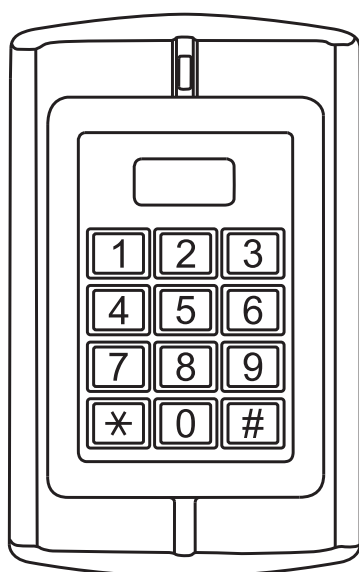


Ness 101-082B

Metal Waterproof Access Control
Keypad (non-addressable)



101-082B

User Manual

1. Introduction

Single door stand alone multi function access controller
Keypad and Card Reader with Wiegand output. Non-addressable

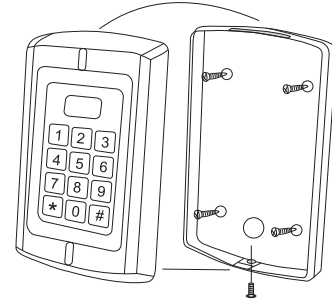
2. Technical Specifications

Features	Description
Appearance	Metal case, anti-explosion and anti-tamper
Waterproof	IP65
Input voltage	DC: 12-24V AC: 12-18V
Capacity(max)	2500 users
PIN	4digits, Not related to the card.
Master card	Add/delete user
As reader	Support Wiegand 26bits, PIN wiegand output is virtual number.
Connect external reader	Can connect any EM/HID/IC readers with wiegand 26 output
Connect high power alarm	External current of the alarm $\geq 3A$

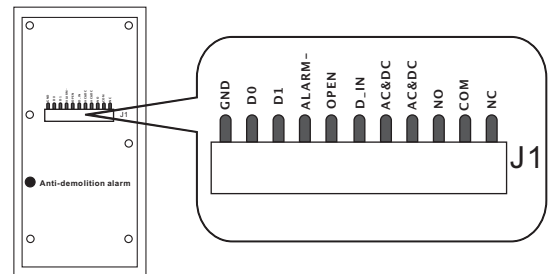
3. Installation Procedure

3.1 Installation and Fixation

- 3.1.1 Drill hole on the wall according to the back size of the machine or install distributing box well.
- 3.1.2 Thread the cable through cable hole, connect related cable. For the un-used cable please separate with insulating tape and keep well in case of short circuit.
- 3.1.3 Fix back cover on the wall or distributing box with screw.
- 3.1.4 After wiring, install front casing to the back casing and fix well.



101-082B



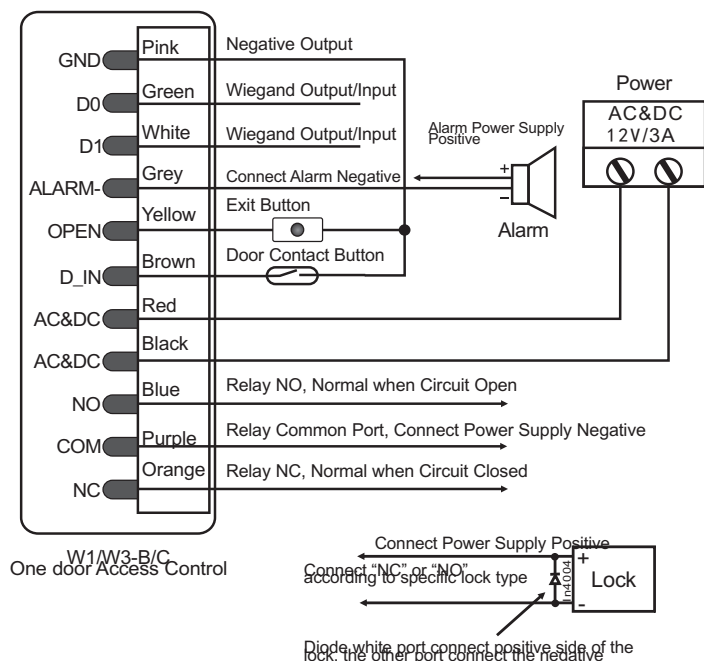
PCB connect diagram

3.2 Wiring

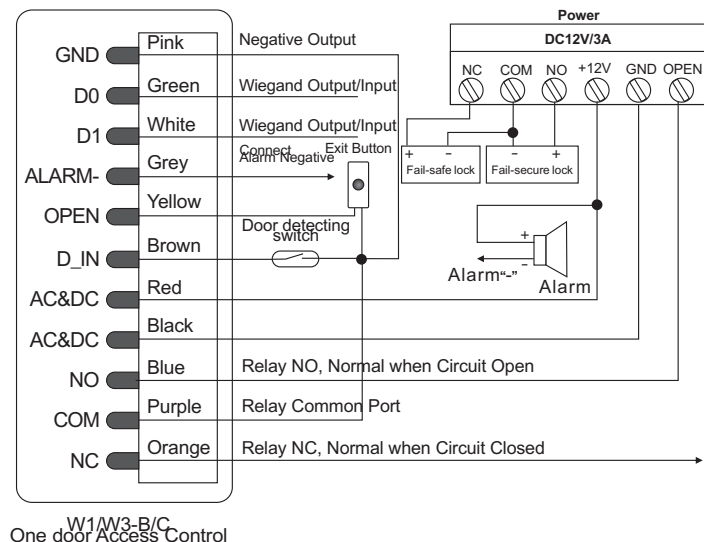
Function	Color	Description
D0	Green	Wiegand 26 output/input
D1	White	Wiegand 26 output/input
ALARM-	Grey	Alarm Negative
OPEN	Yellow	Request to Exit Button
D_IN	Brown	Door Contact
AC&DC	Red	12V AC&DC Regulated Power Input
AC&DC	Black	12V AC&DC Regulated Power Input
NO	Blue	Relay NO
COM	Purple	Relay COM
NC	Orange	Relay NC
GND	Pink	Negative

3.3 Connection Diagram

3.3.1 Common power supply



3.3.2 Special Power Supply



4. Administrator Operation

1.To Reset to Factory Default

To reset to factory default, power off, press “*”, hold it and power on, release it until hear two beeps and the LED turns in orange, it means waiting for adding master card. Then read any two EM cards, the first one is “adding user card”, the second is “deleting user card”. After that, the LED will turn in red, means succeed in resetting to factory default and adding the master card. If don't set master card in 10 seconds, LED will turn in red, and machine enters into working status.

Note: Reset to factory default, the user's information is still retained.

2.Enter into Programming Code:

Press [*] Master code [#] 888888 is the default factory master code.

Note: Below 3 to 11 items all operation need in programming mode.

3.Change Master Code:

Press [0] New code [#] New code [#]

Note: the master code can be any 6 digits, please stores well.

4.To add users

4.1 To add card users automatically.

Press [1] Read card1 [Read card2]... [#]

Mark: The range of ID number : W1/W3-B is any number between 1~2500. W1/W3-C is any number between 1~2000. The ID number is auto generation and be Search continuously. The add card will auto associate PIN “1234” (factory default) , this PIN could not open the door.

4.2 To add card users manually

Press [1] ID number 1# read card1 ID number 2# read card2 ... [#]

Mark: Press [#] means “confirm”, Press last [#] means end of the current settings. Press [*] means to exit the current operation

4.3 To add no-card users

Press [1] ID number 1# PIN 1 ID number 2# PIN 2 ... [#]

Mark: The PIN of W1/W3-B is 4 digits any number;The PIN of W1/W3-C is 4-8 digits any number.(exception of 1234)

4.4 To add card users synthetically

Press **1** **read card1** **ID number 1# read card2** **ID number 2# PIN#** ... **#**

4.5 To add users by manager card

Manager add card **Swipe add user card continuously**
Manager add card

That is exit add users settings

4.6 To add consecutive card users

Press **5** **ID number #** **8 digits number 1 #** **Card number #** .
Mark: The quantity of W1/W3-B cards could not exceed 2500.
The quantity of W1/W3-C could not exceed 2000. The ID number must be continuous vacant number.

5. To delete users

5.1 Auto Delete

Press **2** **Read card1** **Read card2** ... **#**

5.2 Manual Delete

Press **2** **ID number1#** ... **#**

5.3 Synthetical Delete

Press **2** **Read card1** **ID number1#** ... **#**

5.4 Delete all users

Press **2** **0000** **#**

5.5 To delete User by Manager Delete Card

Manager delete card **Swipe delete user card continuously**
Manager delete card That is exit delete users settings

6. Door Open mode settings

6.1 Open by cards:

Press **3** **0** **#**

6.2 Open by cards+PIN

Press **3** **1** **#**

6.2 Open by cards or PIN(Factory default)

Press **3** **2** **#**

7. Door relay time settings

Press **4** **0~99** **#**

Marks: The door relay time is between 0~99 seconds, the factory default setting is 5 seconds.

8. Door open detection settings

8.1 To disable door open detection. (Factory default)

Press **6** **0** **#**

8.2 To enable door open detection

Press **6** **1** **#**

8.2.1When used with the function, there are two situation: if the door is opened normally, but not closed after 1 minute, the inside buzzer will beep automatically to remind people to close the door and continue for 1 minute before switching off automatically.

8.2.2if the door is forced open, the inside buzzer and alarm output will both operate.

9. Security Mode settings

9.1 Normal status:(Factory default)

Press **7** **0** **#**

9.2 Keypad Lockout

Press **7** **1** **#**

If there are 10 invalid cards or 10 incorrect PIN numbers in a 10 minute period either the keypad will lockout for 10 minutes.

9.3 Alarm Output

Press **7** **2** **#**

If there are 10 invalid cards or 10 incorrect PIN numbers in a 10 minute period either the the outside buzzer and alarm output will both operate.

10. To set the facility code: (Only the W1/W3-B have this function)

Press **8** **1-255** **#**

Marks: This facility PIN output as Wiegand mode: If the facility Code is 123, Factory default PIN is 8888. When press **8888** **#** Facility will output a virtual number 12308888 .

11. Alarm output time

Press **9** **1~3** **#**

Factory default is 1 minute

5. User Settings

1. Cards users change the PIN

* Read Card Old PIN # New PIN # Repeat New PIN #

Marks: W1/W3-B PIN is only 4digits; Marks:W1/W3-C PIN can be 4-8digits.The PIN could not change to “1234”

2. No card users the PIN

* ID number # Old PIN # New PIN # Repeat New PIN #

Marks: W1/W3-B PIN is only 4digits;

Marks: W1/W3-C PIN can be 4-8digits.The PIN could not change to “1234”

3. Open door by users card

Read Card If it is valid ,the door will open.

4. Open door by PIN

Users PIN # If the PIN is right, the door will open.

5. Open door by users card+PIN

Read Card Users PIN #

If the card and PIN are right, the door will open.

6. To remove the alarm

6.1 The inside buzzer and alarm output will both operate.

Read valid card or press Master Code # to reset the Door Forced Open warning.

6.2 Close the door forced warning

Close the door or Read valid card or Master Code # to reset the Door Forced warning

6. Sound and Light indication

Operation Status	Red Light	Green Light	Buzzer
Stand by	Slow flash	Off	—
Press keypad	—	—	Short Ring
Operation successful	Off	Bright	Ring...
Operation failed	—	—	3 Short Rings
Enter into programming mode	Bright	Off	Ring...
In the programming mode	Bright	Bright	—

Exit from the programming mode	Slow flash	Off	Ring...
Open the door	Off	Bright	Ring...
Alarm	Quick flash	Off	Alarm

7. Specifications

Operating Voltage	DC:12~24V AC:12-18V
Idle Current	35±5mA
Active Current	<80mA
Card Reading Distance	3~6 cm
Operating Temperature	-40~60°C
Lock Output Load	2A
Alarm Output Load	3A

8. Packing List

Name	Size	Quantity
Machine	W1-B/C ; W3-B/C	1 set
Packing box	W1-B/C ; W3-B/C	1 piece
Rubber bungs	∅4mm X28mm	4 PCS
Self tapping screws	∅4mm X28mm	4 PCS
Master Card		2 PCS
Screw driver	Star diagram	1 piece
Drying agent		1 Package

Remarks: Master Card (Master Add Card & Master Delete Card).



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Quality
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Ness 101-082B Access Control Keypad
Programming and User Manual

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