

MASTER CONTROLLER

EC2820



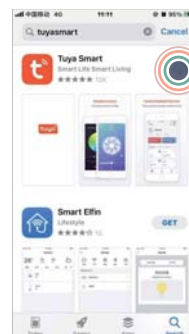
FEATURES

Working with 0-10v(0-11.5v) dimmable devices

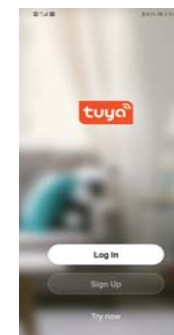
- Switching ON/OFF by 0-10v signal
- Plug & Play, Easy operation
- Short circuit protection
- Auto dimming or shutting OFF under abnormal Ambient Temperature
- Handle Max 50 fixtures (depends on quantity of driver or ballast)
- APP is available

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Connect Phone with your controller



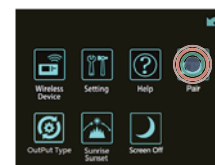
1. Download the APP from APP Store or Android Market



2. Turn ON the Cellphone Bluetooth, Sign Up & Log In



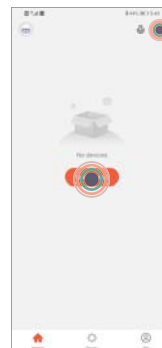
3. Press the "Setup" button on the Master Controller, enter the Setup Menu



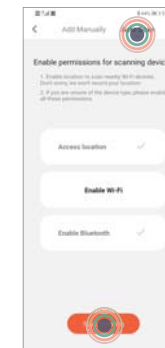
4. Press the PAIR to pairing



5. Select "+" to add new device on the APP



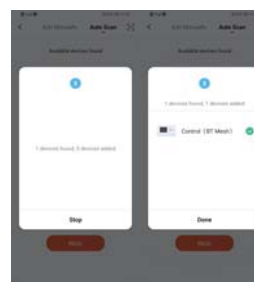
6. Make sure the Bluetooth have been turned ON, and Auto Scan firstly,



7. First select Auto Discovery and OK "Turn on Bluetooth," then click "Start Scanning"



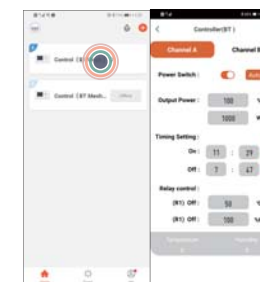
8. NEXT if new devices found.



9. Wait a moment until new device have been connected

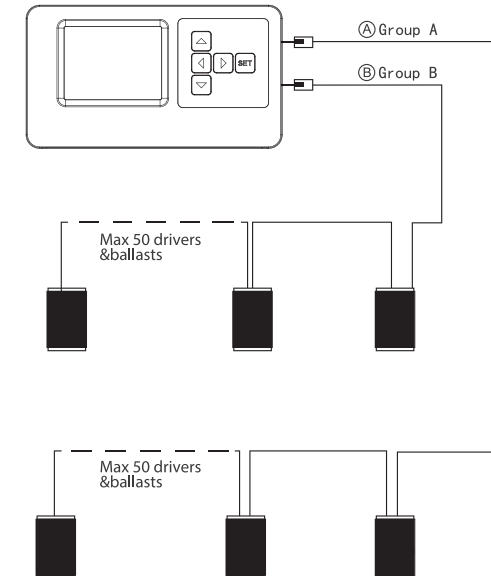
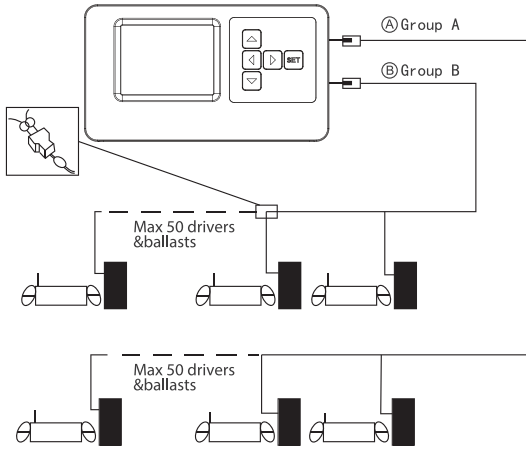


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10. Select the right device and go to the dashboard

Controller wiring diagram



How to connecting with SPLITER

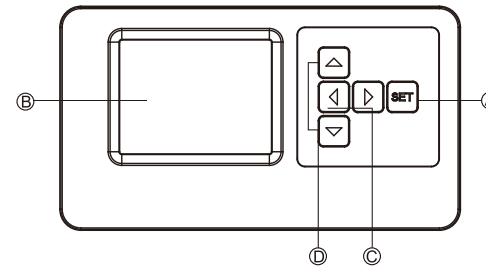
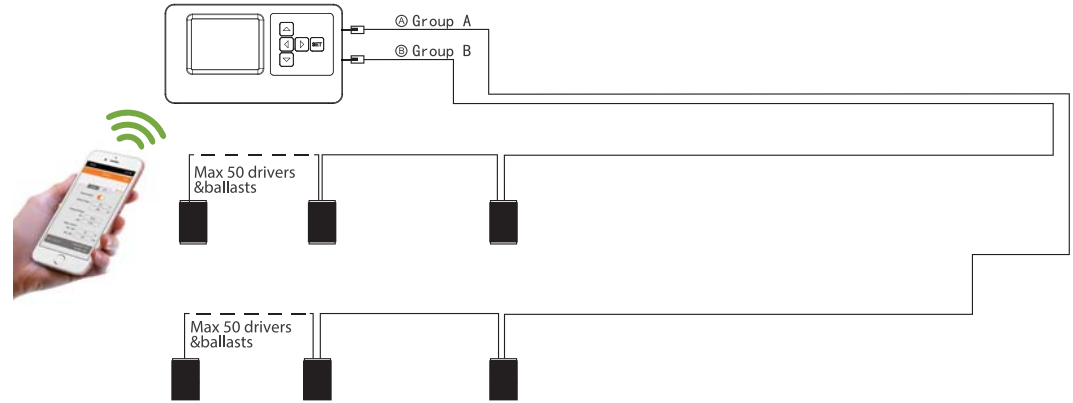
- 1 Make sure all fixtures are under External Control mode.
- 2 Plug in the RJ14 cable to controller RJ port(OUTPUT).
- 3 Another RJ14 plug into splitter INPUT port. Spliter Use RJ14 cable to connect one of Spliter Output port to the Control Port of Driver&Ballast.
- 4 Use a RJ14 cable to connect one output of Spliter to the input of following spliter,and so on
- 5 Repeating above 4 steps for max 50 drivers &ballasts.

How to connecting to driver directly

- 1 Make sure all fixtures are under ExternalControl mode.
- 2 Plug in the RJ14 cable to controller RJ port (OUTPUT).
- 3 Another RJ14 plug into Control Port of driver & ballast.
- 4 Use with RJ14 cables, Interconnect the driver &ballast to the next driver &ballast in line, max 50 drivers & ballasts.

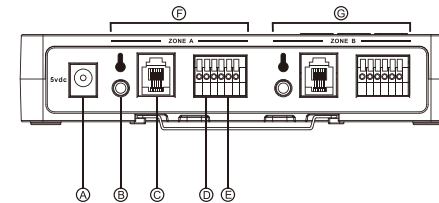
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- The Output level can be in range 0-115%
- Programing Sunrise&Sunset period
- Plug & Paly Temperature and Humidity sensor
- APP available for Smart phone



Front View

	Button	Function
A	SET	Long PRESS for 5 seconds to awake Setup Menu
B	Display	Displays work status and menu
C	LEFT/RIGHT button	Moves cursor
D	UP/DOWN button	Changes the parameter



Ports

A	Input 5vDC/2A
B	Temperature&Humidity sensor input port
C	RJ Port
D	contacts for auxiliary ventilation equipments
E	contacts for auxiliary humidifer or dehumidifer
F	Group A
G	Group B(Same functional as Group A. Group B could be independent or following Group A)

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Use steps



Setup

- ★ (1) Touch the "Setup" icon



- ★ Shows all Setup menu



- ★ Output Signal : 1. 0~10V
2. PWM



- ★ Program Sunrise & Sunset:
 1. Group A for Zone A, Group B of Zone B
 2. Activate or Disable the Sunrise & Sunset function
 3. Setting the Ramp time (in range 0-60 minutes)



- ★ Bluetooth Matching Page:
Pairing bluetooth to smart phone



- ★ Help page



- ★ Custom power - Set the Customized Nominal Power of device
- Percentage (Min) - Set the Minimum dimming level allowed
- Percentage (Max) - Set the Maximum dimming level allowed

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- ★ (2) Go back to the Main Menu



- ★ Activate or Disable the SCREEN OFF . The backlight will be off if no operation in 5 minutes.

400	Default power
600	
630	
800	
1000	
315	User-defined power

- ★ There are 5 typical Nominal Power options, and one Custom Nominal Power option available



- ★ Temp. Protection
Setting the protection conditions based on ambient temperature.
 - It will automatic DIMMING DOWN to 50% when ambient temperature higher than the set level, and auxiliary relay will be switched to other side;
 - It will automatic SHUTTING OFF when ambient temperature ever higher than the set level by 10 degree.
 - It will automatic recover if ambient temperature dropped greater 5 degree than set level.

App-related instructions

This APP is recommended ios 10.0 or newer version, Android 6.0 or newer version.



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