



S208 Password access control machine

With Wiegand input and support 6500users



Reading carefully before Install and use this manual



1. Product Profile

The Contact-less inductive card Password Access Controller, According to the model, respectively support EM, MIFARE two cards. It is one of the most advanced stand alone access controller. It unique exterior design, Dexterity keyboard panel operation, Built-in high-grade microprocessors, Strong anti-interference ability, Safety and reliability is extremely high, can provide a powerful security for 6, 500 users. It has strong functions, such as low power consumption, Luminous keyboard, independent passwords, wiegand input, the output short circuit protection, exit button, the doorbell interface, level of security Settings, etc. widely used in home, office, residential area and other public places.

2. Features

- 1: Low power consumption: less than 30mA standby current
- 2: Luminous keyboard: the night can also operate keyboard
- 3: User capacity: support 6,500 users
- 4: Independent password: can use password which irrelevant with the card to open the door
- 5: User modification password: Users can revise the door password
- 6: Search speed: charge to open the door time less than 0.1 S.
- 7: Output short circuit protection: electric lock or alarm output circuit within 100 μ S when shut down automatically output
- 8: Wiegand input: With Wiegand input interface, Wg26 card number or Wg4 buttons output
- 9: Usable keyboard delete card number: After card is lost, usable keyboard delete card, Thoroughly eliminate safety lapses
- 10: The bell button and interface: key and circuit segregation, external any the doorbell.

3. Technical parameters

- Work Voltage: DC12V \pm 10%
- Static Current: \leq 30mA
- Reading Range: 3~8cm
- Capacity: 6,500 users
- Ambient Temperature: -35 $^{\circ}$ C ~ 60 $^{\circ}$ C
- Ambient Humidity: 10% ~ 90%
- Electricity lock output: \leq 3A
- Alarm output: \leq 20A
- Output short circuit protection time: \leq 100 μ S
- Open time: 0 ~ 99 seconds (adjustable)
- Size: 120mm*115mm*20mm
- Weight: 510g



Illustration	Red Light	Green Light	Yellow Light	Buzzer
Working state	On		On	
Program mode	On	On	Flash	
Program mode sub-menu	On	On		
Presenting unregistered card	On		On	Make long sound"di"
Presenting registered card& door open	On	On		Make two short sound" di di "
After Presenting the card and need to input the passwords	On	Flash	On	
Card+password mode	On	Flash	On	
Password mode keyboard	On	Flash	On	Make one short sound"di"
Successful Setting				Make two short sound" di di
Failure Setting				Make a long sound"di"
Invalid inputting				Make a long sound"di"
Alarm				Continuous sound: di di di

4. Operation Instruction

1. Enter Program mode

Press '#' 4 times → input password "123456" → press "#" to save (enter the program mode successfully)

Note: ① "123456" is default password.

- ② If entering the program mode successfully, the buzzer will make two short sound "di di", otherwise, make a long sound "di".

2. Function setup (All the following steps should begin with Entering Program Mode)

(1) Key "0": modify program password

Press "0" → input new password → press "#" → input the new password again → press "#" → press "9" to exit

Note: ① If add successfully, the buzzer will make two short sound "di di", otherwise, make a long sound "di".

- ② The password is 6-digits one.



(2) Key “1”: register cards in continuous way

press “1” → continuously presenting the unregistered card → press “#” to confirm → press “9” to exit

- Note: ① The system will give a number to each card. The original password is “888888”. Such password can only be used for Card and Password Mode.
- ② If there is no card in the system, the card number will start from “0001” and increase gradually. The largest number cannot exceed “6,500”. If the registered already exist, the number will increase from the number of previous registered cards (including the deleted cards).
- ③ If add successfully, the buzzer will make two short sound “di di”, otherwise, make a long sound “di”.

(3) Key “2”: register a single card (allow registering card continuously)

press “2” → present the card → input the 4-digit user number → press “#” → present another card → input the 4-digit user number → press “#” (.....continuously register cards) → press “#” → press “9” to exit

- Note: ① The system will give an default password “888888” to each card. Such password can only be used in the Card and Password Mode.
- ② If the card has already existed, the buzzer will make a long sound “ di”. Then you can present another card. If the inputted number has already existed, the buzzer will make a long sound “di”. Then you can input another number.

(4) Key “3”: delete the register card

Delete card press 3, 0 → present the card → present the another card (...Continuously present the card that need to be deleted) → press “#” → press “9” to exit

Delete the user number press 3, 1 → input the user number → press “#” → input another one → press “#” (...continuously delete many user numbers) → press “#” → press “9” to exit

Delete all the cards press 3,2 → input “9999” → press “#” → press “9” to exit

(5) Key “4”: Door open mode setting

Card or password press 4, 0 → press “#” → press “9” to exit (that is the factory default mode)

Card and password press 4, 1 → press “#” → press “9” to exit

Password press 4, 2 → press “#” → press “9” to exit

(6) Key “5”: Door open time setting

Press “5” → input time → press “#” → press “9” to exit

- Note: ① The time format is “***”, e.g. “03” represents that the open time is 3 seconds.
- ② when time is set as 99 seconds; the open method is trigger mode (presenting card and the door open. presenting the card again, then the door close.)



(7) Key “6”: setup the door open password (the factory default open password is blank)

Door open password setting press “6” → input the new password → press “#” →
input password again →press “#” → press “9”
to exit

Blank password setting press “6” →press “#” →press “#” → press “9” to exit

Note: ① This password can be used in Card or Password Mode and the Card and Password Mode.

And it must have 6 digits.

② If it is blank password setting, the password mode can not be used.(Can not open the door via password.)

3. The exit key is “9”

4. Modify card password (should operate in the Card and Password Mode, do not enter the programming)

Press “9”(the red light is off and the green light is on) → present the card(must be authorized cards) →input the original password(the original password is 888888) → press “#” → input new password → press “#” → input password again → press “#”

Note: ① this password is only valid in Card and Password Mode.

② If modify successfully, the buzzer makes 2 “di-di” short sounds, then it will exit the Program Mode.

5. Restore to factory default settings (only restore the program passwords and parameter settings, and authorized cards will not be deleted)

With power off, short the JP1 jumper to 2 and 3 position. Then with power on, after hearing 2 “di-di” sounds, short the JP1 jumper to 1 and 2 positions. Then modify successfully.

Operation Example

1. Setting New program password ‘789000’

Firstly, enter the program mode press “#” 4 times → input password “123456”
→ press “#” again(green light flashes) → press “0”
→ input the program password “789000” → press
“#” → input the password “789000” again

Then press “9” to exit, the default password “123456” turns to “789000”.

Please remember the modified program password. It has to be used to enter the program mode later.



2. Continuously presenting cards to register

Firstly, enter the program mode press the “#” 4 times → input password “123456” → press “#” again(green light flashes) → press “1” → present new cards(after presenting all the needed cards → press “#”

Then press “9” to exit, the registered card can open the door now.

3. Continuously register two cards, “0088” “0099” (allowing register many cards continuously)

Firstly, enter the program mode press the “#” 4 times → input password “123456” → press “#” again(green light flashes) → press “2” → present the new cards → input the number “0088” → press “#” → present the second card → input the number “0099” → press “#” → press “#” once again

Then press “9” to exit, card “0088” and card “0099” can open the door.

4. Delete cards according the card number e.g. delete the card “0088” and the card “0099”

Firstly, enter the program mode press the “#” 4 times → input password “123456” → press “#” again(green light flashes) → press “3” → press “1” → input “0088”

→ press “#” → input ‘0099’ → press “#” → press “#” once again

Then press “9” to exit, card “0088” and card “0099” cannot open the door now. (Deleting multiple cards means that you can input number one by one. Then, press “#”. In this case, you can delete multiple cards. After confirming, press the “#” once again.)

5. Setup the opening mode as presenting cards

Firstly, enter the program mode press the “#” 4 times → input password “123456”

→ press “#” again (green light flashes) → press “4” → press “0” → press “#”

Then press “9” to exit, the opening mode has been changed to Card or Password Mode.

6. Setup the opening password as “147258”

Firstly, enter the program mode press the “#” 4 times → input password “123456” → press “#” again(green light flashes) → press “6” → input “147258” → press “#” →

press “147258” again → press “#” once again

Then press “9” to exit, press “147258”, then press “#” to confirm, and you can open the door now.



7. Setting new password '88899' in Card and Password Mode (should operate it in the Card and Password Mode)
- Press "9" → presenting the card (previous registered card) → input the original password "888888" (the original program password. If you have modified it, please use the modified one to operate the next step.) The red light and the green light flash one after another → input the new password '888999' → press "#" → press '888999' again → press "#"

Special case and faults Judgment (Crypton S208)

1. External readers

- 1: When use the external readers to register and delete cards, external readers have video and audio indication, so please take attention to that when presenting another card.
- 2: If the external reader has no above indication, please wait 2-3 seconds to present after the first one.
- 3: If have to set card number when register cards for external readers, you can only set serial number on the master controller.
- 4: Support external keyboard readers. You can also input password to open the door via it

2. Light change indication

- 1: According to the changes of the red light, you can know current opening mode, which can be divided into 3 cases:

Red light	always on	card or password mode
Red light	flashes every 0.5 second	card and password mode
Red light	flashes every 1 second	password mode
- 2: If red light and green light are on at the same time, it means that the relay is closed and the output is trigger mode.

3. Normal open/close under special conditions(presenting cards to open or close, the relay will have no auto response)

Enter the Program Mode, set 99 seconds opening time, the controller relay's output turns to trigger mode. That is to say, when presenting the card to open the door, the lock remains open. When presenting the cards again, the lock remains close.

4. Only the card can open the door, or only the password can open the door



1: only card can open the door

Firstly, set the opening mode as Card or Password Mode. Then set blank opening password.

2: only password can open the door

Set the opening mode as Password Mode. There is no response when presenting the card

Faults Judgment

1: Cards cannot open the door

Making sounds but the green light is off, please check the card is registered or not

Making sounds but the green light and the red light flash at interval Check the Opening Mode Status

Making sounds and the green light is on, Check wire connection

2: No response after presenting the card

*Check the card format, or whether the card has been damaged.

*Check the opening mode

In Password Mode, there will be no reader function and no response after presenting cards.

*Check light indication

When the red light is off and the green light on, it is door open status. There will be no response after presenting cards.

3: No key response

Check the indication light

When the red light is off and the green light on, it is door open status. There will be no key response.

Wiring instruction

7-pin wire

Purple	OPEN	External Reader	Exit button input
Black	GND		
Red	+12V		
White	D1		
Green	D0		
Blue	LED		
Yellow	BEEP		

5-pin wire



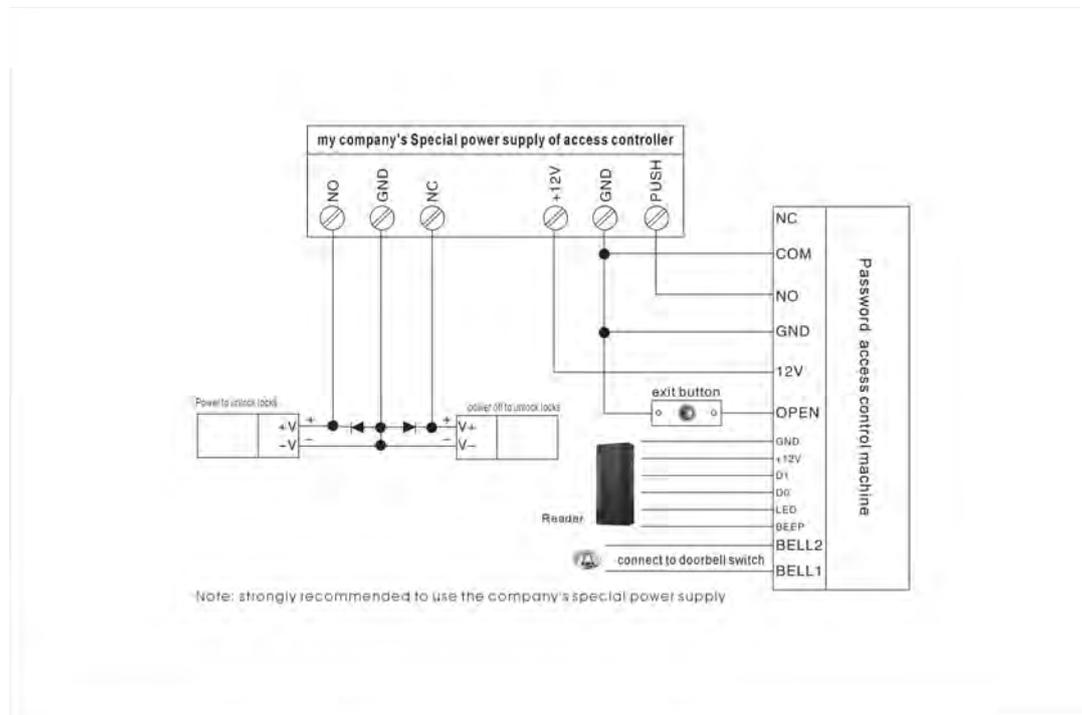
Red	+12V	Power
Black	GND	
Grey	NC	relay signal output
Black	COM	
Brown	NO	

2-pin wire

Yellow	Doorbell
Blue	

5. System wiring diagram

Special power supply of Access controller



Normal power supply

