

YET845A-WFR Motor controller

---- RF+WiFi- V4.0 ----

User manual

➤ Features:

YET845A-WFR is a controller dedicated to electric door control, with functions such as running time setting, auto-close delay time setting, bounce upon resistance, over-current detection, limit switch and other functions. It is widely used in garage doors, supermarkets and other places.

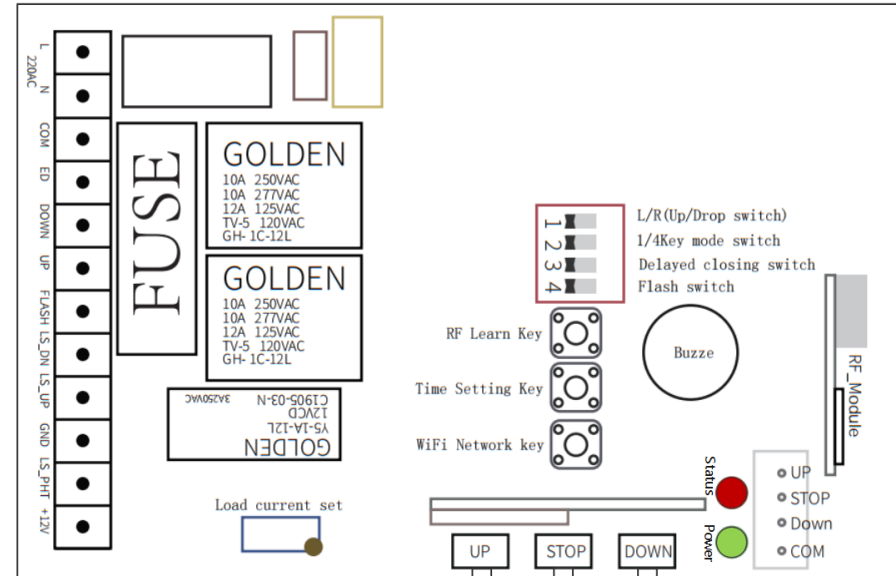
- ◆ Supporting various type of remote control on the market, including fixed code (2262, 2260, 2264, 5326, etc), learning code (1527, 2240, 6P20B, 6P20D, etc), rolling code (HCS301, HCS300, HCS200, HCS201, HCS100, HCS101, etc)
- ◆ High security, stable performance, low power consumption and easy installation: plug and play, easy to use, safe and reliable;
- ◆ Supporting WIFI and 4G connection: It can be used as a single product or networking [Multi-product] to be controlled.
- ◆ Supporting Smart Link network technology: Network configuration is simple and convenient.

➤ Product specification parameters

Input voltage	100VAC~220VAC
Contact current	10A@250VAC / 10A@277VAC / 12A@120VAC
Control output	0.5A-5A(adjusted by adjustable resistance)
Standby power consumption	<2.2W (stand-by current ≤10mA@220VAC)
Maximum runing time	4 minutes
Minimum running time	10 seconds
Wireless standard	IEEE802.11b/g/n
working frequency	2.4G ~2.5G(2400M~483.5MHz)/433MHZ/315MHZ
Encryption type	WEP/TKIP/AES
Security mechanism	WPA/WPA2
Receiver sensitivity	802.11 b: -91 dbm (11 Mbps) 802.11 g: -75 dbm (54 Mbps) 433/315 :-112 dbm
Working environment	temperature: -20℃ ~ +70℃ humidity: 20% ~ 93%
Storage Environment	temperature: -30℃ ~ +80℃ humidity: 20% ~ 93%
Remote control Memory	400 keys (equivalent to 100 pcs 4-key remote controls)
Size	122*77*40mm

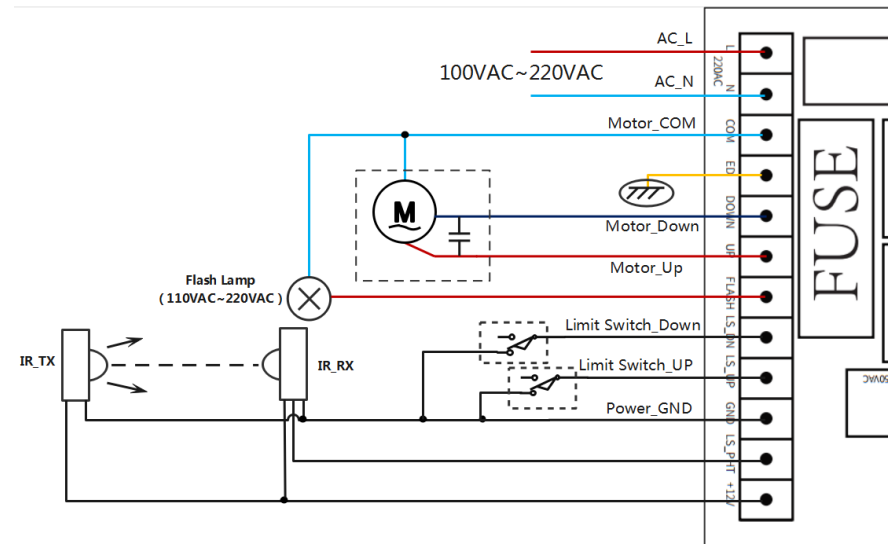
➤ Installation diagram

◆ Simplified diagram of the PCB of controller :



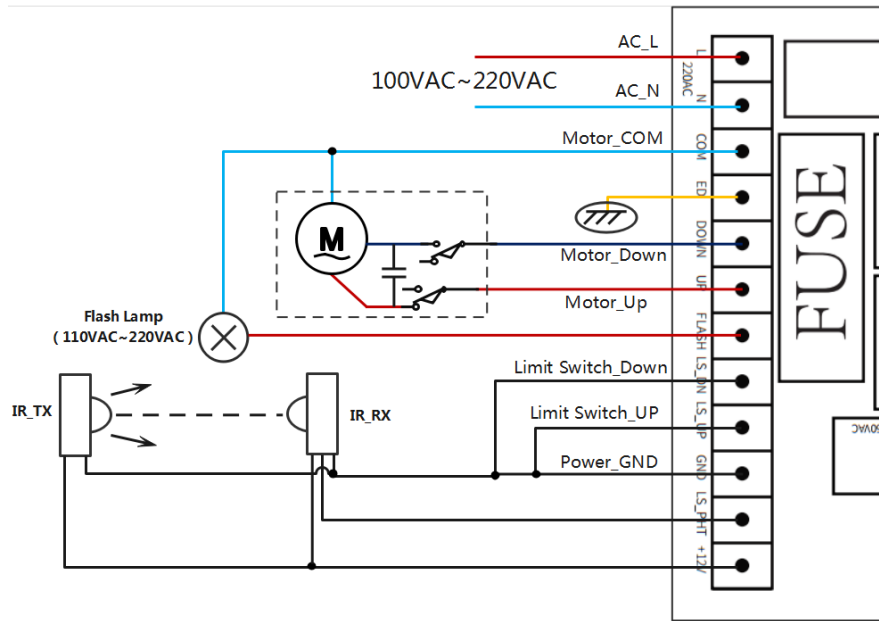
◆ Wiring diagram (一) :

When the user's motor has no upper/lower limit switch, the wiring diagram is as follows :



◆ **Wiring diagram (二) :**

When the user's motor is equipped with upper/lower limit switches, the wiring diagram is as follows :



➤ **Product function description**

◆ **Methods and steps for learning and clearing code**

✓ **Learning:**

- 1) Press RF Learn button once, LED light turns on. At this time, the key of the learning remote control is defined as the "up" key;
- 2) Press RF Learn button twice, LED light turns on. At this time, the key of the learning remote control is defined as the "down" key;
- 3) Press RF Learn button three times, LED light turns on. At this time, the key of the learning remote control is defined as the "stop/unlock" key;
- 4) Press RF Learn button four times, LED light turns on. At this time, the key of the learning remote control is defined as the "lock" key.

✓ **Clearing code (Reset) :**

Long press the RF Learn button on the controller (learning button) more than 8S, release the RF Learn button when the red LED light off, The red LED light flashes 5 times, at this time the controller related information is deleted and restored to the factory settings.

◆ **running time setting:**

After the remote control pairing is completed, you can control the door line through the B key (close key) to the remote limit, then press the TIME key on the controller, the red LED often bright, open the TIME key, press the A key (open key) of the remote control system door control link opens, the red LED and FL A SH flash lights (if the dial switch 4 is in OFF state) start to flash at 600ms bright / 600ms out frequency, the controller remains until the door is fully hit Open, then press the B(Close / Down) key within the motor acceptable time, the system exits the current state, holds the door fully open and ends the maximum running travel setting (travel time minimum 10S, max 4 minutes).

◆ **auto-close delay time setting:**

Press TIME key (setting key) on the controller, red LED often bright, open TIME key, LED remains always bright, press C(stop) key, red LED and FLASH flash lights (if dial switch 4 is in OFF state) start to flash at the frequency of 250ms on / 250ms off, the system maintains this state until C(stop) key press again, the system exits the current state, ends the setting of automatic closing delay time (valid above 5S).

◆ **Controller system mode setting (dip switch setting):**

Dip switch	position	
	ON	OFF
1	Reverse direction of rotation	Normal direction of opening and closing
2	1 key	4 Key
3	Auto-close delay : YES	Auto-close delay : NO
4	Lighting mode	Flash light mode

The user sets the relevant modes according to the actual application, and their functions are explained as follows :

- ✓ **Direction switching:** refers to the setting of the motor running direction. When installing and debugging this product, when the control direction is inconsistent with the running direction of the electric door, the direction can be switched by changing the DIP switch;
- ✓ **Four-button independent function:** the four buttons of remote control on, off, pause and lock indicate the corresponding functions;

- ✓ 1 key cycle: every time you press the remote control "door open key (up key)", the controller state switches back and forth between open, stop, close, stop, and open;
- ✓ Auto-close delay: When this function is enabled, when the door is opened, the controller will automatically close the door after the set delayed door closing time;
- ✓ Flashing light on: When the electric door is closed, the flashing light flashes quickly, and the flashing light flashes slowly when the door is opened;
- ✓ Flashing light off: When the electric door is running, the flashing light is always on.

◆ **Load overcurrent detection setting:**

When the user actually installs the controller, must understand the actual power of the motor, and adjust the resistance of the adjustable resistance to adjust the load current of the motor (0.5A-5A adjustable) to suit the user's motor drive [recommended from the maximum loadAdjust the current].

◆ **Limit detection function:**

- ✓ Upward limit: The external limit switch must be **NC** (normally closed) (refer to the wiring diagram). When the controller controls the electric door to go up (open the door) and triggers the upward limit switch, the controller stops opening the door. At this time, the electric door moves up (opens the door) to the maximum position.
- ✓ Downward limit: The external limit switch must be **NC** (normally closed)(refer to the wiring diagram). When the controller controls the electric door to go down (close the door) and trigger the downward limit switch, the controller stops closing the door. At this time, the electric door goes down (door closed) to the maximum position.

◆ **Rebound function in case of resistance:**

The input of the resistance switch must be normally closed (that is, the low level is effective).When the controller controls the electric door to fall, if the resistance switch is triggered, the controller will bounce when it encounters resistance.

◆ **Lighting function of the controller:**

This product can use the FLASH flashing light as the lighting function, which can meet the user's lighting application. The specific setting method is as follows:Turn DIP switch 4 (F/L) to ON state.

➤ **Operating instructions**

After the system is powered on, it is in the open (uplink) stop state, waiting to receive a valid remote control signal, and execute the corresponding action after receiving the valid remote control signal, as described in detail below:

◆ **4KEY (four-key independent) mode:**

In this mode, press the "A (door open/up), B (close/down), C (stop)" three buttons on the learned remote control to realize the functions of opening, closing and stopping the electric door.

✓ Open door (upward) operation:

When the door is not fully open or not in the process of opening (up), you can press "**A (open/up)**" on the remote control to control the system's door opening (up) action to realize the electric door opening (up) functions.;

✓ Close door (downward) operation:

When the door is not fully closed or not in down mode, you can press "**B (close /down)**" on the remote control to control the system's door closing (down) action, and realize the function of electric door closing (down)

✓ Pause operation:

When opening the door (upward) or closing the door (downward), you can press the "**C(stop)**" on the remote control to control the system to pause and realize the function of stopping the electric door;

◆ **1KEY (one key) mod:**

In this mode, press the "A (door open/up)" control system on the learned remote control and realize the cycle functions of opening (up), stop, closing (down), stop, and opening (up) of the electric door.

◆ **Lock/unlock mode:**

The lock function can effectively prevent misoperation of the remote control. When the lock function is executed, short pressing any button on the remote control is invalid and the controller is locked.

✓ Lock the controller:

Long press the "**D (lock)**" button for 3S, the controller status red LED and FLASH flashing light will act once (the flashing light needs to be turned on), the controller is locked, short pressing any button on the remote control is invalid;

✓ Unlock the controller:

Long press the "**D (lock)**" button of the learned remote control for more than 3S, the red LED and FLASH of the controller will flash twice (the flash must be turned on), the controller will be unlocked, press the button on the remote control to operate the door opening (upward) and closing (downward) of the electric door normally.

◆ **FLASH lighting operation**

Short press the "**D (lock)**" button of the learned remote control to switch the flash on/off state (when the flash function is off, that is, the dial 4 is valid in the ON state); after 5 minutes, if it is not closed, it will be closed automatically.

(During the lighting FLASH is on, if you press the off and stop actions, the delay time will be cleared and the delay time will be 5 minutes again).

➤ **Notes:**

- 1) When the electric door is closing (down), if the user switches to open (up) or stop, the maximum running time will be reset; if the electric door encounters an obstacle, the system will delay 0.5S before starting control The electric door opens (upward) action.
- 2) During the door opening (upward) process of the electric door, if the user switches to closing the door (downward) or stops, the maximum running time will be reset.
- 3) When using the AC auto-delayed door closing function, the system starts timing and automatically closes the door; if the user presses the "C (stop)" button on the remote control during timing, the system timer will be cleared and restarted.
- 4) Status indicator description:
The controller power-on default status indicator flashes at a frequency of 1S, and flashes quickly at a frequency of 250MS during the shutdown process, and restores to the default state after the shutdown is completed; flashes at a frequency of 600MS during the startup process, and restores the default state after the shutdown is completed (When the FLASH flashing light is turned on, it is synchronized with the status indication).
- 5) When learning the remote control, the motor must be stopped; the effective time interval of continuously pressing the learning button is 1 second, and the controller will execute the corresponding function if the time interval is exceeded.

➤ **APP download and operation presentation instructions**



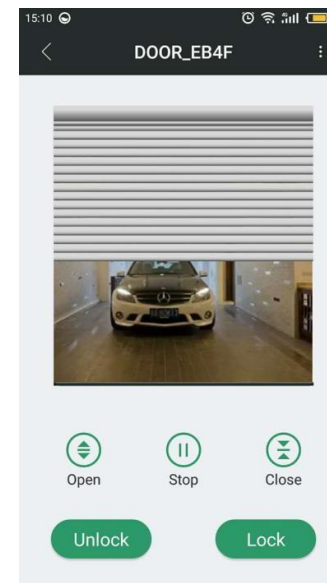
download the App)



(download the operation demonstration video)

◆ **Product master control page:**

When you successfully add a new device, click the new device added, will enter the main control page of this product, you can enjoy the fun and convenience of this intelligent product.



➤ **FAQs**

Q1: Why does LED keep flashing slowly after failing to add device?

Flashing slowly means the device is connecting WIFI router, if it connects over 60 seconds, it's failed. Under this situation, you may have entered wrong WIFI password or data error during transmission. So users have to check the network of your phone or WIFI router, make sure wifi router haven't set connecting restriction, then try to reconfigure it again.

Q2: Why does the device can't be controlled suddenly?

- a. Please check whether Wi-Fi password is changed, then check the state of LED. If it flashes slowly, it means the device is disconnected with WIFI router. Just reconfigure it;
- b. The device's IP address assigned by router changes due to network, and results in the actual IP address inconsistent with the IP address saved by APP. With this situation, just exit then reset the APP to re-obtain device information.

Q3: Unable to get WiFi name when APP is connected to the network (SSID is not displayed)

Open the "location" permission (some mobile phones are called "positioning" permission), and open the "location information" of the notification bar (some mobile phones are called "GPS"), the specific name is related to the mobile phone system.

Q4: After the APP switches WiFi to data flow (or other WiFi), the device cannot be controlled

a. Switch the flow rate, refresh the device list, the device is online, wait a few seconds and enter the device control interface, the device can be used normally.

b. Switch the flow, refresh the device list, the device is not online. The device is out of control. Cause: disconnect between the device and the server.

Q5: Some brands of routers can't connect WiFi devices

Turn on the 2.4G wireless network and change the mode to 11BG Mixed

Q6: Account login expired (IOS), login prompt

The default calendar on the user's mobile phone is Buddhist calendar. Change the calendar to Gregorian calendar.

IPhone: Settings - > Language and Region - >; Calendar - > The Gregorian calendar.

