NIVIAN



INDEPENDENT ACCESS CONTROL | CARD

NV-ACCESS-RFID

1.1.Introduction

This series of product is a new generation of multifunctional standalone access control. It adopts new ARM core 32-bit microprocessor design, which is powerful, stable and reliable. It includes reader mode and standalone access control mode etc.. It's widely applied to different occasions, such as offices,residential communities, villa,bank and prison etc.

2.Features

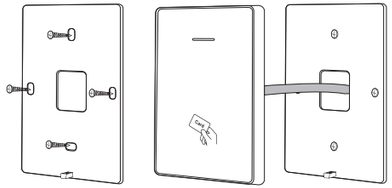
Card Type	EM/MF
Keypad Characteristic	Operate by infrared remote control
Output Way	Contains reader mode, the transmission format could be adjusted by users.
Admin Card	Support admin add card, admin delete card and setting card
User Capacity	10,000 card users
Unlocking signal	The unlocking signal adopts NO,NC,COM output of relay

3. Specifications

Operating Voltage: DC 12V+10% (Can customize 24V DC)	
Standby Current: ≤35mA	Operation Current: ≤100mA
Operating Temperature: -20℃~60℃	Operating Humidity: 0%~95%
Maximum Rated Current: ≤1A	Door Relay Time:0～99s(adjustable)

4.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. (See the figure below)

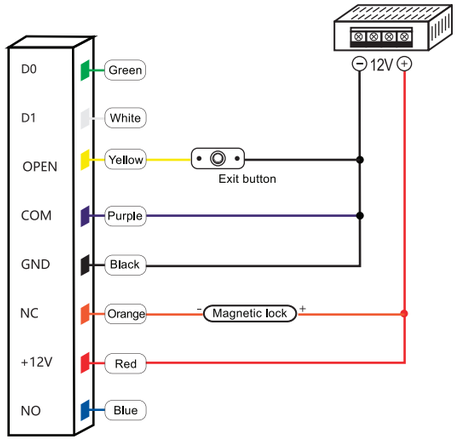


5. Wiring

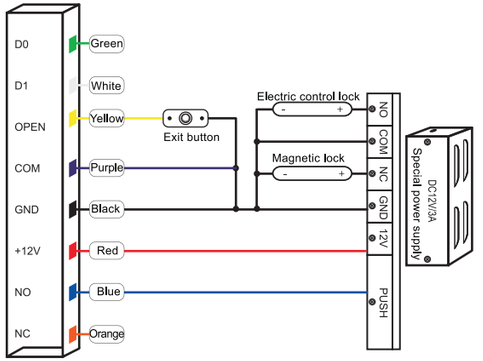
Color	Marks	Description
Green	D0	Wiegand Input(Wiegand Output in Card Reader Mode)
White	D1	Wiegand Input(Wiegand Output in Card Reader Mode)
Yellow	OPEN	Exit button input end
Red	+12V	Positive power supply
Black	GND	Negative power supply
Blue	NO	Relay NO end
Purple	COM	Relay COM end
Orange	NC	Relay NC end

6.Diagram

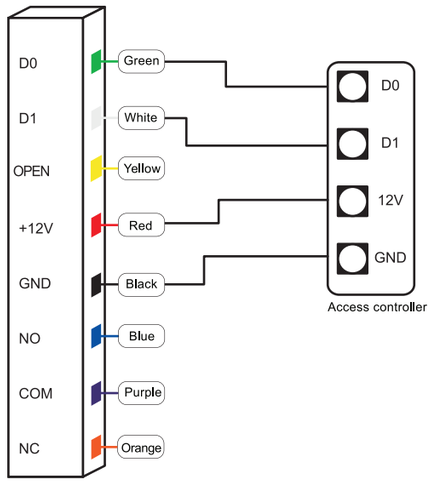
6.1 Common Power Supply



6.2 Special Power Supply



6.3 Reader Mode



V7.1

7.Sound & Light indication

Operate Status	LED Light Color	Buzzer
Standby	Red	
Operation successful	Green	Beep-
Operation failed		Beep-Beep-Beep
Admin card enter programming		Beep-Beep-
Admin card exit programming		Beep-
Press * key		Beep-
Data backup	Green indicator flash slowly	

8. Admin Menu

Admin Card Operation

1	**Add and Delete Users**		
	Add card user	Read admin add card / Read user card ... / Read admin add card	Read card continuously to add card user
	Delete card user	Read admin delete card / Read user card ... / Read admin delete card	Read card continuously to delete card user
	Delete ALL users	Read admin delete card / Read admin add card / Read admin delete card	Delete ALL users
2	**Door opening time setting**		
	Door opening time : 1s	Read admin add card / Read setting card once / Read admin add card	
	Door opening time : 5s	Read admin add card / Read setting card twice / Read admin add card	Default
	Door opening time : 10s	Read admin add card / Read setting card thrice / Read admin add card	
4	**Data backup (See figure 10)**		
	Data backup output	Read setting card / Read admin add card twice / Read setting card	Green indicator light flash slowly
	Data backup input	Read setting card / Read admin delete card twice / Read setting card	Green indicator light flash slowly

Operation by Remote controller

1	**Add Users**		Remarks
	Change admin code	* Admin code # 0 New code # / Repeat new code #	Default admin code: 999999
	Add card user	* Admin code # 1 Read card #	Read card continuously to add card user
	Add card number user	* Admin code # 1 / 8 digits/ 10 digits card number #	
2	**Delete Users**		
	Delete card user	* Admin code # 2 Read card or / 8 digits/ 10 digits card number #	Read card continuously to delete card user
	Delete ALL users	* Admin code # 2 0000 #	Delete ALL users
3	**Door opening time setting**		
	Door opening time setting	* Admin code # 4 0~99 #	Door opening time range: 0-99 s Default : 5s
4	**Mode setting**		
	Standalone access control mode	* Admin code # 50 #	After unlocked the door, the door will be locked automatically
	Relay toggle mode	* Admin code # 51 #	After unlocked the door, users should read the card again or press exit button to lock the door.
	Reader mode	* Admin code # 52 26/34 #	WG26/34 input and output
5	**Data backup (See figure 10)**		
	Data backup output	* Admin code # 70 #	Send the data to external device.
	Data backup input	* Admin code # 71 #	The device will receive the data.

9.Admin Card Operation

9.1 Add Card

Read admin add card / Read the 1st user card / Read the 2nd user card ... / Read admin add card

Note: The admin add card is used to add card users continuously and quickly. When you read the admin add card at the first time, you will hear short "BEEP-BEEP" and the indicator light turns orange, it means you have entered into add user programming. When you read the admin 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 admin delete card / Read the 1st user card / Read the 2nd user card ... / Read admin delete card

Note: The admin delete card is used to delete card users continuously and quickly. When you read the admin delete card at the first time, you will hear short "BEEP-BEEP" sound twice and the indicator light turns orange, it means you have entered into delete user programming. When you read the admin 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.Data Backup Operation

Example: Backup the data of machine A to machine B (Machine A uses admin card of A, machine B uses admin card of B)

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.

11 Reset to Factory Default/Register admin card

Users can reset to the factory default when the admin code is forgotten, or the default settings has been modified, operation as below:

Power off, press and hold the exit button continuously, power on, release the exit button immediately when hearing beep sound twice, LED indicator shows orange, the admin code has been reset to 999999, factory default settings are successful.

Power off, press and hold the exit button continuously, power on, release the exit button immediately when hearing beep sound twice, LED indicator shows orange, swipe the first card as for admin add card, swipe the second card as for admin delete card, swipe the third card as for setting card.

Note: Registered user data won't be deleted when reset to factory default.