PLC Lighting Master (WiFi+2.4G)
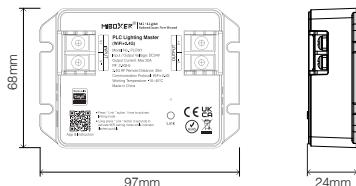
Model: PLCW1

Features

- Designed by PLC control solution, simple wiring diagram and work with wifi+2.4G wireless technology to achieve smart control.
- 16 million colors for selection, dimmable for rgb &cct& brightness
- One Master max paired with 12pcs 2.4G RF remote (control distance 30m)
- Built-in 18 dynamic mode with jumping, gradually changing (only for 2.4G remote control)
- Auto-forwarding: Automatically forward the remote control signal to another controller, making the remote control distance infinite
- Automatic synchronization: The same dynamic mode is automatically synchronized, so that the mode is always consistent
- Have DND function, usually used in power failure area and save power
- Support TUYA SMART app control
- Support third party voice control like Alexa, Google assistant, Yandex Alice, Tmall Genie, Baidu and Xiaomi
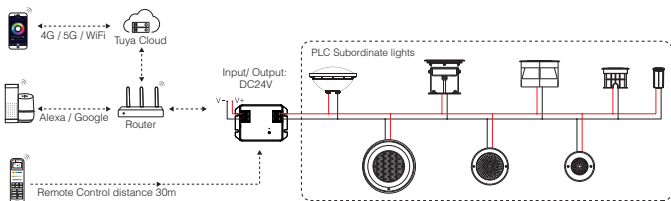
Product Parameters

Product Name:	PLC Lighting Master (WiFi+2.4G)	WiFi Standard:	IEEE 802.11b/g/n 2.4Ghz
Model:	PLCW1	EMC Standards (EMC):	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-3 V2.3.2
Input/ Output Voltage:	DC24V		
Power:	480W, 20A	Safety standards (LVD):	EN 61347-2-11: 2001+A1: 2019 EN 61347-1: 2015+A1:2021 EN 62493:2015+A1:2022
Protocol:	WiFi + 2.4GHz RF		
Control distance:	2.4G: 30m	Radio equipment (RED):	ETSI EN 300 400 V2.2.1
IP Rating:	IP20	Certification:	CE、EMC、LVD、RED
Working Temp.:	-10~40℃		

Stair light host

68mm

97mm

24mm

Connection Diagram

4G / 5G / WiFi

Tuya Cloud

Alexa / Google

Router

Input/ Output:
DC24V

PLC Subordinate lights

Remote Control distance 30m

Compatible with these 2.4G RF remote controls (Purchased separately)
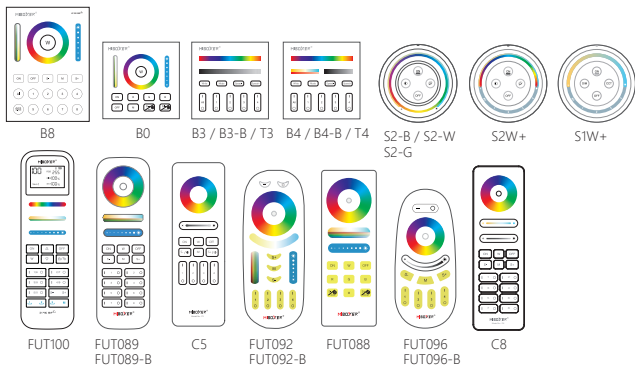
B8

B0

B3 / B3-B / T3

B4 / B4-B / T4

S2-B / S2-W
S2-G

S2W+

S1W+

FUT100

FUT089
FUT089-B

C5

FUT092
FUT092-B

FUT088

FUT096
FUT096-B

C8

Link/Unlink

Power — PLC Master	Link/Unlink	
or ⊙ Link		
1	**2**	**3**
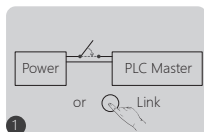
Turn off light 10 seconds and turn on again

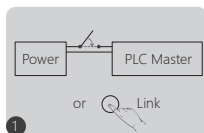short press " | " 3 times within 3 seconds

link is done once light flashes 3 times slowly

⚠ Link is failed if light doesn't flash, please repeat above steps
(Attention: can not link again if remote already finished linking)

Unlink

Power — PLC Master	Link/Unlink	
or ⊙ Link		
1	**2**	**3**

Turn off light 10 seconds and turn on again

short press " | " 5 times within 3 seconds

Lights blink 10 times quickly means unlinking is done successfully.

⚠ Unlinking failed if light is not blinking quickly, Please follow above steps again.
(Note: Light haven't linked that don't need to unlink)

Auto transmitting & Synchronization (only for remote control)

Remote signal auto transmitting

One Master can transmit the signals from the remote control to another Master within 30m, as long as there is a Master within 30m, the remote control distance can be limitless.

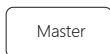Dynamic modes auto synchronization

Multi lights can synchronize if they are in same dynamic mode and linked with same remote (distance between each light is within 30m)
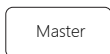
Auto transmitting /
Modes auto synchronization

Master   Distance 30m   Master   ● ● ●

Dynamic mode table selection (only for remote control)

Select dynamic mode table 1:
While the light is in static mode, short press " S+ " button 5 times quickly until blue light flashes 3 times slowly, static mode is activated successfully.

Select dynamic mode table 2:
While the light is in static mode, short press " S- " button 5 times quickly until yellow light flashes 3 times slowly, static mode is activated successfully.

*C5/ FUT096/ FUT096-B/ S2-B/ S2-W/ S2W+/ S2B+ not support to switch modes

Dynamic mode table 1 (default)

Number	Dynamic Mode	Brightness / Saturation / Speed
1	Mardi Gras	
2	Automatic color change	
3	Sam	
4	Gemstone	
5	Twilight	Adjustable
6	American	
7	Fat Tuesday	
8	Party	
9	Slow Color Splash	

Dynamic mode table 2 (need to switch manually)

Number	Dynamic Mode	Brightness / Saturation / Speed
1	Seven colors gradual change	
2	White light Gradual change	
3	RGB gradual change	
4	Seven colors jump to change	
5	Jump to change randomly	Adjustable
6	Red light gradual change +Flash 3 times	
7	Green light gradual change +Flash 3 times	
8	Blue light gradual change +Flash 3 times	
9	White light gradual change +Flash 3 times	

"Do Not Disturb" mode is activated and shut down (default activated)

Turn on "Do Not Disturb" mode (wide using in the area which have power failure frequently to save energy)

2.4G RF Remote turn on and turn off instruction

Turn on "Do Not Disturb" mode:

Press "OFF" button three times within three seconds and press "ON" button three times, Activated successfully once led light flashes four times quickly.

Attention: Do not disturb mode is activated

1. When the light is OFF status (For example: Use app or remote to turn off light)

   The light is OFF status once you turn off power and turn on again. (User must turn off and turn on power twice times to activate light or use APP / remote to activate light)

2. When the light is ON status

   The light is ON status once you turn off and turn on power one time.

Turn off "Do Not Disturb" mode:

Press "ON" button three times within three seconds and press "OFF" button three times, closed successfully once led light flashes four times slowly.

Attention: The light will be always "ON" status if you turn on and turn off power once user closed "Do Not Disturb" mode.

App turn on and off "Do Not Disturb" mode instruction
(For more details, please review point 3 in APP control instruction)

Smartphone APP control instruction

Network Configuration (Don't support 5G router)

1. Download and install [Tuya Smart] app

   Search for [Tuya Smart] in Apple or Google store or scan following QR code to download and install the app.

   Please open the app click " Register " button to create account while using it in the first time, Log in directly if you already had account.

2. Network Configuration

(1) Connect controller with power supply.
(2) Confirm indicator light is flashing quickly (2 flashes per second),
   If indicator light isn't in fast flashing state, there are two ways to enter:
   ● Long press " SET " key until indicator light flashing quickly.
   ● Power off and on controller 6 times.
(3) Connect phone with home WiFi network in the 2.4GHz frequency.
(4) Open homepage of app and click " + " button at the upper right corner of page.
(5) Click " Lighting " on the left side of page and then click " Light Source (BLE+Wi-Fi) "
(6) Follow app prompts to complete configuration.
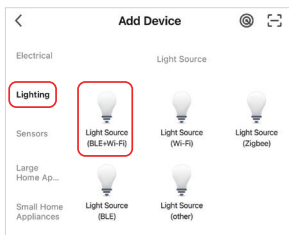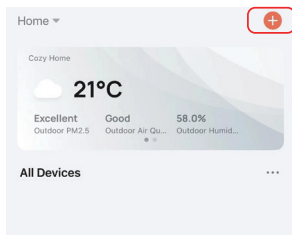
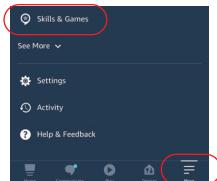## App turn on and off "Do Not Disturb" mode (default activated)

Click the light which need to be set up or group control --- click "More" --- click "Power-on behavior" --- turn on or off
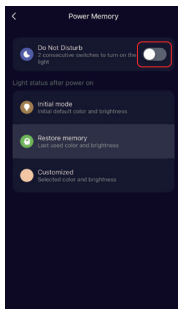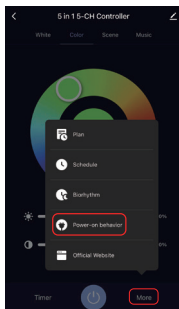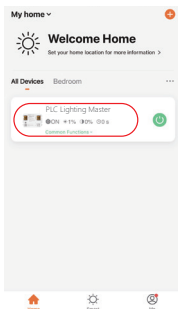
Alexa voice control instruction

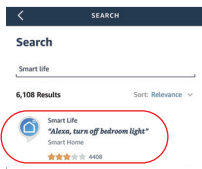Please add device into [Tuya Smart] app, then start following steps

1). Open Alexa App
2). Click "More" on the bottom of right corner
3). Click "Skills & Games"

4). Click " 🔍 " on the top of right corner
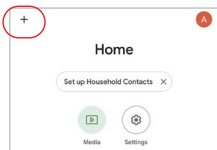5). Type into "Smart life" and search

6). Click "Smart Life" skill, follow instruction to finish configuration and start voice control

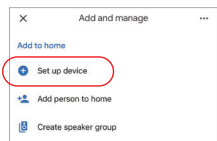# Google Home voice control instruction

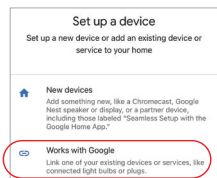Please add device into [Tuya Smart] app , then start following steps

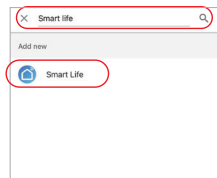1). Open Google Home App
2). Click "+" on the top of left corner

3). Click "Set up device"

4). Click "Works with Google"

5). Click " 🔍 " on the top of right corner
6). Type into "Smart life" and search

7). Click "Smart Life" skill, follow instruction to finish configuration and start voice control

Attention

1. Making sure power is off when installing products , keep safety
2. Please check if the input voltage is consistent with the device
3. Non-professional users are not allowed to disassemble the device directly, otherwise the device may be damaged.
4. Do not use the device near large metal areas or areas with strong electromagnetic waves, otherwise the control distance will be seriously affected.
5. Please do not use them in humid or high-temperature environments for a long time.

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