

- **Product Specification**

Item	Specification
Voltage	12VDC+10%, Current 1.2A
Lock Relay	12VDC/2A
Environmental Temperature	working:0°C~45°C; storage:-10°C~55°C
Relative humidity	working:40%~90%RH; storage:-20%~90%RH
Card Capacity	500
PIN Capacity	Public PIN:1 Private PIN:500
Internal Reader Frequency	ID model:125KHz ICmodel:13.56MHz
Proximity Card	ID model: EM or compatible IC model: Mifare1 or compatible
Card Reading Distance	ID model:5 - 15CM IC model:3 - 5CM
Lock interface	Relay output or level output
Exit Button	One interface
Bell	One interface
Door Contact	One interface
Alarm Interface	One level output
External Reader	One weigand26 interface (Only apply to certain models)

- **Factory Defaults**

Item	Value
Programming PIN	990101
Door Open Mode	Card or public pin (1234)
Private PIN	0000
Door Open Time	3 seconds
Anti-Break Alarm	Disabled
Door Contact Alarm	Disabled
Lock Status	Disabled
Alarm Delay	0 seconds
Modify Private PIN	Disabled

- **The LED an Buzzer**

- **Normal mode:**
 - Valid command: Short beep
 - Invalid command: Long beep
- **Programming mode:**
 - Green LED on
 - Valid command: Two short beeps
 - Invalid command: Three beeps

- **Cancel Command**

Press the [*] key to cancel command.

- **Functions and Setup**

- **Enter the programmingmode**

Press [*]+[6-digit pin] (Default is 990101)

- **Modify the programming pin**

Press [0]

+ [new 6-digit pin]

+ [confirm the new 6-digit pin]

- **Enroll card**

Press [5]

+ [3-digit index code] (2 beeps)

+ [Card1] (beep, 2 beeps)

+ [Card2] (beep, 2 beeps)

+

+ [Cardn] (beep, 2 beeps)

+ [*] (2 beeps)

- 3-digit index code: range from 001-500. Card can be deleted by this code.
- When enrolling multiple cards, every card index code will be calculated in order. For example, card one's index code is 15, card two's will be 16.
- The default private pin for each card is 0000

- **Delete card**

- Delete by index code

Press [7]

+ [3-digit code1] (2 beeps)

+ [3-digit code2] (2 beeps)

+

+ [3-digit coden] (2 beeps)

+ [*] (2 beeps)

- Delete by presenting card

Press [7]

+ [Presenting Card1] (beep, 2 beeps)

+ [Presenting Card2] (beep, 2 beeps)

+

+ [Presenting Cardn] (beep, 2 beeps)

+ [*] (2 beeps)

- Delete all cards

Please restore the factory default

- The private pin will be deleted when the card is deleted

- **Exit programming mode**

Press [*] (2 beeps)

- **Set up door open mode**

- Card or pin mode

Press [1]+[0] (2 beeps)

- Card + private pin mode

Press [1]+[1] (2 beeps)

- **PINs**

The pin in "Card or PIN" mode is either the public pin or private pin (at most 500).

- **Disable changing private pin**

Press [1]+[2] (2 beeps)

- **Enable changing private pin**

Press [1]+[3] (2 beeps)

- **Change private pin**

Press [#] (2 beeps)

+ [Presenting card] (beep, 2 beeps)

+ [4-digit old pin] (2 beeps)

+ [4-digit new pin]

+ [confirm the new pin] (2 beeps)

- **Change public pin**

Press [3]+[4-digit pin] (Default 1234)

When the public or private pin is 0000, the pin is void in "Card or pin" mode.

- **Change door open time**

Press [2]+[TT]

TT is the time interval in seconds. For example, if the door open time is 3 seconds, then TT=03.

- **Anti-break**

- Disable anti-break: Press [4]+[0]

- Enable anti-break: Press [4]+[1]

- **Door contact sensor**

- Disable door sensor: Press [6]+[0]

- Enable door sensor: Press [6]+[1]

- **Door sensor alarm**

- Disable alarm: Press [8]+[0]

- Enable alarm: Press [8]+[1]

After turning on this function, the controller will give off continuous long beep when the door is not closed after normal opening, or the door is not opened through the controller.

- **Alarm delay time**

Press [82]+[TT].

TT is the time interval in seconds. For example, if the delay time is 3 seconds, then TT=03.

When door is locked TT seconds, if the door contact sensor is in alarm status, the controller is in alarm mode. This function should be used when the door sensor alarm is on.

- **Restore factory default**

Press [86]. There will be 2 beeps, 3 beeps and 3 beeps after 5 seconds, then the factory defaults are restored.

- **User's instruction**

- **Card or PIN mode**

- The pins should be entered in 2 seconds

- Press [*] key to cancel pin input

- **Card + Private PIN mode**

- [Reading card]+[enter 4-digit pin] to open

- Press [*] key to cancel pin input

- **Reset programming pin**

Short the J2 on controller to reset the programming pin to factory default

- **Frequently asked questions**

Symptom

Possible solutions

After the lock is opened, there are 8 short beeps

The controller needs higher voltage; the power supply should be checked.

The card reading distance is short or card cannot be read

1. If the controller is on metal surface, it should be moved to other place.

2. Check the power supply.

After reading card, there are 3 beeps and lock is not open

1. It's in card+pin mode.

2. [#] key is pressed, wait for 5 seconds to present the card.

The enrolled card cannot open the door

1. Check if the door sensor is in alarm status.

2. Disable the door sensor alarm.

Press [*]+[Programming pin] there is long beep and cannot enter the programming mode

Other keys are pressed before pressing the [*] key. Keep on pressing [*] key after long beep, then enter the programming mode again.

Press [#] key, there is a long beep, the private pin cannot be changed

Other keys are pressed before pressing the [*] key. Keep on pressing [*] key after long beep, then press the [*] key again.

Press [5],there are 3 beeps	The controller has full card capacity.
Press [5]+[index code], 3 beeps	This index code is in use, select another index code.
Press [5]+[index code] 2 beeps +[presenting card] 3 beeps	This card is in use.
The controller exit programming mode	In programming mode, if there is no input in 20 seconds, the controller exits programming mode automatically.

- **Wiring**

- With normal power supply

DOOR	To door contact	The other end to DGND
DGND		
POENSW	To exit button	The other end to DGND
PUSH/NO	To GND of the fail-safe lock	The other end off the lock to +12VDC
NC	To GND of the fail-open lock	The other end off the lock to +12VDC
GND	To the GND of power supply	
+12VDC	To the +12V of power supply	
BELL	To door bell	
BELL	To door bell	
JP3	Short JP3	
JP2	Short 1,2	

- With access control power supply

DOOR	To door contact	The other end to DGND
DGND		
POENSW	To exit button	The other end to DGND
PUSH/NO	To PUSH on power supply	Lock should be wired to power supply's NC and GND.
NC		
GND	To the GND of power supply	
+12VDC	To the +12V of power supply	
BELL	To door bell	
BELL	To door bell	
JP3	Do NOT short JP3	
JP2	Short 2,3	