

# K2 Automatic Door Controller

## Debugging User Manual



## **Safety instructions:**

The following is about the correct use of the product, to prevent danger and property damage.

Please read this manual carefully before using the equipment and strictly follow it during use. After reading, please keep the manual properly.

## **Environmental requirements for use:**

Please transport, use, and store the equipment within the allowed humidity and temperature range.

Please install the device in a well ventilated area and do not block the ventilation openings of the device.

Please pack the equipment in its original packaging or materials of equivalent quality when transporting it.

Suggest grounding the grounding holes on the equipment to improve its reliability.

## **Operation and maintenance requirements:**

Please do not disassemble this device without authorization.

Please use the accessories or attachments specified by the manufacturer and have them installed and repaired by professional service personnel.

## **Product features:**

Safety: Powered by a 24V DC power supply, ensuring personal safety.

Energy saving: Static power less than 2 watts, can be connected to a motor with a maximum power of 150W;

Adjustable speed: The opening and closing speed can be independently adjusted.

Stable work: Multi speed design ensures smooth and efficient work performance.

Quiet: The working noise is below 50db;

Multiple protections: motor overcurrent, overload, short circuit protection, motor fault protection, power reverse connection protection;

Electrical Parameters			
power supply	DC24V ±10% 8.5A	Motor power	150W
static power	2W	Door opening and closing speed	3-6S
Red and Green light voltage	DC12V	LED strip voltage	DC24V
Remote control frequency	430MHz	Remote control distance	≈15m
Operating temperature	-35°C ~ 75°C	Operating humidity	30% ~ 80%

## Button Description:

### “OPEN/+”:

Under normal working conditions, pressing this button can open the door. After entering the setting state, you can use this button to add menu items and adjust the setting value upwards. In the parameter setting state, short press to add one each time. Long press to continuously increase to the maximum value and then increase from the minimum value. If you press and hold for a long time, continuous acceleration will occur.

### “CLOSE /-”:

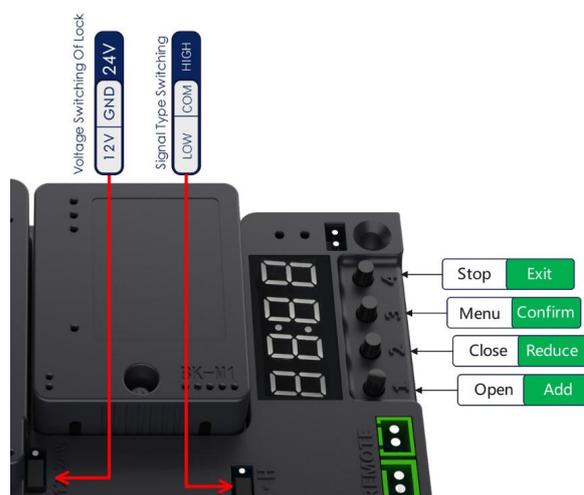
The opposite of the open function.

### “MENU”:This key has three functions:

1. In normal working mode, long press the key for 3 seconds to enter the menu item selection state, and the LED displays "P-XX". At this time, you can press the "OPEN/+" and "CLOSE/-" keys to select the menu item;
- 2.Short press "Menu" in the menu selection state to enter the parameter setting state;
3. After setting the parameters, short press to save and exit.

### “STOP/ CANCEL”:

During normal operation, this button serves as a stop function. When the menu item is selected, it is in the exit setting state. When the parameter setting state is set, pressing this button will exit the state and return to the menu selection state, that is, return to the previous level menu. At the same time, the set value is invalid. If there is no button operation within 60 seconds in the menu selection state and parameter setting state, the buzzer will sound once and the controller will return to normal working state.



## Display:

After powering on, it operates in low-power mode, and the LED display brightness is relatively dim at this time. Pressing any button will cause the LED display to enter normal working mode, with the LED highlighted. If there is no button, it will enter low-power mode after 60 seconds, and the LED brightness will dim to reduce power consumption.

## Parameter settings:

You can enter the parameter setting mode by long pressing the "Menu" button for 3 seconds, and the LED will display "P-XX". Select menu items by short or long pressing the "OPEN/+" and "CLOSE/-" buttons. Short press once to add or subtract one, long press continuously to add or subtract.

Press the "Menu" button again to enter the settings of the specified item, and press the "Stop/Cancel" button to return to the previous level or exit the settings.

After setting the specified parameters, you must press the "Menu" key to confirm before it can take effect. The parameters set by pressing the 'stop/cancel' button will not take effect.

If there is no button pressed within 60 seconds, the buzzer on the controller will beep once, exit the setting state, and return to normal working state.

## Jumper cap description:

The controller has 2 jumper caps. Used to select the voltage of the magnetic lock and the type of door opening signal for access control. There are detailed text annotations on the board for each location that requires jumper wires.

**12V/24V:** Select the power supply voltage according to the specifications of the magnetic lock used.

**Relay signal/voltage signal:** Select based on the output signal of the access control. The relay signal is a digital signal. If the access control output is relay door opening, select relay door opening. The voltage signal is the access control output voltage of 5-24V.

## Quick functions:

**【normally open mode】** after the door is fully opened, press and hold the remote control "stop" for 5 seconds to enter normally open mode, and press "close" to cancel the normally open function;

**【Cancel the Human body sensor opening mode】** After closing the door in place, long press and hold the remote control to "close" for 10 seconds, and the human body induction opening function will fail. Press "open" to release this mode;

## List of functional parameters:

P-00 Speed of opening the door	P-24 Duration required for motor reversal	P-48 Delay the duration of turning off the lights
P-01 Speed of closing the door	P-25 Duration required for motor stop	P-49 Set the timeout duration for opening and closing doors
P-02 The angle at which deceleration begins when opening the door	P-26 Learning remote control mode selection	P-54 Bluetooth Settings
P-03 The angle at which deceleration begins when closing the door	P-27 Restore factory settings	P-55 Voltage value for automatic operation after power off
P-04 Duration of door opening acceleration	P-28 The power to lock the motor	P-56 The mode for automatic operation after power off
P-05 Duration of door closing acceleration	P-29 The duration of locking the motor when the door is fully opened	P-57 The mode of screen display
P-06 End speed of door opening	P-30 The duration of locking the motor when the door is fully closed	P-58 Times of the door automatically closes after manual pushing
P-07 End speed of door closing	P-31 IN1 Port function expansion	P-59 Overcurrent protection value
P-08 The angle at which the door runs at a low speed and constant speed when opening	P-32 IN2 Port function expansion	P-60 Value of motor power limit
P-09 The angle at which the door runs at a low speed and constant speed when closing	P-33 automatic testing	P-64 The type of the door
P-10 The angle of braking when closing the door	P-34 count mode	P-65 The duration of master-slave door opening delay

P-11 The duration of braking when closing the door	P-35 The angle at which the human detection function stops when closing the door	P-66 The angle of master-slave door waiting
P-12 The speed of starting when power on	P-36 The angle at which the human detection function stops when opening the door	P-67 Effective angle of magnetic lock
P-13 Learn Remote Control	P-37 Human detection buzzer frequency	P-68 The strength of rebound when encountering obstacles when opening the door
P-14 The duration for which the door remains open	P-38 Effective duration of control signal	P-71 Stop port reuse
P-15 Duration of the door opening delay	P-39 The type of Electric lock	P-72 Light port mode
P-16 Learn the angle of opening the door	P-40 485 baud rate	P-73 Working mode of alarm light
P-17 The strength of locking the door when it's fully closed	P-41 485 device number	P-74 The operating frequency of the alarm light
P-18 The sensitivity of rebound when encountering obstacles	P-42 485 master-slave mode	P-75 Alarm function when manually pushing open the door
P-19 The strength of rebound when encountering obstacles	P-43 485 sends status information	P-76 The mode of traffic light
P-20 Effective angle for rebound when encountering obstacles	P-44 Door opening priority function	P-77 Super strong rebound function when encountering obstacles
P-21 Normal Open Mode	P-45 Environmental light intensity	P-78 Push to open function
P-22 Motor type	P-46 Light sensing trigger value	P-79 Motor reverse function when opening the door
P-23 Direction of opening the door	P-47 Delay the duration of turning on the lights	

## Function Explanation:

Menu	Funciton	Default Value	Range	Funciton Explanation
P-00	Speed of opening the door	35	10-100	The lager the value,the faster the speed;the smaller the value,the slower the speed;
P-01	Speed of closing the door	35	10-100	Same as the description of door opening speed
P-02	The angle at which deceleration begins when opening the door	60	10-90	Used to set the starting point for deceleration during the door opening process. In terms of angle, when the door is closed, it represents 0 degrees, and when the door is fully opened, it represents 90 degrees. This parameter indicates that the deceleration begins when the small door is opened at this angle.
P-03	The angle at which deceleration begins when closing the door	40	0-80	Used to set the starting deceleration position during the door closing process. In terms of angle, when the door is closed, it represents 0 degrees, and when the door is fully opened, it represents 90 degrees. This parameter indicates that the deceleration begins when the small door is closed at this angle.
P-04	Duration of the door opening acceleration	100	0-255	The time required to accelerate the door opening speed to the P-00 setting (the larger the value, the longer the time). (Unit: 0.01 seconds)
P-05	Duration of the door closing acceleration	100	0-255	The time required to accelerate the door closing speed to the P-01 setting (the larger the value, the longer the time). (Unit: 0.01 seconds)
P-06	End speed of door opening	15	1-80	End the door opening at this speed. The higher the value, the faster the speed. If the speed is too fast, it may cause the door to shake when it finishes opening. In this case, the value can be reduced.
P-07	End speed of door closing	15	1-80	Close the door at this speed. The higher the value, the faster the speed. If the speed is too fast, it may cause the door to collide during the closing process. In this case, the value can be reduced. If the door cannot be closed, the value needs to be increased.
P-08	The angle at which the door runs at a low and constant speed when opening	90	45-90	When opening the door, the door will first accelerate to P-00, then begin to decelerate at P-02, stop decelerating at this option, and enter low-speed uniform motion until the door is opened.
P-09	The angle at which the door runs at a low and constant speed when closing	2	0-45	When closing the door, the door will first accelerate to P-01, then begin to decelerate at P-03, stop decelerating at this option, and enter low-speed uniform motion until the door is closed.

Menu	Funciton	Default Value	Range	Funciton Explanation
P-10	The angle of breaking when closing the door	0	0-30	Close the door at the closing speed starting from this position. If there is a large vibration when closing the door, the value needs to be reduced. If it is 0, do not brake.
P-11	The duration of breaking when closing the door	0	0-255	Close the door at the closing speed starting from this position. If there is a large vibration when closing the door, the value needs to be reduced. If it is 0, the braking time when closing the door will not be applied. The unit is 0.01 seconds, and a braking point will be set at the angle of closing the door. If the speed of closing the door and the starting position of the door buffer are both adjusted to their limit values, the door still vibrates greatly. In this situation, the door inertia is generally high, and a braking time can be set, which defaults to 0, meaning no braking.
P-12	The speed of starting when power on	35	10-80	After powering on the control board, it is necessary to search for the origin position at a certain speed. If the speed after powering on is too high or too low, this parameter can be set. The larger the number, the higher the speed.
P-13	Learn the remote control	0	0-60	Remote Control Learning: When entering P-13, the current number of saved remote controls will be displayed. At this time, press the on, off, and stop buttons of the remote control in order to learn. Be sure to keep pressing until the control board makes a "beep" sound and releases the button, until the control board makes a long "beep" sound or the number displayed on the digital tube increases by one, indicating that the learning is complete. You can continue learning the next one or press cancel to return. Remote control deletion: Under this menu, press "+" or "-" to modify the learned remote control value, click the "menu button" to confirm, and delete the learned remote control after the value.
P-14	The duration for which the door remains open	5	0-255	After the door is opened, it stays for a specified time and automatically closes. If it is 0, the door will not automatically close. Unit 1 second.
P-15	Duration of the opening delay	1	0-100	Range 1-100, unit: 0.1 seconds, default 1. The time to wait for the release of the magnetic lock.

Menu	Funciton	Default Value	Range	Funciton Explanation
P-16	Learn the angle of opening the door	0	0-0	Enter the settings display L-00, automatically find the door closing limit, stop when in place, display L-01, the user manually presses the "on/off" button to find the door opening position, presses OK to confirm and save the door opening position.
P-17	The strength of locking the door when it's fully closed	20	0-60	<p>Range 0-60, default: 0. The main function of this parameter is to confirm the door is closed again after it is fully closed. Ensure that the magnetic lock can be locked.</p> <p>0: When the door is about to close in place, the magnetic lock will be opened in advance, which will cause a loud impact sound when closing the door. The advantage is that the door will not bounce back.</p> <p>Greater than 0: The magnetic lock is only opened after the door is in place, and the sound of closing the door is relatively low in this situation. After the door is locked, it will be confirmed twice that the door is closed. The larger the value, the greater the force required for secondary confirmation of closing the door. If the door lock cannot be locked, the value can be increased.</p>
P-18	The sensitivity of rebound when encountering obstacles	5	1-40	The time of encountering obstacles is judged as obstruction. (Unit: 0.05 seconds)
P-19	The strength of rebound when encountering obstacles	30	1-100	The amount of resistance encountered is confirmed as encountering resistance. The rebound condition is to encounter the resistance set by P-19 and continue for the time set by P-18, then open the door and rebound.
P-20	Effective angle for rebound when encountering obstacles	10	0-90	When the closing angle is less than this option angle, there will be no rebound when encountering obstacles, and 0 means this function is turned off.
P-21	Normal open mode	0	0-3	<p>0: Normal remote control mode (Method for temporarily entering normally open mode in normal remote control mode: When the setting value is 0. After the small door is fully opened, you can press and hold the stop button on the remote control for more than 5 seconds to temporarily enter normally open mode, and the buzzer will beep for 2 seconds. Press close to exit normally open mode and close the barrier gate);</p> <p>1: Remote control "on" enters the normally open mode, and the human body sensing signal will not be processed before manually pressing the close button, keeping the door open;</p> <p>2: In manual mode, all door opening actions on the motherboard will enter normally open mode, triggering human body sensing to not close the door;</p> <p>3: Close the normally open mode.</p>

Menu	Funciton	Default Value	Range	Funciton Explanation
P-22	Motor type	0	0-3	Value range: 0-3; Default: 1; Due to the Hall polarity of the motor, the different reduction stages of the small door movement, and the distinction between left and right opening small doors. So this parameter is used to be compatible with various types of motors and small doors. 0: Positive polarity of motor, positive polarity of reducer; 1: Positive polarity of motor, negative polarity of reducer; 2: Motor negative polarity, reducer positive polarity; 3: Motor negative polarity, reducer negative polarity.
P-23	Direction of opening the door	0	0-1	Value range: 0-1, default: 0. 0: the left door,1 : the right door.
P-24	Duration required of the motor reversal	60	10-255	The buffer time for closing the door during the opening process, as well as the buffer time for opening the door during the closing process. A short time can easily lead to excessive instantaneous current, while a slightly longer time results in a smoother transition. (Unit: 0.01 seconds)
P-25	Duration required of the motor stop	60	10-255	Press the stop button when opening or closing the door, and the time required for the motor to move from motion to stop. If the value is too high, it will stop very slowly and steadily. If the time is too short, it is easy to cause excessive instantaneous current. (Unit: 0.01 seconds)
P-26	Learning remote control mode selection	0	0-4	0: Press the on, off, and stop buttons in sequence to complete the learning; 1: Press any button to finish learning;
P-27	Restore factory setting	0	0-255	This option has three functions: clearing the remote control, partially restoring factory settings, and fully restoring factory settings. To prevent accidental operation, it is necessary to set specific values and then press the "Menu" key to complete the operation. 5: Clear remote control; 10: Restore factory settings (remote control and motor type not restored); 15: Completely restore factory settings.
P-28	The power to lock the motor	255	0-30	When the motor stops before reaching the switch in place area, the controller outputs control to lock the door, which may cause the motor and board to overheat. It is recommended to set it according to the actual situation and not too large. When the setting value is 255, it automatically adapts to the locking power.

Menu	Funciton	Default Value	Range	Funciton Explanation
P-29	The duration of locking the motor when the door is fully opened	0	0-255	How long does it take to turn off the lock motor when the small door is fully opened. (Unit: seconds) When the set value is 255, the motor will remain locked when fully turned on without timing.
P-30	The duration of locking the motor when the door is fully closed	0	0-255	How long does it take to turn off the lock motor when the small door is fully closed. (Unit: seconds) When the set value is 255, the motor will remain locked until it is fully closed without timing.
P-31	In1 port function expansion	2	0-7	<p>Range: 0-7, default: 2, this parameter is used for the human body sensing port IN1, set to different values, and has different functions.</p> <p>0: Prohibited;</p> <p>1: Human body sensing function, close the door immediately if no person is detected;</p> <p>2: Human body sensing function, closing the door after a delay of holding time when no person is detected;</p> <p>3: After the door is closed in place, external signal input is received, and no detection is performed during the closing process;</p> <p>4: Enable the function, the "access control+" and "access control -" interfaces are valid;</p> <p>5: Open the function, the "access control+" and "access control -" interfaces are invalid;</p> <p>6: Close;</p> <p>7: Stop;</p>
P-32	In2 port function expansion	2	0-7	<p>The same as p-31.</p> <p>If either parameter, P-31 or P-32, is selected to make the "access+" and "access -" interfaces invalid, then the "access+" and "access -" interfaces will be disabled.</p>
P-33	Automatic testing	0	0-255	Automatic testing interval. When it is 0, it means to turn off automatic testing, which is used for automatic testing and aging testing. After the test is completed, set this parameter to 0 to release automatic testing. Short press the 'on' button to start.

Menu	Funciton	Default Value	Range	Funciton Explanation
P-34	Count mode	1	0-4	0: Do not perform pole counting, close the door when passing by; 1: Count the door opening signal, with a maximum count value of 1. When human body sensing is triggered, the count will automatically decrease. When human body sensing disappears and the count reaches 0, the door will close; 2: Count the door opening signal, with a maximum count value of 2. When triggering human body sensing, the count is automatically reduced. When the human body sensing disappears and the count reaches 0, the door is closed; 3: Count the door opening signal, with a maximum count of 3. When triggering human sensing, the count will automatically decrease. When human sensing disappears and the count reaches 0, the door will close; 4: Count the door opening signal, with a maximum count value of 255. When human body sensing is triggered, the count will automatically decrease. When human body sensing disappears and the count reaches 0, the door will close.
P-35	The angle at which the human detection function stops when closing the door	10	0-45	When the closing angle is lower than this value, the human body sensing signal will not be processed and the door will be closed directly.
P-36	The angle at which the human detection function stops when opening the door	20	0-80	When the human body sensing is less than the set angle during the door opening process, the human body sensing trigger is invalid.
P-37	Human detection buzzer frequency	1	0-10	The frequency of the buzzer sounding when triggered by human body induction, 0 is off; 1 is a short beep; 2-10 is the designated frequency for continuous beeping, and the higher the number, the faster the beeping speed.
P-38	Effective duration of control signal	10	1-255	How long do the signals of opening, closing, stopping, access control, and human body sensing last to be considered valid signals. (Unit: 0.01 seconds).
P-39	The type of electric lock	0	0-3	Range: 0-3, default: 0, different values correspond to different lock types. 0: Electromagnetic lock, power on lock, power off unlock; 1: Electric plug lock, unlock when powered on, lock when powered off; 2: Electric control lock, unlocked when powered on, no action when powered off, automatically locks the door when locked in place; 3: Mechanical lock, powered on to unlock, door closing relies on the inertia of the door to push forward, similar to household hidden locks;

Menu	Funciton	Default Value	Range	Funciton Explanation
P-40	485 baud rate	4	0-4	0: 9600; 1: 19200; 2: 38400; 3: 57600; 4: 115200。 Set the 485 baud rate of the control board and set the parameters: 0: 9600; 1: 19200; 2: 38400; 3: 57600; 4:115200.
P-41	485 device number	0	0-63	The address of the control board on the 485 bus.
P-42	485 master-slave mode	0	0-1	Set the master-slave mode of the control board: 0: Slave mode; 1: Host mode.
P-43	485 sends status information	0	0-1	When set to 1, the controller triggers an open/close door action and automatically sends a door status command.
P-44	Door opening priority function	0	0-80	0: All control signals have the same priority in any state; 1: The highest priority is to open the door, and other signals are useless when opening the door;
P-45	Environmental light intensity	0	0-0	The lower the value of the current environmental lighting intensity, the brighter it will be.
P-46	Light sensing trigger value	30	0-255	When the current ambient light intensity is greater than this value, output the light strip interface signal.
P-47	Delay the duration of turn on the lights	10	0-255	When the current lighting is greater than P-46, what is the delay time for outputting the light strip signal. (Unit: seconds)
P-48	Delay the duration of turn off the lights	250	0-255	When the current ambient light is below P-46, what is the delay time to turn off the light strip output. (Unit: seconds)
P-49	Set the timeout duration for opening and closing doors	30	6-40	Set the timeout for opening/closing the door. If the opening/closing of the door exceeds the set time and is not in place, the door will automatically pause and report an opening timeout warning (Err5) or a closing timeout warning (Err6). (Unit: seconds)
P-54	Bluetooth settings	0	0-255	
P-55	Voltage value for automatic operation after power off	0	0-30	0: Close; 1: 21 triggers automatic opening/closing voltage, which requires a backup power supply and is set in conjunction with the P-56 settings. <b>【recommended value is 20】</b>
P-56	The mode for automatic operation after power off	1	0-4	Set the option for automatic power-off operation. When P-55 is not set to 0 and the power supply voltage is detected to be lower than the set value of P-55, the method for handling the door is as follows: 0: Not processed; 1: Automatic door opening; 2: Automatic door closing;

Menu	Funciton	Default Value	Range	Funciton Explanation
P-57	The mode of screen display	2	0-2	<p>0: Display the status of the barrier gate;</p> <p>1: During the process of lifting and lowering the barrier gate, the digital display shows the driving voltage (unit V) or driving current value (unit A). In working mode, you can switch between displaying current or voltage by short pressing the "menu" button;</p> <p>2: Display the position of the motor.</p>
P-58	Times of the door automatically close after manual pushing	255	0-255	<p>When the door is fully closed, if it is manually pushed more than 10 degrees, the machine will automatically trigger the door to close. If the number of times the door is manually pushed and closed exceeds this value, it will not trigger the door to close again. Each time the door is opened and closed normally, the cumulative automatic door closing count will be reset to zero.</p> <p>If the value is set to 255, the function will remain valid without counting.</p>
P-59	Over current protection value	70	20-180	<p>Overcurrent protection value: When the operating current of the door exceeds this value, the door will automatically stop running. If overcurrent protection occurs when closing the door, the door will be treated as rebounding due to obstruction. (Unit: 0.1A)</p>
P-62	Value of motor power limit	100	20-100	<p>During the operation of the equipment, the maximum output power limit is% (non professionals should operate with caution)</p>
P-64	The type of the door	0	0-4	<p>Range: 0-4, default: 0.</p> <p>0: Single door</p> <p>1: Double door main door, the other door must be set to 2;</p> <p>2: Double door from door, the other door must be set to 1;</p> <p>3: The master-slave doors are the master doors, and the other door must be set to 4;</p> <p>4: The master-slave doors must be set to 3, while the other door must be set to 3; Double doors and master-slave doors are used in pairs, with one side being the master door and the other side being the slave door.</p> <p>5: AB master door, the other one must be set to 6</p> <p>6: AB slave door, the other door must be set to 5;</p>
P-65	The duration of master-slave door opening delay	10	0-100	<p>Range: 0-100, default: 10, unit: 0.1 seconds.</p> <p>This parameter is only valid if P-64 is set to 3 (master-slave gate). During the process of opening the door, the master door opens first, and the slave door opens after a set time. During the process of closing the door, the master door closes first, and the slave door closes after a set time.</p>

Menu	Funciton	Default Value	Range	Funciton Explanation
P-66	The angle of master-slave door waiting	15	0-90	During the first process of finding the limit position when powered on, the main and auxiliary doors will first open at the angle set by P-66, and then start closing the door to find the limit position. If it is the main door of the mother child door, the motherboard needs to be closed only after the door is closed in place. During the normal process of opening and closing the door, if the main door is closed to the angle set by P-66 and the secondary door is not closed properly, the main door will stop and wait for the sub door to close properly before closing it again.
P-67	Effective angle of magnetic lock	20	0-30	The angle at which the magnetic lock begins to lock when closing the door.
P-68	The strength of rebound when encountering obstacles when opening the door	60	0-255	Judge the strength when encountering obstacles when opening the door.
P-71	Stop port reuse	0	0-2	External control interface [stop] port function: 0: Default is stop signal input; 1: Reuse as PUSH function, the opening triggered by this port synchronizes the opening signal to the slave with device number 2 of 485, and all the closing signals of the device are also synchronized to the slave with device number 2. 2: Reuse as PUSH function, signal changed to falling edge trigger, or signal program exists for 3 seconds as trigger; When the door is opened by long pressing for 3 seconds, the synchronous opening signal is sent to the slave machine with device number 2 of 485. All the door closing signals of the device are also synchronized to the slave machine with device number 2. (PUSH interface function description: When the motherboard is in the fully opened state, the PUSH motherboard is triggered to close the door; When the motherboard is in other states, triggering PUSH will open the door)
P-72	the mode of the light port	0	0-1	light port function selection: 0:24V-LED lighting, controlled by external light sensing, set on conditions through P-46; 1: 24V alarm light mode.

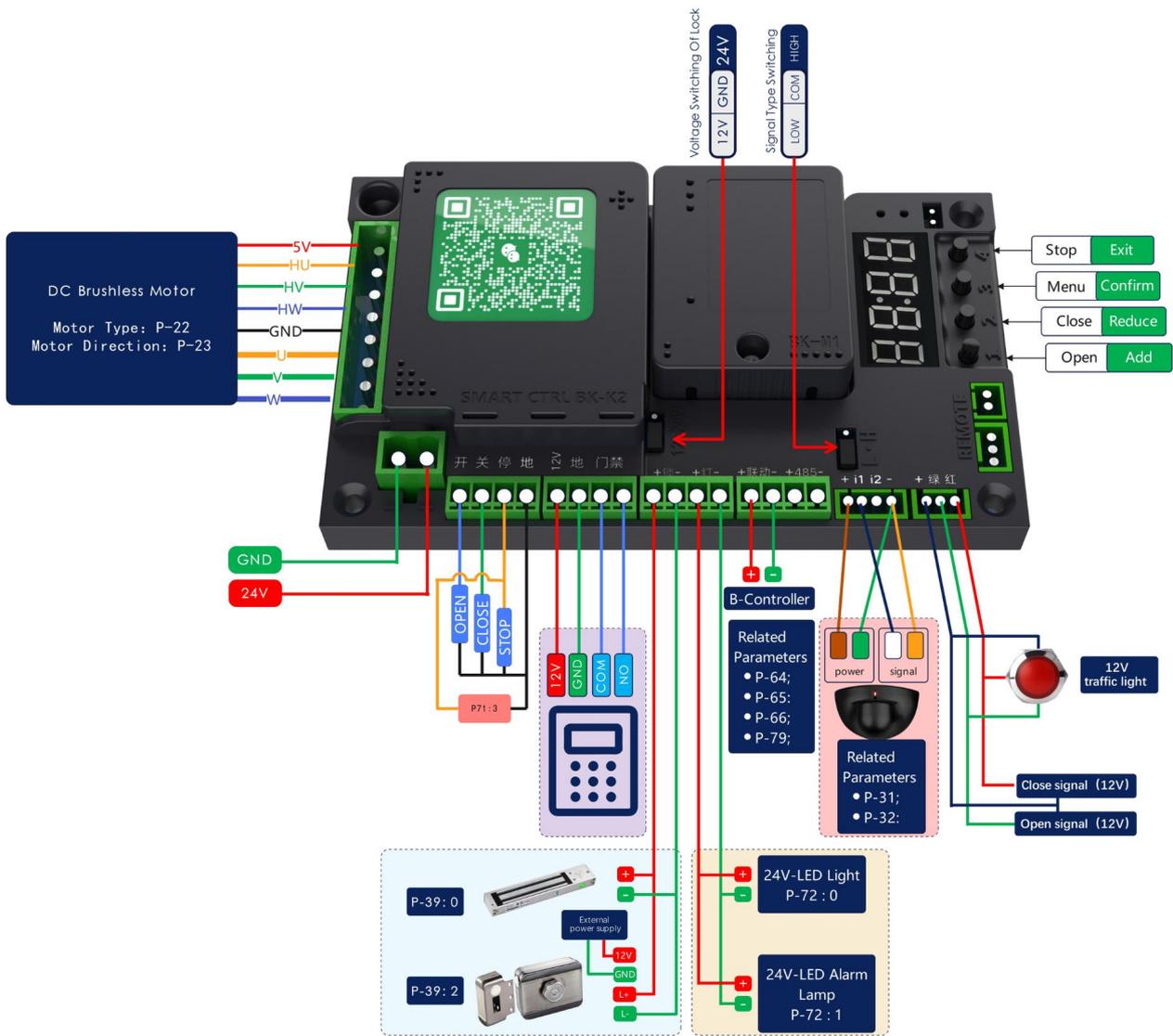
Menu	Funciton	Default Value	Range	Funciton Explanation
P-73	Working mode of the alarm light	0	0-3	When P-72 is set to 1, this function is effective. 0: Turn off the alarm light 1: Flashing while opening the door 2: Flashing while closing the door 3: Flashing both when opening and closing the door 4: During the process from opening the door to closing it in place, it flashes (it does not flash when it is normally open)
P-74	The operating frequency of the alarm light	0	0-2	Flashing frequency for different scenarios 0:0.5hz flashing alternately on and off 1: 1hz flashing alternately on and off 2: 2Hz flashing alternately on and off
P-75	Alarm function when manually pushing open the door	0	0-1	Warning light function for illegal door opening: 0: Close 1: Open
P-76	The mode of traffic light	0	0-3	The traffic light port defaults to a common anode, and the positive pole outputs a 12V voltage signal. 0: Traffic light mode 1: When the opening angle is greater than 60 degrees, the green light will turn on, and when the door starts to close, the red light will turn on 1: Traffic light mode 2: When fully turned on, the green light will turn on, while other states will turn on the red light 2: In place status output: When in place, the green light is on, when in place, the red light is on, and in other states, both lights are off. 3: In place pulse output: When turned on in place, the green light will light up for 1 second, and when turned off in place, the red light will light up for 1 second [commonly used in limit mode]
P-77	Super rebound function when encountering obstacles	0	0-1	This function is used for small and lightweight doors. 0: Close 1: Open
P-78	Push to open function	0	0-10	When the door is closed, the manual door will automatically open. Default value 0, range 0-10 Function description: 0 :Close the manual push door, 1-10, Open push to open function, this function takes effect when the door is fully closed , the smaller the value, the more sensitive it is. (When this function is valid, the P58 function is invalid)
P-79	Motor reverse function when opening the door	0	0-5	0: close the function 1-5: Turn on as reverse seconds (Unit: 0.1 seconds)

Error code	Reason for error
Err0	When clearing the remote control and restoring factory settings, it is necessary to set the correct value. If the confirmation value is incorrect, an Err0 error will be prompted.
Err1	None
Err2	The warning of high brake recoil voltage can be solved by reducing the operating speed.
Err3	The rotation of the door opening motor is obstructed, possibly due to low door opening speed or low door closing speed. You can increase the speed of opening and closing the door.
Err4	The rotation of the door closing motor is obstructed, which may be due to insufficient closing speed or closing end speed. You can increase the closing speed or the closing end speed.
Err5	Open door timeout, the reason is that the opening time exceeds P-49. Can increase the opening speed and closing speed of the door.
Err6	Closing the door exceeded the time limit, as the closing time exceeded P-49. Can increase the closing speed and closing end speed.
Err7	The motor type selection is incorrect, it can be changed to the correct type through P-22.

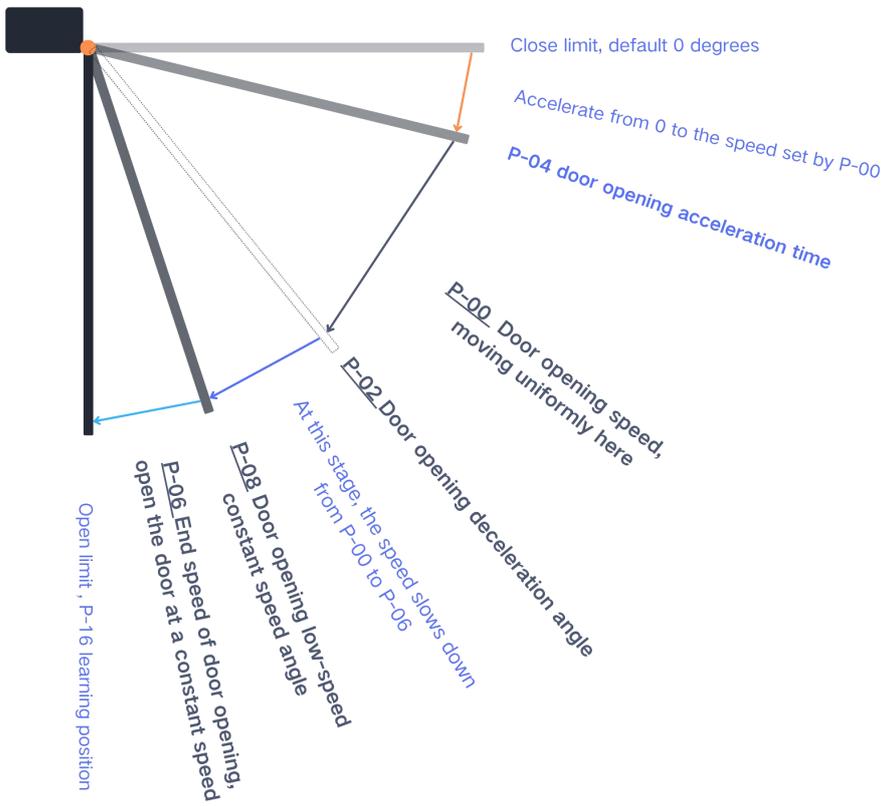
### Screen information display instructions:

Content	Describe
<b>IDLE</b>	Motor not connected, or motor Hall fault, possible cause is loose wiring.
<b>STOP</b>	The door is fully closed
<b>CLOS</b>	The door is closing
<b>OPEN</b>	The door is opening
<b>HOLD</b>	The door is fully opened
<b>LOCK</b>	The door is locked
<b>FLET</b>	The Mode of normal open

# Definition of Port:



### Process for adjusting door opening parameters



### Process for adjusting door opening parameters

