



# Product Specification

**NAME:** 86 type 4 channels Touch Panel Controller  
**MODEL:** TM09



## Summarization

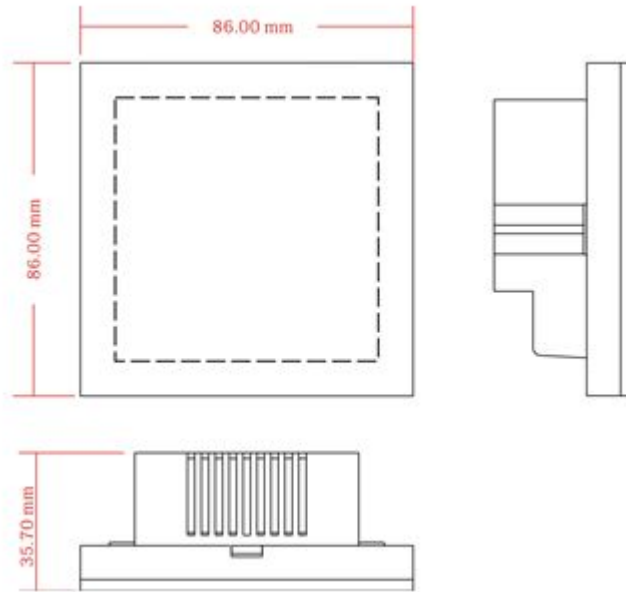
Touch panel controller is a new high-end controller which newly developed by our company. It adopts glass panel design, beautiful and fashionable in appearance. It adopts high precision capacitance touch control chip, increases the touch sensitivity, reduces trigger which caused by mistake. It is used for controlling a variety of lamp whose source of light is LED. For instance, point source of light, flexible light strip, panel lights etc., it has many advantages such as convenient to connect, easy to use and others. This controller can control RGB and RGBW led lamp, users don't need to purchase a variety of controller, then can achieve the effect you want, also RGBW mode can realize pure white light effect that RGB lamps and lanterns can't reach.

## Technical Parameters

working temperature: -20-60 °C	supply voltage: DC12~24V
output voltage: DC12~24V	output: 4 channels
connection mode: common anode	external dimension: L86 * W86 * H36.7mm
packing size: L105 * W105 * H53 mm	net weight: 0.131 kg
gross weight: 0.183kg	static power consumption: <0.54W
output current: <4A (each channel)	output power: 192W/12V, 384W/24V



### External Dimension



### Interface Specifications:



- ①white light output negative pole
- ②blue light output negative pole
- ③green light output negative pole
- ④red light output negative pole



- ⑤positive pole      ⑥power input positive pole      ⑦power input negative pole

**Instruction for use:**



: When touching chromatic circle, no matter in static or in dynamic mode, it can switch into the corresponding static color on touch circle.



: you could turn on/off controller at any state; When the dimmer is turned on, long press the key for 3 seconds, you can turn on/off output of buzzer;



: short press — switching cyclically among 39 kinds of modes, long press — can choose RGBW and RGB+W lager mode output.



: short press — switching among 7 kinds of custom Modes( the first four is red, green, blue and white, the last three is the modes you save), long press can save the modes you like, modes can be saved in the fifth, sixth, seventh mode; If you want to replace previous modes, you need first switch the modes to the one needing replaced, then find the mode you like, just long press it and save, the first four modes are fixed models.



: in static mode, brightness reduce key, total 16 levels; in dynamic mode, speed reduce key, total 16 levels;



: in static mode, brightness increase key, total 16 levels; in dynamic mode, speed increase key, total 16 levels;

**Table 1      RGBW Model**

<b>NO.</b>	<b>Model</b>	<b>NO.</b>	<b>Model</b>
1	Red	21	Red burst flashing
2	Orange	22	Green burst flashing
3	Deep-yellow	23	Blue burst flashing
4	Yellow	24	Yellow burst flashing
5	Light-yellow	25	White burst flashing
6	Green	26	Three color burst flashing
7	Light green	27	Three color flash
8	Cyan	28	Three color jumpy changing
9	Light-blue	29	Seven color jumpy changing
10	Sky-blue	30	Red fade in and out
11	blue	31	Yellow fade in and out

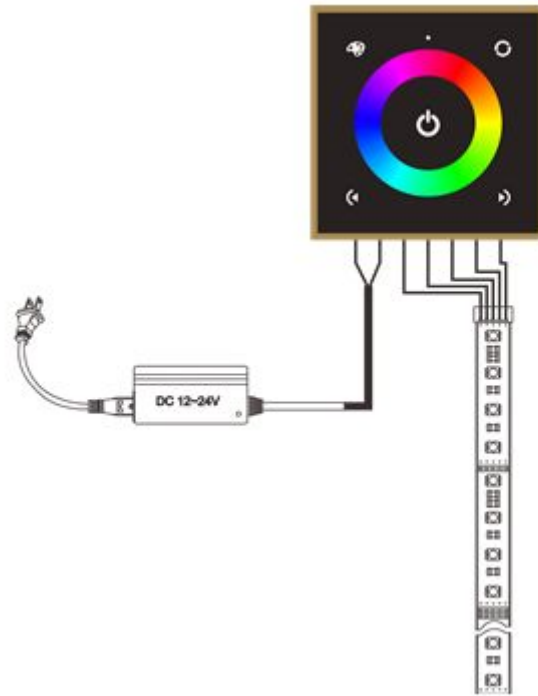


12	Deep-blue	32	Green fade in and out
13	Blue-purple	33	Cyan fade in and out
14	Purple	34	Blue fade in and out
15	Brown	35	Purple fade in and out
16	White	36	White fade in and out
17	Ivory	37	Three color fade in and out
18	Pink-white	38	Seven color fade in and out
19	Yellow-white	39	Seven color gradual changing
20	Blue-white		

**Table 2 RGB+W Model**

<b>NO.</b>	<b>Model</b>	<b>NO.</b>	<b>Model</b>
1	Red + white	21	Red burst flashing + white
2	Orange + white	22	Green burst flashing + white
3	Deep-yellow + white	23	Blue burst flashing + white
4	Yellow + white	24	Yellow burst flashing + white
5	Light-yellow + white	25	White burst flashing + white
6	Green + white	26	Three color burst flashing + white
7	Light green + white	27	Three color flash + white
8	Cyan + white	28	Three color jumpy changing + white
9	Light-blue + white	29	Seven color jumpy changing + white
10	Sky-blue + white	30	Red fade in and out + white
11	Blue + white	31	Yellow fade in and out + white
12	Deep-blue + white	32	Green fade in and out + white
13	Blue-purple + white	33	Cyan fade in and out + white
14	Purple + white	34	Blue fade in and out + white
15	Brown + white	35	Purple fade in and out + white
16	White + white	36	White fade in and out + white
17	Ivory + white	37	Three color fade in and out + white
18	Pink-white + white	38	Seven color fade in and out + white
19	Yellow-white + white	39	Seven color gradual changing + white
20	Blue-white + white		

**Typical Application**



### Installation Method

#### 1. Connection

Connect the wire according to the typical application circuit. Please don't connect the wire in the opposite way.

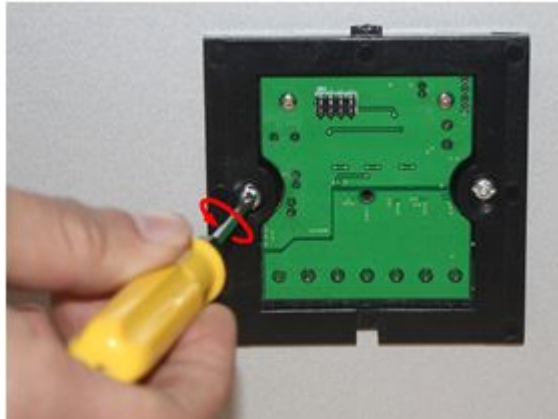
#### 2. open touch panel

Gently pry gaps in touch panel with a screwdriver, and then you can slowly remove the panel, as shown below;



#### 3. Install switch base

As shown in the picture, mount the controller on the cassette in the wall after connecting the wire, and then nail the screw, fix it on the wall, finally you can install the switch pedestal on the wall;



4. Cover the touch panel

Look the panel direction, then cover panel, as shown in the figure;



**Remarks**

1. Connect the load wire at first, followed by the power wire; **Please ensure short circuit can not occur between connecting wire before you turn on the power;**
2. The supply voltage of controller ranges in DC12-24V, it may burn out the controller once exceed the voltage.