EUR1220

Relay Switch Controller

Summary

Thanks for using the EUR1220 relay switch controller. The product adopts advanced microcomputer control technology, analysis is widely used DMX-512 (1990) /RDM,DALI standard protocol, and EU-BUS protocol developed by EUCHIPS, output 12 relay switch signal. The maximum carrying current of each relay switch is 20A,the total 12 channel is 240A.In addition, the device can be connected into the Dynalite system by the Dynalite gateway (Note: the Dynalite trademark holder is PHILPS, the relevant right is owned by the holder of the trademark, the same below)

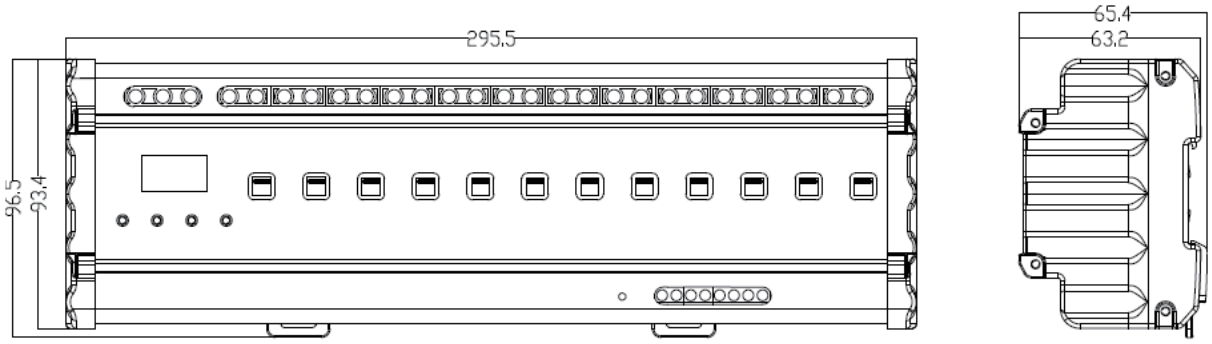
Product Features

- Meets DMX512(1990)/RDM,DALI IEC62386 protocol and EU-BUS protocol developed by EUCHIPS
- Output 12 channel relay switch signal
- Built-in LCD, the user can operate more conveniently
- Set fades time of each channel separately, range of 0.1-60.9s
- Standard 35 mm din rail, convenient installation
- Relay switch channel can be turned on or off manually
- Can save up to 8 events
- Suitable for intelligent lighting control - Home Furnishing, office buildings, schools, stadiums, outdoor architecture etc.

Technical Parameters

Item	Parameters
Input voltage	100-240VAC 50/60Hz
Input control signal	DMX512(1990)/RDM，DALI IEC62386,EU-BUS signal
Max carrying current	20A*12ch
Dimension	295.5*93.4*63.2mm(L*W*H),standard 35mm din rail
Pack size	230*104*72mm(L*W*H)
G.W.	1100g
Operational temperature	-20-40℃

Dimension(mm)



Function Show of The Product

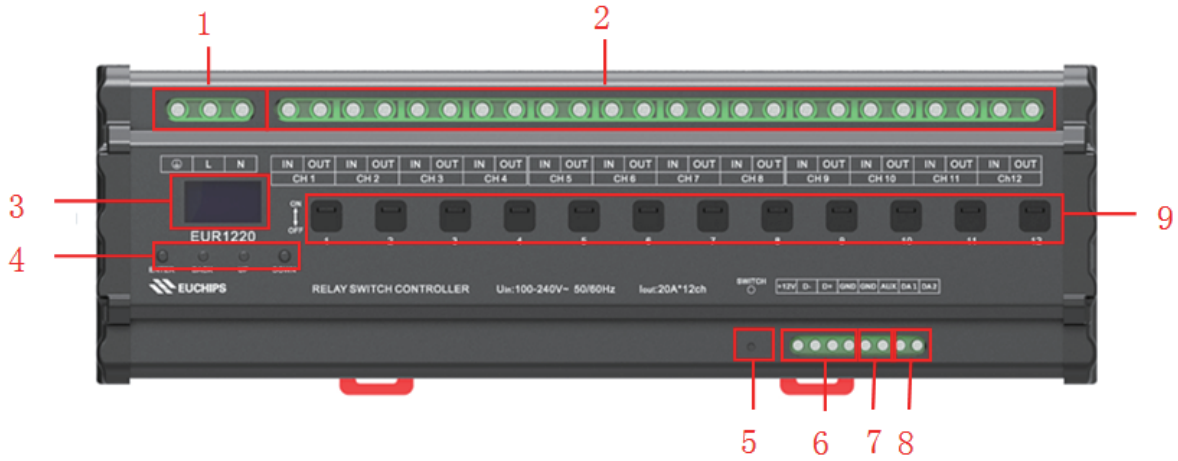


Figure 1

1	AC input port
2	12 relay switch output ports
3	LED display
4	Function button
5	Switch(it is effective under EU-BUS mode), Press 1 time: the device report its own serial number information; Press 3 times continuously: all the channels have output; Press for 4s or more: the device is reset and restarted
6	DMX 512/RDM input port and 12 V output port
7	Input signal of dry contact, used for detecting external signals, and triggering device to response
8	DALI signal input&output port
9	Manual switch

LCD Function

After a successful connection, the main menu will be seen,including control mode, output mode, time event, system settings and system information,see figure 2 and figure 3. Press the button "Enter" to enter the sub menu,press "BACK" to return to the upper menu, press "Up" or "Down" button to move the cursor up or down.

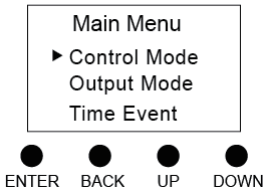


Figure 2

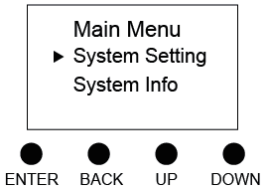


Figure 3

Button	Function
ENTER	Confirm key,confirm the selected state,enter the option to set the state
BACK	Return key, return to the upper menu,exit the option to set the state
UP	Move up the cursor; change the status of the option; when setting DMX Address, Threshold, Fade Time, long press "UP", the value will increase rapidly
DOWN	Move down the cursor; change the status of the option; when setting DMX Address, Threshold, Fade Time, long press "DOWN", the value will decrease rapidly

Control Mode

1. EU-BUS Mode

In the current mode, the output signal is controlled by EU-BUS command, the upper computer can scan the device, and assign the address, read the parameters, and the device can operate according to the instruction of the upper computer.

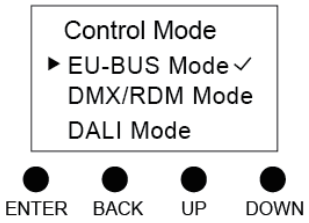


Figure 4

2. DMX Mode

In the current mode, the output signal is controlled by DMX/RDM.

When using DMX512(1990) protocol, press" ENTER"， then set DMX address for each channel . The value can be set from 1 to 511. The addresses of each channel are independent of each other, and can be the same or different. To set the same address for all channels, you can control the group.

When using RDM(2009), the upper computer can scan the device, and assign the address, read the parameters.

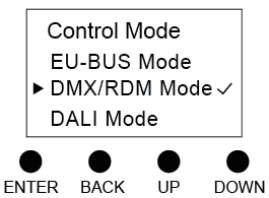


Figure 5

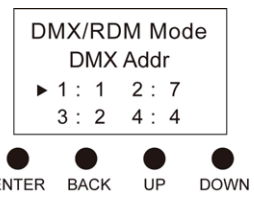
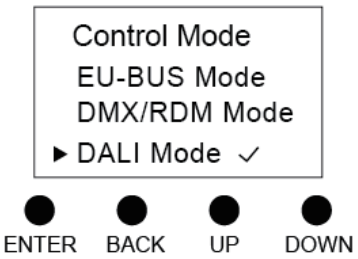
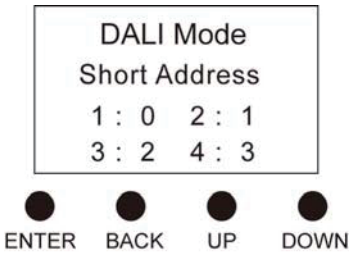


Figure 6

3. DALI Mode

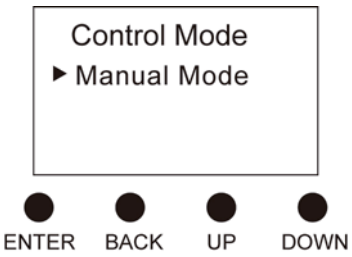
The output signal is controlled by the DALI command in this mode. The address of the DALI mode is defined by the system itself or modified by the host computer. Press “ENTER” to read the short address of 12 channels, The addresses of 12 channels are independent of each other.

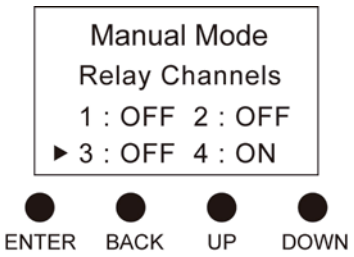




3.Manual Mode

In the current mode, you can manually turn on or off the relay switch signal.





Output Mode

1. Fade Time (note1)

In the current mode, se .The range is (

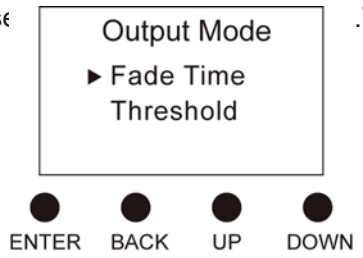


Figure 11

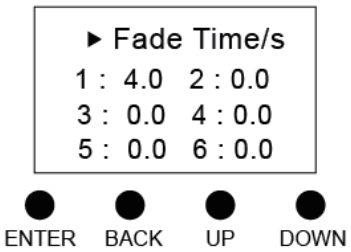
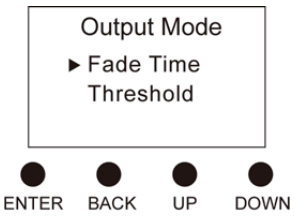
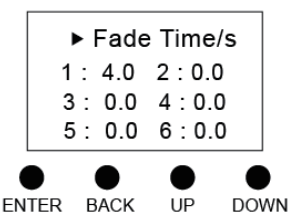


Figure 12

2. Threshold (note2)

You can set the switch threshold for each relay switch channel. When the received brightness value is more than or equal to the threshold value, open the output, or else shut down the output. The setting range of brightness threshold value is 0-100%, corresponding to the brightness level of 0-255.





System Setting

After entering the system settings, you can set the current time of the system, the backlight and restore the factory settings.

1. Time Setting

You can set the current time of the system.

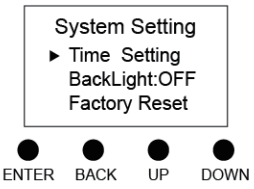


Figure 29

Figure 30

2. Backlight

When the backlight is set to "ON",the display unattended operation over 30s, LCD will enter the clock mode, showing the current date and time. After 60s, the system will automatically enter the sleep mode, press any key to end the sleep mode, enter the setting state. When the backlight is set to "OFF", the display will remain the current setting state.

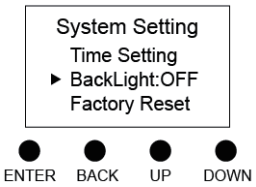


Figure 31

3. Factory Reset

Press “ENTER” to choose whether to reset factory settings.

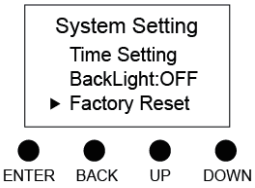


Figure 32

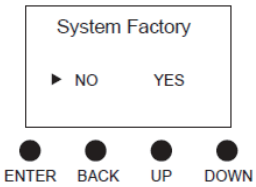


Figure 33

System Info

In this mode, the current system information can be displayed, as follows:

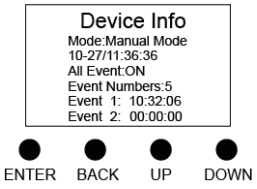


Figure 34

Line 2	control mode
Line 3	current date and time
Line 4	All Event state
Line 5	events number
Others	event name, event status or time

Manual switch

12 channel relay switch signal output, each channel corresponds to a button, you can open or close the relay switch channel output manually.

Wiring Diagram

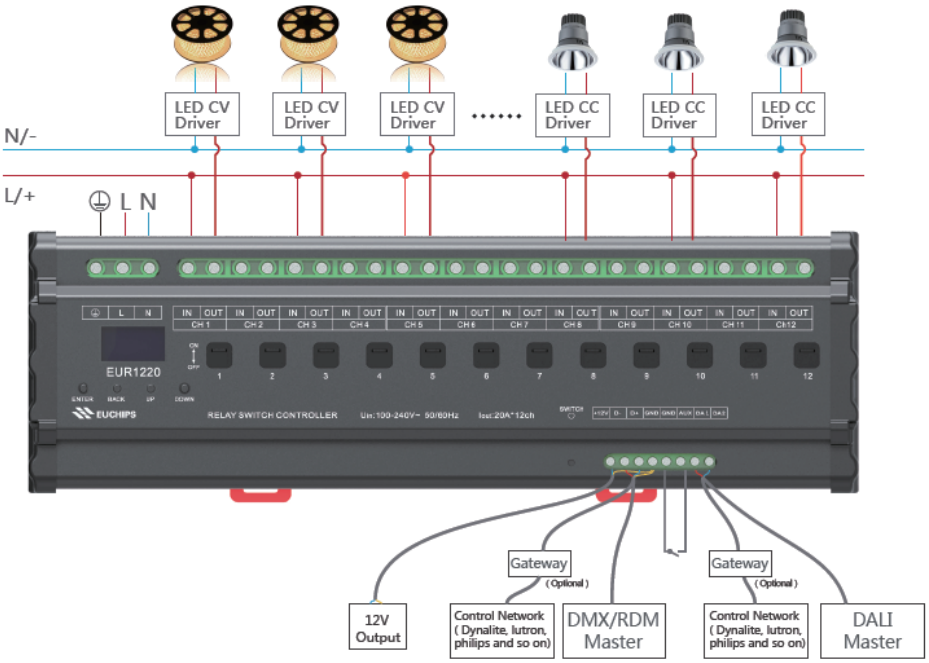


Figure 35

Note 1:Fade Time settings are valid only in DMX/RDM mode.

Note 2:Threshold settings are valid only in DMX/RDM and DALI mode.