

# User Guide

## 4 Channel Constant Voltage DMX512 & RDM Decoder

D4-P or D4-E is an industrial level constant voltage DMX512 & RDM controller which features full support to the latest DMX512, DMX512(1990), DMX512-A and RDM V1.0 (E1.20 – 2006 ESTA Standard) protocols. The RDM controller is designed with 4 channels, 8A per channel constant voltage output.

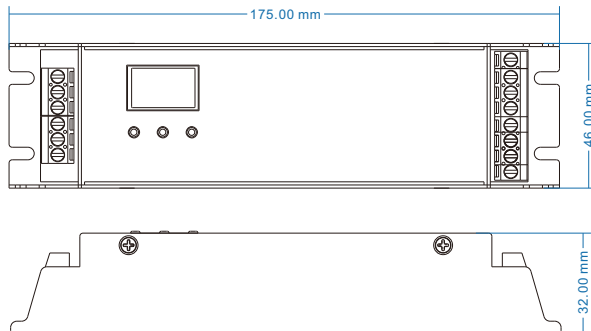
### Feature

- 4 channel PWM constant voltage DMX decoder with digital display.
- DMX address display, set DMX address freely.
- RDM bi-directional communication function, can realize intercommunication between DMX master and decoder. for example, you can set DMX decoder address by DMX master console.
- Two kinds of DMX signal input: connector or RJ45 port.
- Work with power repeater to expand output unlimitedly.

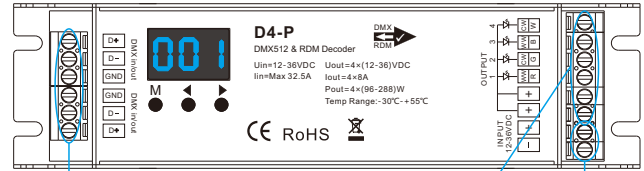
### Technical parameter

Model	Name	Input voltage	Output current	Output power	DMX in/out
D4-P	4CH CV DMX512 decoder	12-36VDC	4CH,8A/CH	4 x (96-288)W	Connector
D4-E	4CH CV DMX512 decoder	12-36VDC	4CH,8A/CH	4 x (96-288)W	RJ45

### Dimension



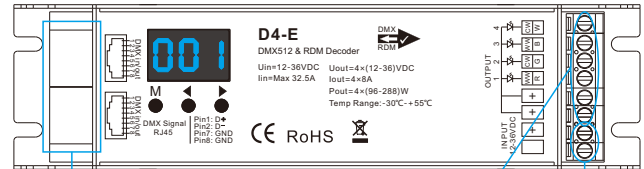
### Interface specification



DMX input / output

LED output

Power input

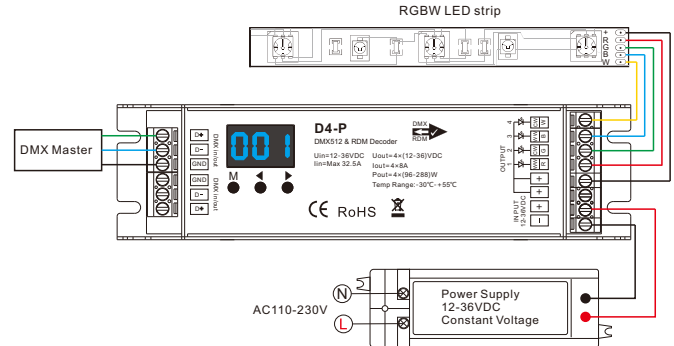


DMX input / output

LED output

Power input

### Wiring diagram



#### Power supply select guide

- 12V lamp, Input 12V power supply, each channel can load 0~96W,
  - 24V lamp, Input 24V power supply, each channel can load 0~192W,
  - 36V lamp, Input 36V power supply, each channel can load 0~288W,
- The power supply power must larger than load power 20%.

## Operation

### DMX mode

- Short press M key, when display 001~999, enter DMX mode.
- Press ◀ or ▶ key to change DMX decode address(001~999), long press for fast adjustment.
- If there is a DMX signal input, will enter DMX mode automatically.



DMX mode  
(001~999)

### Self-test mode

- Short press M key, when display L-1~L-5, enter self-test mode.
- Press ◀ or ▶ key to change mode number(L-1~L-5).
- Self-test mode include four channel light up separately or synchronously.
- Enter self-test mode only when DMX signal is disconnected or lost.



Self-test mode  
(L-1~L-5)

## Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. No power. 2. Wrong connection or insecure.	1. Check the power. 2. Check the connection.
Wrong color	1. Wrong connection of R/G/B/W wires. 2. DMX decode address error.	1. Reconnect R/G/B/W wires. 2. Set correct decode address.
Uneven intensity between front and rear, with voltage drop	1. Output cable is too long. 2. Wire diameter is too small. 3. Overload beyond power supply capability. 4. Overload beyond controller capability.	1. Reduce cable or loop supply. 2. Change wider wire. 3. Replace higher power supply. 4. Add power repeater.

## Safety information

1. The product shall be installed and serviced by a qualified person.
2. The product is non-waterproof. Please avoid the sun and rain.
3. Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.
4. Please check if the output voltage of any power supplies used comply with the working voltage of the product.
5. Ensure all wire connections and polarities are correct and secure before applying power to avoid any damages to the LED lights.
6. If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.