMS Settings

$[Setting] \rightarrow [SMS Settings]$

UPSViewer can add an extended device SMS alarm. When an alarm event occurs on the online UPS, the alarm information will be sent to the designated mobile phone number by SMS in time.

(1) Set the baud rate to "19200", [Settings] \rightarrow [COM Settings] \rightarrow "Extended Serial Port A" baud rate to 19200, and click the [Set] button to save the settings. As shown below

	▲º ▲º		2021/12/20 22:5	5:44 Admin admin Logout
🟠 Overview				
	COM Settings			
Evenneigen Equipment		Baud Rate	Stop Bits	Parity
Contraction Equipment	Extended Serial Port A	19200 ~	1Bit ∽	None 🗸
Alarm Management	UPS Communication	9600 ~	1Bit 🗸	None 🗸
Data Management				
💮 Settings		Set		
Monitorin Settings				
COM Settings				

② Enter [Settings] → [Device Management] → Add SMS Alarm equipment;

	▲⁰ ▲⁰			2021/12/20 2	2:57:32 Admin admin Logout
Overview UPS Expansion Equipment	Device Managemen	t		Search Device	Add
Alarm Management Data Management	UPS ID 1	Modbus Address	Protocol Meatec	Modbus Mode	Control Edit
 Settings Monitorin Settings 	Temp. & RH%				
COM Settings Device Management UPS On/Off Schedule		Device Type SMS Alarm NO. 1 ~ Protocol Invt ~	V Modbus Address	(1 ~	31[UPS:254])
SNMP Settings TCP/IP SSL Information			Ok Back]	

③ Enter the [Expansion Equipment] \rightarrow [SMS Alarm] page to check whether the communication is normal;

	∆°		2021/02/	23 16:12:35 Admin admin Logout
Cverview U P S Expansion Equipment SMS Alarm Alarm Management			Normal	
Data Management	SMS Settings			
🔅 Settings		Cur. Value	Set Value	
O Support	SMS Center Number	+316540942002	+316540942002 *For example: the international prefix number - cell phone Set	
	Device Information			
	Note Set			

④ Under normal communication conditions, check if there is a SMS center number.

Note: By default, if you insert different operators, there will be a corresponding SMS center number by default. If not, manually fill in the SMS center number that the card matches. The SMS alarm signal is best to be above 3 bars to ensure that the SMS can be sent out in time.

	▲ ⁰ ▲ ⁰			2021/12/20 23:02:2	2 Admin admin Logout
🟠 Overview					
	SMS Settings				
Expansion Equipment					Add
Alarm Management	Cell Phone1	+	Call Enable	Event	Delete
🖯 Data Management	Cell Phone2	+	□Call Enable	Event	Delete
💮 Settings					
Monitorin Settings			Set		
COM Settings					
Device Management					
UPS On/Off Schedule					
SNMP Settings					
TCP/IP					
SSL Information					
Alarm Settings					
Email Settings					
SMS Settings					
		&			
				2021/12/20 23:00:1	5 Admin admin Logout
🟠 Overview					
UPS UPS	SMS Settings				
🔅 Expansion Equipment					Add
\land Alarm Management	Cell Phone1	+13709935097	⊠Call Enable	Event	Delete
Data Management			Set		
💮 Settings			Set		
Monitorin Settings					
COM Settings					
Device Management					
UPS On/Off Schedule					
SNMP Settings					
TCP/IP					

Users can customize the alarm events to be sent.

(1) Click the "Add" button. If there is no such requirement, you can ignore this step (supports up to 20 mobile phone numbers);

② Fill in the recipient's phone number;

SMS Settings

- ③ Click the "Event" on the right of the recipient in step.
- ④ Check the events that need to trigger the sending of SMS. After

checking, you must click the *in the upper right corner to close.*

Special note: If you perform the operations of "modify phone number, add phone number, delete phone number, or modify event check", you need to click [Set] to save; otherwise the background will continue to send SMS according to the previous settings.

4.9.9 Time Settings

$[Setting] \rightarrow [Time Settings]$

UPSViewer can automatically synchronize the clock with the time server on the external network or internal network through the NTP protocol. The administrator uses the NTP protocol to efficiently unify the running time of multiple UPSViewer and improve management efficiency.

The user needs to calibrate the time when entering the management webpage for the first time, and the dialog box [Please check the system time] will pop up, and click the [OK] button.

	i 	Please check the	× system time	
			Ok	
	▲º			2021/12/20 23:04:05 Admin admin Logout
🕎 Overview				
	Automatic Time Synch	ronization		
Expansion Equipment	Time Zone	GMT+8 🛩		
Alarm Management	Cycle	12Hours ~		
Data Management	Time Server	time.windows.com 🗸 🔳	dit	
Settings				
Monitorin Settings	Set			
COM Settings)
Device Management	Now			
UPS On/Off Schedule	New	2021/12/20 22:04:05		
SNMP Settings	NOW	2021/12/20 23:04:05		
TCP/IP	Set Value	2022/06/06 14:23:38	Update Now Sync Local Datetime	
SSL Information)
Alarm Settings				
SMS Settings				
Time Settings				

(Automatic Time Synchronization **)** Time Zone (Relative to Greenwich GMT):

You can select (GMT+[1,12], GMT-[1,12]). At this time, you need to adjust the time zone attribution of the location of UPSViewer to obtain the correct time zone. For example, this UPSViewer uses Beijing time, so select GMT+8 for this time zone.

Cycle:

You can choose (off, 1 hour, 3 hours, 12 hours, 1 day, 10 days, 30 days) to automatically calibrate the time.

Time Server:

time.windows.com 🗸 🛛 Edit

Click [Edit], enter the time server address or IP, click [Add], the list below appears, and the value is now filled in, it means that the time server address is successfully added.

Select the previously filled IP in the time server column, select the time zone and automatic synchronization period, and click "Set".

When the middle area of the automatic synchronization time column displays the green word "Synchronization successful", it means that the time server can be connected.

Note: This function can be used only when the LAN can access the external network and the server address will not be intercepted.

(Now)

In [Now], you can use [Set Value] to update the time immediately, and you can also [Synch Local Date Time].

- Use the [Update Now] button to change the date and time. Enter the date and time in the corresponding time input box of the setting value, and click [Update Now]
- Use [Sync local date time]. Set the local time to the UPSViewer time. If the update or synchronization is successful, there will be a "Update Successful" Prompt information.

4.9.10 Language Settings

$[Setting] \rightarrow [Language Settings]$

This is the webpage language setting page. The UPSViewer webpage will automatically adjust according to the user's operating system language. Currently, it supports "Simplified Chinese" and "English" languages, and users can also set it manually according to their own habits.

UPSViewer webpage introduction

	A⁰ A⁰			2021/12/20 23:04:53 Admin admin Logo
🕎 Overview				
🗐 UPS	Web Language Setting	8		
Expansion Equipment			English	Осраски (Биридица)
Alarm Management			Cinginan	Сернски (пирилица)
🕘 Data Management	Set			
🔅 Settings				
Monitorin Settings	Cond Language Catting	 Applied to mail and \$140 		
COM Settings	Send Language Setting	s Applied to man and sivis		
Device Management		⑧	English	
UPS On/Off Schedule		00m+tX	Cligian	Сернски (пирилица)
SNMP Settings	Set			
TCP/IP				
SSL Information				
Alarm Settings				
Email Settings				
SMS Settings				
Time Settings				
Language Settings				
IOT Settings				

4.9.11 User Management

$[Setting] \rightarrow [User Management]$

Note that only the "admin" account can access the [User Management] page, and other administrators cannot access this page. You can add users and delete users.

Δ° Δ°						2021/12/20 2	:3:05:44 Admin admin Logo
🖄 Overview							
🗐 UPS	Add User	Delete User					
🔅 Expansion Equipment		User Name	Nick Name	Cell Phone	Email	Permission	Control
\land Alarm Management		admin	admin			Admin	Edit
🖯 Data Management							
💮 Settings							
Monitorin Settings							
COM Settings							
Device Management							
UPS On/Off Schedule							
SNMP Settings							
TCP/IP							
SSL Information							
Alarm Settings							
Email Settings							
SMS Settings							
Time Settings							
Language Settings							
IOT Settings							
User Management							
Config Settings							

"admin" is the highest authority account and cannot be deleted.

Add U	ser Delete User					
	User Name	Nick Name	Cell Phone	Email	Permission	Control
	admin	admin			Admin	Edit

Add User	
User Name	Jonry
Password	•••••
Nick Name	jonry
Permission	User 🗸
Cell Phone	1774561****
Email	Jonry@ .com
Add Back	

Note: When adding a user, the user name and password are required. Username: It can only consist of English letters, underscores, and Chinese characters. When the "admin" administrator user modifies the passwords of other users, there is no need to confirm the user's password and can be modified directly.

4.9.12 Config Settings

 $[Setting] \rightarrow [Config Settings]$

	∆° ∆°	2021/12/20 23:06:25 Admin admin Logout
Overview Overview UP S Expansion Equipment Alarm Management Data Management Ota Management Overview Settings COM Settings Overview ON/Off Schedule SNMP Settings TCP/IP SSL Information Alarm Settings Email Settings SMS Settings Time Settings Language Settings	Upload Configurations File "Upload configurations file "Upload File Type: *.cfg Select File Upload Download Configurations File Download	
IOT Settings User Management Config Settings		

The batch configuration page can only be accessed by the "admin" account, and other administrators cannot access this page.

Special note: When the browser is below IE9 or when the browser such as 360 has no response when clicking to select the file, please download the Adobe Flash Player plug-in from the Internet and refresh the page after installation.

【Upload Configurations File】

*Upload configurations file *Upload File Type: *.cfg Select File Upload

① Select the configuration file type ".cfg"

② Click the "Upload" button and the progress bar below will show whether the upload is successful or not. The system will restart after uploading.

[Download Configurations File]

"Download Configurations File ": Download other setting information in the system settings except for mailbox settings, events and recipients in SMS settings.

4.9.13 Factory Reset

 $[Setting] \rightarrow [Factory Reset]$

	Δ° Δ°	2021/12/20 23:06:58 Admin admin Logout
🟠 Overview		
	The record tables will be cleared	
🔅 Expansion Equipment	Log Clear	
🛆 Alarm Management		
😫 Data Management	The historical data tables will be cleared	
Settings	History Data Clear	
Monitorin Settings		
COM Settings		
Device Management	All configuration files and database files are flushed and rebooted	
UPS On/Off Schedule	Eastony Parat	
SNMP Settings	Tactory Reset	
TCP/IP		
SSL Information		
Alarm Settings		
Email Settings		
SMS Settings		
Time Settings		
Language Settings		
IOT Settings		
User Management		
Config Settings		
Factory Reset		
⑦ Support		

 Log Clear: Clear the history information.
 Historical data Clear: Clear historical data.
 Factory Reset

Note: After restoring the factory settings, all data information and setting information will be cleared, and the UPSViewer system will restart.

5 Support (Help)

[Support] displays, system permissions, UPSViewer software version.

	∆°		2021/12/20 23:07:39 Admin admin Logout
🟠 Overview			
	Support		
Expansion Equipment	System Model:	upsViewer-PIS301	
Alarm Management	Firmware Version:	V67.1.1.8.2	
	Serial Number:	3881D7EA66B6	
Data Management			
🔅 Settings			
⑦ Support			
Support			
System Upgrade			

$[Support] \rightarrow [System Upgrade]$

[System upgrade] Provide UPSViewer system upgrade port.

	Δ° Δ°	2021/12/20 23:08:12 Admin admin Logout
🟠 Overview		
	System Upgrade	
🐵 Expansion Equipment	tipload Ele Type: thin	
Alarm Management	Select File Upload	
Data Management		
🔅 Settings		
⑦ Support		
Support		
System Upgrade		

Note: After the upgrade, the UPSViewer system will restart and you need to log in to the web page again.

5.1 Hide & Change Logo

 $[Support] \rightarrow [System Upgrade]$

5.1.1 Hide Logo

① Use IPsearch to find the SNMP card

SearchClient		_	
💴 Chinese 🔄 English	rch LAN	IP of onlin	e devices
aunch Wel	Туре	IP Address	MAC Add
	upsViewe…	172.16.194.68	38:81:D7:EA
Net Setting			
Upgrade			
About			Select 1 of
	Hardware V	ersion: v1	
Refresh	Soft Versi Device Tvp	on: v67.1.1.8. e: upsViewer-P	2 IS301

② Launch Web Chose and Click "Launch Web"

	2016/11/17 17:10:38
UPS Intelligent Management System	
admin	
Login	

User name: admin Password: 123456

③ Upgrade the firmware Web & Upload

🟠 Overview	
	System Upgrade
Expansion Equipment	"When the update has successfully completed, reboot your system "Upload File Types": bin
Alarm Management	Select File Upload
Data Management	
© Settings	
② Support	
Support	← → ∨ ↑ ■ > 此电源 · Desktop > v む 2 搜索 Desktop *
System Upgrade	組织・新建文件夹 🔤 ・ 🔟 🔞
	OneDrive Desktop Desktop
	文件名(N): emtr_v1.6.1.bin
	打开(O) 取消
A and an	
	System Upgrade
	*When the update has successfully completed, reboot your system
Expansion Equipment	Select File Upload
Alarm Management	emtr v1.6.1.bin
Data Management	Yourneed to restart the system, whethe
© Settings	r to continue?
⑦ Support	Ok Cancel
Support	
System Upgrade	
	降額场景

④ Wait 2min, then Re-login to check the Serial Number

Overview			
	Current		
UPS	Support	unal/inuna DIS201	
Expansion Equipment	System Wodel:	V67 1 1 9 2	
Alarm Management	Serial Number:	3881D7EA66B6	
Data Management			
Settings			
Support			
Support			
System Upgrade			

5.1.2 Change Logo

【Setting Page】 → 【Set Logo】

(5) Change the suffix (HFUN) to enter the setting page

User name: SNMP card Serial Number Password: xxxxxxx (Please contact the engineer)

⁽⁶⁾ Tick 'No Logo', then set

System Name UPS智能管理系统	
System Model upsViewer-PIS301	
Company Name xxx	
No Logo Set	
LOGO Settings Do you want to continue this operation?	
*LOGO-Size: 247px * 66px(<2Mb) / Upload File Type: *.PNG *Overview-Size: 549px * 430px(<2Mb) / Upload File Type: *.PNG Type: LOGO ~ Select File Upload	
All Config	
Download	
Select File Upload	

 \bigcirc Recheck, the logo is no longer displayed

【Setting Page】 → 【Replace Logo】 ① Select file of the Logo

System Model upsViewer-PIS301 Company Name xox Company Name xox No Logo Set Set UGGO Stitings UGGO-Size: 247px * 66px(<2Mb) / Upload File Type: *.PNG Setect File Upload With Cologe Set CoGO Company Name xox C	System Name UPS智能管理系统		
Company Name xxx ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	System Model upsViewer-PIS301	С 11 开	×
No Logo □	Company Name xxx	← → ✓ ↑ 3 → 此电脑 > 图片 > 本机照片 ∨ じ 搜索"本机照片"	Q
Set 》此电脑 3 3D 对象 图 7D 2GO-Size: 247px * 66px(<2Mb) / Upload File Type: *_PNG 图 20220617150 DGO-Size: 247px * 66px(<2Mb) / Upload File Type: *_PNG 图 文档 verview-Size: 549px * 430px(<2Mb) / Upload File Type: *_PNG 图 文档 pe: LOGO · · · · · · · · · · · · · · · · · ·	No Logo 🗌	组织 * 新建文件夹 📰 * 🛄	0
LOGO Settings OGO-Size: 247px * 66px(<2Mb) / Upload File Type; * PMC ○ Wet ○ Wet	Set	 ● 此电脑 ③ 3D 对象 	
DGO-Size: 247px * 66px(<2Mb) / Upload File Type: *.PNG verview-Size: 549px * 430px(<2Mb) / Upload File Type: *.PNG pe: LOGO ↓ elect File Upload 酸信图片_20220617150242.png II Config ↓ 文档 (C) ↓ 音乐 ■ 卓面 ◎ 気貌(C) ↓ 文档 (C) ↓ 音乐 ■ 卓面 ◎ 気貌(C) ↓ 文档 (C) ↓ (C)	OGO Settings		
Download 文件名(1): 微信图片_20220617150242 PNG Image ~ 打开(Q) 取消	DGO-Size: 247px * 66px(<2Mb) / Upload File Type: *_PNC iverview-Size: 549px * 430px(<2Mb) / Upload File Type: *.PNG pe: LOGO ivelect File Upload 微信图片_20220617150242.png	 ○ 文档 ○ 大档 ○ 大利 <	
打开(Q) 取消	Download	文件名(M): 微信图片_20220617150242 PNG Image	~
Select File Upload	ielect File Upload	打开(Q) 取消	

System Name UPS智能管理系统	
System Model upsViewer-PIS301	
Company Name xxx	
No Logo 🛛	
Set	ix
LOGO Settings	Do you want to continue this operation?
*LOGO-Size: 247px * 66px(<2Mb) / Upload File Type: *.PNG *Overview-Size: 549px * 430px(<2Mb) / Upload File Type: *.PNG Type: LOGO Select File Upload 微信图片_20220617150242.png	Cancel
All Config	
Download	
Select File Upload	

2 Upload the picture

Pay attention to the size and type of the logo picture.

System Name UPS智能管理系统
System Model upsViewer-PIS301
Company Name xxx
No Logo
Set
LOGO Settings
*LOGO-Size: 247px * 66px(<2Mb) / Upload File Type: *.PNG *Overview-Size: 549px * 430px(<2Mb) / Upload File Type: *.PNG Type: LOGO Select File Upload 微信图片_20220617150242.png Uploaded Successfully
All Config
Download
Select File Upload

3 Then recheck, the logo is already displayed.

