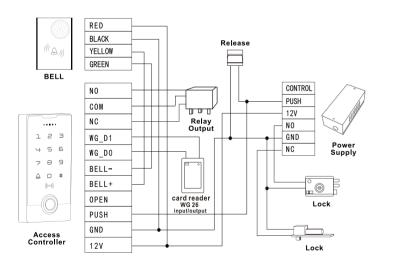
# METAL PASSWORD FINGERPRINT ACCESS CONTROL MACHINE

Installation and operation manual

# **WIRING DIAGRAM**



Please read this manual carefully before use

#### 1. Technical Parameter

#### 1.1) Product function

- Product support: all-in-one machine, card reader input and output, electrical switch, automatic card loading and other modes.
- · Support fingerprint, user card (ID card and IC card), password and other door opening methods.

# 1.2) Product electrical parameters

Projects	Parameter value	Projects	Parameter value
Voltage	DC12V	Ambient temperature	0-60
Electric current	≤300mA	Card user capacity	10000

# 1.3) Indicator and buzzer status

Working condition	Indicator light	Buzzer
Reader mode		
All in one mode	The red light is always on	
Electrical switch mode		
Automatically add user mode	Ultra slow flashing of red light1s/1s	
Set status	Ultra slow flashing of red and green lights1s/1s	
After inputting the 2-bit command code for setting status	The red and green lights are always on	2 short beeps
Set successfully	Synchronous flashing of green light	3 short beeps
operation failed	The red light flashes synchronously for 3 times	2 short beeps
During unlocking	The green light is always on	
Buzzer alarm	Red light flash	Alarm sound

# 2. Installation and wiring instructions

# Terminal description

NO	Mark	Color	Function
1	12V	Red	Power+
2	GND	Black	Power-
3	PUSH	Blue	Unlock signal output
4	OPEN	Yellow	Door Release
5	BEL+	Grey	BELL+
6	BEL-	Purple	BELL-
7	D0	Green	WG DATA0
8	D1	White	WG DATA1
9	NC	Brown	Relay NC output
10	СОМ	Orange	Relay COM output
11	NO	Pink	Relay NO output

#### 3. Machine settings

#### Enter programming mode:

Press # -- enter the 6-digit programming password -- press # , you can enter the programming mode. All operations on the machine must enter the programming mode (factory default programming password: 123456).

After setting, press the return key ( ( ) to exit the setting.

#### Example (add user):

First press # the key, then enter the programming password 123456, then press the # key, then press 101, then swipe the card (add user card) or continuously press the fingerprint for 3 times (add fingerprint user), and finally press the key twice to exit the setting. The user is added successfully.

# 3.1) Restore factory settings

- 1. Enter "programming mode" and press # 09 9999 # key to restore factory settings.
- Forced recovery of factory programmed password
   Power on and short circuit the "reset" on the circuit board to restore the factory programming password

# **Factory Default**

Parameter name	Default value	Parameter name	Default value
Door opening mode	Card or password or fingerprint	Backlight	Delay
Door opening delay	5 seconds	Programming password	123456
Public door opening password	Nothing	Default mode	All in one mode (access control)
WG input / output format	Wg26		

#### 5. Supplementary notes

- The user number range is 0001-9999. When adding a user, the number starts to increase after the largest user number. For the user deleted in the middle, the number is vacant.
- Adding a personal door opening password is equivalent to adding a password user, which corresponds to a user number.
- Continuous card number plus card. The starting card number can be 10 digits in front of the card or 8 digits behind the card.
- 4. Standby mode: press # key for 5 seconds without other key operations, and return to standby mode.
- Setting status: press 🙆 to exit the setting; After entering the submenu, there is no operation for 30 seconds and exit the setting.

Note: in order to ensure the stable use of the products, it is recommended that all the above

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	Purpose	Operations	Instructions
Admini- strators	Change programming password	# Programming password # 00 New password # repeat new password #	The default password is "123456", and forget the programming password, the code can restore the factory programmed password
	Add administrator	# Programming password # 01 Swipe the card or press the fingerprint 3 times #	Equivalent to "programming password"
	Delete administrator	# Programming password # 02 Swipe card or press fingerprint #	Delete administrator
	All in one mode	# Programming password # 03 1 #	Set the machine to all-in-one mode (default)
mode	Reader mode	# Programming password # 03 2 #	Set the machine to reader output mode
	Electrical switch mode	# Programming password # 03 3 #	In this mode, swipe the card to open the door, and then swipe it once the door is closed, it can be operated circularly
	Add user card automatically	# Programming password # 03 4 #	When this function is turned on, in non programming mode Swipe the card twice to automatically add the user card
	Add user card automatically (manual coding)	# Programming password # 03 5 User code (4 digits) card reading #	First number (0001-9999) any 4 digits Swipe the card and press #
pass-	Add public doorpassword	# Programming password # 04 3-6 digit password #	Public door opening passwords can be set, not allowedPress "#" for 6 digits (no password by default)
word	Modify personal door opening password	# Programming password # 05 Swipe card or press fingerprint 3-6 user password #	
	Set reader input / output format	# Programming password # 06 Enter 26 or 34 #	The default format is WG26, which sets the machine outputFormat is 26 or 34
	Export device data	# Programming password # 07 #	Export user data to USB flash disk, and make 2 short beeps
	Import device data	# Programming password # 08 #	No USB flash disk is detected, and the original data will not be deleted
	Restore factory settings	# Programming password # 09 9999 #	Restore the factory default settings and return automatically Set status
Auto number	Add card or fingerprint user	# Programming password # 10 1 Read the card or press fingerprint 3 times #	Add fingerprint or card user
add user	Add personal door opening password	# Programming password # 10 2 3-6 digit new password #	The password is 3-6 digits
	Add users by card number	# Programming password # 10 3 8 or 10 digit card number #	
	Batch by serial number card Add use	# Programming password # 10 4 Starting card number # card quantity #	The card number defaults to the last 8 digits on the card
	Add card and fingerprint user	# Programming password # 10 6 After reading the card, press the fingerprint 3 times #	The number is generated automatically and can be added continuously"Card + fingerprint" user
	Add card or fingerprint by number	# Programming password # 20 1 User number (4 digits) # Read the card or press fingerprint 3 times #	When the user number is repeated or out of range, Error reporting waiting for re-entry of number
Add user	Add personal door opening password	# Programming password # 20 2 User number (4 digits) # New password #	
by nana	Add users by card number	# Programming password # 20 3 User number (4 digits) # 8 or 10 digit card number #	The card number defaults to the last 8 digits on the card
	Add serial card user	# Programming password # 20 4 User number (4 digits) # Starting card number # card quantity #	You can add multiple users (serial cards) at one time
	Add "card + password" user	# Programming password # 20 5 User number (4 digits) # Card swiping 3-6 digit user password #	The door opening mode needs to be used with card and password at the same time
	Add card and fingerprint user	# Programming password # 20 6 User number (4 digits) # After reading the card, press the fingerprint 3 times #	Fingerprint and password shall be used at the same time to open the door

	Purpose	Operations	Instructions
Delete	Delete all users	# Programming password # 30 0 000 #	Delete all cards, passwords and fingerprints, Do not delete public door opening password
user	Delete card or fingerprint	# Programming password # 30 1 Swipe the card or press the fingerprint once #	Delete multiple users at one time and swipe cards continuously or press the fingerprint once
	Delete password user	# Programming password # 30 2 User password #	Delete personal door opening password
	Delete card number user	# Programming password # 30 3 8 or 10 digit card number #	If the card is broken or lost, you can use the card number delete user card
	Delete numbered user	# Programming password # 30 4 User number (4 digits) #	Delete the user corresponding to this number, and the correspondingThe card number and password are also deleted
	Delete all password users	# Programming password # 30 5 000 #	Delete all passwords, excluding public passwords
Door	Card or password to open the door	# Programming password # 40 1 #	In standby mode, fingerprint card and all password user can opened the door (factory default)
opening mode	Card or fingerprint+Password open the door	# Programming password # 40 2 #	You need to swipe your card or press your fingerprint before pressing your password can open the door
	Card or password to open the door	# Programming password # 40 3 #	You need to swipe your card and then press your fingerprint to open the door
	Modify door opening delay	# Programming password # 41 00-99 #	Set the door opening time to 0-99 seconds
Safety	Normal operating mode	# Programming password # 50 1 #	Ifactory default
function	Locked working mode	# Programming password # 50 2 #	If the password is entered incorrectly for more than 10 times, it will be locked 5 minutes (the key cannot be operated within 5 minutes)
	Alarm operation mode	# Programming password # 50 3 01-99 #	The password was entered incorrectly more than 10 times, Alarm 1-99 points
Back- light	The key light is always off	# Programming password # 60 1 #	
	The key light is always on	# Programming password # 60 2 #	
	Key light delay	# Programming password # 60 3 #	After no card swiping or key pressing, Lights out automatically after 5S (default)

#### Remarks:

- 1. When adding or deleting a card (user) is encountered during the setting operation of the all-in- one machine, the card number defaults to the 8 digits at the end of the card number on the card. If the card number uses the first 10 digits on the card, the input format of the card reader must be set to wg34 (refer to "3.2 all-in-one machine setting function setting setting the input and output format of the card reader" for details).
- 2. The password is 3-6 digits, and less than 6 digits need to be confirmed by press # the key.
- 3. After the operations of "card reader mode", "electrical switch mode"and automatically add use r card", if you need to return to the normal working mode, you need to modify the machine to "all-in-one machine mode". See the operation list for the operation mode.

## 3.3) Precautions for setting of all-in-one machine

Precautions related to the setting of the all-in-one machine. After completing one setting at a time, return to the initial setting state. At this time, other settings can be made without re entering the programming setting. Press the "@" key twice in the setting state to directly exit the setting and return to the standby state, and exit the setting and return to the standby state without operation for 30 seconds

- 4. Card reader mode operation (in card reader mode, Wigan signal can be output)
  Enter settings:
- 4.1) set the card reader mode: press "# Programming password # 03 2 # "to set the machine as the card reader output mode.
- 4.2) Directly output the Wigan signal according to the fingerprint or Swipe the card, sound for a long time, and the green light is on synchronously.

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