

GSP4108

Switch Frame Distribution Unit 8-way 48V DC Distribution System



This catalog introduces the electrical characteristics, specifications and other information of 8-way 48V DC distribution system, through this directory, you can quickly and accurately find the product you need.

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Description

GSP4108 has network remote monitoring and control of 8 48V DC power current and switch off function, users can control the power through Ethernet. It is widely used in the construction of machine room cabinets to provide a simple and reliable power management scheme for the management staff of the machine room.

Function List

Product Name	GSP4108
Suitable	Room cabinet power supply
Input	1-way DC input
Output	8-way DC output
Communication	RJ45
Display	Output current real-time LCD display
Control	8-way DC output independent network control, device keys independently controlled
Set	Network address, rate setting, communication rules setting
Safety	8-way overload protection, overvoltage protection, short circuit protection (safety tube)
protocol	Telnet protocol

PC network control

- Independently control the current power-off and power-off in software
- Real-time reflection of each channel's power-off state and current
- Set custom over-current alarms and over-current power-off
- Customize each output timing and power off
- Support Telnet communication protocol, you can use Python script to complete automation control and test

Specification

Specification	1 into 8 out
Height	2U standard cabinet
Input Voltage	48V DC
Output Voltage	48V DC
Output rated current	Each way 20A
Communication	10M/100Mbase Ethernet communication protocol
Communication media	RJ45 twisted pair
Operating temperature	-20°C-70°C
Relative humidity	5%-95% no dew

Initial value description

IP address	192.168.1.191
Subnet mask	255.255.255.0
Default gateway	192.168.1.1
port	4001
Default initial switch state	8 channels are all off, preset alarm current 12A, shutdown current 15A

Communication protocol

The GSP48208 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

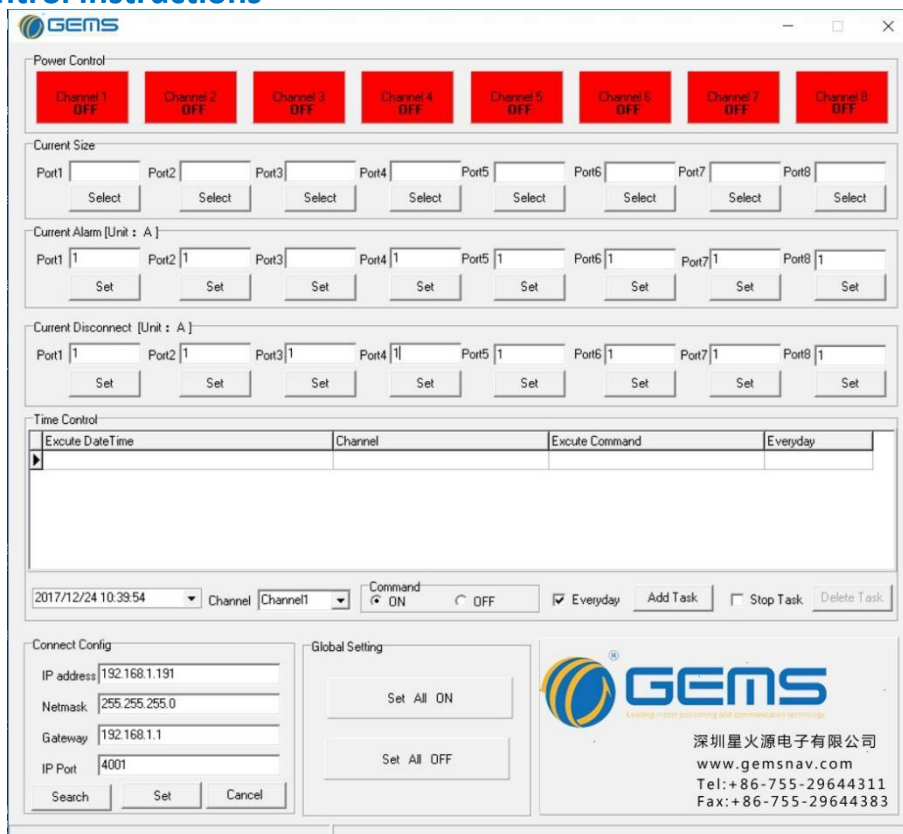
Single path alarm current setting

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 shows the GEMS software control interface. It includes sections for Power Control (8 channels, all OFF), Current Size (8 ports, each with a Select button), Current Alarm (Unit: A) (8 ports, each with a Set button), Current Disconnect (Unit: A) (8 ports, each with a Set button), Time Control (a table for scheduling tasks), Connect Config (IP address, Netmask, Gateway, IP Port), and Global Setting (Set All ON, Set All OFF). The bottom right corner contains the GEMS logo and contact information for Shenzhen Xinghuo Electronics Co., Ltd.

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 192.168.1.178
 Netmask 255.255.255.0
 Gateway 192.168.1.1
 IP Port 4001

Search Set Cancel

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

Time Control

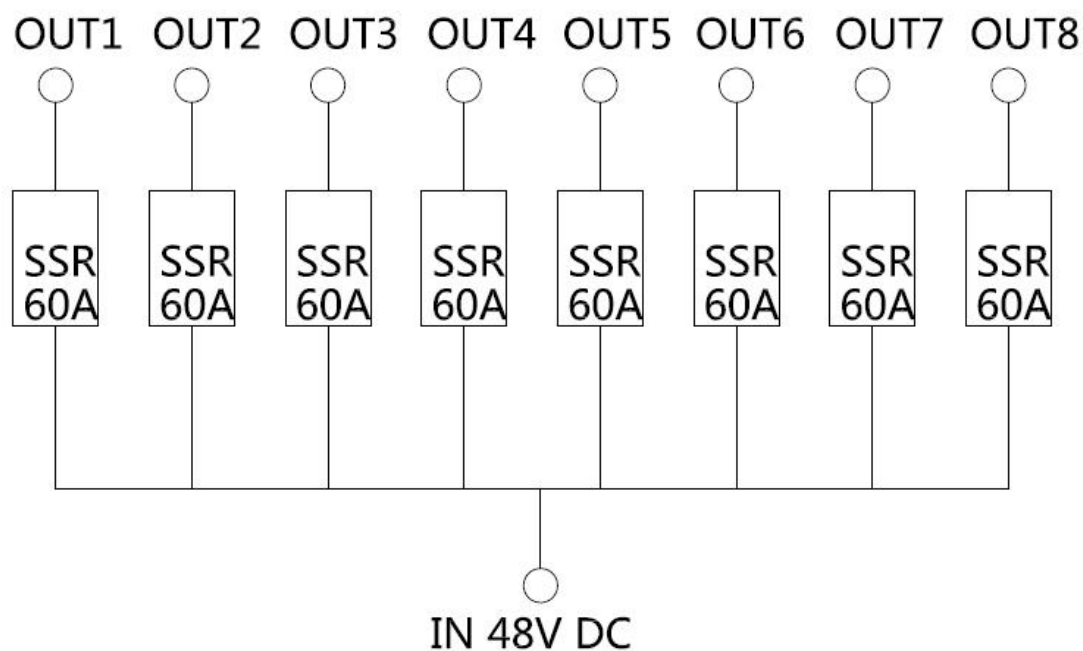
Excute DateTime	Channel	Excute Command	Everyday
<div> 2017/9 /13 09:00:00 Channel Channel1 Command <input checked="" type="radio"/> ON <input type="radio"/> OFF <input type="checkbox"/> Everyday Add Task <input type="checkbox"/> Stop Task Delete Task </div>			

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".

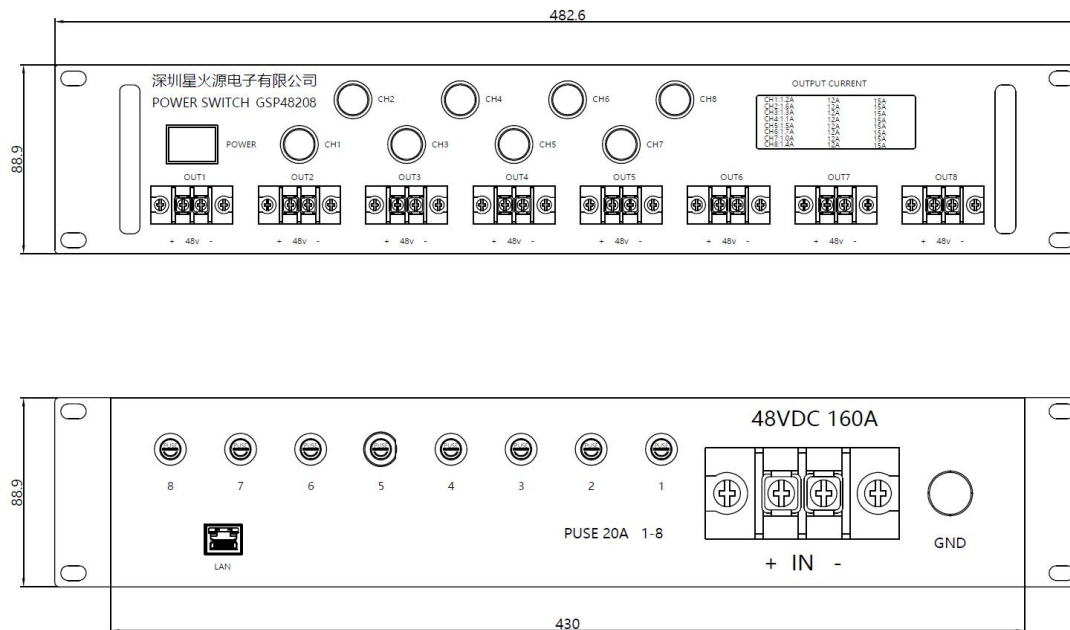
Common problem

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: 6×30MM F20AL250V

Schematic diagram



Mechanical



Application Features

GSP4108 is an 8-way DC output control system widely used in the construction of computer room cabinets. It can remotely control 8 DC 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 power management solutions.