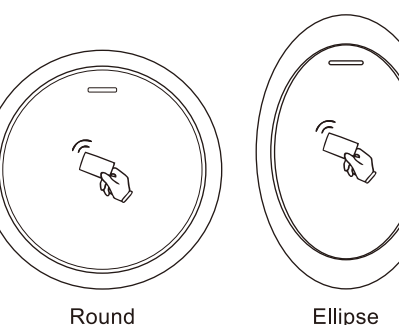


Proximity Access Control



Round

Ellipse

User Manual

INTRODUCTION

The device is a single door standalone access control with Wiegand input & output. It uses Atmel ARM9 assuring stable performance. The operation is very user-friendly, and low-power circuit makes it long service life.

It supports multi access modes in card access, PIN access, card & PIN access, or multi cards/PINs access.

Optional Version:

The device with Bluetooth-enabled. People can install the Bluetooth APP to easily access the door by their smartphone. (APP operation can refer from APP manual)

Features

- > Waterproof, conform to IP66
- > Vandal resistant metal enclosure
- > **One relay, 1,000 users (900 common users + 10 visitor)**
- > Can add any 4~6 digits PIN on Infrared Remote Control
- > Card Type: 125KHz EM Card/13.56MHz Mifare Card (optional)
 - > Wiegand 26 bits output, Wiegand 26/34bits input automatic identification
- > Card block enrollment
- > Tri-color LED status display
- > Pulse mode, Toggle mode
- > Low temperature resistance (-40°C)

Specifications

User Capacity	1000
Common User	990
Visitor User	10
Operating Voltage	12~24V DC
Working Current	≤150mA
Idle Current	≤60mA
Proximity Card Reader	EM or Mifare
Radio Technology	125KHz / 13.56MHz
Read Range	2~6 cm
PIN Length	4~6 digits
Wiring Connections	Relay Output, Exit Button, Wiegand Input, Wiegand Output

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Carion Inventory

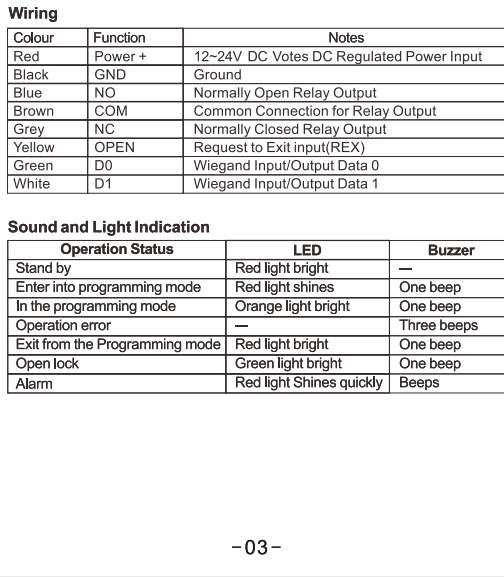
Diagram illustrating the components and assembly steps for the Carion unit:

- Round** and **Edge** views of the unit.
- Infrared Remote Control**.
- Diode 1N4004** (For relay circuit protection).
- Self Tapping Screws**.
- Wall Anchors**.
- Master Card**.
- Screw Driver**.

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 4 flat head screws.
- Thread the cable through the cable hole (B).
- Attach the unit to the back cover.

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Basic Configure

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
1. Enter Program Mode	* (Master Code) #
2. Update Master Code	0 (New Master Code) *# (Repeat New Master Code) # (Master code is any 6 digits)
3. Exit Program Mode	*

Connection Diagram

Common Power Supply

The diagram illustrates the wiring for a common power supply system. On the left, a terminal block contains the following terminals from top to bottom: NO (Blue), NC (Gray), COM (Brown), GND (Black), DC+ (Red), OPEN (Yellow), D0 (Green), and D1 (White). The NO, NC, and COM terminals are connected to a single point. The GND terminal is connected to the ground of the lock assembly. The DC+ terminal is connected to the positive terminal of a 12-24V DC power supply. The OPEN terminal is connected to the exit button of the lock assembly. The D0 and D1 terminals are connected to the negative terminal of the DC power supply. The lock assembly is shown as a dashed box containing a 'Magnetic Lock or Particle Lock' and a 'Fail-safe lock'. The DC power supply is represented by two circles labeled '12-24V DC' and 'GND'.

Access Control Power Supply

Programming

Programming will be varied depending on access configuration. Follow the instructions according to your access configuration.

Notes:

- > **User ID number:** Assign a user ID to the access card / PIN in order to track it

The Common User ID

PIN/ Card user ID: 0 – 989

Visitor User ID: 990 – 999

IMPORTANT: User IDs do not have to be proceeded with any leading zeros. Recording of User ID is critical. Modifications to the user require the User ID be available.

> Proximity Card

Proximity Card: 125KHz EM card or 13.56MHz Mfarcare card

> PIN:

Can be any 4–6 digits except 8888 which is reserved. Press PIN on the Infrared Remote Control.

Tips for PIN Security (Only valid for 6 digits PIN):

For higher security we allow you to hide your correct PIN with other numbers up to a max of 10 digits.

Example PIN: 123434
You could use ** (123434) ** or ** (123434)
(* can be any numbers from 0-9)

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Simplified Instruction	
Function Description	Operation
Enter the Programming Mode	* - Master Code - # then you can do the programming (123456 is the factory default master code)
Change the Master Code	0 - New Code - # - Repeat the New Code - # (code: 8 digits)
Add Card User	1 - Read Card - # (can add cards continuously) 1 - PIN - #
Add PIN User	(The PIN is any 4-6 digits except 8888 which is reserved) (Input PIN on the Infrared Remote Control)
Delete User	2 - Read Card - # 2 - PIN - #
Exit from the Programming Mode	*
How to release the door	
Card User	Read Card
PIN User	Input PIN #

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Add Card OR	1 (User ID) # (0-9) # (Read Card) / Input 8/10/17 Digits Card Number) #
2. Add PIN	1 (User ID) # (0-9) # (PIN) # (0-9 means times of usage, 0=10 times)
3. Exit	*

Change PIN Users(PIN length: 4-6 digits except 8888)

Programming Step	Keystroke Combination
Note: Below is done outside programming mode, users can undertake this themselves	
Change PIN	* (User ID) # (Old PIN) # (New PIN) # (Repeat New PIN) #
Change PIN of Card + PIN access mode (There will auto allocate PIN 8888) to cards when adding)	* (Read Card) (Old PIN) # (New PIN) # (Repeat New PIN) #

Delete Users

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Delete User- By Card /PIN	2 (Read Card)/(Input PIN) # The users can be deleted continuously.
OR	
2. Delete User- By ID number	2 (User ID) #
OR	
2. Delete User- By Card number	2 (Input 8/10/17 Digits Card Number) #
OR	
2. Delete ALL Users	2 (Master Code) #
3. Exit	*

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Programming Step	Keystroke Combination
1. Enter Program Mode	*(Master Code) #
2. Pulse Mode OR	3 (1~99) # (factory default) The relay time is 1-99 seconds. (Default is 5 seconds)
2. Toggle Mode	3 # Sets the relay to ON/OFF Toggle mode
3. Exit	*

Set Access Mode

For Multi user access mode, the interval time of reading can not exceed 5 seconds, or else, the device will exit to standby automatically.

Programming Step	Keystroke Combination
1. Enter Program Mode	*(Master Code) #
2. Card Access OR	4 0 #
2. PIN Access	4 1 #
2. Card + PIN Access OR	4 2 #
2. Card or PIN Access OR	4 3 # (factory default)
2. Multi User Access	4 3 (2~9) # (Only after 2~9 valid users, the door can be opened)
3. Exit	*

Set Strike-out Alarm

The strike-out alarm will engage after 10 failed entry attempts (Factory is OFF). It can be set to deny access for 10 minutes after engaging or disengage only after entering a valid card/PIN or Master code / card.

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Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Disable Sound	7 0 #
Enable Sound	7 1 # (factory default)
OR	
2. LED Always OFF	7 2 #
LED Always ON	7 3 # (factory default)
3. Exit	*

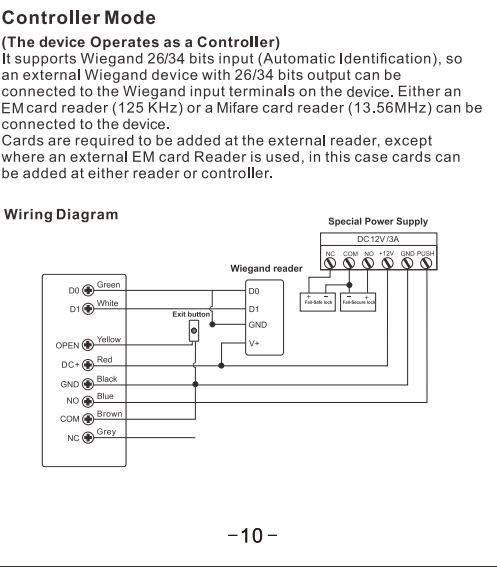
WIEGAND MODE

Pass-through Mode

(The device Operates as a Wiegand Output Reader)

In this mode the device supports a Wiegand 26 bit output so the Wiegand data lines can be connected to any controller which supports a Wiegand 26 bit input, and then the device will operate as a slave reader.

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Master Card Usage	
Using Master Card to add and delete users	
Add Card / PIN Users	1. Input (Master Card) 2. Input (Card) or (PIN #) Repeat step 2 for additional users 3. Input (Master Card) again
Delete Card / PIN Users	1. Input (Master Card Twice within 5s) 2. Input (Card) or (PIN #) Repeat step 2 for additional users 3. Input (Master Card) again

Notes