

GSP2108

Switch Frame Distribution Unit 8-way 220V AC Distribution System



This catalog introduces the electrical characteristics, specifications and other information of 8-channel 220V AC distribution system, through this directory, you can quickly and accurately find the product you need.

WWW.GEMSNAV.COM

Description

GSP2108 is a 220V AC 1 into 8 power supply system, controlled by 8 high-current solid-state relays 8 output AC off, output current real-time monitoring, and set the custom current alarm.

Function List

Specification	1 into 8 out
Height	1UStandard cabinet
Input Voltage	85-264V AC
Output Voltage	85-264V AC
Output rated current	Single maximum output current 10A
Communication	10M/100Mbase Ethernet communication protocol
Communication media	RJ45 twisted pair
Operating temperature	-20°C-70°C
Relative humidity	5%-95% no dew

Specification

Product Name	GSP2108
Typical application	Multichannel AC power supply for automatic test
Input	1-way AC input
Output	8-way AC output
Communication	RJ45, RG232
Display	Output current real-time LCD display
Control	8-way AC output independent network control, device keys independently controlled, PC terminal software control and Python script control
Set	Network address, rate setting, communication rules setting
Safety	8-way overload protection, over-voltage protection, short circuit protection

PC-side network control

- Independent control of the current in the software on-off;
- Real-time reflect the various states of power off and current;
- Set custom current alarm;
- Customize the output timing off power.

Initial value description

Name	GSP2108
IP address	192.168.1.191
Subnet mask	255.255.255.0
Default gateway	192.168.1.1
Port	4001
Default initial switch state	All 8 road closes, preset alarm current 3A, turn off current 5A

Communication protocol

The GSP2108 series uses 10M/100Mbase Ethernet communication protocol. It can be easily connected to the network, and users can access the system conveniently through Ethernet. Support Telnet communication protocol, users can control the system by typing ASCII code, or control by the control software provided with the device.

Communication date format:

Single circuit control power switch

Instruction format	setswab (NO space)
Parameter description	a= Number of ways to control。 b=0 close b=1 open
Sample	setsw11 Open the first way setsw30 Close the third way
Return	If the format correct device receives the instruction retur "OK" ,The format is not correct and no return
Instruction description	Control single circuit switch

Single port state query

Instruction format	swc (NO space)
Parameter description	c= Number of ways to query
Sample	sw1 Query the first port state
Return	If the format correct device receives the instruction return to the port current state, the format is not correct and does not return,such as return "1 2.3A" The port that indicates the current query is the open current 2.3A
Instruction description	Query single path port state

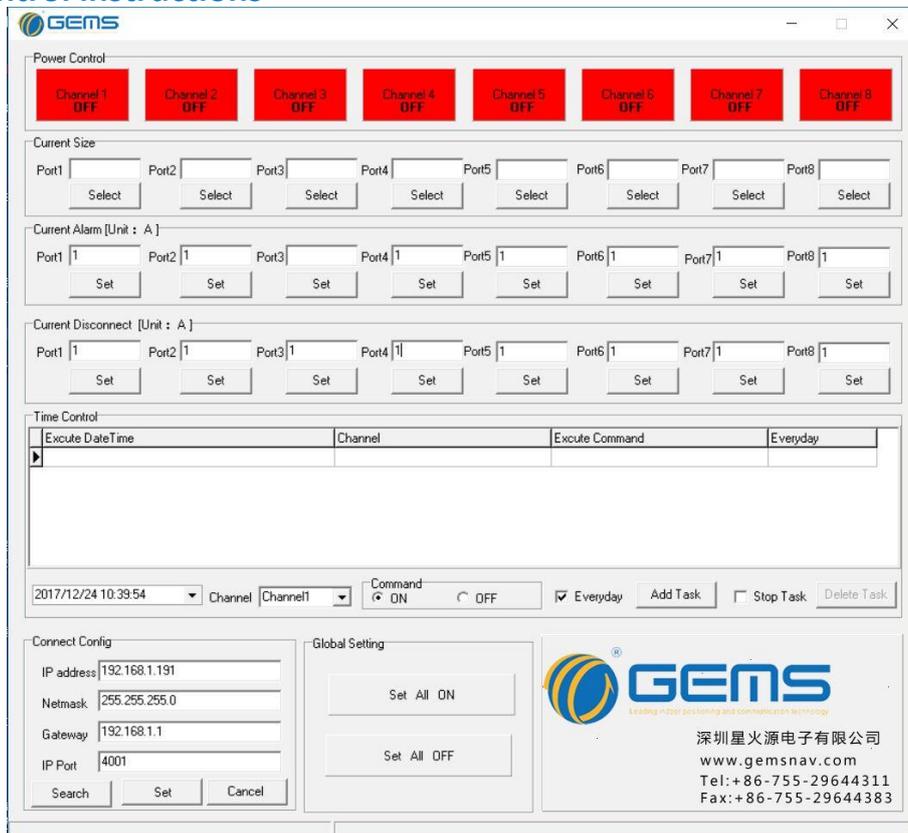
Single path alarm current setting

Instruction format	setayxx.x (NO space)
Parameter description	y= Set the number of alarm currents, xx.x= Set alarm current (Must end with one decimal)
Sample	seta56.0 Set fifth route alarm current 6A
Return	If the format correct device receives the instruction return "OK".The format is not correct and no return
Instruction description	Single path alarm current setting

Single turn off current setting

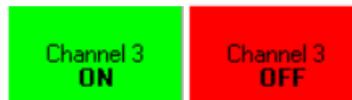
Instruction format	setczxx.x (NO space)
Parameter description	z= Set the number of ways to turn off the current, xx.x= Set shutdown current (Must end with one decimal)
Sample	setc68.0 Set sixth turn off current 8A
Return	If the format correct device receives the instruction return "OK".The format is not correct and no return
Instruction description	Single turn off current setting

Software control instructions



The screenshot displays the GEMS software control interface. At the top, there are eight red buttons labeled 'Channel 1 OFF' through 'Channel 8 OFF'. Below this are sections for 'Current Size' (Ports 1-8 with 'Select' buttons), 'Current Alarm [Unit : A]' (Ports 1-8 with 'Set' buttons), and 'Current Disconnect [Unit : A]' (Ports 1-8 with 'Set' buttons). A 'Time Control' section includes a table with columns for 'Excute DateTime', 'Channel', 'Excute Command', and 'Everyday'. Below the table are controls for date/time (2017/12/24 10:39:54), channel selection (Channel1), command selection (ON/OFF), and checkboxes for 'Everyday', 'Add Task', 'Stop Task', and 'Delete Task'. At the bottom, there are 'Connect Config' fields for IP address (192.168.1.191), Netmask (255.255.255.0), Gateway (192.168.1.1), and IP Port (4001), along with 'Global Setting' buttons for 'Set All ON' and 'Set All OFF'. The GEMS logo and company information (深圳星火源电子有限公司, www.gemsnv.com, Tel: +86-755-29644311, Fax: +86-755-29644383) are visible in the bottom right corner.

The "Power Control" column is used to control the channel's on-off. By clicking the channel identifier, it can easily switch on and off state of the channel. The "Current Size" column is displayed for each channel current; click "Select" to display the current. The "Current Alarm" and "Current Disconnect" columns are set for alarm current and turn off current respectively; input values click "Set" settings.



If you want to modify the IP address information, you can input it in the format of "Connect Config" column "IP address", then click IP to click "Set".

Connect Config

IP address

Netmask

Gateway

IP Port

Note: other modifications will cause communication failure. If further modification is required, contact with the supplier.

Time Control

Execute DateTime	Channel	Execute Command	Everyday

Channel
Command ON OFF
 Everyday

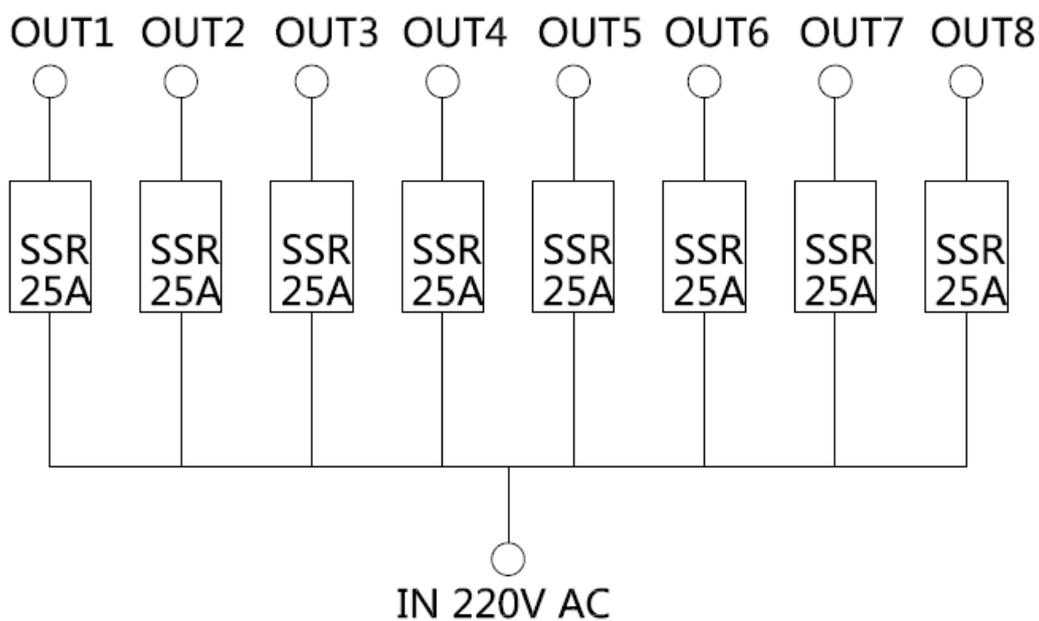
 Stop Task

By setting time and issuing commands, this control can achieve timing control, set up by adding "Add Task" to the middle data table, delete tasks, select "Stop Task", select tasks that need to be deleted, and click "Delete Task".

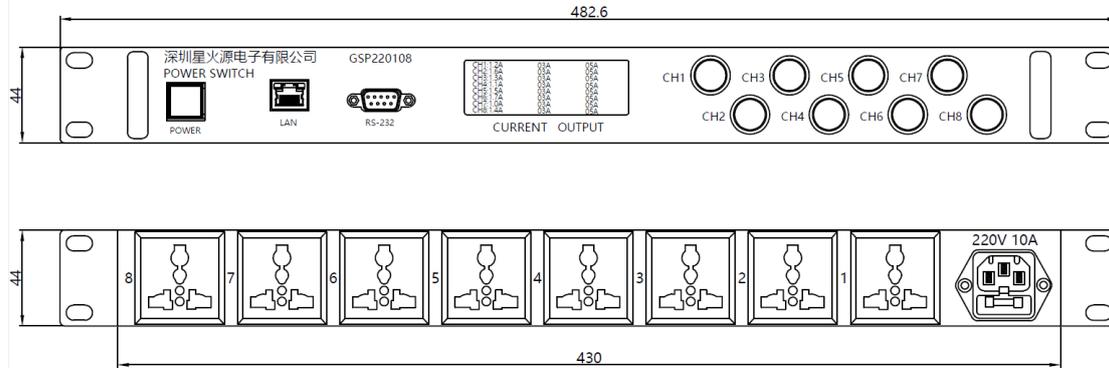
Common problem

number	Phenomenon	Analysis	Maintenance method
1	IP Address cannot be connected	IP Address error or network connection exception	Check whether the network connection is correct, and then try the Ping system IP address, and configure the network port by software
2	After opening a road, the output end is still not electric, indicating the light is not bright	Current anomaly leads to fuse breakage	Please replace the fuse, the fuse model: F10AL250V

Schematic diagram



Mechanical



Application Features

GSP2108 is an 8-way AC output control system widely used in the construction of computer room cabinets. It can remotely control 8 AC outputs over the network. You can set power on and off during the period, set custom current alarms to ensure the safety of power consumption, Reliable AC power management solution.