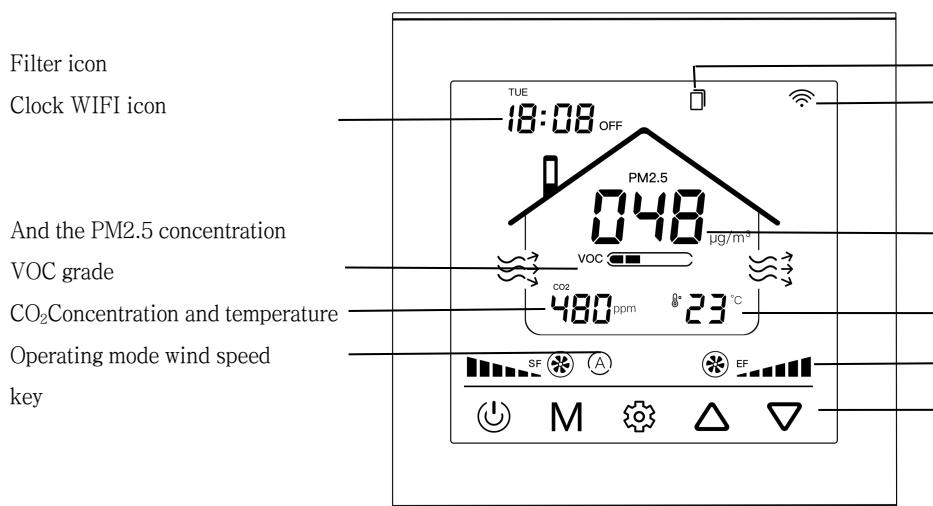


DC controller instructions

Product overview

intelligent controller adopts touch button technology, flexible and convenient operation. The built-in sensors can monitor the indoor temperature, humidity, PM2.5 concentration, and CO₂ concentration in real time. Concentration detection function, controller output signal directly control the start and speed of the new fan, can be widely used in residential, commercial and industrial occasions, and can effectively improve the air quality, create a healthy, comfortable, efficient, environmental protection, energy-saving living and working environment.

explicit declaration



Detailed operation instructions

1. Switch: open the controller, display the LCD to control the operation of the fan; close the controller again, display OFF, and the output is off.
2. **Adjust the working mode:** short press the M key to switch the automatic~manual~timing working mode.
3. **Manual mode:** short button to adjust the fan wind speed, short button to adjust the exhaust fan wind speed.
4. **Timing mode:** run according to the set time and wind speed, can set Monday to Sunday, 4 periods per day, a total of 28 periods.
5. **Automatic mode:** the controller according to the air quality condition (PM2.5 and CO₂ Concentration): automatic speed regulation and

wind speed

	PM2.5	CO ₂	remarks
6 File	(Concentration-set point) 80 u g/m3	(Concentration-set point) 800ppm	Any condition is met
5 File	79 u g/m3 > = (concentration-set point) 60 u g/m3	799ppm > = (concentration-set point) 600ppm	
5 File	59 u g/m3 > = (concentration-set point) 40 u g/m3	599ppm > = (concentration-set point) 400ppm	
3 File	39 u g/m3 > = (concentration-set point) 20 u g/m3	399ppm > = (concentration-set point) 200ppm	
2 File	19 u g/m3 > = (concentration-set point) 0 u g/m3	199ppm > = (concentration-set point) 0ppm	
1 File	Concentration < set value	Concentration < set value	Two conditions are

6. Automatic mode setting point: Enter the long button for 3 seconds in automatic mode  Setpoint setting, which originally displayed the CO₂     The concentration position will display the set value and flash, modify the set value through the key; the automatic mode enters the PM2.5 set setting for 3 seconds. Originally the PM2.5 concentration position will display the set value and flash, modify the value through the key; after 10 seconds, the controller will automatically save the set parameters and return to the normal working state.

       7. Timing parameter setting: the long button enters the timing parameter setting for 3 seconds, first enter the local time correction, switch week, hour and minute, the corresponding parameters will blink, and modify the value. After the local time correction, short press the M key to enter the hour setting of Monday time, switch hour, minute and wind speed through the value; click the M key to enter the Monday time 2 setting..., repeat the previous steps until all 28 times. If the key is not operated for more than 10 seconds during the setting process, the controller will automatically return to the normal operating state and save the setting parameters.

9. Filscreen prompt: After the fan starts the filter starts, when the filter screen exceeds the set maximum service time, the filter screen icon is flashing to replace or clean the filter screen; in the timing mode, the original clock position shows the working time (hours); in the timing mode, start the timing again.   

    10. Maximum use time of the filter screen: in the manual mode, the filter time will display the original display clock position and flash the setting time, adjust the setting time through the keys and keys, the setting range is 100-2999 hours, exit the setting state and save the setting value.

  11. Child lock function: press and hold the key and key at the same time for 3 seconds, open or close the child lock function, after the child lock is opened, the "" icon is lit, and the button is invalid. 

12. Backlight: the backlight is lit when there is key operation, after 60 seconds without key operation, the backlight will automatically dimmer.

 13, RS485 mailing address setting: the long button for 5 seconds to enter the 485 address setting, the original display of CO₂   The concentration position displays the address setting value and flashes, modify the value through the key; after 10 seconds, the controller automatically saves the set parameters and returns to normal working state.

 14. The controller is connected to WIFI network: scan the QR code of the distribution network below to download the "Doodle" APP, open the APP to register your account and log in. Long press M key for 5 seconds to let the device enter the distribution network state (the icon is quickly flashing), then click the "+" icon in the upper right corner of the APP to add equipment-small appliances-new fan, press the APP prompt to complete the WIFI network. After the distribution network is successful (the icon is always bright), it can be remotely controlled through the APP. 

technical parameter

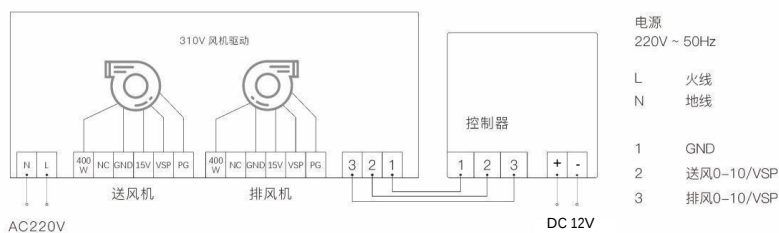
* outline dimension: 86*86MM	* preheating time: 1 Minutes
* Installation hole distance: 60mm (standard)	* response time: Admito 10 seconds
* Terminal terminal: 2.5 mm max ² Lead	* Recovery time: Admito 30 seconds
* rated voltage: DC 12V	* working temperature: -10°C --- +50°C
* standby power consumption: ≤3.0W	* Operating humidity: 5% RH — 90% RH (not)

Kidman Fresh air system LCD controller manual

- * Control power: $\leq 200W$
- * Temperature display range: $0^{\circ}C$ — $50^{\circ}C$
- * PM2.5 display range: $1 \mu g / m^3$ — $999 \mu g / m^3$
- * Storage temperature: $-10^{\circ}C$ --- $+60^{\circ}C$
- * Storage humidity: $\leq 60\%RH$
- * life length: Adventitia 10 years
- * CO₂Display range: 350 — 1999 ppm

Installation and wiring diagram WIFI QR code

* X-90K



Communication interface: RS485 MODBUS RTU

- 1, communication serial port configuration: 8 bit data bit, 1 bit stop bit, no check, baud rate: 9600bit / s
2. Support instruction: 0X03 0X06 0X10
3. Register address

name	Register address (2 bytes)	Register value domain (2 bytes)	attribute	remarks
Startup & Shutdown	0x00	0x00 turn off 0x01 turn on	Read / write	
work pattern	0x01	0x01 Auto 0x02 manual 0x03 is timed	Read / write	
Wind speed of transmission fan	0x02	0x00 Close 0x01 10x02 2 0x03 3 gear 0x04 4 gear 0x90K 5 gear 0x06 6th gear	Read / write	Write itable in manual mode
Air speed of exhaust fan	0x03	0x00 Close 0x01 10x02 2 0x03 3 gear 0x04 4 gear 0x90K 5 gear 0x06 6th gear	Read / write	Write itable in manual mode
bypass-valve	0x04	0x00 off 0x01 on	Read / write	reserve
Filter alarm time	0x90K	100-2999	Read / write	
Filter running time	0x06	0-Filter screen alarm time	Read / write	Write 0 xaa clear filter time
CO2 Concentration setting value	0x07	350-1500	Read / write	reserve
PM2.5 concentration	0x08	1-200	Read /	

Kidman Fresh air system X-90K LCD controller manual

setting point			write	
CO2 concentration values	0x09	400-1999PPM	read only	reserve
The PM2.5 concentration value	0x0a	0-999ug/m ³	read only	
VOC class of pollution	0x0b	0x03 bad in 0x00 good 0x01 good 0x02 0x04 is extremely poor	read only	
temperature	0x0c	0-60	read only	
humidity	0x0d	0-100	read only	reserve

name	Register address (2 bytes)	Register value domain (2 bytes)	attribute	remarks
Blower blower 1-gear voltage	0x 64	0-100	Read / write	1 represents 0.1V
Bblower 2 voltage	0x65	0-100	Read / write	1 represents 0.1V
Bblower 3 voltage	0x66	0-100	Read / write	1 represents 0.1V
Bblower 4 voltage	0x67	0-100	Read / write	1 represents 0.1V
Bblower 5 voltage	0x68	0-100	Read / write	1 represents 0.1V
Bblower 6 voltage	0x69	0-100	Read / write	1 represents 0.1V
The 1-gear voltage of the exhaust fan	0x6a	0-100	Read / write	1 represents 0.1V
2-gear voltage of the exhaust fan	0x6b	0-100	Read / write	1 represents 0.1V
The 3-gear voltage of the exhaust fan	0x6c	0-100	Read / write	1 represents 0.1V
The 4-gear voltage of the exhaust fan	0x6d	0-100	Read / write	1 represents 0.1V
The 5-gear voltage of the exhaust fan	0x6e	0-100	Read / write	1 represents 0.1V
The 6-gear voltage of the exhaust fan	0x6f	0-100	Read / write	1 represents 0.1V

WIFI Function operation instruction

First, the controller is connected to the WIFI network: the mobile phone scans the following QR code of the distribution network to download the "Doodle" APP, open the APP, register an account and log in as prompted. Long press the M key for 5 seconds to make the device enter the distribution network state (the icon flashes quickly), then click the "+" icon in the upper right corner of the APP to add the device - small household appliances - new fan, follow the instructions on the APP to complete the connection to the WIFI network, after the distribution network is successful (the icon is steady on), you can remotely control the device through the APP.



APP 二维码

显示区



操作区



链接成功后显示页面

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.