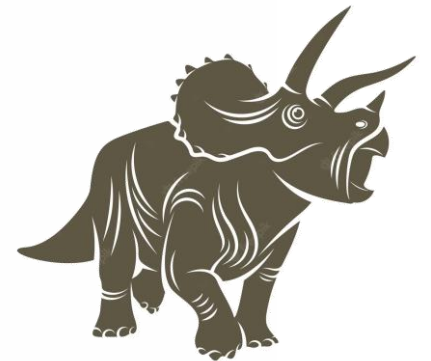


PSW-Multi



Briefing 立案計畫概述

- While facing competitors coveting the PSW market, we launch multi-channel products to differentiate from them. In order to defend against competitors' attacks and allow existing PSW customers to have more choices, hence, PSW-Multi was developed.
- 計畫概述：面對競爭對手覬覦PSW市場並推出多通道產品與之差異化，為防禦競爭對手的攻擊並讓現有PSW客戶具有更多選擇，故而開發Triceratops



PSW



GOAT



360W/720W/1080W Greatest of All Time

Programmable Switching Power Supply

USB Standard	LAN Standard	GPIB Optional
-----------------	-----------------	------------------

Series ∙ Parallel

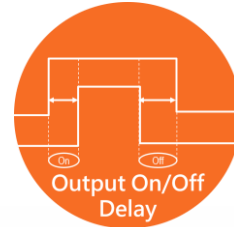
- Series Operation : Two units
 - (30V,40V,80V,160V model only)
- Max. Three units parallel
 - (30V/40V/80V/160V/250V/800V model)



Protection



Analog Control



Output On/Off Delay



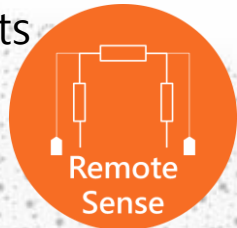
Multi-Range



Priority



Key Lock



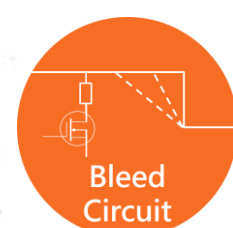
Remote Sense



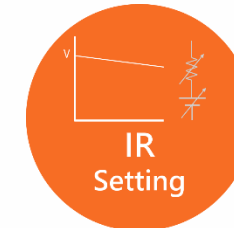
Sequence



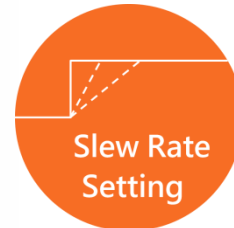
Web Server



Bleed Circuit



IR Setting



Slew Rate Setting

PSW-Multi Code Name : Triceratops



720W/1080W Dual / Triple Channel

Programmable Switching Power Supply

Multi-Channel

Multi-Combination

Advanced Web server

PSW-Multi Code Name : Triceratops



Protection



Analog Control



Output On/Off Delay



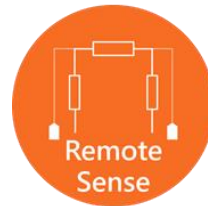
Multi-Range



Priority



Key Lock



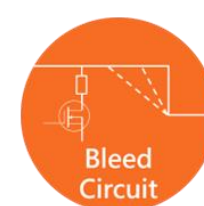
Remote Sense



Sequence



Advanced Web Server



Bleed Circuit



IR Setting



Slew Rate Setting

Multi-Channel
Dual / Triple Channel

Multi-Combination
30V 、 40V 、 80V 、 160V
250V 、 800V

Advanced Web server


- SCPI command
- Web control
- Data Log
- Edit Sequence

For same voltage modules, output latency between channels is less than 0.1ms
PSW-Multi didn't provide series and parallel functions due to multi-combination design.

Created by Stephen Wu

Multi-Channel and Multi-Combination

PSW-  Power Module CH1 CH2

PSW-  Power Module CH1 CH2 CH3

Low and high voltage modules cannot be mixed for model selections

Example

Series		Power	Module	CH1	CH2	CH3
PSW	-	720	L	1	1	
PSW	-	720	H	6	8	
PSW	-	1080	L	1	2	4
PSW	-	1080	H	6	6	6

PSW Multi-channel

Low Voltage Module

1	2	3	4	5
30V	40V	reserve	80V	160V

High Voltage Module

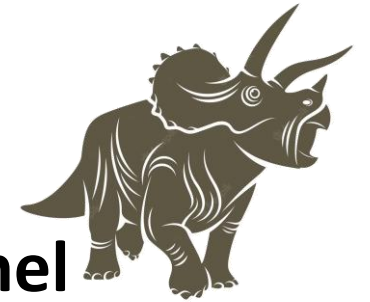
6	7	8	
250V	reserve	800V	

Multi-Channel and Multi-Combination

Dual Channel			
	CH1	CH2	Size
Model	Voltage	Voltage	U
PSW-720L11	30.00	30.00	1/3 Rack 3U
PSW-720L12	30.00	40.00	1/3 Rack 3U
PSW-720L14	30.00	80.00	1/3 Rack 3U
PSW-720L15	30.00	160.0	1/3 Rack 3U
PSW-720L22	40.00	40.00	1/3 Rack 3U
PSW-720L24	40.00	80.00	1/3 Rack 3U
PSW-720L25	40.00	160.0	1/3 Rack 3U
PSW-720L44	80.00	80.00	1/3 Rack 3U
PSW-720L45	80.00	160.0	1/3 Rack 3U
PSW-720L55	160.0	160.0	1/3 Rack 3U
PSW-720H66	250.0	250.0	1/3 Rack 3U
PSW-720H68	250.0	800.0	1/3 Rack 3U
PSW-720H88	800.0	800.0	1/3 Rack 3U

Triple Channel				
	CH1	CH2	CH3	Size
Model	Voltage	Voltage	Voltage	U
PSW-1080L111	30.00	30.00	30.00	½ Rack 3U
PSW-1080L112	30.00	30.00	40.00	½ Rack 3U
PSW-1080L114	30.00	30.00	80.00	½ Rack 3U
PSW-1080L115	30.00	30.00	160.0	½ Rack 3U
PSW-1080L122	30.00	40.00	40.00	½ Rack 3U
PSW-1080L124	30.00	40.00	80.00	½ Rack 3U
PSW-1080L125	30.00	40.00	160.0	½ Rack 3U
PSW-1080L144	30.00	80.00	80.00	½ Rack 3U
PSW-1080L145	30.00	80.00	160.0	½ Rack 3U
PSW-1080L155	30.00	160.0	160.0	½ Rack 3U
PSW-1080L222	40.00	40.00	40.00	½ Rack 3U
PSW-1080L224	40.00	40.00	80.00	½ Rack 3U
PSW-1080L225	40.00	40.00	160.0	½ Rack 3U
PSW-1080L244	40.00	80.00	80.00	½ Rack 3U
PSW-1080L245	40.00	80.00	160.0	½ Rack 3U
PSW-1080L255	40.00	160.0	160.0	½ Rack 3U
PSW-1080L444	80.00	80.00	80.00	½ Rack 3U
PSW-1080L445	80.00	80.00	160.0	½ Rack 3U
PSW-1080L455	80.00	160.0	160.0	½ Rack 3U
PSW-1080L555	160.0	160.0	160.0	½ Rack 3U
PSW-1080H666	250.0	250.0	250.0	½ Rack 3U
PSW-1080H668	250.0	250.0	800.0	½ Rack 3U
PSW-1080H686	250.0	800.0	800.0	½ Rack 3U
PSW-1080H888	800.0	800.0	800.0	½ Rack 3U

PSW-Multi Code Name : Triceratops



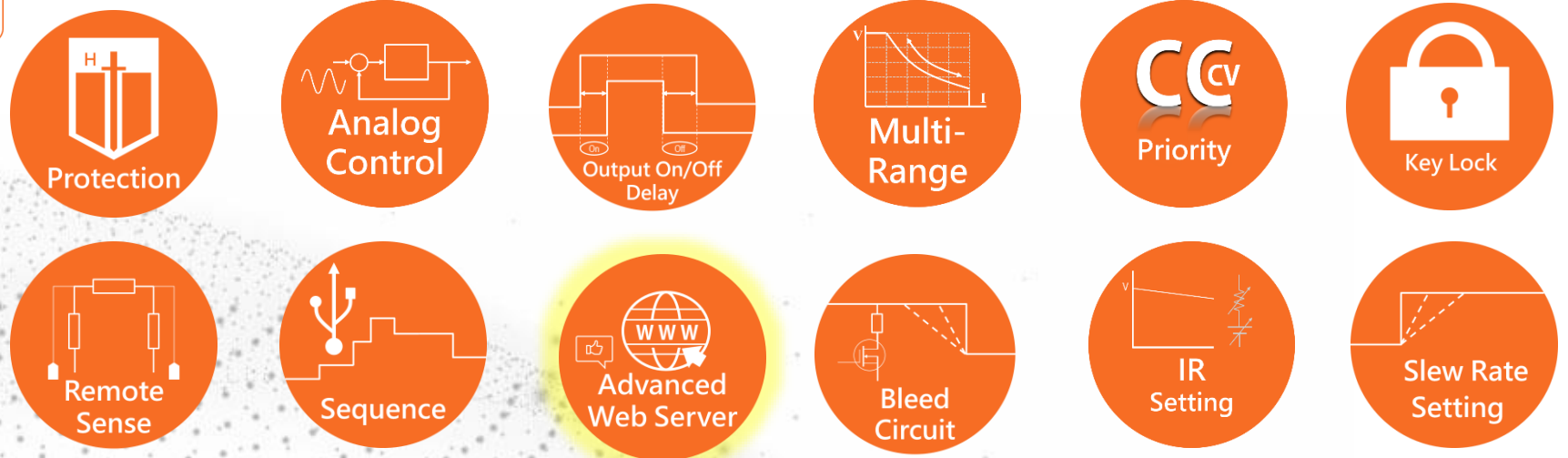
720W/1080W Dual / Triple Channel

Programmable Switching Power Supply



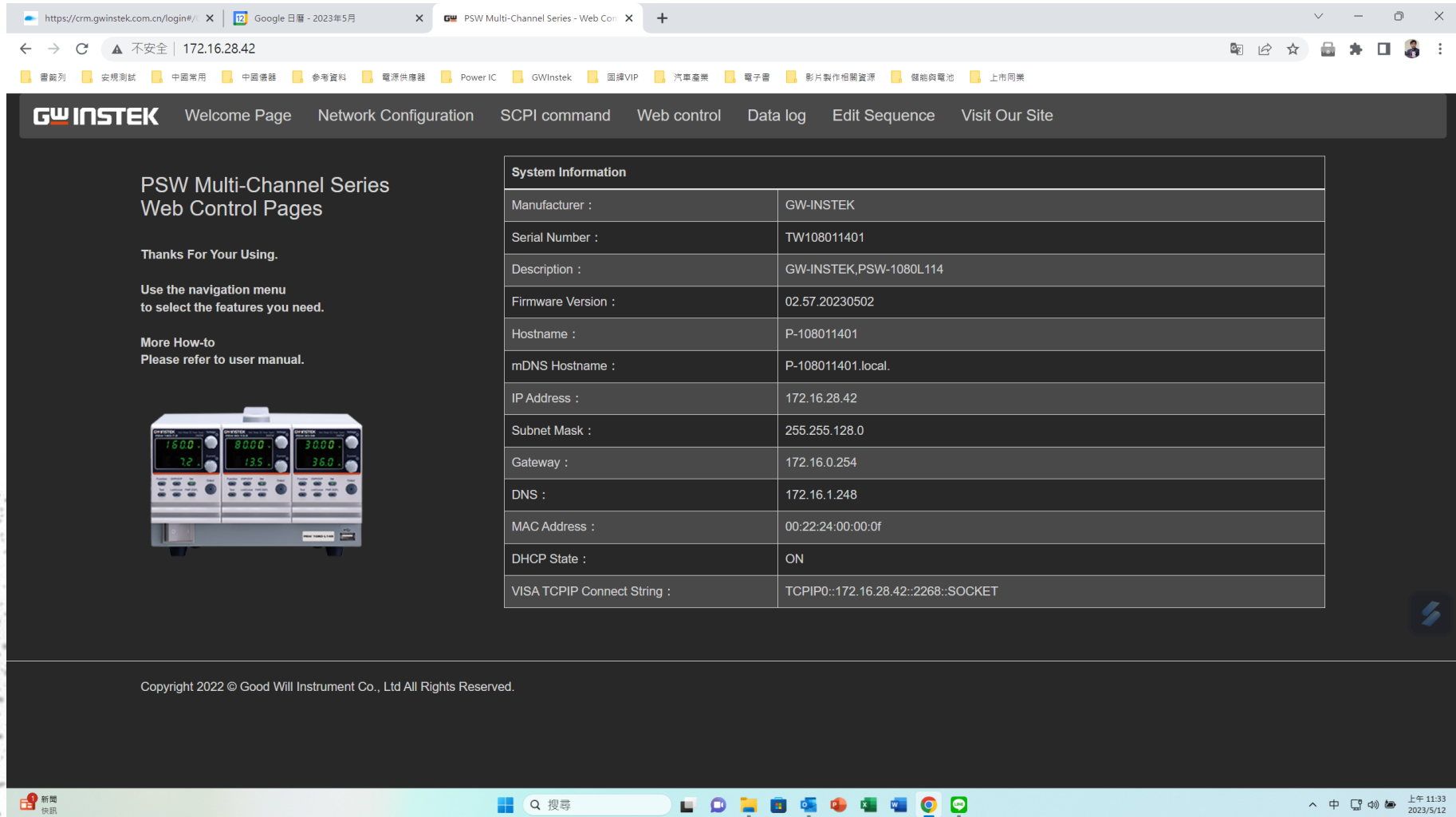
Advanced Web server

- SCPI command
- Web control
- Data Log
- Edit Sequence



Data Log (minimum recoding timing interval is 1 second) · Optional license key could achieve 0.1 second (Data saved to USB)

Advanced Web Server Welcome Page



System Information

Manufacturer :	GW-INSTEK
Serial Number :	TW108011401
Description :	GW-INSTEK,PSW-1080L114
Firmware Version :	02.57.20230502
Hostname :	P-108011401
mDNS Hostname :	P-108011401.local.
IP Address :	172.16.28.42
Subnet Mask :	255.255.128.0
Gateway :	172.16.0.254
DNS :	172.16.1.248
MAC Address :	00:22:24:00:00:0f
DHCP State :	ON
VISA TCPIP Connect String :	TCPIP0::172.16.28.42::2268::SOCKET

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Advanced Web Server Network Configuration

A screenshot of a web browser displaying the GW INSTEK network configuration page. The browser address bar shows 'https://crm.gwinstek.com.cn/login/#/'. The page has a dark theme and a navigation menu with options like 'Welcome Page', 'Network Configuration', 'SCPI command', 'Web control', 'Data log', 'Edit Sequence', and 'Visit Our Site'. The 'Network Configuration' section contains a table with the following fields:

Network Configuration	
IP Address :	172.16.28.42
Subnet Mask :	255.255.128.0
Gateway :	172.16.0.254
DNS :	172.16.1.248
DHCP State :	<input checked="" type="radio"/> ON <input type="radio"/> OFF

Below the table is a 'Password :' field with a masked input and a green 'Submit' button. The footer of the page reads 'Copyright 2022 © Good Will Instrument Co., Ltd All Rights Reserved.' The Windows taskbar at the bottom shows the time as 11:33 on 2023/5/12.

Advanced Web Server SCPI Command



A screenshot of a web browser displaying the GW INSTEK Advanced Web Server interface. The browser address bar shows 'https://crm.gwinstek.com.cn/login/#/'. The page has a dark theme with a navigation menu at the top containing 'Welcome Page', 'Network Configuration', 'SCPI command', 'Web control', 'Data log', 'Edit Sequence', and 'Visit Our Site'. The main content area displays the text 'Here is a simple way to use SCPI command'. Below this, there is a form with the label 'Enter the command : *IDN?' and a text input field containing '*IDN?'. To the right of the input field are two buttons: 'Write' and 'Query'. Below the input field, a white box displays the output of the command: 'GW-INSTEK,PSW-1080L114,TW108011401,02.57.20230502'. At the bottom of the page, there is a copyright notice: 'Copyright 2022 © Good Will Instrument Co., Ltd All Rights Reserved.' The browser's taskbar at the bottom shows the system tray with a temperature of 29°C, a search bar, and various application icons.

Advanced Web Server Web Control



The screenshot shows a web browser window displaying the GW Instek Web Control interface. The browser address bar shows the URL <https://crm.gwinstek.com.cn/login/> and the IP address 172.16.28.42. The interface includes a navigation menu with options like 'Welcome Page', 'Network Configuration', 'SCPI command', 'Web control', 'Data log', 'Edit Sequence', and 'Visit Our Site'. The main display area shows three channels (CH3, CH2, CH1) with their respective output values and status indicators. The CH1 channel is highlighted with a yellow border. Below the channel displays are control buttons for 'ON', 'OFF', and 'ALM CLR'. At the bottom of the interface, there is a red 'ERROR' indicator and a copyright notice: 'Copyright 2022 © Good Will Instrument Co., Ltd All Rights Reserved.' The Windows taskbar at the bottom shows the system tray with the date and time: '上午 11:34 2023/5/12'.

Channel	Output (V)	Output (A)	Status
CH3	+4.996 _V	+0.000 _A	OUTPUT, NO ALM, RUN
CH2	+4.998 _V	+0.000 _A	OUTPUT, NO ALM, RUN
CH1	+4.994 _V	+0.000 _A	OUTPUT, NO ALM, RUN

Created by Stephen Wu

Advanced Web Server Data Log



The screenshot shows the GW INSTEK web interface for a PSW Multi-Channel Series. The 'Data log' tab is active, displaying two channels: CH3 and CH2. Both channels have a sample period of 1 second and a maximum number of 100. The data is presented in two tables, one for each channel, with columns for No., Voltage, Current, OPER. Status, QUES. Status, and Time.

No.	Voltage	Current	OPER. Status	QUES. Status	Time
1	+4.996	+0.000	+280	+0	05/12 11:35:35.7
2	+4.997	+0.000	+280	+0	05/12 11:35:36.8
3	+4.997	+0.000	+280	+0	05/12 11:35:37.9
4	+4.997	+0.000	+280	+0	05/12 11:35:38.9
5	+4.997	+0.000	+280	+0	05/12 11:35:40.0
6	+4.997	+0.000	+280	+0	05/12 11:35:41.1
7	+4.997	+0.000	+280	+0	05/12 11:35:42.2
8	+4.996	+0.000	+280	+0	05/12 11:35:43.3
9	+4.997	+0.000	+280	+0	05/12 11:35:44.3
10	+4.997	+0.000	+280	+0	05/12 11:35:45.4
11	+4.996	+0.000	+280	+0	05/12 11:35:46.5
12	+4.997	+0.000	+280	+0	05/12 11:35:47.6
13	+4.997	+0.000	+280	+0	05/12 11:35:48.6

No.	Voltage	Current	OPER. Status	QUES. Status	Time
1	+4.997	+0.000	+280	+0	05/12 11:35:22.8
2	+4.997	+0.000	+280	+0	05/12 11:35:23.9
3	+4.997	+0.000	+280	+0	05/12 11:35:24.9
4	+4.997	+0.000	+280	+0	05/12 11:35:26.0
5	+4.998	+0.000	+280	+0	05/12 11:35:27.0
6	+4.997	+0.000	+280	+0	05/12 11:35:28.1
7	+4.997	+0.000	+280	+0	05/12 11:35:29.1
8	+4.998	+0.000	+280	+0	05/12 11:35:30.2
9	+4.997	+0.000	+280	+0	05/12 11:35:31.2
10	+4.997	+0.000	+280	+0	05/12 11:35:32.3
11	+4.998	+0.000	+280	+0	05/12 11:35:33.3
12	+4.997	+0.000	+280	+0	05/12 11:35:34.4
13	+4.997	+0.000	+280	+0	05/12 11:35:35.7
14	+4.998	+0.000	+280	+0	05/12 11:35:36.8
15	+4.997	+0.000	+280	+0	05/12 11:35:37.9
16	+4.997	+0.000	+280	+0	05/12 11:35:38.9
17	+4.997	+0.000	+280	+0	05/12 11:35:40.0
18	+4.997	+0.000	+280	+0	05/12 11:35:41.1
19	+4.997	+0.000	+280	+0	05/12 11:35:42.2
20	+4.997	+0.000	+280	+0	05/12 11:35:43.3
21	+4.997	+0.000	+280	+0	05/12 11:35:44.3
22	+4.997	+0.000	+280	+0	05/12 11:35:45.4
23	+4.997	+0.000	+280	+0	05/12 11:35:46.5
24	+4.997	+0.000	+280	+0	05/12 11:35:47.6
25	+4.997	+0.000	+280	+0	05/12 11:35:48.6

Data Log (minimum recoding timing interval is 1 second)
Optional license key could achieve 0.1 second (Data saved to USB)

Created by Stephen Wu

Advanced Web Server Edit Sequence



Browser tabs: <https://crm.gwinstek.com.cn/login/>, Google 日曆 - 2023年5月, PSW Multi-Channel Series - Web Control

Address bar: 不安全 | 172.16.28.42

Navigation menu: 目錄, 安裝測試, 中國常用, 中國儀器, 參考資料, 電源供應商, Power IC, GWInstek, 國牌VIP, 汽車產業, 電子書, 影片製作相關資源, 儲能與電池, 上市同業

Page Header: **GW INSTEK** | Welcome Page | Network Configuration | SCPI command | Web control | Data log | **Edit Sequence** | Visit Our Site

Form fields: | Upload | Export CSV | Import CSV

Buttons: Add Row | Del Row | Cycle Number: | Step Start: | Step End:

Description:

Step	Point	Output	Time(sec)	Voltage (V)	Current (A)	OVP(V)	OCP(A)	Bleeder	IV Mode	Vsr up(V/s)	Vsr down(V/s)	Isr up(A/s)	Isr down(A/s)	IR(ohm)	Beeper	Sense Average	Jump to
1		ON	1	MIN	MIN	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	MIN	OFF	LOW	
2		ON	1	MIN	MIN	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	MIN	OFF	LOW	
3		ON	1	MIN	MIN	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	MIN	OFF	LOW	
4		ON	1	MIN	MIN	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	MIN	OFF	LOW	
5		ON	1	MIN	MIN	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	MIN	OFF	LOW	
6		ON	1	MIN	MIN	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	MIN	OFF	LOW	

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System tray: 29°C 多雲時陣 | 搜尋 | 上午 11:36 2023/5/12

Advanced Web Server Edit Sequence



The screenshot shows the GW Instek Advanced Web Server interface. The browser address bar displays 'https://crm.gwinstek.com.cn/login/#/'. The page title is 'PSW Multi-Channel Series - Web Control'. The navigation menu includes: Welcome Page, Network Configuration, SCPI command, Web control, Data log, Edit Sequence, and Visit Our Site. The 'Edit Sequence' page features a dropdown menu with items t001 through t010, 'Upload', 'Export CSV', and 'Import CSV' buttons. Below these are input fields for 'Cycle Number: 2', 'Step Start:', and 'Step End:'. A table displays test sequence parameters for steps t001 to t010.

	Output	Time(sec)	Voltage (V)	Current (A)	OVP(V)	OCP(A)	Bleeder	IV Mode	Vsr up(V/s)	Vsr down(V/s)	Isr up(A/s)	Isr down(A/s)	IR(ohm)	Beeper	Sense Average	Jump to
t001	ON	1	MIN	MIN	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	MIN	OFF	LOW	
t002	ON	1	MIN	MIN	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	MIN	OFF	LOW	
t003	ON	1	MIN	MIN	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	MIN	OFF	LOW	
t004	ON	1	MIN	MIN	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	MIN	OFF	LOW	
t005	ON	1	MIN	MIN	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	MIN	OFF	LOW	
t006	ON	1	MIN	MIN	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	MIN	OFF	LOW	
t007	ON	1	MIN	MIN	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	MIN	OFF	LOW	
t008	ON	1	MIN	MIN	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	MIN	OFF	LOW	
t009	ON	1	MIN	MIN	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	MIN	OFF	LOW	
t010	ON	1	MIN	MIN	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	MIN	OFF	LOW	

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Standard Accessories

Low Voltage Module 30/ 40/ 80/160V Accessories		High Voltage Module 250/800V Accessories	
Part number	Description	Part number	Description
	User manual , programming manual Please download from below hyperlink:		User manual , programming manual Please download from below hyperlink:
	Power cord Output terminal cover		Power cord Output terminal cover
GTL-123	Test leads: 1x red, 1x black		Without Test Leads (Please select Option GTL-130)
GTL-240	USB Cable	GTL-240	USB Cable
PSW-004	Basic Accessory Kit: <ul style="list-style-type: none"> • M4 terminal screws and washers x2 • M8 terminal bolts, nuts and washers x2 • Air filter x1 • Analog control protection dummy x1 • Analog control lock level x1 	PSW-008	Basic Accessory Kit: <ul style="list-style-type: none"> • High voltage output terminal • Air filter x1 • Analog control protection dummy x1 • Analog control lock level x1

Specific Optional Accessories

Low Voltage Module 30/ 40/ 80/160V Specific Optional Accessories		High Voltage Module 250/800V Specific Optional Accessories	
Part number	Description	Part number	Description
GET-001	Extended terminal with max. 30A	GET-002	Extended terminal with max. 10A
GET-005	Extended European terminal with max. 20A	GTL-130	Test leads: 2x red , 2x black

Common Optional Accessories

Part number	Description
PSW-001	Accessory Kit: Pin contact x10, Socket x1, Protection cover x1
PSW-002	Simple IDC Tool
PSW-003	Contact Removal Tool
GRA-410-J	Rackmount adapter (JIS)
GRA-410-E	Rack mount adapter (EIA)
GUG-001	GPIB to USB adapter
GTL-240	USB Cable
GUR-001A	RS-232 to USB adapter with M3 rivet nut
GUR-001B	RS-232 to USB adapter with #4-40UNC rivet nut

Marketing Material

Second to None
Dominating Mid/Low Power Ranges



Multi-Channel
 Multi-Combination
 Advanced Web Server



Second to None
Dominating Mid/Low Power Ranges



Multi-Channel
 Multi-Combination
 Advanced Web Server



Second to None
Dominating Mid/Low Power Ranges



Multi-Channel
 Multi-Combination
 Advanced Web Server



PSW Multi-Channel DC Power Supply



- | | | |
|---|---|--|
| Multi-Channel
Two or three channels
Latency does not exceed 0.1ms between channels | Multiple Combinations
30V、40V、80V
160V、250V、800V | Advanced Web Server
• SCPI command • Data Log
• Web control • Edit Sequence |
|---|---|--|

GW INSTEK
Simply Reliable

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No.7-1, Jhonggang Road, Tucheng Dist., New Taipei City 236, Taiwan
T +886-2-2268-0389 F +886-2-2268-0639



PSW Multi-Channel DC Power Supply



- | | | |
|---|---|--|
| Multi-Channel
Two or three channels
Latency does not exceed 0.1ms between channels | Multiple Combinations
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|---|---|--|

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Created by Stephen Wu

GW INSTEK

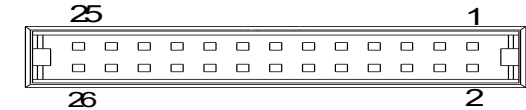
Differences in commands 指令差異

PSW stand-alone command 單機命令	PSW Multi-channel command (command for CH1) 多通道命令(對CH1下命令)	PSW Multi-channel command (command for CH1, CH3) 多通道命令(對CH1,CH3下命令)	PSW Multi-channel command (command for CH1~CH3) 多通道命令(對CH1~CH3下命令)
VOLT 10	VOLT 10,(@1)	VOLT 10,(@1,3)	VOLT 10,(@1:3)
CURR 1.5	CURR 1.5,(@1)	CURR 1.5,(@1,3)	CURR 1.5,(@1:3)
OUTP ON	OUTP ON,(@1)	OUTP ON,(@1,3)	OUTP ON,(@1:3)

Differences in External Analog Control Pins assignment

類比接頭差異

Pin name	Pin number	PSW-MC	PSW
Current Share	1	N/A	V
D COM	2	V	V
CURRENT SUM OUT	3	N/A	V
EXT-V CV CONT	4	V	V
EXT-V CC CONT	5	V	V
EXT-R CV CONT PIN1	6	V	V
EXT-R CV CONT PIN2	7	V	V
EXT-R CC CONT PIN1	8	V	V
EXT-R CC CONT PIN2	9	V	V
V MON	10	V	V
I MON	11	V	V
SHUTDOWN	12	V	V
CURRENT_SUM_1	13	N/A	V
CURRENT_SUM_2	14	N/A	V
FEEDBACK	15	N/A	V
A COM	16	V	V
STATUS COM	17	V	V
CV STATUS	18	V	V
CC STATUS	19	V	V
ALM STATUS	20	V	V
OUTPUT ON STATUS	21	V	V
POWER OFF STATUS	22	V	V
N.C.	23	V	V
OUT ON/OFF CONT	24	V	V
SER SLV IN	25	N/A	V
N.C.	26	V	V



Differences in Function key 功能設定

[KEY] Function	PSW-MC			PSW
Normal Function Setting	CH3(Left)	CH2	CH1(Right)	
F-01 (Output ON delay time)	具備 (Available)	具備 (Available)	具備 (Available)	具備 (Available)
F-02 (Output OFF delay time)	具備 (Available)	具備 (Available)	具備 (Available)	具備 (Available)
F-03 (V-I mode slew rate select)	具備 (Available)	具備 (Available)	具備 (Available)	具備 (Available)
F-04 (Rising voltage slew rate)	具備 (Available)	具備 (Available)	具備 (Available)	具備 (Available)
F-05 (Falling voltage slew rate)	具備 (Available)	具備 (Available)	具備 (Available)	具備 (Available)
F-06 (Rising current slew rate)	具備 (Available)	具備 (Available)	具備 (Available)	具備 (Available)
F-07 (Falling current slew rate)	具備 (Available)	具備 (Available)	具備 (Available)	具備 (Available)
F-08 (Internal resistance setting)	具備 (Available)	具備 (Available)	具備 (Available)	具備 (Available)
F-09 (Bleeder circuit control)	具備 (Available)	具備 (Available)	具備 (Available)	具備 (Available)
F-10 (Buzzer ON/OFF control)	N/A	N/A	具備 (Available)	具備 (Available)
F-17 (Measurement Average Setting)	具備 (Available)	具備 (Available)	具備 (Available)	具備 (Available)
F-19 (Lock Mode)	具備 (Available)	具備 (Available)	具備 (Available)	具備 (Available)

Differences in Function key 功能設定

[KEY] Function	PSW-MC			PSW
USB/GPIB Setting	CH3(Left)	CH2	CH1(Right)	
F-20 (Front Panel USB state)	N/A	N/A	具備 (Available)	具備 (Available)
F-21 (Rear Panel USB state)	N/A	N/A	具備 (Available)	具備 (Available)
F-22 (Rear Panel USB mode)	N/A	N/A	具備 (Available)	具備 (Available)
F-23 (GPIB Address)	N/A	N/A	具備 (Available)	具備 (Available)
LAN Setting				
F-30~F-35 (MAC Address)	N/A	N/A	具備 (Available)	具備 (Available)
F-36 (LAN)	N/A	N/A	具備 (Available)	具備 (Available)
F-37 (DHCP)	N/A	N/A	具備 (Available)	具備 (Available)
F-39~F-42 (IP Address)	N/A	N/A	具備 (Available)	具備 (Available)
F-43~F-46 (Subnet Mask)	N/A	N/A	具備 (Available)	具備 (Available)
F-47~F-50 (Gateway)	N/A	N/A	具備 (Available)	具備 (Available)
F-51~F-54 (DNS Address)	N/A	N/A	具備 (Available)	具備 (Available)
F-57 (Socket active)	N/A	N/A	具備 (Available)	具備 (Available)
F-59 (Web server active)	N/A	N/A	具備 (Available)	具備 (Available)
F-60 (Web password active)	N/A	N/A	具備 (Available)	具備 (Available)
F-61 (Web setting password)	N/A	N/A	具備 (Available)	具備 (Available)

Differences in Function key 功能設定

[KEY] Function	PSW-MC			PSW
UART Setting	CH3(Left)	CH2	CH1(Right)	
F-71 (UART Baud Rate)	N/A	N/A	具備 (Available)	具備 (Available)
F-72 (UART Data Bits)	N/A	N/A	具備 (Available)	具備 (Available)
F-73 (UART Parity)	N/A	N/A	具備 (Available)	具備 (Available)
F-74 (UART Stop Bit)	N/A	N/A	具備 (Available)	具備 (Available)
System Setting				
F-88 (Factory Set Value)	具備 (Available)	具備 (Available)	具備 (Available)	具備 (Available)
F-89 (Show version)	具備	具備 (Available)	具備 (Available)	具備 (Available)
Power On Configuration Setting				
F-90 (CV Control)	具備 (Available)	具備 (Available)	具備 (Available)	具備 (Available)
F-91 (CC Control)	具備 (Available)	具備 (Available)	具備 (Available)	具備 (Available)
F-92 (Power On Output)	具備 (Available)	具備 (Available)	具備 (Available)	具備 (Available)
F-93 (Master/Slave)	N/A	N/A	N/A	具備 (Available)
F-94 (External Out Logic)	具備 (Available)	具備 (Available)	具備 (Available)	具備 (Available)
F-95 (Power Switch Trip)	N/A	N/A	具備 (Available)	具備 (Available)

Differences in Function key 功能設定

[KEY] Function	PSW-MC			PSW
Multi Channel Function	CH3(Left)	CH2	CH1(Right)	
F-130 (Output On/Off Synchronize)	具備 (Available)	具備 (Available)	具備 (Available)	N/A
F-132 (Lock/Local Synchronize)	N/A	N/A	具備 (Available)	N/A