MASTER CONTROLLER

EC2820

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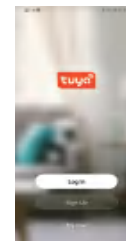
Working with 0-10v(0-11.5v) dimmable devices

● 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"buttom on the Master Controller, enter the Setup Menu

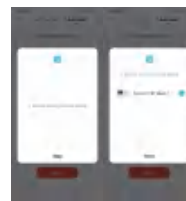4. Press the PAIR to pairing

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

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

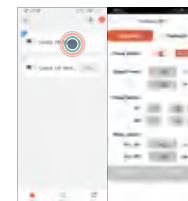7. First select Auto Discovery and OK "Turn on Bluetooth," then click "Start.Scanning"

8. NEXT if new devices found.

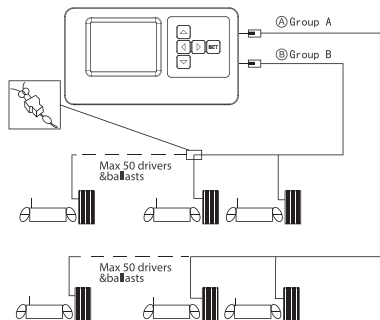9. Wait a moment until new device have been connected

10. Select the right device and go to the dashboard

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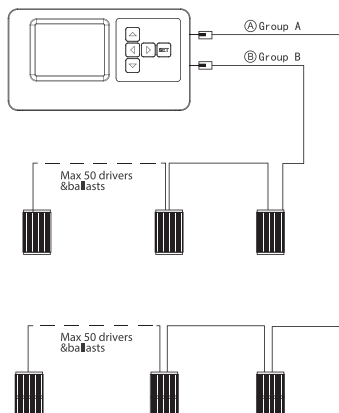
How to connecting to driver directly	
1	Make sure all fixtures are under ExternalControl mode.
2	Plug in the RJ14 cable to controller RJ port (OUTPUT).
3	Another RJ14 plug into Control Port of driver & ballast.
4	Use with RJ14 cables, Interconnect the driver &ballast to the next driver &ballast in line,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

- The Output level can be in range 0-115%
- Programing Sunrise&Sunset period
- Plug & Paly Temperature and Humidity sensor
- APP avaliable for Smart phone
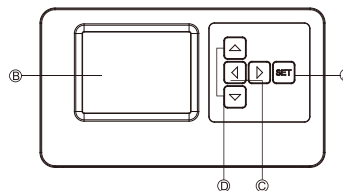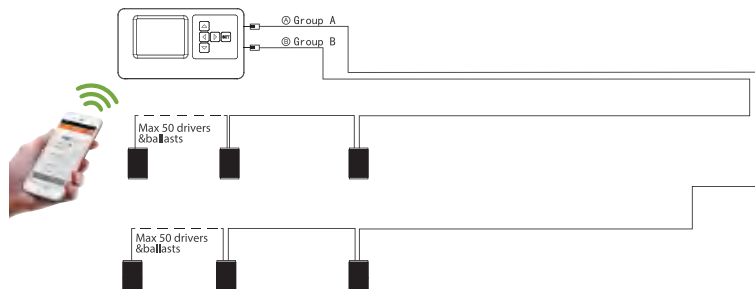
Front View		
	Button	Function
A	SET	Long PRESS for 5 secconds to awake Setup Menu
B	Display	Displays work status and menu
C	LEFT/RIGHT button	Moves cursor
D	UP/DOWN button	Changes the parameter
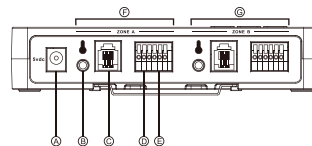
Ports	
A	Input 5vDC/2A
B	Temperature&Humidity senor input port
C	RJ Port
D	contacts for auxilury ventilation equipments
E	contacts for auxilury humidifer or dehumidifer
F	Group A
G	Group B(Same functional as Group A. Group B could be independent or following Group A)

Use steps

Setup
★ (1)Touch the"Setup"icon
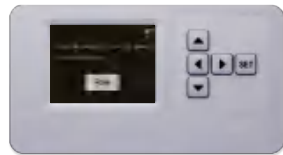
★ Shows all Setup menu

★ 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

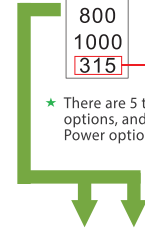★（2）Go back to the Main Menu

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

```
400
600
630
800
1000
315
```
— Default power
— 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.