

NextVision AV-AC103-2R Antares Systems User Manual

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NextVision AV-AC103-2R Antares Systems



Description

CC Series is a standalone for two doors, support card, pin, card+pin access way. It is with 2 relays to control 2 doors and supports up to 2000 users in total, each user can possess one card and one pin. It can directly drive Lock, Alarm, Ring Bell, and also can connect with Exit Button and Door Contact.

There are 7 working mode with this device

- 1. Wiegand Reader.
- 2. Standalone for single door.
- 3. standalone for two doors.
- 4. with external reader for two doors.
- 5. two units interlocked for two doors.
- 6. Anti-passback for single door.
- 7. Anti-passback for two door.

Besides, it also supports 1 Master code, 2 Manager card, 2 Anti-duress Card users and 2 Anti-duress PIN users, providing users with easy operations and safety reliability

Features

- 1. Pure Zinc alloy case; waterproof conform to IP 68.
- 2. Built-in 125KHz OR 13.56MHz card reader (CC1). Built-in 125KHz and 13.56MHz card reader (CC2).
- 3. Perfect digital backlit key, the back light can be set to Normal ON, Normal OFF or Human-Approach ON.

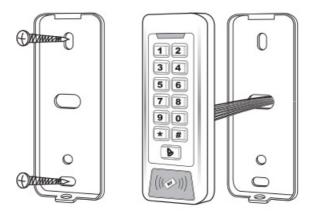
- 4. With anti-tamper Alarm, door contact Alarm, Anti-duress Alarm function.
- 5. Add and delete card user quickly With Manager cards.
- 6. Can register and delete user via keypad.
- 7. Master can open the door when entering the setting status.
- 8. **Multi working modes:** reader, one door, two door, interlock, anti-passback and so on, suitable for many occasions.

Specification

- Input Voltage AC/DC 12
- V Idle Current<25mA
- Lock output load<1A
- · Alarm output load 1A
- · Ring bell load<1A
- · Card reading distance 40mm Max
- Card Frequency
- 125KHz for EM and HID
- 13.56MHz for Mifare
- Card transmission format 26-37 bit wiegand
- Keypad transmission format: bit, 8bit and Virtual card number
- Operating Temperature: -45°C ~ 55° C
- Operating Humidity: 0% ~ 95%

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 I hole for the cable.
- Put the supplied rubber bungs to 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.



	ZONE1					ZONE2
No.	Marks	Color	Description	Marks	Color	Description
1	BELL_A	Pink	Doorbell button	D0	Green	Wiegand output D0
2	BELL_B	Pink	Doorbell button	D1	White	Wiegand output D1
3	ALARM+	Red	Alarm anode	AC1	Red	AC1 (+12V)
4	AC2	Black	AC input	GND	Black	GND
5	OPEN2	Yellow	Exit button	OPEN1(BZ)	Yellow	Exit button (for green LED)
6	D_IN2	Brown	Door contact	D_IN1(LED)	Brown	Door contact(for buzzer)
7	ALARM2-	Gray	Alarm 2	ALARM1-	Gray	Alarm 1
8	NO2	Blue	Relay 2 NO end	NO1	Blue	Relay 1 NO end
9	COM2	Purple	Relay 2 Com	COM1	Purple	Relay1 Com
10	NC2	Orange	Relay 2 NC end	NC1	Orange	Relay1 NC end

To Reset to Factory Default

- Disconnect power from the unit.
- Press and hold # key whilst powering the unit back up.
- On hearing two "Di" release# key. system is now back factory settings.

Please note only installer data is restored, user data will not be affected.

Packing List

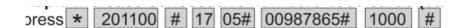
Name	Model /size	Quantity	
Keypad	CC1/CC2	1	Remarks
User manual	CC1/CC2	1	
Self tapping screws	Cl>4mmx27 mm	2	Used in fixing
Rubber plug	<1>6mmx30 mm	2	Used in fixing
Star screw driver	<1>20mmx60mm	1	Special for Keypad
two-electrode valve	1N4007	1	

Warm Tip

- Please do not to repair the device privately, if have problem, please return to the supplier.
- Before installation on wall, please check carefully concealed wiring or wire tube, in case of the trouble from broken concealed wiring etc when drilling, please use safe glasses, when drilling or fixed line clip.

Set open mode of Zone 1 as card+PIN

press * 201100 # 13 1 #



Ret working mode as reader mode

press * 201100 # 31 0 #

Ret card output format as WG3.

press * 201100 # 32 34 #

Set master open lock 1

press * 201100 # 51

Simple Troubleshooting

Code	Fault	Fault Cause	Solutions
1	Close Read range	Quality of card	Use original card
			1. first number of PIN should be 1 or 2,
	D. H. L.	1. PIN is not	match with Area number
2	Problem in PIN setting	standard 2. Set Password	2. PIN shouldn't be 1234
		at reader mode	3. PIN is 4 to 6 digits
			4. don't set PIN at reader mode
		1. use PIN 1234	1. 1234 is original PIN, can't open the door,
3	PIN can't open door	2. entry mode	should be modified as other PIN
		setting	2. set open mode as entry by card or PIN.
4	Alarms at normal condition	While installation, light leak under bottom	While installation, device should closed to the wall
5	No responds after card reading	Units are not in ready mode	Press * key, light flash, units back to ready mode
	1/	Mode of keypad	1. set keypad light as shine or auto
6	6 Keypad light is not bright	not bright light setting is	2. under auto mode, light shine after press
	J	wrong	keypad, delay 30 seconds
	Can't enter		Reset to Factory Default, master code will be
7	master	Forget master code	999999, only installer data is restored, user data
	mode		will not be affected

Sound and Light Indication

Operation	LED Color	Buzzer
Standby	Red flash	
Press key		Di
Read card	Green	Di-
Door 1 Open	Green	Di-
Door 2 Open	Green Flash	Di-
Operation Successful	Green	Di-
Operation Failed		Di Di Di
PIN Inputting	Red	
Card&PIN Reading	Red	
Multi Card Reading	Red	
Under Menu	Red	
Under Setting	Orange	
Manager Card Enter	Orange	Di Di
Manager Card Exit	Red Flash	Di-
Alarm	Red Quick Flash	Alarm

Quick Programming Guide

Administrator Setting

Stand by	Master Code	Menu	Setting	Remarks	Functions
Red Flash	Red	Red	Orange		
		00		Factory default: 999999	Change the master code
		01	Read Manager Add Card	Default:	Set Manager Add Card
		02	Read Manager Delete Card	Zone 1	Set Manager Delete Card
		03	Read Anti-duress card (Zone 1)		Set Zone1 Anti-duress card
*	Master	04	Read Anti-duress card (Zone 2)		Set Zone2 Anti-duress Card
	code#	05	Anti-duress PIN# (Zone 1)		Set Zone1 Anti-duress PIN
		06	Anti-duress PIN# (Zone 2)		Set Zone2 Anti-duress PIN
		07	000 #		Delete All Users
		51			Master open Lock 1
		52			Master open Lock 2

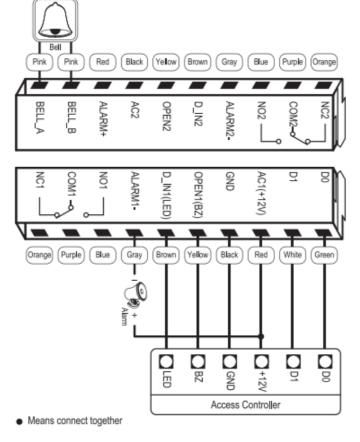
User setting for Zone 1

s ;d	"o"J:r	Menu	Setting	Remarks	Functions
F :ih	Red	Red	Orange		
			Read card		
			User ID number#		
			read card	Users can be ad ded continuously	To add card users
		11	Card number#	without exiting	
			ID number#	ga amming	
			u gr 70 ter#		
			PIN#		To add PIN users
			Read card	: dd r	To delete users
		12	User ID number#	t fggaa	
			Card number#	mming	
		13	0#		Entry by Card
*			1#	Default 2	Entry by card+PIN
			2#		Entry by either Card or PIN
	Master c ode#	14	0-99#	Default 5	Set door relay time
					Relay Setting-Pulse mode
		15		Default o	Relay Settmg- loggle mode
		16	1-10#	Default 1	To set open door by multi cards
		17	User ID number#, card number#, card quantity#		To add a series cards users

User setting for Zone 2

s ;d	sJ:r	Menu	Setting	Remarks	Functions
F :ih	Red	Red	Orange		
			Read card		
			User ID number#	-	
			read card	Users can be ad ded	To add card users
			Card number#	continuously	To dad data doore
		21	ID number# card number#	without exiting p rogramming mo de	
			User ID number# PIN#		To add PIN users
		22	Read card	: dd r continuous	
			User ID number#	; e\g mo de	To delete users
			Card number#		
*	Mastana		0#		Entry by Card
	Master c ode#	23	1#	Default 2	Entry by card+PIN
			2#	-	Entry by either Card or PIN
		24	0-99#	Default 5	Set door <u>relay</u> time
		25	0#	Default o	Relay Setting-Pulse mode
		25	1#	Delault	Relay Setting-Toggle mode
		26	1-10#	Default 1	To set open door by multi cards
		27	User ID number#, card number#, card quantity#		To add a series cards users

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Mode Wiegand reader diagram

Instance Operations

Modify master code as 20120(

press * 999999 # 00 201100 # 201100 #

Set Anti-duress PIN of Zone 1 as 12012000

press * 201100 # 05 12012000 #

Add last 8 digit card number as 00967865 and 86998736 user of Zone 1

Press * 201100 # 11 00967865 # 86998736 #

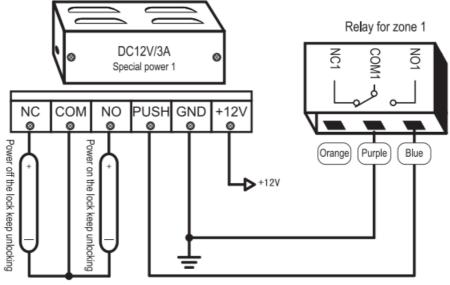
Add first 10 digit card number as 0098786500 and 8699873600 user of Zone2

Press * 201100 # 21 0098786500 # 8699873600 #

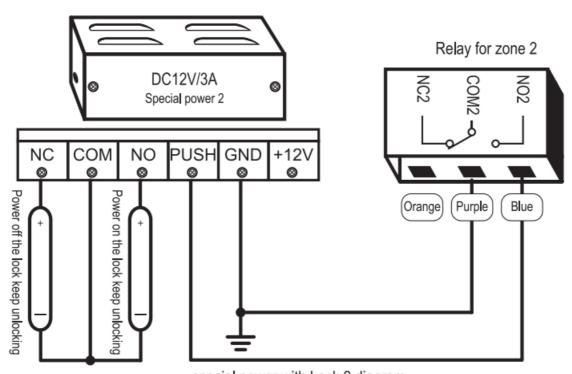
Add ID user 006. PIN 201200. Zone 2 user

press * 201100 # 21 6 # 201200 #

CC Series metal access control Manu



Special power with Lock 1 diagram



special power with Lock 2 diagram

Composite Diagram 2

Mode With external reader for two doors diagram Mdoe Standalone for two doors diagram DC12V special power 1 Mode Two units interlocked for two doors diadram Mode Anti-passback for two doors diagram

System Setting

Stand	Master	М			
by	Code	enu	Setting	Remarks	Functions
Red					
Flash	Red	Red	Orange		
		30	0-15#	Default 0	To set facility code
			0#		Wiegand reader
					Standalone for single door (Factory
			1#	When device reset	default setting)
			2# to	to factory default, the setting is still valid	Standalone for two doors
		31	3#		With external reader for two doors
			4#		Two units interlocked for two doors
			5#		Anti-passback for single door
	Master c ode#		6#		Anti-passback for two door
		32	26-37#	Default 26	To set Wiegand format
*		33	0-2#	When device reset to factory def ault, the setting is still valid	To set keypad transmission format
		34	1-3#	Default 1	To set alarm time
			0#	Default O	Safe mode O
		35	1#		Safe mode 1
			2#		Safe mode 2

User optional setting

Stand by	Master Code	Menu	Setting	Remarks	Functions
Red Flash	Red	Red	Orange		
		41	0#		Buzzer will be be in silence except enter the programming mode
			1#	Default 1	Buzzer will sound when press the key
			0#		Disable keypad backlight
	Master c ode#		1#		Enable keypad backlight
*		42	2#	Default 2	Automatic mode, Normally it is off (sleeping mode) but wake up with human approach
		43	0#		LED Light Disable when stand-by status
			1#	Default 1	LED flash when stand-by status

Instruction

- 1. Master code must be 6-8 digits, Anti-duress PIN must be 8 digits, user PIN is 4-6 digits, The 1st digit of user PIN and Anti-duress PIN in Zone1 must be 1; The 1st digit of user PIN and Anti-duress PIN in Zone 2 must be 2.
- 2. The user ID number is any number among 1-2000, Invalid 0 can be omitted; card number must be 8 or 10 digits. if the card number is less than 8 or 10 digits, input 0 before the card number.
- 3. Door open time is 0-99 second,0=50mS
- 4. When register one card user into the device, the device will automatically generate a PIN 1234, this PIN cant open the door door.
- 5. When an invalid master pin is pressed the device will go back to the standby status after 5 seconds, when a valid PIN is entered it will go back to standby status after 30 seconds.
- 6. In operating the keypad, pressing # means to confinm the input digits ,In operation of a cycle adding or deleting cards, pressing # means to end the cycle operation and back the up operation; pressing * means to exit the operation.
- 7. When add a series cards, this unit will make the ID number and card number initial value; after adding one user, then it will increase the ID number and card number automatically ,Until the specified number of card is added, the card number must be consecutive card quantity is between 1-2000.
- 8. Working mode and keypad transmission format have been set before shipping, customer can change according to requirement, but when device reset to factory default, the setting is still valid.
- 9. When users of Zone 1 is registered successfully, LED will turn green; when users of Zone 2 is registered successfully, LED will be green flash.

Administrator setting

Administrator setting on keypad

Press * Master code # factory default:999999

Change the master code

Press 00 new code # repeat new master code#

Note: Master Code length:6~8 digits

Set Manager card

Set manager add card

Press 01 read manager add card

Set manager delete card

Press 02 read manager delete card

Note: when add the new manager card, the new one will automatically cover the old card, only one manager card for one device

Set Anti-duress card

Set Anti duress card for Zone 1

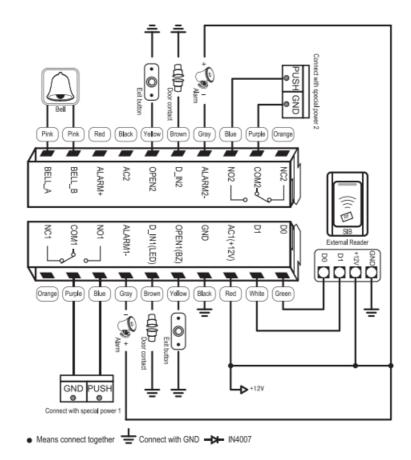
Press 03 read anti-duress card (Zone 1)

Set Anti-duress card for Zone 2

Press 04 read anti-duress card (Zone 2)

Note: when add the new anti-duress card, the new one will automatically cover the old card. only one anti-duress card for one device

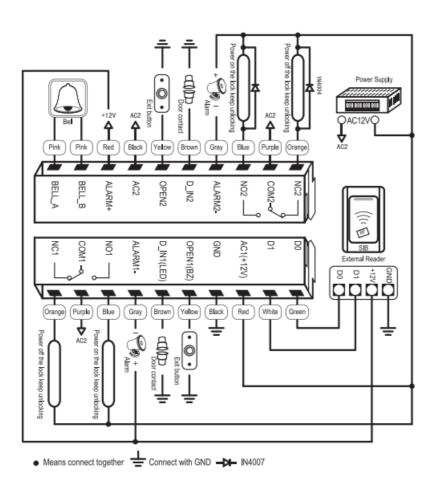
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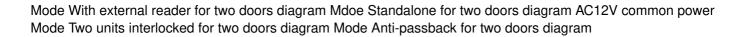


Composite Diagram 1

Mode With external reader for two doors diagram mode Standalone for two doors diagram DC12V special power 1 Mode Two units interlocked for two doors diagram Mode Anti-passback for two doors diagram descries metal access

control manual





Set Anti-duress PIN

Set Anti-duress PIN for Zone 1

Press 05 8-digit duress PIN# (Zone 1)

Set Anti-duress card for Zone

Press 06 8-digit duress PIN# (Zone 2)

Note

- 1. the 1st digit must be 1 for Zone 1
- 2. the 1st digit must be 2 for Zone 2
- 3. when set the new anti-duress PIN, the new one will automatically cover the old anti-duress PIN, only one antiduress PIN for one device.

Delete all users

Press 07 0000 #

Note: both zone 1 and zone 2 will be deleted. This is a dangerous option, so use with care.

Set administer open lock

Set administer open Lock 1

Press 51

Set administer open Lock 2

Press 52

Use ID Number and read card to add user

Press |11 | read card # | read card |... | # |

Use ID Number and read card to add user

Press 11 ID number # read card ... ID number # read card ... #

Use ID Number and read card to add user

Press 11 card number # ... card number# ... #

Note

- 1. Card number must be 8 or 10 digits, if the card number is less than 8 or 10 digits, input 0 before the card number
- 2. Automatically increases, the user ID will be generated by the machine automatically, the range is 1 ~ 2000, and automatically search from 1 to 2000

Use ID number and card number to add user

Press 11 ID number # 8-digits card number # .. ID number# 8-digits card number# ... #

Note

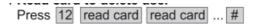
- 1. ID number is 1~4 digits, the range is 1~2000, 1,01,001,0001, all these mean ID number 1.
- 2. add card user will generate one "1234 "PIN, this PIN cant open door, only for user modify PIN.

Use ID number and PIN to add user

Note: this fit PIN user, pin is irrelevant with card, the PIN is any 4-6 digits, 1st digits must be 1 for Zone 1 with the exception of 1234 which is reserved.

Delete user

Read card to delete user



Use ID number to delete user

Use card number to delete user

Delete all users

Note: both zone 1 and zone 2 will be deleted.

Set opening door mode 1

Entry is by card only

Entry is by card and PIN together

Entry is by card or PIN (factory default)

Set door relay time

Note: 0~99 is to set the door delay time 0-99 seconds, factory default is 5 seconds.

Set Relay mode

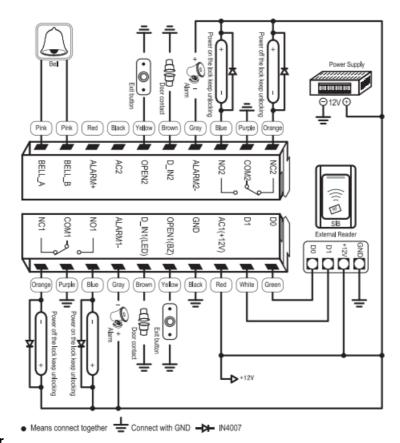
Relav setting -pulse mode

Every time a valid card/tag read or PIN input, the relay will operate, for the pre-set relay pulse time. (Factory default setting)

Relav setting-Toaale mode

Every time a valid card/tag read or PIN input, the relay changes state, which will not turn back until read card/tag or input PIN again.

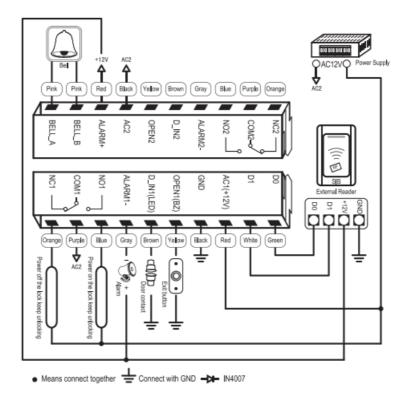
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DC12V common power

- Mode With external reader for two doors diagram
- Mdoe Standalone for two doors diagram
- Mode Two units interlocked for two doors diagram
- · Mode Anti-passback for two doors diagram

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Mode Standalone for single door diagram AC12V common power Mode Anti-passback for Single door diagram

Set opening door by multi cards

Note: the door will be opened only after reading all the valid multi cards up to the card quantity setting. It is only for card entry mode(Factory default setting :1)

Add a series consecutive cards users

Note: the card number must be consecutive card quantity is between 1~20000; card number is 10 digits or 8 digits.

User setting for Zone 2

The method is the same with Zone 1, corresponding menu should be 21,22,23,24, 25,26,27

system setting

To set facility code

Note: code should be 0-15, factory default setting :0

Wiegang Reader

Press 31 0 #

Standalone for single door(Factory default setting)

Standalone for two doors	Press 31 1 #
With external reader for two doors	Press 31 2 #
Two units interlocked for two doors	Press 31 3 #
	Press 31 4 #
Anti-passbook for Single door	Press 31 5 #
Anti-passbook for two doors	Press 31 6 #
To set winging format	



Note: factory default setting:26

Setting keypad transmission format

Note: keypad transmission format is 0 1 2, factory default is O; when device reset to factory default, the setting is still valid.

Setting alarm time

Note

- 1. factory default is 1 minute
- 2. when device reset to factory default, the setting is still valid.

Setting safe mode

Normal mode (factory default)

Press 35 0 #

Dead mode

Press | 35 | 1 | # |

If read invalid card or input wrong PIN 10 times in 10 minutes, system will be dead for 10 mins

Alarm mode

Press | 35 | 2 | #

if read invalid card or input wrong PIN 10 times in 10 minutes, external alarm and built-in buzzer will work.

User optional setting

· Setting keened tone OFF or ON

Press 41 0 #

The device will be in silence except enter the programming mode

Press 41 1 #

The device will give the voice when press the keys (Factory default setting)

Setting keypad backlight

Disable keypad backlight

Press 42 0 #

Enable keypad backlight

Press 42 1 #

Automatic mode (factory default setting)

Press 42 2 #

Normally it is off(sleeping mode) but wake up with human approach

Setting LED light (stand-by status)

Disable LED light

Press 43 0 #

Flash LED light (factory default setting)

Press 43 1 #

Manager card operation

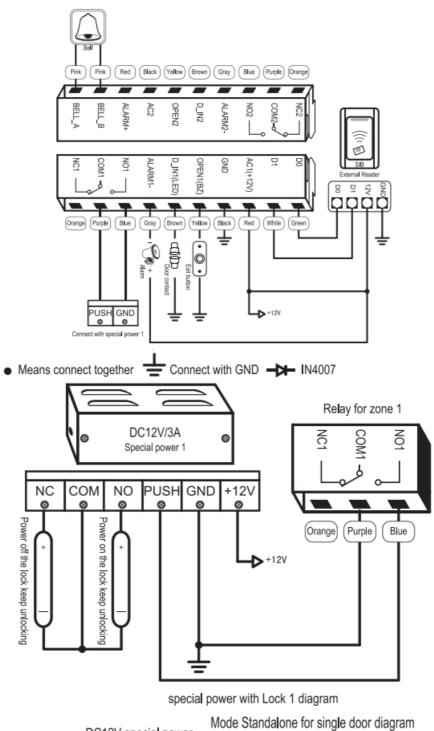
Add user for Zone1

Read Manager Add Card, read user cards continuously, read Manager Add card again.

Delete user for Zone 1

Read Manager Delete Card, read user cards continuously, read Manager Delete card again.

CC Series metal access control Manual



DC12V special power

Mode Standalone for single door diagram

Mode Anti-passback for Single door diagram

special powerwith Lock 1 diagram

DC12V special power Mode Standalone for single door diagram

Anli-passback for Single door

In this mode, this unit install outside is for entering door, external reader inside for exiting door, the users can only enter door when read valid card on the machine, and exit from the inside external reader. If without the entering record from the machine, the users can not exit from the inside reader, also the Users can't enter in twice without the first exit record.

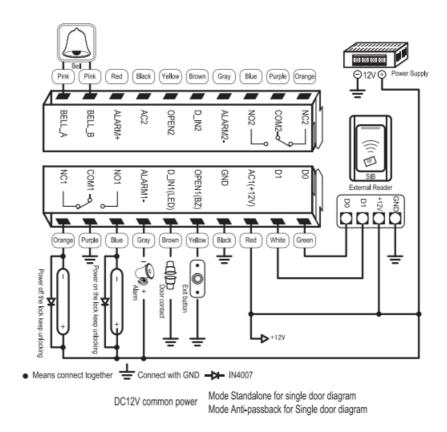
Remark: this is only for card users of Zone 1.PIN users of Zone 1 an all users of Zone 1 are invalid.

Anti-passback for two doors

In this mode, this unit on door 1 is anti-passback master unit, and external reader on door 2 aa the anti-passback auxiliary unit. then they build up a two doors anti-passback system, which is normally used for parking lot. The users can only enter door 1 when read valid card on this unit, and exit from door 2 when read valid card on external reader. If without the entering record from door 1, the users can not exit from the door 2, also the users can't enter in twice without the first exit record.

Remark: this is only for card users of Zone 1,PIN users of Zone 1 and all users of Zone 2 are invalid.

Diagram for 7 working modeDC12y common power Mode Standalone for single door diagram



User Operation

Entry by card mode, Set multi cards to open door when card quantity is 1 Read user card, lock will be unlocked

Entry by card mode, Set multi cards to open door when card quantity is 2-10 Read these cards one by one, present each card in 5 seconds, lock will be unlocked

Entry by card and PIN

Present card, then press PIN(4 to 6 digits),#, lock will be unlocked

Entry by card or PIN mode

Present card, lock will be unlocked Or Press PIN(4 to 6 digits),#, lock will be unlocked

Relay mode

Relay setting -pulse mode.

Every time a valid card/tag read or PIN input, the relay will operate, for the pre-set relay pulse time.

Relay setting-Toggle mode

Every time a valid card/tag read or PIN input, the relay changes state, which will not turn back until read card/tag or input PIN again

Modifyuser PIN (no need enter programming mode)

• read user card, press old PIN,#, new PIN# new PIN# Or*, press ID number# old PIN# new PIN# new PIN#

Notice: user who dont have user card must get ID number and origin PIN from Admin, Zone 1 users PIN must start with 1, Zone 2 users PIN must start with 2.

Alarm function

Anti-tamper alarm

If the device is disassembled illegally, the buzzer and the external alarm will operate.

Door contac1 alarm

When connect with door contact, if the door is opened illegally, the buzzer and the external alarm will operate.

The Anli-< luress alarm

When read zone 1 anti-duress card/input 8-digit anti duress PIN or zone 2 anti-duress card/input 8-digit anti duress PIN, then press#, The corresponding lock will open, at the same time, the external alarm witll operate,but the device buzzer will not operate.

Remove alarm

Read valid user card, manager card or input master code, then alarm will be removed. If no any operation, alarm will be removed automatically after 1 min.

Multi working mode

There are 7 working mode with this device.

- 1. Wiegand Reader.
- 2. Standalone for single door.
- 3. Standalone for two doors.
- 4. with external reader for two doors.
- 5. two units interlocked for two doors.
- 6. Anti-passback for single door.
- 7. Anti-passback for two door. The factory default is Standalone for single door (we can change the default model according to customer order). User can modify the working mode, when the device reset to factory default the setting is still valid.

Wiegand Reader mode

In this mode, the access control works as reader, connected with the common access controller, it has following function.

- · Modify master pin
- Set facility code
- · Set the card transmission format

- · Set the keypad transmission format
- · Set optional setting
- · Anti-Tamper alarm

When LED level is low, indicator light(LED) will turn into green, after 30 seconds or LED level rising, LED will back to normal.

When BZ level is low, the buzzer will beep, after 30 seconds or BZ level rising, the buzzer will back to normal. When it used as the reader, both card number and keypad transmits in Wiegang format, the output data are shown by the low level of DO&D1

wire: DO: Low level means O, green wire

D1: Low level means 1, white wire

The Pulse width of low level is 100uS, bit period is 1.6mS

The digits of card number can be set to 26-37 bit, should be matched with the controller.

(Factory default is 26Bit) Keypad transmission can be set in the following 3 modes(modes can be set by user)

Model 0: Virtual card number

The reader will transmit the PIN data when it receives the last key#) press after PIN code.

• Format: Decimal card number with 10 digits, Facility code(1st~4th digit)+ PIN Code (5th-10th digit).

• Facility code is any digits between 0~15, PIN code is 4~6 digits.

• Example: facility code: 15

• PIN code: 9999

Press 9999 #. then output format will be 0015009999

• PIN code: 999999

Press 999999#, then output format will be 0015999999

Model 1: 4 Bit

The output data is provided in following format after every key is pressed

key	Output in hex	Output in Binary
0	0	0000
		0001
2	2	0010
3	3	0011
4	4	0100
5	5	0101
6	6	0110
7	7	0111
8	8	1000
9	9	1001
	A	1010
#	В	1011

Model 2: 8 Bit

The output data is transmitted in following format after every key is pressed

key	Output in hex	Output in Binary
0	0	11110000
		11100001
2	2	11010010
3	3	11000011
4	4	10110100
5	5	10100101
6	6	10010110
7	7	10000111
8	8	01111000
9	9	01101001
	A	01011010
#	В	01001011

Standalone for single door

In this mode, the device supports connecting external card reader for exiting door. The users of Zone 1 or external can open the door by valid card or PIN

Standalone for two doors

In this mode, users are for controlling two doors. Read valid card or input PIN of Zone 1 on this unit, door 1 will be opened; reading valid card or input PIN of Zone 2 on this unit, door 2 will be opened. Remark: the common card for Zone 1 and Zone 2 can only open door 1.

With external reader for two doors

In this mode, this unit is for entering door 1, and external reader is for entering door 2. Read valid card or input of Zone 1 on the machine, door 1 will open; read valid card or input PIN of Zone 2 on external reader, door 2 will open. Remark: the common card for Zone 1 and Zone 2 can open door 1 on this unit, and open door 2 on external reader.

Two units interlocked for two doors

The interlock function is mainly used in banks prisons, and other places where a higher level security is required. When and only door 2 closed, read valid card / input PIN on this machine, door 1 will open; when and only door 1 closed, read valid card / input PIN on external reader, door 2 will open.

Remark: The valid card /PIN is only for users of Zone 1,users of zone 2 are invalid.

Documents / Resources



NextVision AV-AC103-2R Antares Systems [pdf] User Manual AV-AC103-2R Antares Systems, AV-AC103-2R, Antares Systems

