DP-2401 24 CH DMX SWITCH PACK [USER MANUAL]



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Index

Chapter 1	Introduction	
1-1	DP-2401 features	2
1-2	DP-2401 Specifications	2
1-3	Front Panel Introduction	3
Chapter 2	DP-2401 Function Setting	
2-1	Initialization	4
2-2	DMX Addressing Setting	5
2-3	ID No. Setting	5
2-4	DMX input signal acceptance setting	6
2-5	Zone setting	7
2-6	Scenes Setting	8
2-7	Action delay protection setting	9
2-8	Preheat Setting for Protecting Loads	10
Chapter 3	Introduction	
3-1	DMX Control	11
3-2	Scene Control	11
3-3	Manual Control	12

3-4 DP-2401 24 Channel LED Display -----12

Chapter 1 Introduction

1-1 DP-2401 features

- Control 24 channels.
- Able to set buffer time between actions of different channels (0 Sec - 4 Minutes).
- Action delay protection function. (0 Sec. 30 minutes)
- Manual on/off control, DMX control and scenes control.
- Status indicator LED for each channel. (Different color under different status)
- Being attached with the signal input, the machine can control the channels through the standard DMX signal.
- Every channel has 3 points in terminal port, including NC (Normal close), C(Common) and NO(Normal open) dry contacts. The current through each contact can't exceed 10A.
- Accept EDX signal and connectable to ECP control panel.

1-2 DP-2401 Specifications

- AC Input : 100~240V
- DMX Signal/Output : DMX512 , EDX SYSTEM
- DMX Output Channel : 512 CHANNEL
- DMX signal Connector : 4-PIN CONNECTOR
- Dimension : 442x 162x 44
- Weight: 2.5KG

1-3 Front Panel Introduction

Front Panel:



1	LED Display
2	Load CH Manual Switch
3	Function Key:
	FNC : Function / Enter
	Up, Down : Sub-Function Key
	Left, Right : Sub-Function Key
	1, 2, 3, 4, 5, 6, 7, 8, off : Presetting Scenes Hot Key
4	LCD Display
5	Power Switch

Real Panel:



AC Input



Chapter 2 DP-2401 Function Setting

2-1 Initialization

STEP1 Press [FNC], LCD display :

► F1: HOME F2: DMX ADDRESS

STEP2 Press **[DOWN]** till display :

F9: OFF DELAYF10: SHIP INIT

STEP3 Press **[FNC]** till display :

Ship Initial YES (), NO (∽)

STEP4 Press [LEFT] mark on YES, and then press [FNC] confirm, LCD

display:

Ship Initial Please wait

And then display :

SC: OFF	WT: 0S
PRT: 0S	END:



2-2 DMX Addressing Setting

STEP1 Press **[FNC]**, LCD display :

► F1: HOME F2: DMX ADDRESS

STEP-2 Press [DOWN] till F2 , and then press [FNC] , LCD display : **DMX START CH** = 001 CH

STEP-3 Press [UP] , [DOWN] to change DMX address :

DMX START CH CH = 015

STEP-4 Press **[FNC]** save setting , go back to "Home" display:

2-3 ID No. Setting

STEP1 Press **[FNC]**, LCD display :

F1: HOME F2: DMX ADDRESS

STEP2 Press [DOWN], LCD display :

F2: DMX ADDRESS F3: ID SET

STEP-3 Press **[FNC]** enter ID setting , LCD display:

ID NUM = 001



STEP-4 Press **[UP]**, **[DOWN]** change DMX address :

ID NUM=015

STEP-5 Press **[FNC]** save setting , go back to "Home" display

2-4 DMX input signal acceptance setting

STEP1 Press **[FNC]**, LCD display :

► F1: HOME F2: DMX ADDRESS

STEP2 Press 【DOWN】, LCD display:

F3: ID SET F4:DMX BYPASS

STEP-3 Press **[FNC]** enter DMX BYPASS setting function , LCD display:

DMX BYPASS SUT ON OFF

ON means system doesn't accept DMX signal. OFF means system accept DMX signal.

STEP4 Press [LEFT], [RIGHT] choose "ON" or "OFF" press [FNC] to

confirm , go back to "Home" display



2-5 Zone setting

STEP1 press 【FNC】, LCD display:

F1: HOME F2: DMX ADDRESS

STEP2 Press 【DOWN】, LCD display :

F4:DMX BYPASS F5:PER CH ZONE

STEP-3 Press **[FNC]** enter PER CH ZONE setting , LCD disply:



STEP-4 CH01 on LCD as the graph show. Press **[UP]**, **[DOWN]** choose channel.

STEP-5 Press **[RIGHT]** go back to choose its zone.

STEP-6 Press [UP] or [DOWN] change zone.

STEP-7 Press [RIGHT] go back choose this channel is which channel in this

zone

STEP-8 Press [RIGHT] go back to choose channel.

STEP-9 Repeat STEP2, 3, 4, 5,6,7,8 to set all channel. Press **[FNC]** save setting, go back to "Home" display



2-6 Scenes Setting

STEP1 Press 【FNC】, LCD display:

F1: HOME F2: DMX ADDRESS

STEP2 Press 【DOWN】, LCD display :

F5:PER CH ZONE F6:SCENE SET

STEP-3 Press **[FNC]** into Scenes No. choosing , LCD display:

Sc Setting 001 KEYIN 1...100

STEP-4 Press **(UP)**, **(DOWN)** choose scene No. need to setting, and press **(FNC)** into scene setting, LCD display :

 EDIT SCENE
 02

 CH01 -----> off
 ----->

STEP-5 Press [LEFT], [RIGHT] to change channel, press [UP],[DOWN] chose on or off for this channel. For example :

EDIT SCENE 02 CH01 -----> on

It means the channel 2 in scene 2 is set as on.

STEP-6 After setting press 【FNC】, LCD display:

SAVE SC OR QUIT? SAVE (>>) , QUIT()

STEP-7 Press again **[FNC]** save setting, go back to "Home" display

2-7 Action delay protection setting

When DP-2401 with the huge power output, and switch on in the same time. That will cause the power system drop the voltage. DP-2401 can set up the delay time

STEP1 Press 【FNC】, LCD display:

► F1: HOME F2: DMX ADDRESS

STEP-2 Press 【DOWN】 till display :

▶ F6: SCENE SET F7: OPEN DELAY

STEP-3 Press **[FNC]** into action delay time setting, LCD display :

OPEN TACTIC SET Time = 0S

STEP-4 Press [UP], [DOWN] could change the time, LCD display :

OPEN TACTIC SET Time = 4S

(setting time 0s----4min)

STEP-5 Press **[FNC]** save setting, go back to "Home" display

STEP-6 If have the Scenes change(or using DMX input control), output will follow the setting time.

Seting EX:

Sc1: CH01=100, CH02=100, CH03=100 CH24=100

OPEN TACTIC = 5sec

Press SC1 to recall scene 1, you will find CH01 switch on, LCD display

SC: 01	WT: 5S
PRT: 0S	NEXT:

(WT:5s delay time between channels is 5s)

When "NEXT" flash, after 5 sec, the CH02 on. And after 5 sec, then the CH03 on....., Till all the CH24 been switch on. Then "NEXT" will dispapper, and showing "END", it means no one of the channel on the waiting line

2-8 Preheat Setting for Protecting Loads

Some particular loads using the DP-2401 (**High-intensity discharge lamps**), those kind of the load between off and on has be cool down the temperatures, otherwise this kind of the loads will be damage. The DP-2401 has the additional function for protecting loads. When the loads switch off and on again will automatic wait for the setting delay time.

STEP-1 Press **[FNC]**, LCD display :

F1: HOME F2: DMX ADDRESS

STEP-2 Press **[DOWN]** till display:

F7:OPEN	DELAY
► F8:SELF	PROTE.

STEP-3 Press **[FNC]** enter preheat setting for loads protection, LCD display :

SELF PROTECT SET Time =0S

STEP-4 Press 【UP】, 【DOWN】 to change preheat time, LCD display:

SELF PROTECT SET Time =27S

(preheat time: 0s----30min)

STEP-5 Press **[FNC]** save setting , go back to "Home" display

STEP-6 when using the scence (or using the DMX control), one of the channel switch "off" and "on" again can setting the delay time.

Ex. Setting:

Sc1: CH01=100,CH02=100,CH03=100 CH24=100 SELF PROTECT = 27sec Press SC1 , Using Scenes 1, and Press "OFF" , Close all the CH. And Press SC1 again, you will find the Scene 1 did not call out , The LCD display:

SC: 01	WT: 0S
PRT: 27S	NEXT:

(PRT: 27s preheat time is 27s)

The "NEXT" Flash (some CH. waiting for switch on). After 27 Sec. the SC01 will be call out (Switch on each CH.), The flash "NEXT" on the LCD will be gone and Showing "END", its mean no one of the channel on the waiting line.

Chapter 3 DP2401 Operation

3-1 DMX Control

STEP-1 When DMX signal input, DP-2401 will automatically become DMX dimming pack, LCD display,

DMX:002	WT: 0S
PRT: 27S	END:

LCD first line shows "DMX; 001" it means DMX control and start channel is 002.

Ex, DMX input signal is,

DP-2401 each channel status are:

CH01->DMX002 =0N, CH02->DMX003=OFF, CH03->DMX004=ON, CH04->DMX005=OFF, CH05----CH24=OFF

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CH01->DMX002=ON meams DP-2401's first channel is correspond with DMX 002 signal from DMX controller, and DMX002 date is 100%, so DP-2401's first channel output is "ON".
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Attention:

 DMX dimming value > 50% DP-2401 setting is ON DMX dimming value < 20% DP-2401 setting is OFF 50% > DMX dimming value> 20% maintain previous mode.

2. When DP-2401 using DMX signal control, the Scenes function will automatically closed.

3-2 Scene Control

STEP-1 No DMX signal input, DP-2401 works in scenes control function,

LCD display :

SC: 01	WT: 0S
PRT: 27S	NEXT:

STEP-2 Press [SC1], [SC2], [SC3] ... [SC8], [OFF] recall scene.



Press OFF, LCD display :

SC:OFF	WT: 0S
PRT: 27S	END:

3-3 Manual Control

STEP-1 For the easy and fast control, DP-2401 provides easy manual control.

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0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	121	111	111	-	110	171	100	121	171	191	1.401	11	1.11	1	171	1.41	111		121	100	1	1911	111
B	- 1				-				-		-	-			日,		-	-	-		-		
-	-	4	5	-	-	2	-	1	-		-	4	-	-	-	-		-	-	-	5	-	

STEP-2 The manual control switch set on top is ON, on the bottom is OFF, on the middle is AUTO.

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3-4 DP-2401 24 Channel LED Display

The DP-2401 one of the CH is "OFF", manual control switch "ON" -----> RED The DP-2401 one of the CH is "OFF", manual control switch "OFF" -----> N/A The DP-2401 one of the CH is "OFF", manual control switch "AUTO" ----> N/A The DP-2401 one of the CH is "ON", manual control switch "ON" ----> Orange The DP-2401 one of the CH is "ON", manual control switch "OFF" ----> Green The DP-2401 one of the CH is "ON", manual control switch "AUTO" ---> Orange