

Standalone Keypad Access Control

User Manual



Please read the manual carefully before use this unit

1.Packing List

Name	Quantity	Remarks
Keypad	1	
User manual	1	
Screw driver	1	Φ20mm×60mm,Special for keypad
Rubber plug	2	Φ6mm×30 mm, used for fixing
Self tapping screws	2	Φ4mm×28 mm, used for fixing
Star screws	1	Φ3mm×6mm, used for fixing

Please ensure that all the above contents are correct. If any are missing please notify the supplier of the unit.

2. Quick Reference Programming Guide

To enter the programming mode	* Master code # 999999 is the default factory master code
To exit from the programming mod	*
Note that to undertake the following programming the master user must be logged in	
To change the master code	0 New code # New code # The master code can be 6 to 8 digits
To add a PIN user.	1 User ID number # PIN # The ID number is any number between 1 & 2000. The PIN is any four digits between 0000 & 9999 with the exception of 1234 which is reserved. Users can be added continuously without exiting programming mode
To add a card user	1 Read Card # Cards can be added continuously without exiting programming mode
To delete a PIN or a card user.	2 User ID number # for a PIN user or 2 Read Card # for a card user Users can be deleted continuously without exiting programming mode
To unlock the door for a PIN user	Enter the PIN then press #
To unlock the door for a card user	Present the card

3.Description

The unit is single door multifunction standalone access controller or a Wiegand output keypad or card reader. It is suitable for mounting either indoor or outdoor in harsh environments. It is housed in a strong, sturdy and vandal proof Zinc Alloy electroplated case which is available in either a bright silver or matt silver finish. The electronics are fully potted so the unit is waterproof and conforms to IP68. This unit supports up to 2000 users in either a Card, 4 digit PIN, or a Card + PIN option. The inbuilt card reader supports 125KHZ EM cards,13.56MHz Mifare cards. The unit has many extra features including lock output current short circuit protection, Wiegand output , and a backlit keypad. These features make the unit an ideal choice for door access not only for small shops and domestic households but also for commercial and industrial applications such as factories, warehouses, laboratories, banks and prisons.

4.Features

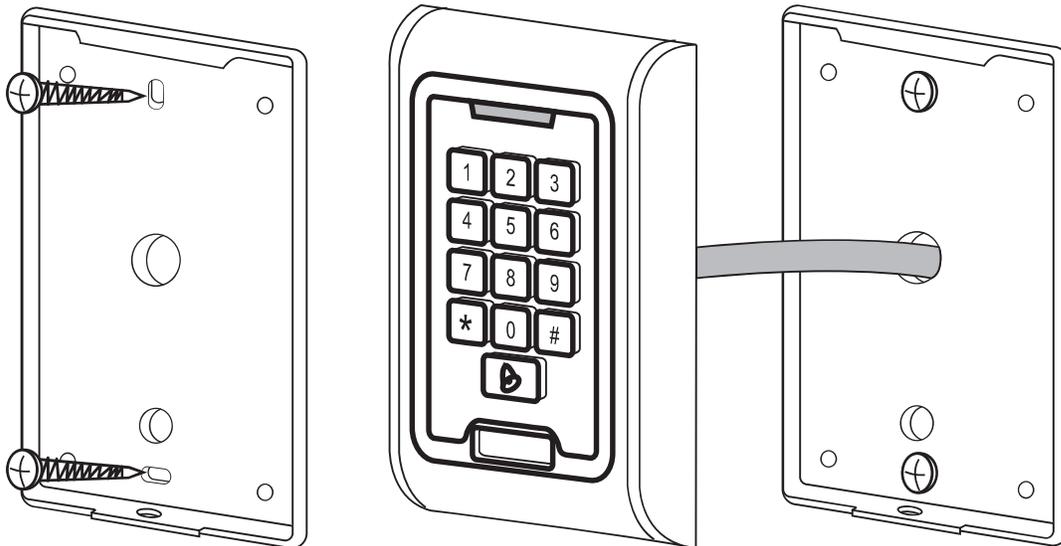
- Waterproof, conforms to IP65/IP68
- Strong Zinc Alloy Electroplated anti-vandal case
- Full programming from the keypad
- 2000 users, supports Card, PIN, Card + PIN
- Can be used as a stand alone keypad
- Backlight keys
- Master add card/delete card support
- Wiegand 26 input for connection to external reader
- Wiegand 26 output for connection to a controller
- Adjustable Door Output time, Alarm time, Door Open time
- Very low power consumption (30mA)
- Fast operating speed, <20ms with 2000 users
- Lock output current short circuit protection
- Easy to install and programme
- Built in buzzer
- Red, Yellow and Green LEDS display the working status

5.Specifications

Operating Voltage	DC 12V±10%
User Capacity	2000
Card Reading Distance	3-6 cm
Active Current	< 60mA
Idle Current	25±5 mA
Lock Output Load	Max 3A
Operating Temperature	-45 °C ~ 60 °C
Operating Humidity	10%- 90% RH
Waterproof	Conforms to IP68
Adjustable Door Relay time	0 -99 seconds
Wiegand Interface	Wiegand 26 bit
Wiring Connections	Electric Lock, Exit Button, External Alarm,External reader

6.Installation

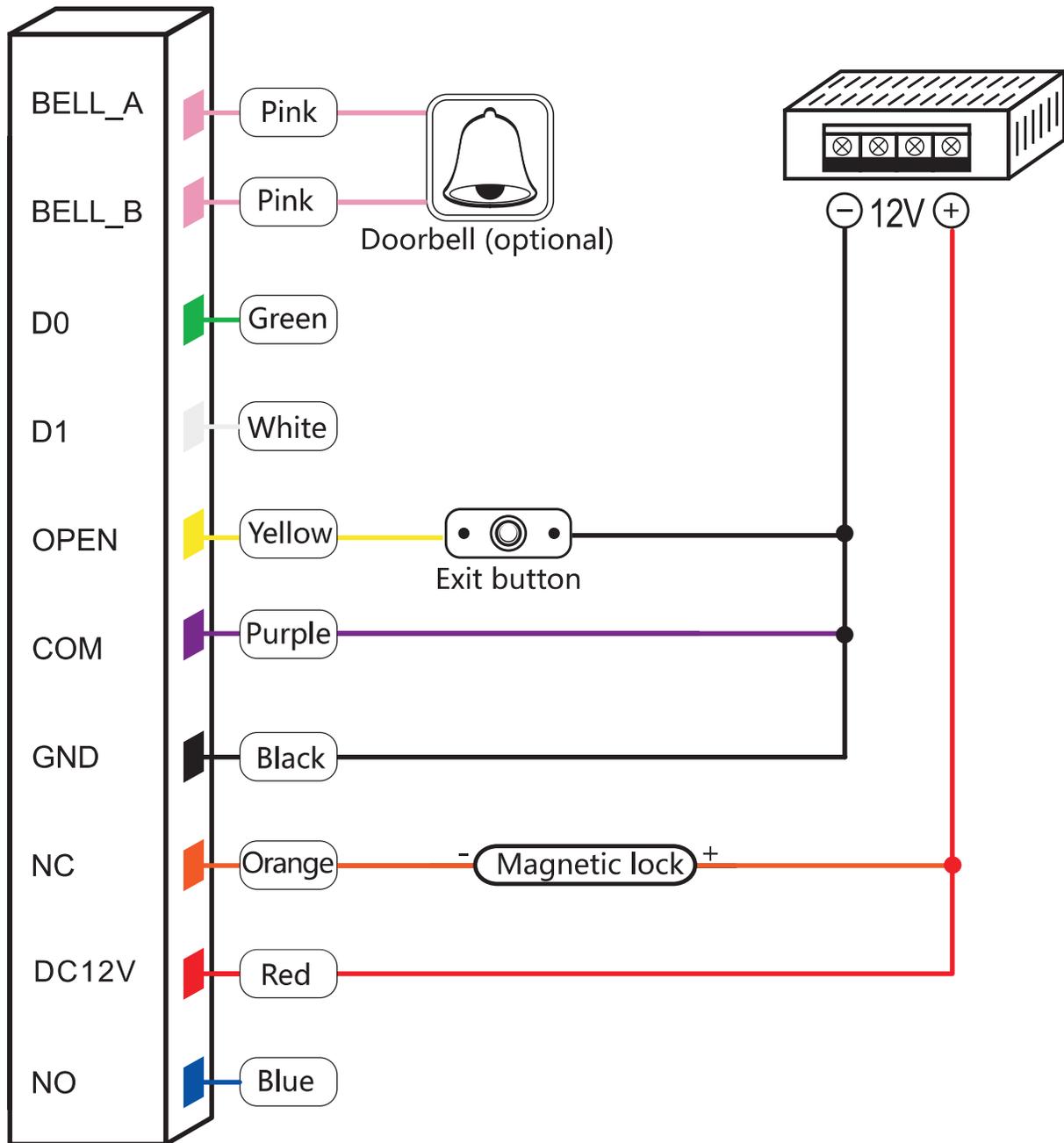
- Remove the back cover from the keypad using the supplied special screw driver
- Drill 2 holes on the wall for the self tapping screws and dig a hole for the cable
- Put the supplied rubber bungs into the two holes
- Fix the back cover firmly on the wall with 2 self tapping screws
- Thread the cable through the cable hole
- Attach the keypad to the back cover.



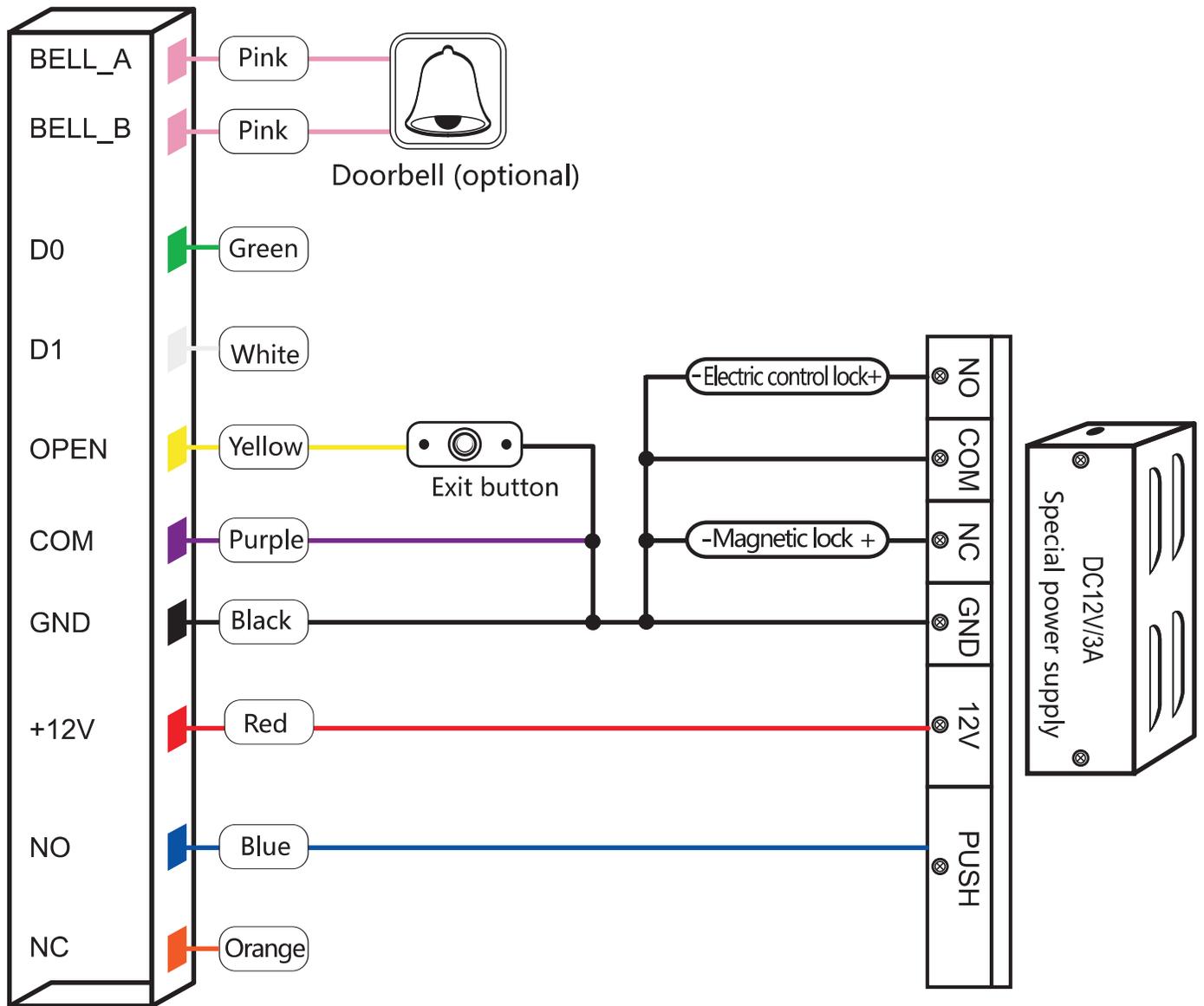
7.Wiring

Colour	Function	Description
Pink	BELL_A	Doorbell button one end (optional)
Pale blue	BELL_B	Doorbell button to the other end (optional)
Green	D0	WG output D0
White	D1	WG output D1
Yellow	OPEN	Exit button one end(the other end connected GND)
Red	12V+	12V + DC Regulated Power Input
Black	GND	12V - DC Regulated Power Input
Blue	NO	Relay normally-on end(Connect positive electric lock "-")
Purple	COM	Relay Public end, connect GND
Orange	NC	Relay Closed end(connect negative electric lock "-")

common power supply diagram:



special power supply diagram:



8.To Reset to Factory Default and Match Master Card

Reset to Factory Default

Method 1: Power off, power on, when the indicator light turn orange,press the # key,swipe the first card as for master add card, swipe the second card as for master delete card,on hearing tick tick-tick sound thrice, the master code has been reset to 999999, factory default settings is successful.

Method 2: Power off,press the exit button continuously,power on,sound "tick-tick" twice, then release hand,the indicator light turns orange,if need to register master cards, pls swipe the first card as for master add card, swipe the second card as for master delete card within 10s, if not,sound "tick-" once after 10s,the master code has been reset to 999999, factory default settings is successful.

* Registered user data won't be deleted when reset to factory default

9.Master Card Operation

9.1 Add Card

Read master add card Read the 1st user card Read the 2nd user card ...

Read master add card

Note: The master add card is used to add card users continuously and quickly. When you read the master add card at the first time, you will hear short "BEEP" sound once and the indicator light turns orange, it means you have entered into add user programming. When you read the master add card at the second time, you will hear long "BEEP" sound once and the indicator light turns red, it means you have exited the add user programming.

9.2 Delete Card

Read master delete card Read the 1st user card Read the 2nd user card ...

Read master delete card

Note: The master delete card is used to delete card users continuously and quickly. When you read the master delete card at the first time, you will hear short "BEEP" sound once and the indicator light turns orange, it means you have entered into delete user programming. When you read the master delete card at the second time, you will hear long "BEEP" sound once, the indicator light turns red, it means you have exited the delete user programming.

10.Sound and Light indication

Operation Status	Red Light	Green Light	Yellow Light	Buzzer
Power on	-	Bright	-	Di
Stand by	Bright	-	-	-
Press keypad	-	-	-	Di
Operation successful	-	Bright	-	Di
Operation failed	-	-	-	DiDiDi
Enter into programming mode	Bright	-	-	
In the programming mode	-	-	Bright	Di
Exit from the programming mode	Bright	-	-	Di
Open the door	-	Bright	-	Di
Alarm	Bright	-	-	Alarm

11. Detailed Programming Guide

11.1 User Settings

To enter the programming mode	* Master code # 999999 is the default factory master code
To exit from the programming mode	*
Note that to undertake the following programming the master user must be logged in	
To change the master code	0 New code # New code # The master code can be 6 to 8 digits
Setting the working mode: Set valid card only users Set valid card and PIN users Set valid card or PIN users	3 0 # Entry is by card only 3 1 # Entry is by card and PIN together 3 2 # Entry is by either card or PIN (default)
To add a user in either card or PIN mode, i.e. in the 3 2 # mode. (Default settings)	
To add a Pin user	1 User ID number # PIN # The ID number is any number between 1 & 2000. The PIN is any four digits between 0000 & 9999 with the exception of 1234 which is reserved. Users can be added continuously without exiting programming mode as follows: 1 User ID no 1 # PIN # User ID no 2 # PIN #
To delete a PIN user	2 User ID number # Users can be deleted continuously without exiting programming mode
To change the PIN of a PIN user (This step must be done out of programming mode)	* ID number # Old PIN # New PIN # New PIN #
To add a card user (Method 1) This is the fastest way to enter cards, user ID number auto generation.	1 Read card # Cards can be added continuously without exiting programming mode
To add a card user (Method 2) This is the alternative way to enter cards using User ID Allocation. In this method a User ID is allocated to a card. Only one user ID can be allocated to a single card.	1 ID number # Read card # User can be added continuously without exiting programming mode

<p>To add a card user (Method 3) Card number is the last 8 digits printed on the back of the card,user ID number auto generation</p>	<p>1 <input type="text" value="Card number (8 digits or 10 digits)"/> <input type="text" value="#"/></p> <p>User can be added continuously without exiting programming mode</p>
<p>To add a card user (Method 4) In this method a User ID is allocated to a card number. Only one user ID can be allocated to the card number</p>	<p>1 <input type="text" value="ID number. #"/></p> <p><input type="text" value="Card number (8 digits or 10 digits). #"/></p> <p>User can be added continuously without exiting programming mode</p>
<p>To delete a card user by card. Note users can be deleted continuously without exiting programming mode</p>	<p>2 <input type="text" value="Read Card"/> <input type="text" value="#"/></p>
<p>To delete a card user by user ID. This option can be used when a user has lost their card</p>	<p>2 <input type="text" value="User ID"/> <input type="text" value="#"/></p>
<p>To delete a card user by card number. This option can be used when the user want to make the change but the card has lost</p>	<p>2 <input type="text" value="Card number (8 digits or 10 digits)"/> <input type="text" value="#"/></p> <p>Note users can be deleted continuously without exiting programming mode</p>
<p>To add a card and PIN user in card and PIN mode (<input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="#"/>)</p>	
<p>To Add a card and Pin user (The PIN is any four digits between 0000 & 9999 with the exception of 1234 which is reserved.)</p>	<p>Add the card as for a card user Press <input type="text" value="*"/> to exit from the programming mode Then allocate the card a PIN as follows:</p> <p><input type="text" value="*"/> <input type="text" value="Read card"/> <input type="text" value="1234 #"/> <input type="text" value="PIN #"/> <input type="text" value="PIN #"/></p>
<p>To change a PIN in card and PIN mode (Method 1) Note that this is done outside programming mode so the user can undertake this themselves</p>	<p><input type="text" value="*"/> <input type="text" value="Read Card"/> <input type="text" value="Old PIN #"/> <input type="text" value="New PIN #"/> <input type="text" value="New PIN #"/></p>
<p>To change a PIN in card and PIN mode (Method 2) Note that this is done outside programming mode so the user can undertake this themselves</p>	<p><input type="text" value="*"/> <input type="text" value="ID number #"/> <input type="text" value="Old PIN #"/> <input type="text" value="New PIN #"/> <input type="text" value="New PIN #"/></p>
<p>To delete a Card and PIN user just delete the card</p>	<p>2 <input type="text" value="User ID"/> <input type="text" value="#"/></p>
<p>To add a card user in card mode (<input type="text" value="3"/> <input type="text" value="0"/> <input type="text" value="#"/>)</p>	

To Add and Delete a card user	The operating is the same as adding and deleting a card user in <input type="text" value="3"/> <input type="text" value="2"/> <input type="text" value="#"/>
To delete All users	
To delete ALL users . Note that this is a dangerous option so use with care	<input type="text" value="2"/> <input type="text" value="0000"/> <input type="text" value="#"/>
To unlock the door	
For a PIN user	Enter the <input type="text" value="PIN"/> then press <input type="text" value="#"/>
For a card User	<input type="text" value="Read card"/>
For a card and PIN user	<input type="text" value="Read card"/> then press <input type="text" value="PIN #"/>

11.2 Door Settings

Relay Output Delay Time	
To set door relay strike time	<input type="text" value="*"/> <input type="text" value="Master code"/> <input type="text" value="#"/> <input type="text" value="4"/> <input type="text" value="0~99"/> <input type="text" value="#"/> <input type="text" value="*"/> 0-99 is to set the door relay time 0-99 seconds
Alarm output time	
To set the alarm output time (0-3 minutes) Factory default is 1 minute	<input type="text" value="5"/> <input type="text" value="0~3"/> <input type="text" value="#"/>
Keypad Lockout & Buzzer Activated. If there are 10 invalid cards or 10 incorrect PIN numbers in a 10 minute period either the keypad will lockout for 10 minutes and the inside buzzer will operate for 10 minutes, depending on the option selected below.	
Normal status: No keypad lockout or buzzer operate (factory default)	<input type="text" value="7"/> <input type="text" value="0"/> <input type="text" value="#"/> (Factory default settings)
Keypad Lockout	<input type="text" value="7"/> <input type="text" value="1"/> <input type="text" value="#"/>
Inside buzzer operate	<input type="text" value="7"/> <input type="text" value="2"/> <input type="text" value="#"/>
Working Modes	
Standalone access control mode	<input type="text" value="*"/> <input type="text" value="Master code"/> <input type="text" value="#"/> <input type="text" value="7"/> <input type="text" value="3"/> <input type="text" value="#"/> The door will be locked automatically after open the door normally
Relay toggle mode	<input type="text" value="*"/> <input type="text" value="Master code"/> <input type="text" value="#"/> <input type="text" value="7"/> <input type="text" value="4"/> <input type="text" value="#"/> The door will not be locked automatically. To lock the door, the user has to read the card or press the exit button.
Reader mode	<input type="text" value="*"/> <input type="text" value="Master code"/> <input type="text" value="#"/> <input type="text" value="7"/> <input type="text" value="5"/> <input type="text" value="26/34"/> <input type="text" value="#"/> WG26/34 input and output

Data Backup. Example: Backup the data of machine A to machine B (Must close the Keypad output ,(* Master code # 8 8 #)

The green wire and white wire of machine A connects with the green wire and white wire of machine B correspondingly, set B for receiving mode at first, then set A for sending mode, the indicator light turns green flash during the data backup, data backup is successful when indicator light turns red.

Data backup input	* Master code # 7 7 #	The device will receive the data.
Data backup output	* Master code # 7 6 #	The device will send the data.
LED Light & Buzzer & Keypad Settings		
LED Light Flash	* Master code # 80 #	Default
LED Light off	* Master code # 81 #	LED light stay off
Buzzer on	* Master code # 85 #	Default
Buzzer off	* Master code # 86 #	The buzzer doesn't sound
Keypad output on	* Master code # 87 #	keypad output is turned on
Keypad output off	* Master code # 88 #	keypad output must be turned off during data backup

12. The unit operating as a Wiegand Output Reader

The unit supports a Wiegand 26 bit output, so the Wiegand data wires can be connected to any controller which supports a Wiegand 26 bit input.

