LED Signal Dimmer User Manual



(Please read through this manual carefully before use)

1. Brief Introduction

Welcome to use our 2 channel LED signal dimmer, this dimmer is AC85-265V input, and output AC85-265V and 0/1-10V, 5V PWM, 10V PWM analog dimming signal. It can support Tuya/amazon Alexa/Smallzhi housekeeper and so on to control. Easy to install, stylish and simple design, and more user-friendly.

2. Product parameter

Model	TY2- 0/1-10V	TY2- PWM5V	TY2- PWM10V
Input Voltage(INPUT)	AC85-265V		
Max Output Current(AC OUT)	10A x 1CH		
Max Output Signal Current(OUTPUT)	40mA x 2CH		
Output Signal	0/1-10V Analog Signal	PWM5V Signal	PWM10V Signal
Dimming Range	1%-100%		
Dimensions	L176 x W46 x H30 (mm)		
Weight(G.W)	120g		

3. Feature function

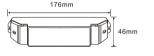
1, 2 in 1 function, used to control single color(DIM), dual color(CCT LED Strip light).

- 2. Tuya APP cloud control, support on/off, color temperature, brightness, count down turn on/off light, repeat cycle turn on/off light, scene edit and music play function.
- 3. Voice control, support amazon Alexa and Smallzhi housekeeper.
- 4. Power loss memory function.
- 5. Light on/off fade time 0.5s, 3s setting.
- 6. Multi-dimmers are controlled synchronously using an APP.
- 7. Multiple users share the same device to operate.

4. Safety warnings

- 1. In order to use it properly and safety, please read user's manual carefully before installation.
- 2. Please don't install this controller in lightening, intense magnetic and high-voltage fields.
- 3. To reduce the risk of component damage and fire caused by short circuit, make sure correct connection.
- 4. Always be sure to mount this unit in an area that will allow proper ventilation to ensure a fitting
- 5. Don't connect cables with power on; make sure a correct connection and no short circuit checked with instrument before power on.
- 6. Please don't open controller cover and operate if problems occur. The manual is only suitable for this model; any update is subject to change without prior.

5. Dimensions





6. Operating instructions

- 1. Tuva APP network configuration
- a. Long press the match key(for more than 2s), press the dip switch to switch the lamp type or repeat power on and off for 5 consecutive times, the previous network connection will be cleared, and re-enter network matching mode. Enter Smart config when changing the lamp type, long press the match key to alternately switch the Smart and AP config.
- b. After entering enter Smart config. the LED indicator flashes fastly, and flashes slowly after entering AP config. Bluetooth match mode.
- c. The status of the LED indicator during the network configuration process: The WIFI information is configured but the router is not connected, the LED indicator flashes twice and stops for 2 seconds. The router is connected but not connected to the Cloud, the LED indicator flashes three times and stops for 2 seconds. When the Cloud is successfully connected, the LED indicator will be steady on.

- d. If the dimmer network connection succeed, you can find DIM device (or other DIM and CCT)in Tuva APP. e. If smart config failed, please try AP config.
- 2.Tuva APP interface :



DIM type

Touch brightness slide to adjust brightness.



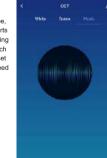
CCT type:

Touch color circle to adjust color temperature. Touch brightness slide to adjust brightness.



Scene mode

Support for all light type, and each mode supports independent color editing (up to 8 colors), in which dynamic change can set the color changing speed and changing mode.



In music mode

You can use your phone's microphone as a signal source to control light changes. The Timer key can turn on or turn off light in the next 24 hours It can be set to turn on or off the light only once, or set the cycle to turn the lights on or off repeatedly.



Notes:

If you need to switch the light on/off fade time, you can quickly press the turn on/turn off key for five times (within 5s) through the Tuya control interface or short press the dimmer's matching button. If you want to set the color temperature fade effect, click any mode in scene mode and then edit, change the color changing mode to breath mode, then add scene color to set the new color to white light. After setting the target effect of color temperature fade, then click submit key to save. If you want to set the color gradual bright & fade effect, click any mode in scene mode and then edit, change the color changing mode to breath mode, then add the scene color to set the new color to the same color, and set the brightness of the new color to the lowest. In the same mode it only supports 4 colors of gradual bright & fade at most.

Malfunction	Causation	Solution	
a. No Light	The signal wiring connection reversed	Check the socket Modify the connection Check the connection	
b. Wrong color	CCT mode: the CW signal and WW signal wiring connection reversed	Modify to the correct wiring	
c. APP control delay or no response	Excessive network latency The dimmer do not connect the network	Check the network environment of the router connected to the dimmer Check the LED lights status of the dimmer, and determine the network status of the dimmer	
d. Occasionally flashing in the static status of lighting	The signal wiring not correct properly Connect Multiple quantity dimmer driver	Check the wiring terminal Reduce the quantity of dimmer driver	

Onboard LED status indicator :

- 1. When the LED indicator flashes steadily and quickly, the module is in Smart config.
- 2. When the LED indicator flashes steadily and slowly, the module is in AP config.
- If the LED indicator flashes steadily for 2 times and turns off for 2 seconds, the module is successfully configured but is not connected to the router.
- 4. If the LED indicator flashes steadily for 3 times and turns off for 2 seconds, the module is successfully configured and connected to the router but not to the Cloud.
- If the LED indicator flashes steadily for 5 times and turns off for 2 seconds, the dimmer is malfunction.
- 6. If the LED indicator is steady on, the module has successfully connected to the Cloud. If the network is interrupted after successfully connecting to the Cloud, the LED status update will be delayed.

7. Wiring Diagram:

1. Use for DIM:

Set the DIP switch 00 for 0-10V output signal. Set the DIP switch 10 for 1-10V output signal.



2. Use for CCT:

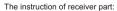
Set the DIP switch 01 for 0-10V output signal. Set the DIP switch 11 for 1-10V output signal.

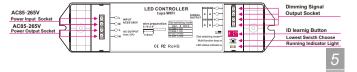


8. Warnings

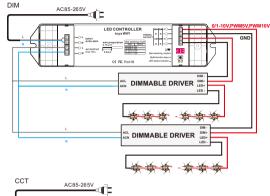
- 1.When using the countdown function , if the power is accidentally cut off, the countdown function will fail after the power is restarted, the light state will return to the state it was in when the power cut off. If you power on again before the timer has not expired, it will not be affected by the power outage. If the power is restored after the timer expires, the light will return to the state before the power off, and the timing function will be affected by the network. If the power is restored but the dimmer is not connected to the network, the timing function still fails.
- 2.In the music mode, if the power is accidentally cut off and power-on again, the light changes to low-brightness white. If the dimmer has not been connected to the network, the light is always low-brightness white. Note: the APP needs to be in the running state, and the APP microphone permission needs to be turned on.
- 3.If there are multiple TY2-010V signal dimmers connected to the control, you can add each dimmer to the Tuya APP, then enter the operation page of one of the dimmers to edit, click Create Group, add the device to be added to the group, and click Save. At this time, a device named "xxxxx group" is added to the home page, and when entering this device, you can operate all the devices in the group at the same time.
- 4.If you want to share a device or device group with others, click Edit on the operation interface, and then click Share the device.
- 5. The dimmer does not support 5G band WIFI, and don't hide the router.

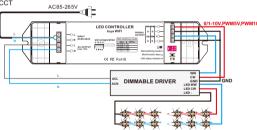
9. Operating instructions





Wiring instructions:





10. After- Sales

From the day you purchase our products within 3 years, if being used properly in accordance with the instruction, and quality problems occur, we provide free repair or replacement services except the following cases:

- 1. Any defects caused by wrong operations.
- 2. Any damages caused by inappropriate power supply or abnormal voltage.
- Any damages caused by unauthorized removal, maintenance, modifying circuit, incorrect connections and replacing chips.
- 4. Any damages due to transportation, breaking, flooded water after the purchase.
- Any damages caused by earthquake, fire, flood, lightning strike etc. force majeure of natural disasters.
- Any damages caused by negligence, inappropriate storing at high temperature and humidity environment or near harmful chemicals.