NAC-5008WA
WATERPROOF METAL
ACCESS CONTROL IP66
User Manual

INTRODUCTION

The NAC-5008WA is a compact, waterproof stand-alone programmable access control system that provides proximity entry for up to 2000 users. It uses an Atmel micro controller assuring maximum performance in any environment, and the low-power circuit extends its service life. The products unique features are its simple design, easy operation, and high reliability.

Features

- Waterproof, conform to IP66
- Vandal resistant metal enclosure
- Read 125KHz EM or 13.56MHz Mifare Card or tag
- One programmable relay operation
- Pulse mode, Latch mode
- Card block enrolment
- Built in light dependent resistor (LDR) for anti tamper
- Buzzer for audible or silent mode
- Low temperature resistance (40°C)

Specifications:

Wire No.	Description
User Capacity	2000
Operating Voltage	9-24V DC
Idle Current	<40mA
Proximity card Reader	EM/Mifare
Radio Technology	125KHz or 13.56MHz
Read Range	3-6cm
Wiring Connections	Relay Output, Exit Button
Relay	One (NO, NC, Common)
Adjustable Relay Output	0-99 Seconds

Time Lock Output Load	2 Amp Maximum
Environment	Meets Ip66
Operating Temperature	-40°C~60°C
Operating Humidity	0% RH~ 98%RH
Physical	Zinc-Alloy Enclosure
Surface Finish	Powder Coat
Unit Weight	260g(Square)/180(Mini)
Shipping Weight	320g(Square)/260(Mini)

Carton Inventory:
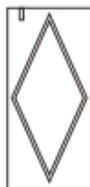
Access Control

Infrared Remote Control

Master Add Card

Master Delete Card

Master Cards

Self Tapping Screws: Φ3*25mm

Wall Anchors

Diode IN4004 (For relay circuit protection)
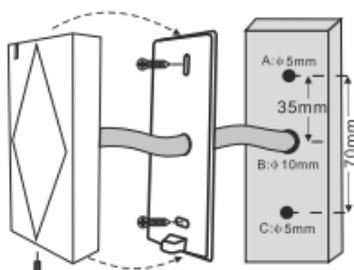
Screw Driver

Dimension:

L103xW48xH19(mm)

INSTALLATION

- Remove the back cover from the unit
- Drill 2 holes (A, C) on the wall for the screws and one hole for the cable
- Knock the supplied rubber bungs to the screw holes (A, C)
- Fix the back cover firmly on the wall with 2 flat head screws
- Thread the cable through the cable hole 9b)
- Attach the unit to the back cover

Wiring

Colour	Function	Notes
Red	Power+	9-24 Volts DC Regulated Power Input
Black	GND	Ground
White	NO	Normally Open Relay Output
Brown	COM	Common Connection for Relay Output
Green	NC	Normally Closed Relay Output
Yellow	OPEN	Request to Exit Input (Rex)

CONNECTION DIAGRAM
Common power supply
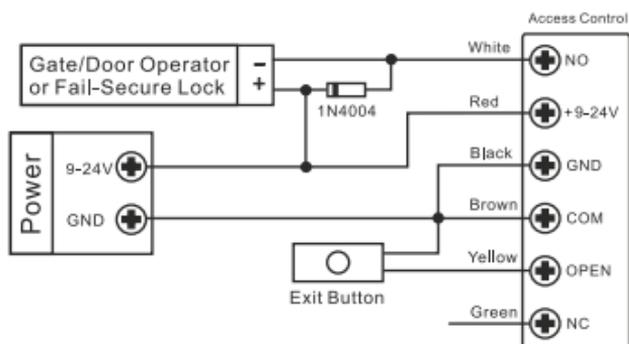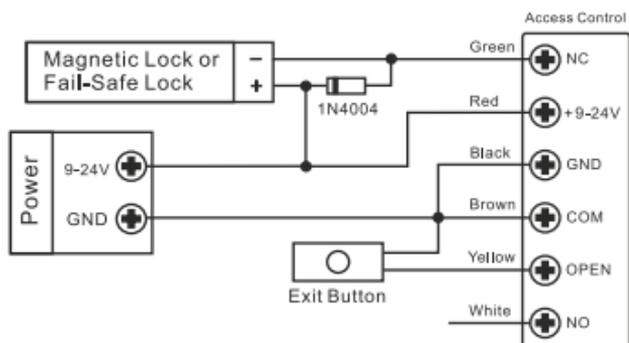
| Magnetic Lock or Fail-Safe Lock | — | | Green | | Access Control |
| | + | 1N4004 | Red | | NC |

Access Control

Magnetic Lock or Fail-Safe Lock
— +
1N4004

Power
9-24V
GND

Exit Button

Green — NC
Red — +9-24V
Black — GND
Brown — COM
Yellow — OPEN
White — NO

Access Control

Gate/Door Operator or Fail-Secure Lock
— +
1N4004

Power
9-24V
GND

Exit Button

White — NO
Red — +9-24V
Black — GND
Brown — COM
Yellow — OPEN
Green — NC

Attention: A 1N4004 or equivalent diode is needed when use a common power supply, or the reader might be damaged. (1N4004 is included in the packing)

Common power supply

Power
- PUSH
- 9-24V
- GND
- NO
- GND COM
- NC

Lock — Magnetic Lock or Fail-Safe Lock

Access Control
- White — NO
- Red — +9-24V
- Black — GND
- Brown — COM
- Yellow — OPEN
- Green — NC

Exit Button

Power
- PUSH
- 9-24V
- GND
- NO
- GND COM
- NC

Lock — Gate/Door Operator or Fail-Secure Lock

Access Control
- White — NO
- Red — +9-24V
- Black — GND
- Brown — COM
- Yellow — OPEN
- Green — NC

Exit Button
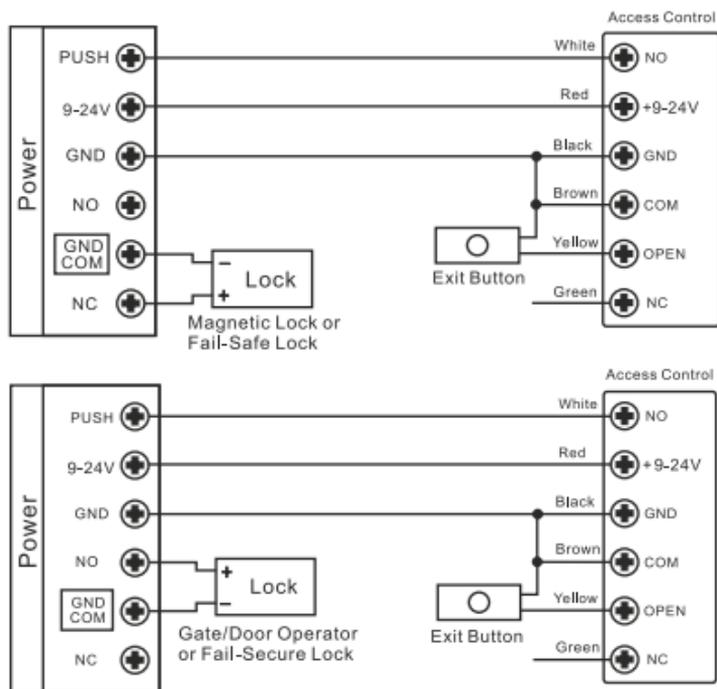
Attention: A 1N4004 or equivalent diode is needed when use a common power supply, or the reader might be damaged. (1N4004 is included in the packing)

Simplified Instruction	
Function Description	**Operation**
Enter the Programming Mode	***(Master Code)#** (123456 is the factory default master code)
Change the Master Code	**O (New Master Code) #** **(Repeat New Master Code) #** (Code :6 digits)
Add Card User	**1 (Read add cards)#** (Can add Card continuously)
Delete Card User	**2 (Read Card)#** (can delete card continuously)
Exit from the programming mode	*
How to be granted access	
Card User	Read card

PROGRAMMING

Programming will vary depending on access Configuration.

Follow the instruction according to your access configuration.

General Programming Information

- **Remote Control:** Please use the Infrared Remote Control to Program the Reader. The infrared receiver head is near the LED, so when programing the reader please direct the Remote Control to the LED.
- **User ID Number:** Please use the Infrared Remote Control to Program the Reader. The infrared receiver head is near the LED, so when programing the reader please direct the Remote Control to the LED.
- **Proximity Card:** 125 Hz EM card or 13. 56 MHz card

Enter and Exit Program mode

Programming Step	Keystroke Combination
Enter Program Mode	*(Master Code)# Factory default is 123456
Exit Program Mode	*

Set Master Code

Programming Step	Keystroke Combination
Enter Program Mode	*(Master Code)#
Update Master Code	0 (New Master Code)# (Repeat New Master Code)#
Exit Program Mode	*

Add User Cards

Programming Step	Keystroke Combination
Enter Program Mode	*(Master Code)#
Add Card : Using Auto ID (Allows the device assign card to next available user ID number) **OR**	1 (Read Card)# Repeat Step 2 for additional user cards
2. Add Card : Select Specific ID (Allow manager to define a specified Use ID to associate the card to) **OR**	**1 (User ID)# (Read Card) #** The user ID is any number from 1- 2000
Add Card :By Card Number **OR**	**1 (Input 8/10 digits Card number)#**
2.Add Card :Block Learn (Allows manager to add up to 2000 card to the Reader in a single step .) Takes 3 minutes to program.	**1 (User ID number)#(Card quatity)#(The first card 'number)#** Cards' number must be consecutive ; Card quantity =number of card to be enrolled.
Exit	*

Delete User Cards

Programming Step	Keystroke Combination
Enter Program Mode	*(Master Code)#
Delete Card : By read Card **OR**	**2 (Read card)#** Repeat Step 2 for additional user cards
Delete Card : By user ID **OR**	**2 (User card)#** The User ID is any number from 1-2000.
Delete Card : By Card Number	**2 (Input 8/10 digit card number)#**

Set Relay Configuration

The relay configuration sets the behavior of the output relay on activation.

Programming Step	Keystroke Combination
Enter Program Mode	*(Master Code)#
Pulse Mode **OR**	**3(1-99)#** The relay time is 1-99 seconds. Default is 5 seconds
Latch mode	**3 0 #** Set the relay to ON/OFF Latch mode
Exit	*

Set Strike-out Alarm

The strike -out alarm will engage after 10 failed card attempts, factory is OFF, The strike-out alarm can be set to deny access for 10 minutes after engaging or it can be set disengage only after entering a valid card or Master code

Programming Step	Keystroke Combination
Enter Program Mode	*(Master Code)#
Strike-Out OFF **OR** Strike -Out ON **OR** Strike-Out ON (Alarm) Set alarm time	**4 0 # (factory default)** **4 1#** Access will be denied for 10 minutes **4 2 #** **5 (0~3)#** Factory default is 1 minute Enter Master code # or Valid user card to silence
Exit	*

Set Audible and Visual Response

Programming Step	Keystroke Combination
Enter Program Mode	*(Master Code)#
Control LED **OR** Control Sounds	**OFF=6 1 #** **OFF=6 4 #** (Factory defaults are ON)
Exit	*

OTHERS
Users Operation:
Open the door: Read the Valid user card, the door will open.
Remove Alarm : Read Valid user card, or Input Master Code#

Reset to Factory Default:

To reset to factory default, power off, press the Exit Button hold it and power on, there will be two beeps, and the LED light turns yellow. Release the exit button, then read any two 125KHz EM card/13.56MHz Mifare cards, the LED will turn red, indicating the reset to factory default was successful. Of the two cards reading, the 1st one is Master Add card, the 2nd one is the Master Delete card. Remarks: Reset to factory default, the users' information is still retained

Erase all Cards

Master Code # 2 Master Code #

This will delete ALL User data, but all configuration data is retained.

Master Cards Using

Using Master Crds to add and delete card users	
Add a User Card	**Read Master Add Card** **Read User Card** Repeat Step 2 for additional user cards (**Read Master Add Card**)
Delete a User Card	**Read Master Delete Card** **Read User Card** Repeat Step 2 for additional user cards (**Read Master Delete Card**)

Sound and Light Indication

Operation Status	LED	Buzzer
Stand By	Red Light bright	-
Enter into programming mode	Red Light shines	One beep
In the programming mode	Yellow light bright	One beep
Operation error	-	Three beeps

Operation Status	LED	Buzzer
Exit from the program-ming mode	Red Light bright	One beep
Open lock	Green Light shines	One beep
Alarm	Red light Shines quickly	Beeps
Operation error	-	Three beeps