User Manual

PSU8

8 Ports DC Power Controller

with Sensors



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Version: PSU8_2018V1.3

ute electronic gmbh & co.kg

www.ute.de

Preface

Read this user manual carefully before using the product. Pictures are shown in this manual for reference only. Different models and specifications are subject to real product.

This manual is only for operation instruction, please contact the local distributor for maintenance assistance. The functions described in this version were updated till July, 2026. In the constant effort to improve the product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

All product function is valid till 2026-07.

Trademarks

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FCC Statement

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at their own expense will be required to take whatever measures may be necessary to correct the interference.

Any changes or modifications not expressly approved by the manufacture would void the user's authority to operate the equipment.

SAFETY PRECAUTIONS

- To einsure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.
- Unpack the equipment carefully and save the original box and packing material for possible future shipment
- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Do not put any heavy items on the extension cable in case of extrusion.
- Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
- Install the device in a place with fine ventilation to avoid damage caused by overheat.
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time.
- Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.

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1. Product Introduction

The PSU8 is designed for power control and data monitoring. It supports AC power inputs ranging from 110V to 250V, with output voltages of 5/12/18/24V per port. It offers multiple control methods for devices. This PDU also supports data monitoring via TCP/IP, supporting various network and IoT protocols.

Furthermore, it features multiple protection mechanisms to ensure device and user safety. To ensure the PDU is suitable for the environment, users can also connect environmental sensors for real-time monitoring of the surrounding environment.

1.1 Features

- Support 4 levels output voltage and up to 36W per port (up to 30W at 5V).
- Support voltage, current and power consumption metering.
- Two TCP/IP network ports to provide continuous network services.
- Overload protection, wiring error protection, remote login verification.
- Supports multiple network protocols and IoT protocols.
- Controllable via buttons, RS-232 and Web-GUI.
- Supports connecting sensors to monitor the external environment.

1.2 Package List

- 1 x PSU8: 19” 8-ports DC switching power supply/ power controller with sensors
- 1 x RS232 Cable (DB9 to 3-pin Phoenix Connector)
- 1 x Power Cable
- 2 x Mounting Ears and 6x Screws
- 4 x Mounting Feet and 4x Screws
- 8 x 2-pin Phoenix Male Plug
- 1 x User Manual

🕮 **Note:** Please contact your dealer immediately if any damage or defect in the components is found.

2. Panel Description

2.1 Front Panel



Figure 2-1 Front Panel PSU8

No.	Name	Description
①	POWER INDICATOR	1x green/ red LED, power input indicator. ● LED off: device off. ● Green on: device on. ● Red on: device standby.
②	OUTLET INDICATOR	8x blue/ red LEDs, power output indicator. ● LED off: stop power output. ● Blue on: power output. ● Blue flash: delayed state before power output. ● Red on: abnormal conditions, such as overload, overvoltage, etc. ● Red flash: detecting the load current. If load current is detected, the light will be blue. If no load current is detected, the light will flash red for 10 seconds then turns blue.
③	OUTLET BUTTON	8x white buttons, power output control button. Press the button to turn the output power on or off.
④	RS232	1x 3-pin phoenix terminal, 3.81mm, for RS-232 control.
⑤	TCP/IP	2x RJ45, for network service and Web-GUI. ● Green and yellow flash: connect to the Ethernet. ● Green and yellow off: disconnect to the Ethernet.

📖 **Note:** Pictures shown in this manual are for reference only, different model and specifications are subject to real product.

2.2 Rear Panel



Figure 2-2 Rear Panel PSU8

No.	Name	Description
①	OUTLET	8x 2-pin phoenix terminal, 3.81mm, for DC output.
②	VOLT	8x 4 green LEDs, from top to bottom, the 4 LEDs represent the output voltage of 5 (default)/ 12 / 18 / 24V.
③	SEL	8x pin-poke button, press it to switch the output voltage.
④	SENSOR	2x yellow RJ45, connect the sensor to monitor the external environment. ● Green on: power the sensor ● Green off: stop power the sensor ● Yellow on: data transfer ● Yellow off: without data transfer
⑤	INLET	1x IEC C14, for power input. AC 110-250V 10A.
⑥	POWER SWITCH	1x rocker switch, control power input.
⑦	GND	1x screw ground terminal.

🕮 **Note:** Pictures shown in this manual are for reference only, different model and specifications are subject to real product.

3. System Connection

3.1 Usage Precaution

1. Make sure all components and accessories included before installation.
2. System should be installed in a clean environment with proper temperature and humidity.
3. All of the power switches, plugs, sockets, and power cords should be insulated and safe.
4. All devices should be connected before power on.

3.2 System Diagram PSU8

The following diagram illustrates typical input and output connections that can be utilized with PSU8:

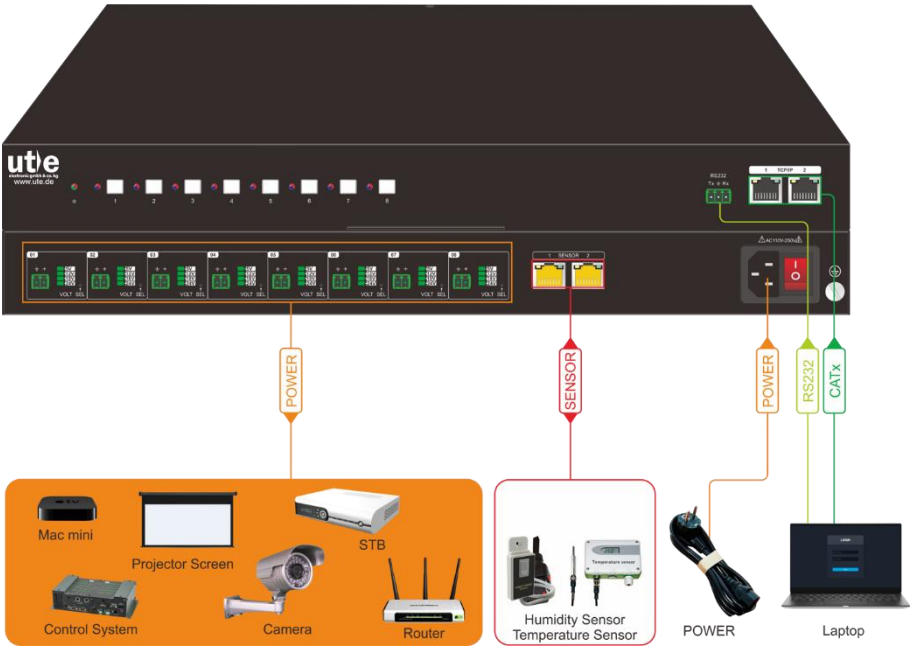


Figure 3-1 Connection and System Diagram

4. Button Control

The PSU8 can be controlled by using the buttons on the front panel.

4.1 Switch on/off output channel:

Press the button **1~8** on front panel to switch on/off the corresponding output channel.

4.2 Select the output voltage:

Press **SEL** on rear panel of corresponding output channel to select the output voltage as 5V, 12V, 18V or 24V.

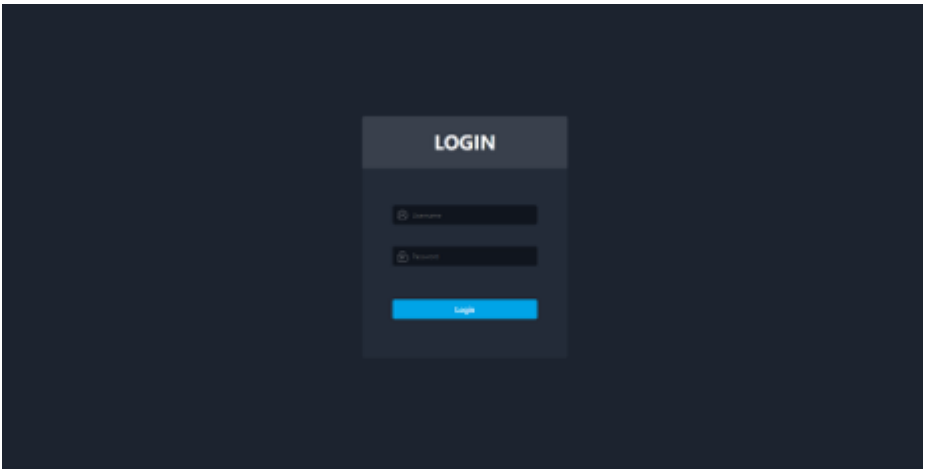
🕮 **Note:** After switching the output voltage, the corresponding LED will light green.

5. Web-GUI Control

Connect the TCP/IP port of the PSU8. TCP/IP supports DHCP by default. If it is DHCP, please use the assigned IP address. If connect the device directly to the PC or using the static IP, please enter the default TCP/IP information as follow:

- TCP/IP 1: 192.168.0.178
- TCP/IP 2: 169.254.2.225

Please type the IP address in the address bar of the browser to enter the Web-GUI login interface.



Then type the Username and the Password. The default login information is as follows:

Username: **admin**
Password: **Admin123@**

Last, click Login to enter the main interface.

📖 **Note**: To protect the safety of the device, please change the default password in time.

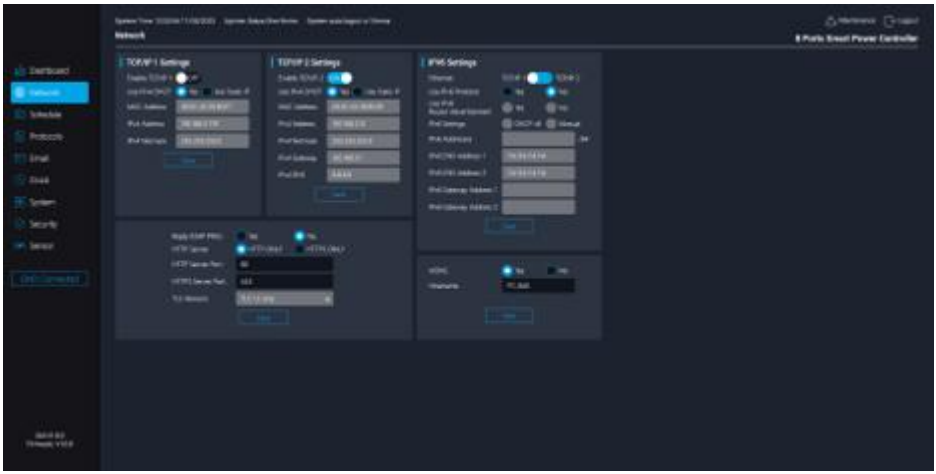
5.1 Dashboard



Here can set up the power supply and meter the data of power supply in real time.
Please note that when the voltage is 5V, the maximum power is 30W.
When other voltages are selected, the maximum power is 36W.

📖 **Note**: The output will automatically turn off for safety when switching voltages. Please manually turn the output back on to restore power to the third device.

5.2 Network



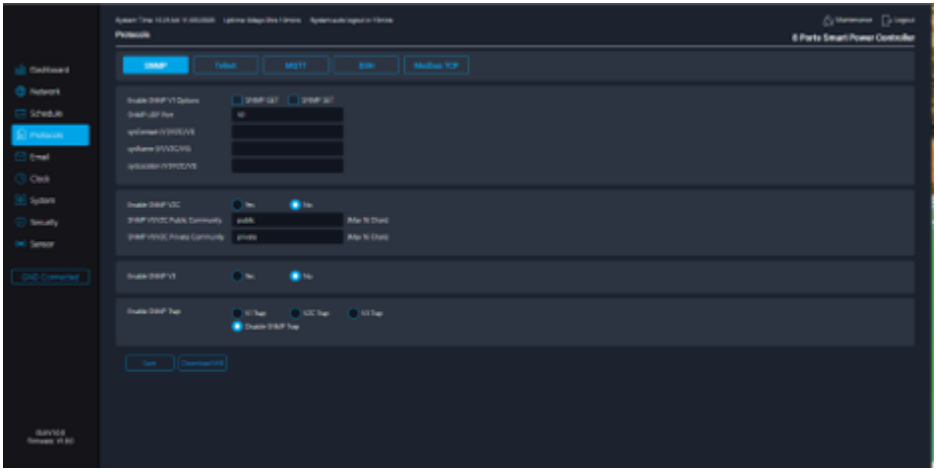
Here can set up the IPV4, IPV6, HTTP and mDNS

5.3 Schedule



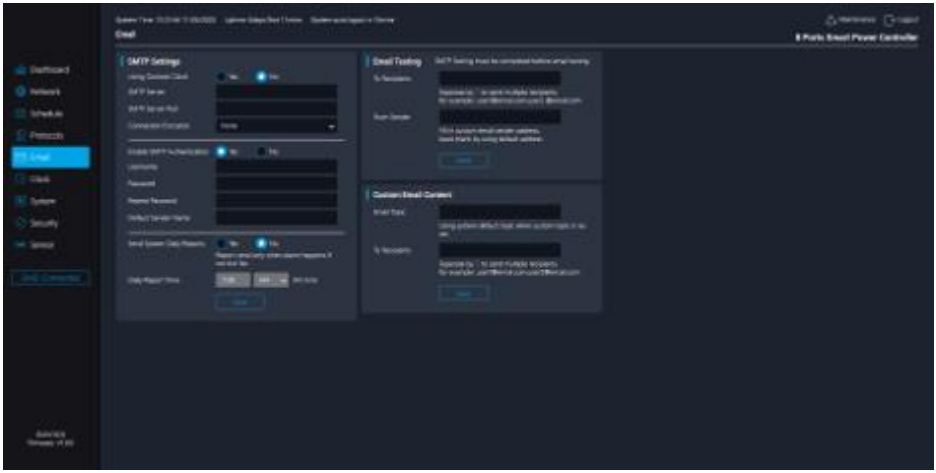
Here can schedule the on/off state of each output by selecting one or more boxes

5.4 Protocols



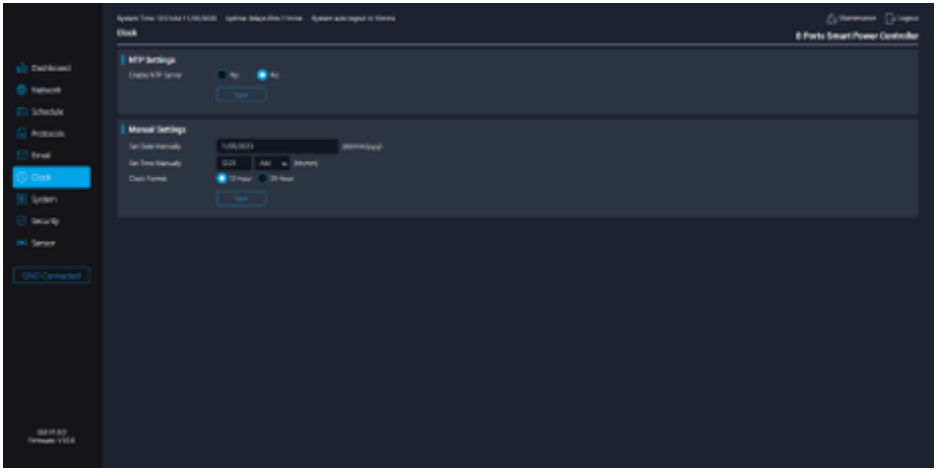
Here are some available protocols for user: SNMP, Telnet, MQTT, SSH and Modbus TCP. They are used to establish connection between some software and the device.

5.5 Email



Here can set up the e-mail severs and account to receive the alarming e-mails and the reports.

5.6 Clock



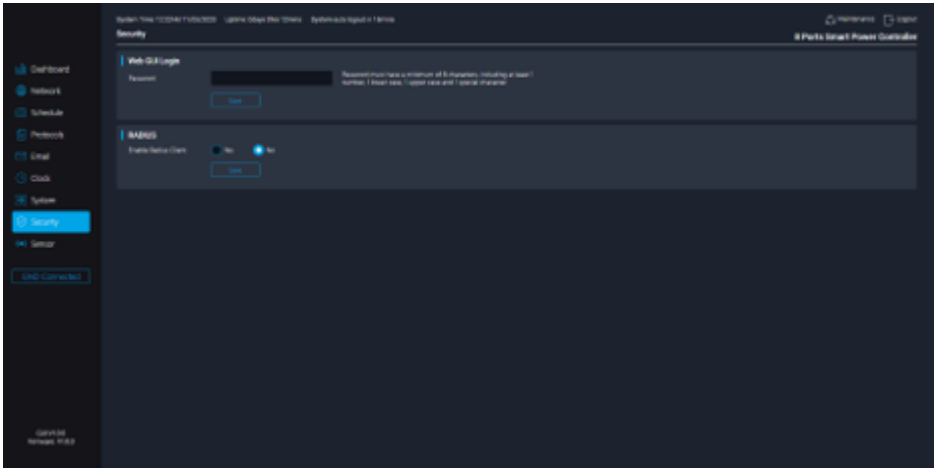
Here can configure the time. To get the real time from the internet by set up the NTP, or set the time manually.

5.7 System



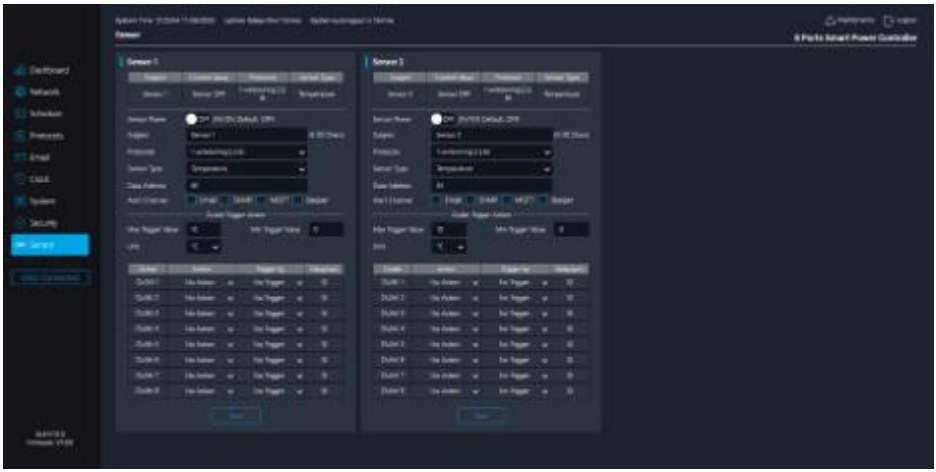
Here can set up the device function response time, overload processing and overload voltage threshold, etc.

5.8 Security



Here can set up the Web-GUI login password and configurate RADIUS.

5.9 Sensor



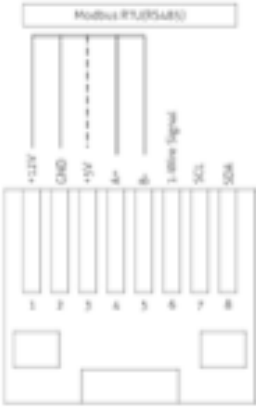
Here can manage the electrical characteristics and properties of sensors, etc.

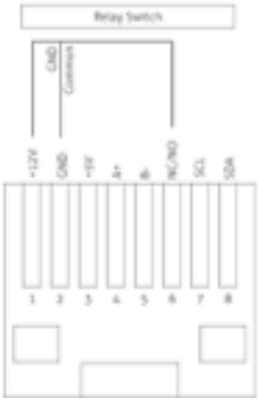
When connecting sensors, please note that different protocols correspond to different power supply voltages.

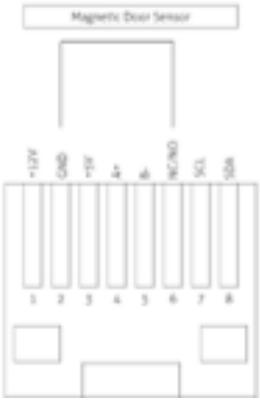
Please refer to the figure below for the wiring methods of different protocols.



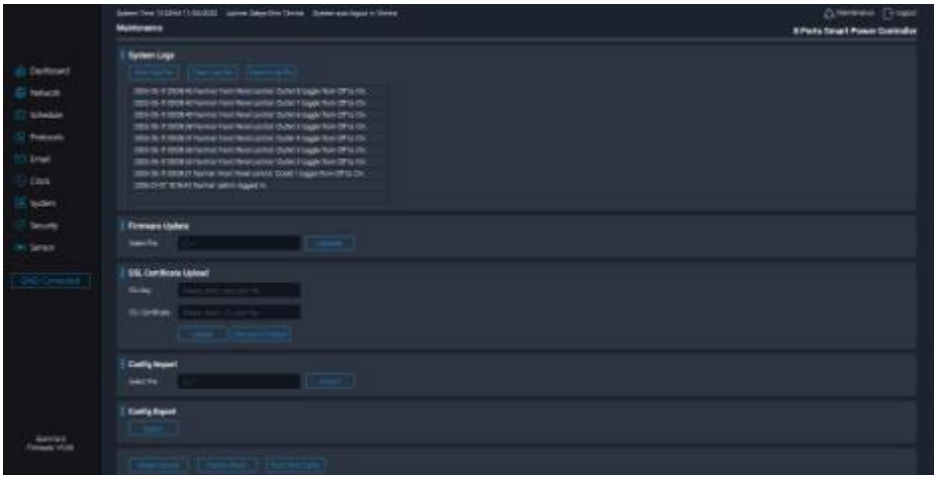








5.10 Maintenance



Here can view system logs, upgrade firmware, upload SSL certificate, import and export configurations, and restart devices, etc.

6. RS232 Control

Connect the PSU8 with all input devices and output devices needed, connect a PC to the RS232 port on the front panel, and then install the RS232 control software on the PC, the product can be controlled by sending RS232 commands via the RS232 control software.

6.1 RS232 Control Software

- **Installation** Copy the control software file to the control PC.
- **Uninstallation** Delete all the control software files in corresponding file path.

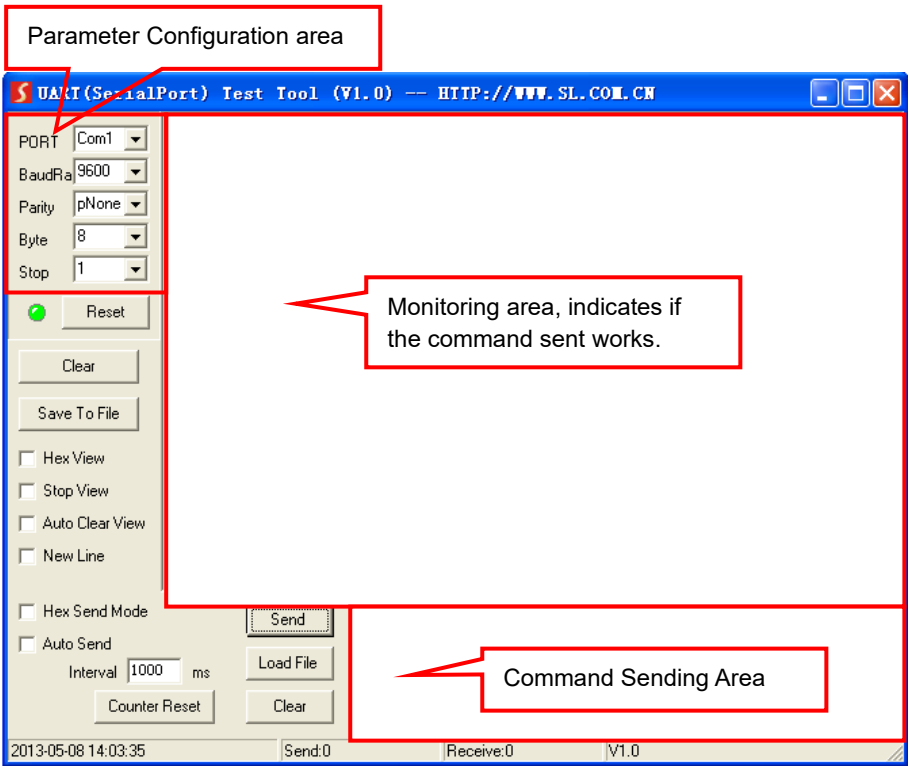
6.2 Basic Setting

Double-click the software icon to run this software.

Here we take the software **CommWatch.exe** as example. The icon is showed as below:



The interface of the control software is showed as below:



Please set the parameters of COM number, bound rate, data bit, stop bit and the parity bit correctly, and then you are able to send command in Command Sending Area.

For related parameters, please refer to 6.3 RS232 Command.

6.3 RS232 Command

Baud rate: 57600 (default)
Data bit: 8
Stop bit: 1
Parity bit: NONE
Command terminator: <CR><LF>
Error command feedback code: <Command error
<Out of range

Note:

1. Commands are not case sensitive and can automatically identify mixed case commands;
2. The "0" in front of the valid value can be ignored, for example: 01 and 1 inputs are both normal variable values;
3. The space between the command and the variable can be ignored, for example: >SetVideo01 and >SetVideo 01 commands can be sent effectively.

6.3.1 Get the Device Information

Command	Function	Example & Feedback
>?/Help	Get the command details	>? or >Help
		Some of the feedback is as follows: <PC-840 <V1.0.0a <System Information Commands >?/Help Print Help Information >GetStatus Print System Status And Port Status >GetOutletStatus xx Print Outlet xx On/Off xx = 0 All, 1 Outlet1, 2 Outlet2, 3 Outlet3, 4 Outlet4, 5 Outlet5, 6 Outlet6, 7 Outlet7, 8 Outlet8 >GetSensorCfg Print Sensor Configuration Information >GetElesta Print All Outputs Electricity Level Information >GetFwVersion Print FW Version And GUI Version <System Control Commands >SetDeviceName:xx Device Name: xx >SetPower On/Off

		System Power On/Off >SetKeyLock On/Off System KeyLock Control On/Off >SetSelectKeyLock On/Off Voltage Select KeyLock Control On/Off >FactoryReset FactoryReset >Reboot System Reboot And Apply New Config!!! >Resta System Restart …
>GetStatus	Get device status	>GetStatus Some of the feedback is as follows: <PC-840 <V1.0.0a <GetPowerStatus On <GetKeyStatus On <GetSelectKeyStatus On <GetTCP/IPEnable 1 <GetRS232Baud 57600 <GetSystemVoltageThreshold 250V <Outlet 1 On <Outlet 2 On <Outlet 3 On <Outlet 4 On <Outlet 5 On <Outlet 6 On <Outlet 7 On <Outlet 8 On <GetGroundStatus Properly Grounded <GetOutletMode 1 Idle <GetOutletMode 2 Idle <GetOutletMode 3 Idle <GetOutletMode 4 Idle <GetOutletMode 5 Idle <GetOutletMode 6 Idle <GetOutletMode 7 Idle <GetOutletMode 8 Idle …
>GetOutletStatus [Param1]	Get single-channel power information Param1 = 0-8 0: All Outlets 1: Outlet1 2: Outlet2 3: Outlet3 4: Outlet4 5: Outlet5 6: Outlet6 7: Outlet7 8: Outlet8	> GetOutletStatus 1 <Outlet 1 Off

>GetSensorCfg	Get sensor configuration data	>GetSensorCfg Some of the feedback is as follows: <PC-840 <V1.0.0a <GetSensor1PowerStatus Off <GetSensor1Protocols 1-wire <GetSensor1Type Tem <GetSensor1Address BE <GetSensor1Beeper Off <GetSensor1ValueMax 10 <GetSensor1ValueMin 0 <GetSensor1Unit 1 <GetSensor1Response 1 NoAction <GetSensor1Response 2 NoAction <GetSensor1Response 3 NoAction <GetSensor1Response 4 NoAction <GetSensor1Response 5 NoAction <GetSensor1Response 6 NoAction <GetSensor1Response 7 NoAction <GetSensor1Response 8 NoAction …
>GetElesta	Get the device power level	>GetElesta <PC-840 <V1.0.0a <Voltage 229.313V <Input Current 0.383A <Total Power 54.289W <Total Energy Consumed 0.003595kWh <Power Factor 0.62 <Frequency 50.03Hz <GetOutletVoltage 1 23.89V <GetOutletVoltage 2 11.99V <GetOutletVoltage 3 17.97V <GetOutletVoltage 4 4.89V <GetOutletVoltage 5 0.00V <GetOutletVoltage 6 0.00V <GetOutletVoltage 7 0.00V <GetOutletVoltage 8 0.00V <GetOutletCurrent 1 1.49A <GetOutletCurrent 2 0.72A <GetOutletCurrent 3 0.01A <GetOutletCurrent 4 0.00A <GetOutletCurrent 5 0.00A <GetOutletCurrent 6 0.00A <GetOutletCurrent 7 0.00A <GetOutletCurrent 8 0.00A <GetOutletPower 1 35.71W <GetOutletPower 2 8.67W <GetOutletPower 3 0.00W <GetOutletPower 4 0.00W <GetOutletPower 5 0.00W <GetOutletPower 6 0.00W <GetOutletPower 7 0.00W

		<GetOutletPower 8 0.00W <GetOutletConsumed 1 0.000328kWh <GetOutletConsumed 2 0.000277kWh <GetOutletConsumed 3 0.000000kWh <GetOutletConsumed 4 0.000000kWh <GetOutletConsumed 5 0.000000kWh <GetOutletConsumed 6 0.000000kWh <GetOutletConsumed 7 0.000000kWh <GetOutletConsumed 8 0.000000kWh
>GetFwVersion	Get version information	>GetFwVersion
		<GetFW Version: V1.0.0a <GetGUI Version: V1.0.0a
>GetSysTime	Get system time	>GetSysTime
		<GetSystemTime: 2025-06-20 12:47:16 Thu
>GetSensor1/Sensor2Current	Get the current value of Sensor1/Sensor2	>GetSensor1Current
		<Get Sensor1 Current Temperature Value N/A
>GetNetTcp/Ip List	Get the current network IP	>GetNetTcp/Ip List
		<List Current TCP/IP Address

6.3.2 Setting the Device

Command	Function	Example & Feedback
>SetKeyLock [Param1]	Set the system key control switch status Param1 = On,Off On - <GetKeyStatus Off Off - <GetKeyStatus On	>SetKeyLock On >SetKeyLock Off
		<KeyLock On <KeyLock Off
>SetSelectKeyLock [Param1]	Set the voltage range switch button to control the switch status Param1 = On,Off On - <GetSelectKeyStatus Off Off - <GetSelectKeyStatus On	>SetSelectKeyLock On >SetSelectKeyLock Off
		<SelectKeyLock On <SelectKeyLock Off
>SetDeviceName:[Param1]	Set device name Param1 = the device name to be sent (up to 14 characters)	>SetDeviceName:PC-840
		<Device Name:PC-840
>SetPower [Param1]	Enter/Exit Standby Mode Param1 = On,Off On - Power on Off - Power off	>SetPower Off >SetPower On
		<System Power Off <System Power On, Please Wait A Moment... Done
>SetVoltageThreshold [Param1]	Set the system voltage threshold Non-US standard voltage: Param1 =	>SetVoltageThreshold 222
		<System Voltage Threshold 222V

	[198,264]	
>SetSafeMode [Param1]	Set the system safety mode when overloaded Param1 = 0-2 0: Outlet_Shutdown 1: System_Shutdown 2: Auto_Retry	>SetSafeMode 0 >SetSafeMode 1 >SetSafeMode 2
		<System Safe Mode : Outlet_Shutdown <System Safe Mode : System_Shutdown <System Safe Mode : Auto_Retry
>SetOverloadRetryCnt [Param1]	Set the number of restarts when overloaded Param1 = 1-3 1(Default)	>SetOverloadRetryCnt 1 >SetOverloadRetryCnt 2 >SetOverloadRetryCnt 3
		<System Retry Number 1 <System Retry Number 2 < System Retry Number 3
>SetOverloadRetryTime [Param1]	Set the restart time when overload occurs, in minutes Param1 = 1-10 3 (Default)	>SetOverloadRetryTime 1
		<System Retry Delay Time 1mins
>SetStandbyMode [Param1]	Set system standby mode Param1 = 0-1 0: All_Standby_Mode 1: Sleep_Mode	>SetStandbyMode 0 or >SetStandbyMode 1
		<System Standby Mode : All_Standby_Mode or <System Standby Mode : Sleep_Mode
>SetRs232Baud [Param1]	Set RS232 baud rate Param1 = 1-7 1: 2400 2: 4800 3: 9600 4: 19200 5: 38400 6: 57600 (Default) 7: 115200	>SetRs232Baud 6
		<RS232Baud 57600
>SetRs232Out [Param1]:[Param2]:[Param3]:[Param4]	RS232 transparent transmission Param1 = a,h a: ASCII h: HEX Param2 = 1-7 1: 2400 2: 4800 3: 9600 4: 19200 5: 38400 6: 57600(Default), 7: 115200 Param3 = 1-3 1: None 2: Even 3: Odd Param4 = string	>SETRS232OUT a:6:1:RS232
		RS232

>SetBeeperTime [Param1]	Set the buzzer response time when alarm occurs, in seconds Param1 = 0: 9999 10 (Default)	>SetBeeperTime 10
		<Buzzer Sound Time 10s
>SetOutletRestaTime [Param1]:[Param2]	Set the channel power reset delay time, in seconds Param1 = 1-8 1: Outlet1 2: Outlet2 3: Outlet3 4: Outlet4 5: Outlet5 6: Outlet6 7: Outlet7 8: Outlet8 Param2 = 2-9999	>SetOutletRestaTime 1:2
		<Outlet 1 Power_Resta Delay 2s
>SetOutletOnTime [Param1]:[Param2]	Set the delay time of the channel opening action, in seconds Param1 = 1-8 1: Outlet1 2: Outlet2 3: Outlet3 4: Outlet4 5: Outlet5 6: Outlet6 7: Outlet7 8: Outlet8 Param2 = 2-9999	>SetOutletOnTime 1:2
		<Outlet 1 Power_On Delay 2s
>SetOutletOffTime [Param1]:[Param2]	Set the delay time of the channel closing action, in seconds Param1 = 1-8 1: Outlet1 2: Outlet2 3: Outlet3 4: Outlet4 5: Outlet5 6: Outlet6 7: Outlet7 8: Outlet8 Param2 = 0-9999	>SetOutletOffTime 1:1
		<Outlet 1 Power_Off Delay 1s

>SetOutletEleResetTime[Param1]:[Param2]	Set the channel power reset delay time, in seconds Param1 = 1-8 1: Outlet1 2: Outlet2 3: Outlet3 4: Outlet4 5: Outlet5 6: Outlet6 7: Outlet7 8: Outlet8 Param2 = 0-9999 10(Default)	>SetOutletEleResetTime 1:10
		<Outlet 1 Electrical Work Reset Duration 10s
>SetAllOut [Param1]	Set the switch status of all channels Param1 = On,Off	>SetAllOut On >SetAllOut Off
		<All Outlets On <All Outlets Off
>SetOutlet [Param1][Param2]	Set the single channel switch status Param1 = 1-8 1: Outlet1 2: Outlet2 3: Outlet3 4: Outlet4 5: Outlet5 6: Outlet6 7: Outlet7 8: Outlet8 Param2 = On,Off,Resta	>SetOutlet 1 On
		<Outlet 1 On
>SetAllVolt [Param1]	Set the voltage value of all channels Param1 = 5,12,18,24 5: 5V 12: 12V 18: 18V 24: 24V	>SetAllVolt 5
		<All Outlets Off <All Outlets Voltage Status 5V
>SetOutVolt [Param1]:[Param2]	Set the voltage value of a single channel Param1 = 1-8 1: Outlet1 2: Outlet2 3: Outlet3 4: Outlet4 5: Outlet5 6: Outlet6 7: Outlet7 8: Outlet8 Param2 = 5,12,18,24 5: 5V 12: 12V 18: 18V 24: 24V	>SetOutVolt 1: 24
		<Outlet 1 Off <Outlet 1 Voltage Status 24V

>SetSysTime [Param1]	Set system time param1 = year-month-day;hour-minutes-seconds	>SetSysTime 2025-03-18;11-26-59
		<SetSystemTime: 2025-03-18 11:26:59

6.3.3 Setting the TCP/IP

Command	Function	Example & Feedback
>SetNetTcp/IpEnable [Param1]	Set TCP/IP enable Param1 = 1-2 1: TCP/IP1 2: TCP/IP2	>SetNetTcp/IpEnable 1 >SetNetTcp/IpEnable 2
		<TCP/IP1 Enable <TCP/IP2 Enable
>SetNetTcp/Ip1Dhcp [Param1]	Set TCP/IP1 DHCP status Param1 = On,Off	>SetNetTcp/Ip1Dhcp On >SetNetTcp/Ip1Dhcp Off
		<TCP/IP1 DHCP On <TCP/IP1 DHCP Off
>SetNetTcp/Ip1Ip [Param1]	Set TCP/IP1 IPaddress Param1 = XXX.XXX.XXX.XXX	>SetNetTcp/Ip1Ip 192.168.000.001
		<TCP/IP1 IP Address 192.168.000.001
>SetNetTcp/Ip1Gw [Param1]	Set TCP/IP1 Gateway address Param1 = XXX.XXX.XXX.XXX	>SetNetTcp/Ip1Gw 192.168.000.254
		<TCP/IP1 Gateway Address 192.168.000.254
>SetNetTcp/Ip1Sm [Param1]	Set TCP/IP1 Subnet Mask address Param1 = XXX.XXX.XXX.XXX	>SetNetTcp/Ip1Sm 192.168.000.254
		<TCP/IP1 Subnet Mask 192.168.000.254
>SetNetTcp/Ip2Dhcp [Param1]	Set TCP/IP2 DHCP status Param1 = On,Off	>SetNetTcp/Ip2Dhcp On >SetNetTcp/Ip2Dhcp Off
		<TCP/IP2 DHCP On <TCP/IP2 DHCP Off
>SetNetTcp/Ip2Ip [Param1]	Set TCP/IP2 IP address Param1 = XXX.XXX.XXX.XXX	>SetNetTcp/Ip2Ip 192.168.000.001
		<TCP/IP2 IP Address 192.168.000.001
>SetNetTcp/Ip2Gw [Param1]	Set TCP/IP2 Gateway address Param1 = XXX.XXX.XXX.XXX	>SetNetTcp/Ip2Gw 192.168.000.254
		<TCP/IP2 Gateway Address 192.168.000.254
>SetNetTcp/Ip2Sm [Param1]	Set TCP/IP2 Subnet Mask address Param1 = XXX.XXX.XXX.XXX	>SetNetTcp/Ip2Sm 192.168.000.254
		<TCP/IP2 Subnet Mask 192.168.000.254
>SetNetMdns [Param1]	Set mDNS status Param1 = On,Off	>SetNetMdns On >SetNetMdns Off
		<mDNS On <mDNS Off
>SetNetRb	Restart IP service	>SetNetRb
		<Network Reboot And Apply New Config

>SetNetTcp/Ipv61 Protocol [Param1]	Set TCP/IPv61 Protocol status Param1 = On,Off	>SetNetTcp/Ipv61Protocol On >SetNetTcp/Ipv61Protocol Off
		<TCP/IPv6 1 Protocol On <TCP/IPv6 1 Protocol Off
>SetNetTcp/Ipv61 Dhcp [Param1]	Set TCP/IPv61 DHCP status Param1 = On,Off	>SetNetTcp/Ipv61Dhcp On >SetNetTcp/Ipv61Dhcp Off
		<TCP/IPv6 1 DHCP On <TCP/IPv6 1 DHCP Off
>SetNetTcp/Ipv61Ip [Param1]	Set TCP/IPv61 IP address Param1 = XXXX:XXXX:XXXX:XXXX:XXXX:XXXX:XXXX:XXXX	>SetNetTcp/Ipv61Ip fe80:0000:0000:0000:0440:44ff:1233:5678
		<TCP/IPv61 IP Address fe80:0000:0000:0000:0440:44ff:1233:5678
>SetNetTcp/Ipv61 Gw [Param1][Param2]	Set TCP/IPv61 Gateway address Param1 = 1-2 Param2 = XXXX:XXXX:XXXX:XXXX:XXXX:XXXX:XXXX:XXXX	>SetNetTcp/Ipv61Gw 1 fe80:0000:0000:0000:0440:44ff:1233:0001 >SetNetTcp/Ipv61Gw 2 fe80:0000:0000:0000:0440:44ff:1233:0001
		<TCP/IPv61 Gateway Address1 fe80:0000:0000:0000:0440:44ff:1233:0001 <TCP/IPv61 Gateway Address2 fe80:0000:0000:0000:0440:44ff:1233:0002
>SetNetTcp/Ipv62 Protocol [Param1]	Set TCP/IPv62 Protocol status Param1 = On,Off	>SetNetTcp/Ipv62Protocol On >SetNetTcp/Ipv62Protocol Off
		<TCP/IPv6 2 Protocol On <TCP/IPv6 2 Protocol Off
>SetNetTcp/Ipv62 Dhcp [Param1]	Set TCP/IPv62 DHCP status Param1 = On,Off	>SetNetTcp/Ipv62Dhcp On >SetNetTcp/Ipv62Dhcp Off
		<TCP/IPv6 2 DHCP On <TCP/IPv6 2 DHCP Off
>SetNetTcp/Ipv62Ip [Param1]	Set TCP/IPv62 IP address Param1 = XXXX:XXXX:XXXX:XXXX:XXXX:XXXX:XXXX:XXXX	>SetNetTcp/Ipv62Ip fe80:0000:0000:0000:0440:44ff:1233:5679
		<TCP/IPv62 IP Address fe80:0000:0000:0000:0440:44ff:1233:5679
>SetNetTcp/Ipv62 Gw [Param1][Param2]	Set TCP/IPv62 Gateway address Param1 = 1-2 Param2 = XXXX:XXXX:XXXX:XXXX:XXXX:XXXX:XXXX:XXXX	>SetNetTcp/Ipv62Gw 1 fe80:0000:0000:0000:0440:44ff:1233:0001 >SetNetTcp/Ipv62Gw 2 fe80:0000:0000:0000:0440:44ff:1233:0002
		<TCP/IPv62 Gateway Address1 fe80:0000:0000:0000:0440:44ff:1233:0001 <TCP/IPv62 Gateway Address2 fe80:0000:0000:0000:0440:44ff:1233:0002

6.3.4 Setting the sensor

Command	Function	Example & Feedback
>Set [Param1] Power [Param2]	Set the switch status of Sensor1/Sensor2 Param1 = Sensor1, Sensor2 Param2 = 0-1 0: Off 1: On	>SetSensor1Power 1 >SetSensor2Power 1
		<Sensor1 Power On <Sensor2 Power On
>Set [Param1] Protocols [Param2]	Set the Sensor1/Sensor2 protocol Param1 = Sensor1, Sensor2 Param2 = 1-5 1: 1-wire(wiring2,3,6) 2: I2C(wiring2,3,7,8) 3: Modbus-RTU-RS485(wiring1,2,4,5) 4: Door(wiring2,6) 5: Relay Switch(wiring1,2,6)	>SetSensor1Protocols 1 >SetSensor2Protocols 1
		<Sensor1 Protocols 1-wire(wiring2,3,6) <Sensor2 Protocols 1-wire(wiring2,3,6)
>Set [Param1] Type [Param2]	Set Sensor1/Sensor2 type Param1 = Sensor1, Sensor2 Param2 = 1-7 1: Temperature 2: Humidity 3: Temperature And Humidity 4: Air Pressure 5: Other Data 6: Normally Open 7: Normally Close	>SetSensor1Type 1 >SetSensor2Type 1
		<Sensor1 Type Temperature <Sensor2 Type Temperature
>Set [Param1] Address [Param2]	Set Sensor1/Sensor2 data address Param1 = Sensor1, Sensor2 Param2 = [00-FF] or [0000:FFFF]	>SetSensor1Address 0E >SetSensor2Address 0E
		<Sensor1 Data Address 0E <Sensor1 Data Address 0E
>Set [Param1] MSAddress [Param2]	Set the slave address of Sensor1/Sensor2 Param1 = Sensor1, Sensor2 Param2 = 00-FF	>SetSensor1MSAddress 02 >SetSensor2MSAddress 02
		<Sensor1 Slave Station Address 02 <Sensor2 Slave Station Address 02

>Set [Param1] MFuncCode [Param2]	Set Sensor1/Sensor2 function code Param1 = Sensor1, Sensor2 Param2 = 03 or 04	>SetSensor1MFuncCode 03 >SetSensor2MFuncCode 03
		<Sensor1 Function Code 03 <Sensor2 Function Code 03
>Set [Param1] ValueMax [Param2]	Set the maximum value of Sensor1/Sensor2 Param1 = Sensor1, Sensor2 Param2 = [-9998, 9999]	>SetSensor1ValueMax 30 >SetSensor2ValueMax 30
		<Sensor1 Max Value 30 <Sensor2 Max Value 30
>Set[Param1] ValueMin [Param2]	Set the minimum value of Sensor1/Sensor2 Param1 = Sensor1, Sensor2 Param2 = [-9999, 9998]	>SetSensor1Valuemin 20 >SetSensor2Valuemin 20
		<Sensor1 Min Value 20 <Sensor2 Min Value 20
>Set [Param1] Unit [Param2]	Set Sensor1/Sensor2 Units Param1 = Sensor1, Sensor2 Param2 = 1-3 1: ℃ 2: %RH 3: hPa	>SetSensor1unit 1 >SetSensor2unit 1
		<Sensor1 Unit 1 <Sensor2 Unit 1
>Set [Param1] Beeper [Param2]	Set Sensor1/Sensor2 buzzer switch Param1 = Sensor1, Sensor2 Param2 = On,Off	>SetSensor1Beeper On >SetSensor2Beeper On
		<Sensor1 Beeper On <Sensor2 Beeper On
>Set [Param1] OutletMode [Param2]:[Param3]	Set the channel to respond to the action of Sensor1/Sensor2 Param1 = Sensor1, Sensor2 Param2 = 1-8 1: Outlet1 2: Outlet2 3: Outlet3 4: Outlet4 5: Outlet5 6: Outlet6 7: Outlet7 8: Outlet8 Param3 = 1-4 1: NoAction 2: Power On 3: Power Off 4: Restart	>SetSensor1OutletMode 1:2 >SetSensor2OutletMode 1:2
		<Outlet 1 Response Sensor1 Mode Power On <Outlet 1 Response Sensor2 Mode Power On

>Set [Param1] OutletTrigger [Param2]:[Param3]	Set the trigger condition of the channel response sensor Param1 = Sensor1, Sensor2 Param2 = 1-8 1: Outlet1 2: Outlet2 3: Outlet3 4: Outlet4 5: Outlet5 6: Outlet6 7: Outlet7 8: Outlet8 Param3 = 1-6 1: No Trigger 2: Max Trigger 3: Min Trigger 4: Min-Max 5: On 6: Off	>SetSensor1OutletTrigger 1:2 >SetSensor2OutletTrigger 1:2
		<Outlet 1 Response Sensor1 Trigger Max <Outlet 1 Response Sensor2 Trigger Max
>Set [Param1] OutletDelay [Param2]:[Param3]	Set the delay time for the channel to respond to the action performed by Sensor1/Sensor2 Param1 = Sensor1, Sensor2 Param2 = 1-8 1: Outlet1 2: Outlet2 3: Outlet3 4: Outlet4 5: Outlet5 6: Outlet6 7: Outlet7 8: Outlet8 Param3 = 0-9999	>SetSensor1OutletDelay 1:10
		<Outlet 1 Response Sensor1 Delay 10s

6.3.5 Restore the Device

Command	Function	Example & Feedback
>RsAllOutEle	Reset all channel power values	>RsAllOutEle
		<Clean Up Electrical Work: All Outlets
>RsOutEle [Param1]	Reset single channel power value Param1 = 1-8 1: Outlet1 2: Outlet2 3: Outlet3 4: Outlet4 5: Outlet5 6: Outlet6 7: Outlet7 8: Outlet8	>RsOutEle 1
		<Clean Up Electrical Work: Outlet 1
>FactoryReset	Restore factory settings	>FactoryReset
		<FactoryReset
>Reboot	MCU Reboot	>Reboot
		<Reboot
>Resta	Restart all outputs	>Resta
		<System Restart

7. Specification

Input	
Input Voltage	AC 110~250VAC 50~60Hz
Input Frequency	50/ 60Hz
Connector	1x IEC C14
Output	
Output Voltage	5V, 12V, 18V or 24V can be selectable.
Full load power	Up to 36W (max. 30W at 5V)
Connector	8x 2-pin phoenix terminal
Control	
Mode	Buttons, Web-GUI, RS-232
Connector	8x white buttons, 2x RJ45, 1x 3-pin phoenix terminal
General	
Voltage Range	110-250V
Current Range	0-10A
Frequency Range	45-65Hz
Power Factor	0-1
Operation Temperature	-5 ~ +55℃
Storage Temperature	-20 ~ +70℃
Relative Humility	0% ~ 80%
Standby Power Consumption	1.9W
Dimension (W*H*D)	436.4mm x 44mm x 245mm
Net Weight	3.14Kg

8. Panel Drawing

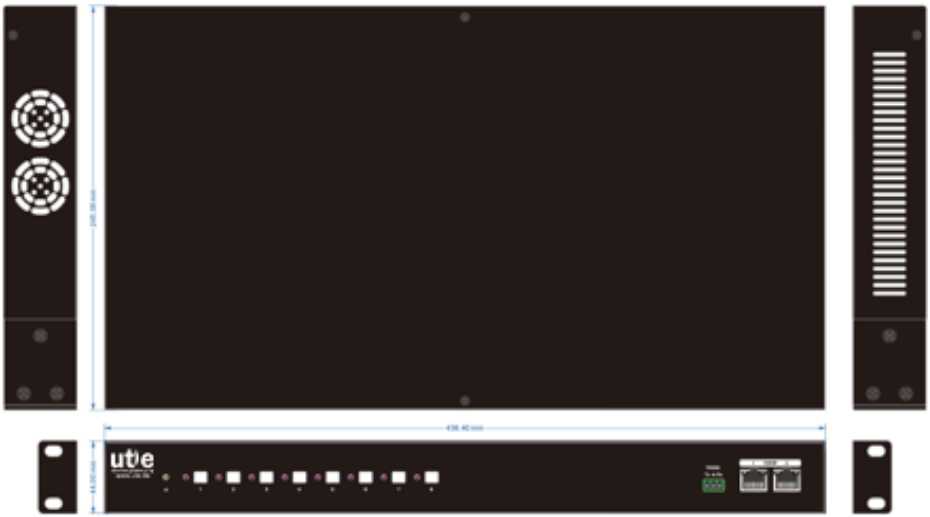


Figure 8-1 PSU8

9. Customer Service

If there appear some problems when running this device, please check and deal with the problems referring to this user manual. Any transport costs are borne by the users during the warranty.

The return of a product to our Customer Service implies the full agreement of the terms and conditions hereinafter. There terms and conditions may be changed without prior notice.

1) **Product Limited Warranty:** We warrants that its products will be free from defects in materials and workmanship for two years**,** which starts from the first day you buy this product (The purchase invoice shall prevail).
   Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

2) **Scope**
   These terms and conditions of Customer Service apply to the customer service provided for the products or any other items sold by authorized dealer only.

3) **What the warranty does not cover:**
   - Warranty expiration.
   - Factory applied serial number has been altered or removed from the product.
   - Damage, deterioration or malfunction caused by:
     - Normal wear and tear
     - Use of supplies or parts not meeting our specifications
   - No certificate or invoice as the proof of warranty.
   - The product model showed on the warranty card does not match with the model of the product for repairing or had been altered.
   - Damage caused by force majeure.
   - Servicing not authorized.
   - Any other causes which does not relate to a product defect
   - Delivery, installation or labor charges for installation or setup of the product

4) **Documentation:** Customer Service will accept defective product(s) in the scope of warranty coverage at the sole condition that the defeat has been clearly defined, and upon reception of the documents or copy of invoice, indicating the date of purchase, the type of product, the serial number, and the name of dealer.

5) **Technical Support:** Email to our after-sales department or make a call, please inform us the following information about your cases.
   - Product version and name.
   - Detailed failure situations.
   - The formation of the cases.

Remarks: For any questions or problems, please try to get help from your local dealer or our customer support (info@ute.de).



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