

DS804A

Lighting Control System

4 CH. FLUORESCENT LAMP DIMMING PACK

【USER MANUAL】



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1 DS804A DIMMING PACK LAYOUT

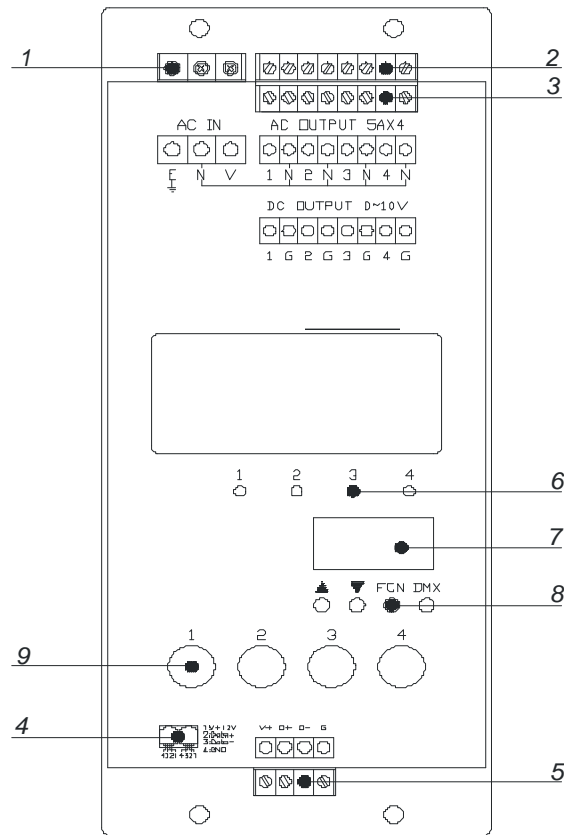
1.1 MAIN FEATURES

- It is allowed 4 channels output. Each channel includes one AC OUT power supply for fluorescent lamp and one DC 0-10V for fluorescent lamp dimming . It is available for normal lamps .
- It is able to be controlled using DMX512 serial signal .
- It is allowed to preset the OFF time of AC OUT power , 1 second ~ 99 seconds .
- It is able to preset the time of fade- in and fade-out scene by scene , 1 second ~ 99 seconds .
- It is able to install 99 sets of scene zone linking at most .

1.2 DS804A Technical Specifications

- Power Supply: 1Φ2W, 110V / 220V switch ,
5A per channel max. / room temperature.
- DMX signal inputs: DMX512 / 1990, RS-485
- DMX signal outputs channel: 4 channels
- DMX signal connector: 6P 6C PHONEJACK * 2
4-PIN PLUGGABLE TERMINAL BLOCKS
- Dimension : 100(W) x 240(H) x 57(D) mm
- Weight : 1.3 kg

1.3 EDX-F04 Faceplate manual



| | |
|---|--|
| 1 | AC power input terminal board |
| 2 | AC power output terminal board |
| 3 | DC power output terminal board |
| 4 | Connector for controller input signal |
| 5 | Terminal board for controller input signal |
| 6 | 1-4 channel indicating |
| 7 | LED display |
| 8 | Function buttons 【▲】【▼】【FCN】【DMX】 |
| 9 | Instant output buttons 【1】【2】【3】【4】 |

2. DS804A Operating manual

2.1 Reset

STEP-1 : Press and hold down the buttons **【▲】** and **【▼】** and turn on the power , LED displays :



STEP-2 : Press **【FCN】** to cancel RESET , LED displays :



STEP-3 : Press **【DMX】** to reset , LED displays first :



displays afterward :



2.2 Starting Channel Address Preset

STEP-1 : To preset DMX IN starting channel , press and hold down button **【DMX】** and press the button **【▲】** or **【▼】** . For example , when you press **【▲】** , LED will display :



In the DMX IN mode , the first dot shining means that the DMX signal input .



2.3 Output model setting up

DS804A is available for control of normal dimming lamp, switching lamp or DC dimming fluorescent light , as long as you set up model of output .

STEP-1 : Press and hold button **【FCN】** until LED displays as below :



AL : It means all channels

F : It is for fluorescent lamp

STEP-2 : While you press button **【▲】** or **【▼】** , you can set up output model of all channels



S : It means for switching (SWITCH)

d : It means for dimming (DIMMER)

STEP-3 : If you would like to set output model for individual channel, press button **【FCN】** to choose the channel you require , then press button **【▲】** or **【▼】** .

1 · When one of channels is set in the status of SWITCH , input signal lower than 20% , AC output is closed ; input signal higher than 50% , AC output is open .

2 · When one of channels is set for fluorescent light , DC OUTPUT is DC 0V ~ 10V , AC OUTPUT is ON and OFF , when input signal higher than 10% (1AH) AC OUTPUT is open .

2.4 AC OUT OFF delay preset

STEP-1 : Press button **【FCN】** , LED displays :



01 means that AC OUT OFF delay is set as 1 second .

While the output is higher than 10% (1AH) , AC OUT will be turn on.
While the output is less than 8% (13H) , which achieves required delay time , AC OUT will be turn off.

STEP-2 : Press button **【▲】** or **【▼】** to adjust AC OUT OFF delay time . For example, to press button **【▲】** , LED display :



The delay of AC OUT OFF is set as 2 seconds .

CORRESPONDING TABLE

| | | | | | | | | | |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| A.o.00 Instant | A.o.01 1 sec. | A.o.02 2 sec. | A.o.03 3 sec. | A.o.04 4 sec. | A.o.05 5 sec. | A.o.06 6 sec. | A.o.07 7 sec. | A.o.08 8 sec. | A.o.09 9 sec. |
| A.o.10 10 sec | A.o.11 11 sec. | A.o.12 12 sec. | A.o.13 13 sec. | A.o.14 14 sec. | A.o.15 15 sec. | A.o.16 16 sec. | A.o.17 17 sec. | A.o.18 18 sec. | A.o.19 19 sec. |
| A.o.20 20 sec | A.o.21 21 sec. | A.o.22 22 sec. | A.o.23 23 sec. | A.o.24 24 sec. | A.o.25 25 sec. | A.o.26 26 sec. | A.o.27 27 sec. | A.o.28 28 sec. | A.o.29 29 sec. |
| A.o.30 30 sec | A.o.31 31 sec. | A.o.32 32 sec. | A.o.33 33 sec. | A.o.34 34sec. | A.o.35 35 sec. | A.o.36 36 sec. | A.o.37 37sec. | A.o.38 38sec. | A.o.39 39 sec. |
| A.o.40 40 sec | A.o.41 41 sec. | A.o.42 42 sec. | A.o.43 43 sec. | A.o.44 44sec. | A.o.45 45 sec. | A.o.46 46 sec. | A.o.47 47sec. | A.o.48 48sec. | A.o.49 49 sec. |
| A.o.50 50 sec | A.o.51 51 sec. | A.o.52 52 sec. | A.o.53 53 sec. | A.o.54 54sec. | A.o.55 55 sec. | A.o.56 56 sec. | A.o.57 57sec. | A.o.58 58sec. | A.o.59 59 sec. |
| A.o.60 60 sec | A.o.61 61 sec. | A.o.62 62 sec. | A.o.63 63 sec. | A.o.64 64sec. | A.o.65 65 sec. | A.o.66 66 sec. | A.o.67 67sec. | A.o.68 68sec. | A.o.69 69 sec. |
| A.o.70 70 sec | A.o.71 71 sec. | A.o.72 72 sec. | A.o.73 73 sec. | A.o.74 74sec. | A.o.75 75 sec. | A.o.76 76 sec. | A.o.77 77sec. | A.o.78 78sec. | A.o.79 79 sec. |
| A.o.80 | A.o.81 | A.o.82 | A.o.83 | A.o.84 | A.o.85 | A.o.86 | A.o.87 | A.o.88 | A.o.89 |

| | | | | | | | | | |
|--------|---------|---------|---------|---------|---------|---------|--------|--------|---------|
| 80 sec | 81 sec. | 82 sec. | 83 sec. | 84sec. | 85 sec. | 86 sec. | 87sec. | 88sec. | 89 sec. |
| A.o.90 | A.o.91 | A.o.92 | A.o.93 | A.o.94 | A.o.95 | A.o.96 | A.o.97 | A.o.98 | A.o.99 |
| 90 sec | 91 sec. | 92 sec. | 93 sec. | 94 sec. | 95 sec. | 96 sec. | 97sec. | 98sec. | 99 sec. |

2.5 Check out channel output level

STEP-1 : In the **DMX IN** or **ZONE** mode, press button **【▲】** or **【▼】** , LED displays :



At the moment DS804A is in the mode of Auto-Check channel level , it means that the channel 1 output level is 37%.

STEP-2 : While the 2nd channel is altering , EDX-F04 will automatically convert to 2nd channel and display channel output level of channel 2 :



STEP-3 : To press button **【▲】** or **【▼】** once again, you can choose the channel you want to check out . For example, you choose channel 3, LED displays :



Afterwards, the function of Auto-Check channel output level will be shut.

3 Operating of architectural lighting control system

3.1 ID NO. setting up

To collocate architectural lighting control system, it is required to set up ID NO. and the ZONE . The ID NO default of DS804A is 001. It is no need to adjust ID NO. for single machine . On the other hand , it is necessary to set up ID NO. of each when numbers of machines connecting .

STEP-1 : Press and hold button **【FCN】** in any mode until LED displays :



STEP-2 : In the meanwhile , press button **【▲】** or **【▼】** to adjust ID NO. , then press button **【DMX】** , it will return to the mode of DMX initial address .

3.2 ZONE preset

STEP-1 : In the mode of Scene's fading time setting , press and hold down button **【FCN】** for 2 seconds , LED display :



The first 2 digits 00 are shining , these 2 digits means MASTER ZONE .

STEP-2 : Press button **【▲】** or **【▼】** to choose MASTER ZONE you want to set . For example , press **【▲】** , LED displays :



STEP-3 : To press button **【FCN】** , you can convert from MASTER ZONE to DASH ZONE, LED displays :



You'll find the 2 behind digits are shining

STEP-4 : Press button **【▲】** or **【▼】** , you can choose DASH ZONE you want to set , LED displays :



- ※ The purpose of ZONE setting up is mainly aimed at ECP series control panel in architectural lighting control system . It is not required in simple DMX signal condition.

3.3 Scene's fading time preset

STEP-1 : In the AC OUT OFF delay mode , press and hold down button **【FCN】** for 2 seconds, LED displays :



0 F 0.1 means that scene OFF delay is 0.1 second .

The first digit means relative scene . Digit 0 means OFF scene , digit “1” means Scene 1 , digit “2” means Scene 2 and so on ..

0.1 means fading time .

STEP-2 : Press button **【FCN】** to choose relative scene . For example, In the mode of 0 F 0.1, press button **【FCN】** , LED displays :



It means that you can set fading time 0.1 second for SCENE1 .

STEP-3 : Press button **【▲】** or **【▼】** to adjust fading time . For example , press **【▲】** LED displays :



Corresponding table

| | | | | | | | | | |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
| 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1 |
| 0.1 s | 0.2 s | 0.3 s | 0.4 s | 0.5 s | 0.6 s | 0.7 s | 0.8 s | 0.9 s | 1 s |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 |
| 2 s | 3 s | 4 s | 5 s | 6 s | 7 s | 8 s | 9 s | 10 s | 12 s |
| 14 | 16 | 18 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| 14 s | 16 s | 18 s | 20 s | 25 s | 30 s | 35 s | 40 s | 45 s | 50 s |
| 55 | 1 . | 2 . | 3 . | 4 . | 5 . | 6 . | 7 . | 8 . | 9 . |
| 55 s | 1 m | 2 m | 3 m | 4 m | 5 m | 6 m | 7 m | 8 m | 9 m |
| 10 . | 11 . | 12 . | 13 . | 14 . | 15 . | 16 . | 17 . | 18 . | 19 . |
| 10 m | 11 m | 12 m | 13 m | 14 m | 15 m | 16 m | 17 m | 18 m | 19 m |
| 20 . | 21 . | 22 . | 23 . | 24 . | 25 . | 26 . | 27 . | 28 . | 29 . |
| 20 m | 21 m | 22 m | 23 m | 24 m | 25 m | 26 m | 27 m | 28 m | 29 m |
| 30 . | 31 . | 32 . | 33 . | 34 . | 35 . | 36 . | 37 . | 38 . | 39 . |
| 30 m | 31 m | 32 m | 33 m | 34 m | 35 m | 36 m | 37 m | 38 m | 39 m |
| 40 . | 41 . | 42 . | 43 . | 44 . | 45 . | 46 . | 47 . | 48 . | 49 . |
| 40 m | 41 m | 42 m | 43 m | 44 m | 45 m | 46 m | 47 m | 48 m | 49 m |
| 50 . | 51 . | 52 . | 53 . | 54 . | 55 . | 56 . | 57 . | 58 . | 59 . |
| 50 m | 51 m | 52 m | 53 m | 54 m | 55 m | 56 m | 57 m | 58 m | 59 m |
| 60 . | 61 . | 62 . | 63 . | 64 . | 65 . | 66 . | 67 . | 68 . | 69 . |
| 60 m | 61 m | 62 m | 63 m | 64 m | 65 m | 66 m | 67 m | 68 m | 69 m |
| 70 . | 71 . | 72 . | 73 . | 74 . | 75 . | 76 . | 77 . | 78 . | 79 . |
| 70 m | 71 m | 72 m | 73 m | 74 m | 75 m | 76 m | 77 m | 78 m | 79 m |
| 80 . | 81 . | 82 . | 83 . | 84 . | 85 . | 86 . | 87 . | 88 . | 89 . |
| 80 m | 81 m | 82 m | 83 m | 84 m | 85 m | 86 m | 87 m | 88 m | 89 m |
| 90 . | 91 . | 92 . | 93 . | 94 . | 95 . | 96 . | 97 . | 98 . | 99 . |
| 90 m | 91 m | 92 m | 93 m | 94 m | 95 m | 96 m | 97 m | 98 m | 99 m |

3.4 Scene Save

STEP-1 : Edit the desired scene by any DMX controller and cut off DMX signal.

STEP-2 : Press **【DMX】** and **【1】** to save the current output to scene 1. It will display as below.



SCENE 1 → **【DMX】** + **【1】**
SCENE 2 → **【DMX】** + **【2】**
SCENE 3 → **【DMX】** + **【3】**
SCENE 4 → **【DMX】** + **【4】**
SCENE 5 → **【DMX】** + **【FCN】** + **【1】**
SCENE 6 → **【DMX】** + **【FCN】** + **【2】**

3.5 Quick turn on/off channel

When no DMX signal output, press the key **【1】** ~ **【4】** to quick turn on/off 4 channels.

3.6 Installation schema

