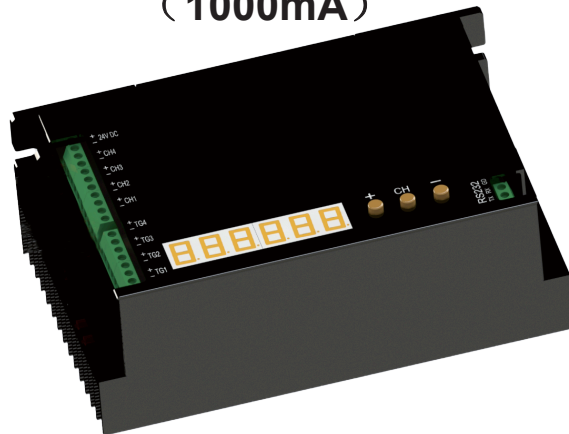# Constant current backlight controller
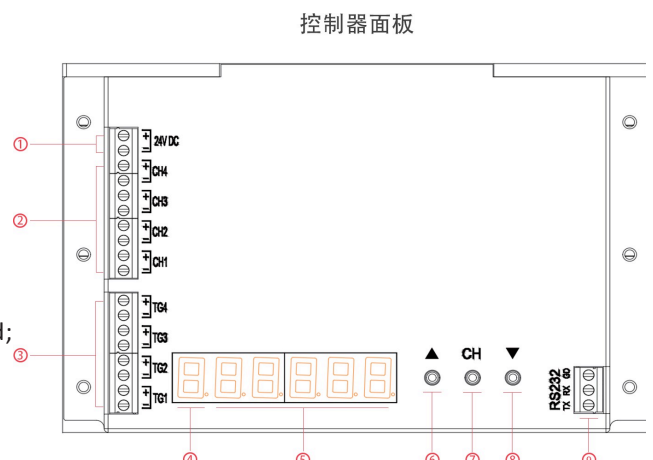
DR2410C-4

（1000mA）

☐ Precautions

▶ Before using this product, please verify that the output specifications (voltage/current/terminal definition) match the specifications of the backlight used;

▶ Ensure that the ground cable of the input AC power supply is properly grounded;

▶ Disconnect the input power supply when connecting the light source cable,. Check whether the input and output cables are correct to ensure the reliability of the product before powering on the power source;

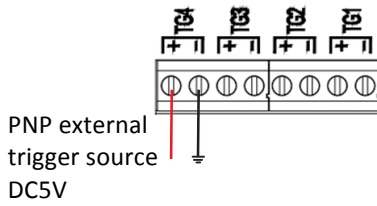▶ Do not operate in inflammable and explosive environment. Ensure that the surface of the product is clean and dry;

☐ Interface

① External DC24V input interface;

② output interface, 4 channels; Trigger

③ input interface,trigger voltage

　DC5V;

④ display: channel number (1 digit);

⑤ display: current value;

⑥ Carry button: short press to enter 1, long press to fast forward;

⑦ 　Channel/trigger button: Short press to enter channel selection,

　long press to enter trigger selection;

⑧ Reduction button: short press to reduce 1, long press fast
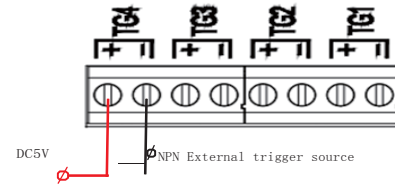
　reduction;

⑨ RS232 communication port.

控制器面板

■ External trigger connection mode

Connection Mode 1

Connection Mode 2

PNP external
trigger source
DC5V

DC5V   NPN External trigger source

■ Operation Instructions

◆ Current setting: Press the "CH" key to enter the corresponding channel, and then press the "Carry" or "Subtract" key to adjust the required current value.

◆ Trigger setting: Long press the "CH" key to enter, the six-digit nixie tube displays 10-XXX ", 10 "indicates entering the trigger state," XXX "is the trigger time display, can be adjusted by pressing the" carry "or" subtract "key, the trigger time unit is millisecond. Press the CH key again to exit the trigger setting;

■ Specification

Electrical specification

Number of channels : 4

External input voltage : DC-24V

Output voltage : DC-24V

Output current : 0.00~1000.00mA*4

Output current tolerance : +-0.3mA

Adjustment accuracy : 0.01mA

Display accuracy : 0.01mA

Output power : 24W*4

Dimming specification

Dimming mode: manual control or RS232 setting
Manual adjustment: Adjust according to the buttons on the controller panel

Mechanical specification

Dimensions: 150*97.5*41mm
Weight: 0.6Kg

Communication Setting

Baud rate :9600;   Data bits :8;   Stop bit :1;   Check bit: None.

Reply protocol
Set the current:

Use six bytes to send command :00   CHX   CUR/H   CUR/L   CRC/H

00: the command code (00 indicates setting).

CHX: channel data (00 is channel 1; 01 is channel 2; 02 is channel 3; 03 is channel 4);

CUR/H, CUR/L : to set the current value (CUR/H is the high 8 bits of the current value, CUR/L is the low 8 bits of the current value);

CRC/H, CRC/L : CRC check bits (CRC/H is the high 8 bits of the check bit, CRC/L is the low 8 bits of the check bit).

The returned value of the setting: 77 88 99 CRC/H   CRC/L

77 88 99 Indicates the configuration is successful.

CRC/H CRC/L: CRC check bits (CRC/H is the high 8 bits of the check bit, CRC/L is the low 8 bits of the check bit).

For example, set channel 2 to 50mA

Run the command: 00 01 01 F4 51 F3

Data received: 77 88 99 67 B0