

MASTER CONTROLLER

EC2821



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 100 fixtures (depends on quantity of driver or ballast)
- APP is available

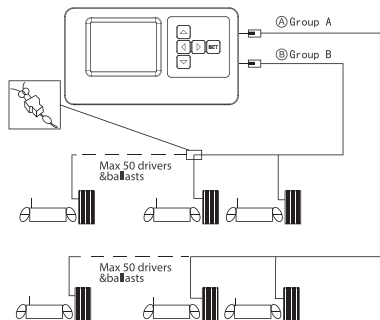
1

Connect Phone with your controller

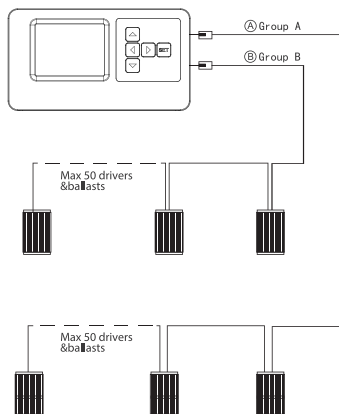


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Controller wiring diagram



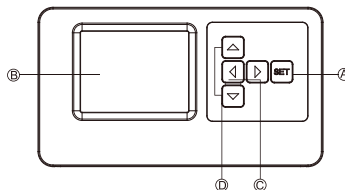
How to connecting with SPLITER	
1	Make sure all fixtures are under External Control mode.
2	Plug in the RJ14 cable to controller RJ port(OUTP UT).
3	Another RJ14 plug into spliter INPUT port. Spliter Use RJ14 cable to connect one of Spliter Output port to the Control Port of Driver&Ballast.
4	Use a RJ14 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.



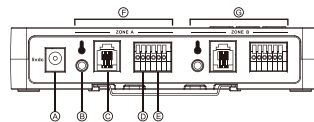
How to connecting to driver directly	
1	Make sure all fixtures are under ExternalControl mode.
2	Plug in the RJ14 cable to controller RJ port (OUTPUT).
3	Another RJ14 plug into Control Port of driver & ballast.
4	Use with RJ14 cables, Interconnect the driver &ballast to the next driver &ballast in line,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

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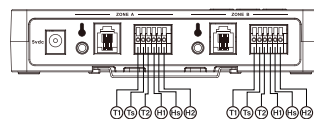
- The Output level can be in range 0-115%
- Programing Sunrise&Sunset period
- Plug & Paly Temperature and Humidity sensor
- APP available for Smart phone



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 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)



* Temperature Or Humidity Level Switch

Port Identification	T1	Ts	T2	H1	Hs	T2
Port sequence	●	●	●	●	●	●
Channel switch 【OFF】	Closed			Closed		
No probe connected		Closed			Closed	
When temp is below setting		Closed				
When temp is above setting	Closed					
When humidity is below setting					Closed	
When humidity is above setting				Closed		

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Use steps

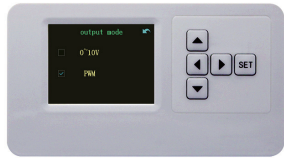


Setup

- ★ (1) Touch the "Setup" icon



- ★ Shows all Setup menu



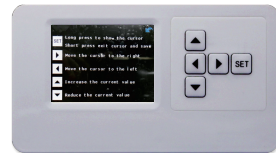
- ★ Output Signal :1. 0~10V
2. PWM



- ★ 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)



- ★ Wifi Matching Page: Pairing Wifi 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
600
630
800
1000
315

Default power

User-defined power

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



- ★ OTP - Over Temperature 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.

- ★ HLS - Humidity Level Switch

App-related instructions

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



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