# Armacost LIGHTING 713429 ProLine Wi-Fi RGB Plus WW Color LED Controller Instruction Manual

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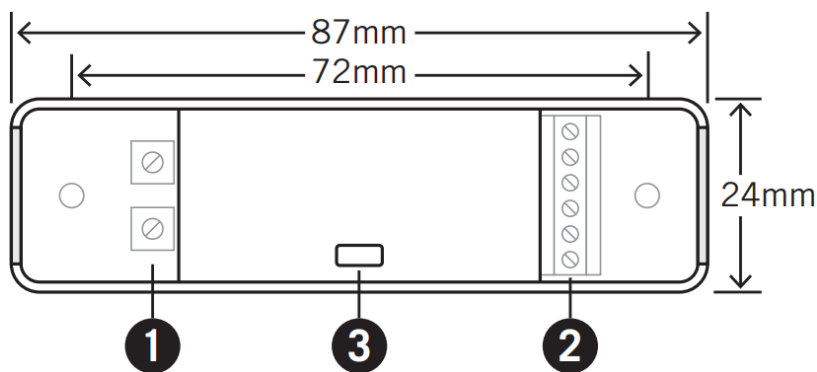Works with the Tuya Smart App, available at the iOS and Google Play stores

## Contents

## Introduction

This LED controller is designed to work with constant voltage RGB+WW LED products such as LED tape light or LED fixtures in a voltage range of 12–24 volts DC. The receiver works with the RF wireless remote control, which allows the user to choose between multiple colors, adjust the LED brightness, and select dynamic effects.

## Receiver & wiring



### Input – from power supply

The controller input and output voltage range is 12–24 volts DC. Make sure the LED lighting voltage is within this range and below the rated wattage of the power supply. Connect input wires from the power supply to the controller as indicated by the polarity markings on the controller (+ to + and − to −).

### Output – to LED lighting

Observe polarity indicated on the controller when connecting to LED lighting (+ to +, G to G, R to R, etc.).

Make sure the voltage of the LED lighting is the same as the power supply and the maximum load doesn't exceed that of the controller.

**CAUTION:** Shorting of output cables could cause permanent damage to controller. Make sure cables are well insulated from each other.
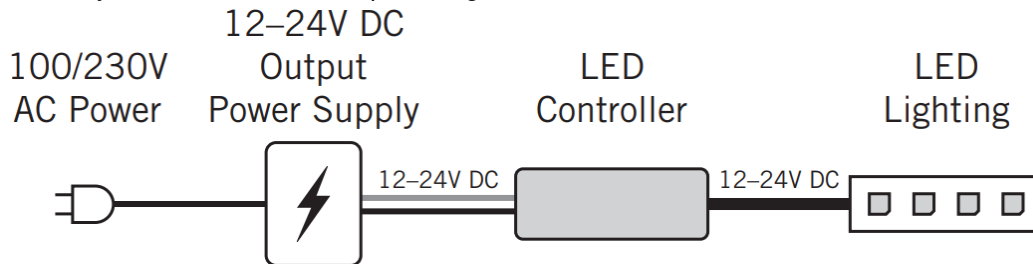
### Controller status indicator

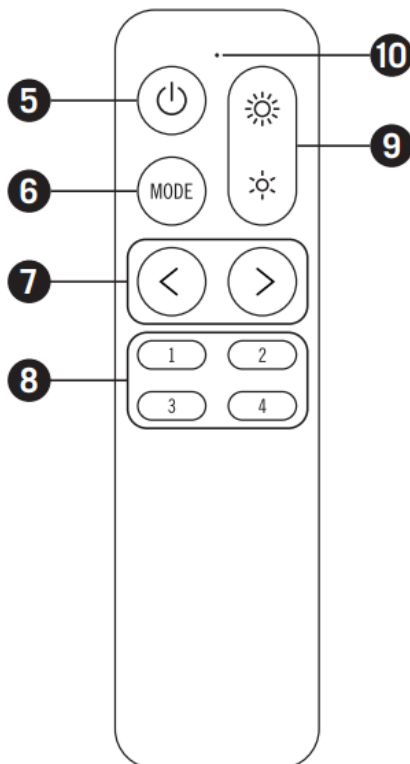This light shows the controller status as follows:

**Steady yellow:** Remote only mode, Wi-Fi disconnected
**Steady green:** Remote and Wi-Fi mode
**Single green blink:** Command received
**Long single yellow blink:** Brightness or speed limit reached
**Red flash:** Overload protection
**Yell[ow flash:** Overheat protection
**Green flash 3 times:** Setup command received

**Wiring diagram**

Connect the power supply to the controller input and the controller output to the LED lighting. The output voltage of the power supply must be the same as the voltage of the LED lighting. Make sure all power cables are conected securely and insulated before powering on.



**Remote Control**



**On / Off**
Press the key to turn controller on or off. The controller will remember the controller state when powered off, and will return to that state when powered back on.

**Mode selection**
Press to switch between RGB, white and effects modes.

**Color selection**
When in RGB mode, scroll through available colors. In white mode, scroll through color temperatures. In effects

mode, scroll through effects.

**Favorites**
When on a selected color press and hold to set that color to one of the four buttons.

**Brightness control**
Press to increase LED brightness and press to decrease it

**Remote indicator**
When pressing keys, the indicator blinks if the remote is working properly. If the indicator flashes slowly when pressing keys, battery power is low and it needs to be replaced. Replace with a CR2032 battery.

**Setting up a Wi-Fi connection**
Install the Tuya app to set up a Wi-Fi connection. Before setup, make sure the controller is in factory default mode and not connected to other wireless routers. The controller indicator should glow yellow before it has been connected to Wi-Fi.

## Remote control operation

**Using the remote control**
Pull out plastic battery insulation tab before use. The RF wireless remote will work through walls and doors. Do not install in a metal enclosure.

**Pairing with a new remote control**
The remote control and receiver are already paired, but up to five remotes can be paired to one receiver.

**To pair a new remote:**

1. Unplug power to receiver and wait five seconds.
2. Reconnect power and within ten seconds press the and keys simultaneously until the remote indicator flashes quickly.

**De-pairing remotes**
To de-pair a remote control, pair the remote you wish to continue using with the controller and any other paired remotes will be de-paired.

**Reset to factory default**
To reset the Wi-Fi setting and remote control pairing:

1. Unplug the receiver. Plug in after five seconds.
2. Press the and keys simultaneously for about three seconds, within ten seconds of the receiver being powered on.

The indicator will flash yellow three times to confirm.

## Safety Protection

The controller has a function to prevent it from being damaged by mis-wiring, output short circuit, overloading, or overheating. It will automatically shut down under these extreme conditions until safe operating conditions are restored. To avoid shutdowns, make sure the installed LED lighting is compatible with constant voltage, is in the

rated range of the controller, and the cables are well connected and insulated. Also, install the controller with proper ventilation and heat dissipation in mind.

## Specifications

- **Output mode** …. PWM constant voltage
- **Working voltage** …………… 12–24V DC
- **Rated output current** …5x2A (10A max)
- **Static colors** ……………… 30 (remote) /…………………………..16 million (app)
- **Brightness levels** ……….. 10 (remote) /………………………………..100 (app)
- **Dynamic effect modes** …34 (remote only)
- **Dynamic speed levels** …10 (remote only)
- **Scene** / **Timing function**……………………………………….User defined (app only)
- **Music sensing color** …… Yes (app only)
- **PWM physical grade** ……….4000 steps
- **Overload/heat protection** …………… Yes
- **Remote frequency** …………433.92MHz
- **Remote control range** …….up to 50 ft./………………………. 15m in open areas
- **Wi-Fi standard** …….. IEEE 802.11a/b/g
- **Controller dimensions** ……………………………3.43 X 0.95 X 0.59 in. /…………………………87 X 24 X 15mm
- **Remote dimensions** ………………………………..5.27 X 1.4 X 0.38 in./………………………..134 X 36 X95mm

## Warranty

3-year limited warranty. This product is for dry location use only. Improper installation, improper powering, abuse, or failure to use this device for its intended purpose will void warranty. Proof of purchase is required for all returns. Questions? Email **support@armacostlighting.com**.

## Customer support

**Email:** **support@armacostlighting.com**
**Phone:** 410-354-6000
Monday–Friday, 9 a.m.–5 p.m., ET

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## Documents / Resources

**Armacost LIGHTING 713429 ProLine Wi-Fi RGB Plus WW Color LED Controller** [pdf] Instruction Manual

713429 ProLine Wi-Fi RGB Plus WW Color LED Controller, 713429, ProLine Wi-Fi RGB Plus WW Color LED Controller, RGB Plus WW Color LED Controller, WW Color LED Controller, Color LED Controller, LED Controller

## References

- ⚠ **[LED Lighting Products & Solutions from Armacost Lighting](#)**
- **[User Manual](#)**