



## VISIONIS VIS-MINI-CNTRL Door Controller for Access Control Systems with No Software User Manual

[Home](#) » [VISIONIS](#) » VISIONIS VIS-MINI-CNTRL Door Controller for Access Control Systems with No Software User Manual 

### Contents

- [1 VISIONS VIS-MINI-CNTRL Door Controller for Access Control Systems with No Software](#)
- [2 INTRODUCTION](#)
- [3 Features](#)
- [4 Specifications](#)
- [5 Carton Inventory](#)
- [6 INSTALLATION](#)
- [7 Sound and Light Indication](#)
- [8 Change PIN](#)
- [9 Set Access Mode](#)
- [10 Connection Diagram](#)
- [11 Documents / Resources](#)
  - [11.1 References](#)
- [12 Related Posts](#)



**VISIONS VIS-MINI-CNTRL Door Controller for Access Control Systems with No Software**



## INTRODUCTION

The VIS-MINI-CNTRL is a mini single door control panel, can work with any entry device Wiegand 26~37 bits output reader. Card type depends on the reader, example: EM, HID, and MFR card types. It uses Atmel microcontroller to assure stable performance and equips with an infrared remote control for easy operation. The VIS-MINI-CNTRL supports 1,000 users; all user data can be transferred.

- If the VIS-MINI-CNTRL is connected to a keypad/reader you must first set the keypad into Wiegand mode for it to communicate correctly with the VIS-MINI-CNTRL (Refer to page No. 8).
- All programming will be done in the VIS-MINI-CNTRL but not on the keypad/reader. Is also highly suggested to change the master code in the VIS-MINI-CNTRL (Refer to page No. 7 and page No. 8 ).

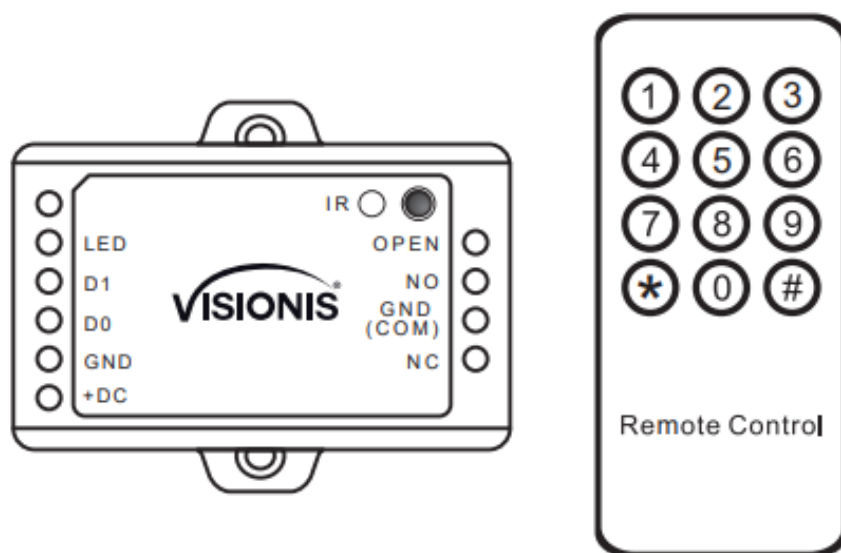
## Features

- 1,000 users' user data can be transferred
- Multi access modes: Card, Card or PIN, Card with PIN and multi-Cards/PINs
- Can connect with any reader with Wiegand 26~37 bits output
- Can connect with any keypad reader with 4bits, 8bits (ASCII), or 10bits
- Virtual number output
- Support Master Card function
- Low temperature resistance (-40°C)

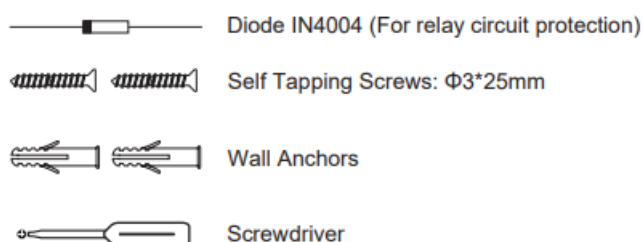
## Specifications

User Capacity	1,000
Operating Voltage Idle Current	9~24V DC <20mA
Relay Adjustable Relay Output Time Lock Output Load	One (NO, NC, Common) 1~99 Seconds (5 seconds default) 2 Amp Maximum
Wiegand Interface Input Output	Wiegand 26~37 bits Wiegand 26~37 bits (for user transfer)
Environment Operating Temperature Operating Humidity	Indoor. Meets IP66 -40°C~60°C (-40°F~140°F) 0~90%RH
Physical Dimensions  Unit Weight Shipping Weight	ABS Shell  L65 x W54 x H19 (mm) L2.56 x W2.13 x H0.75 (in.)  40g 100g

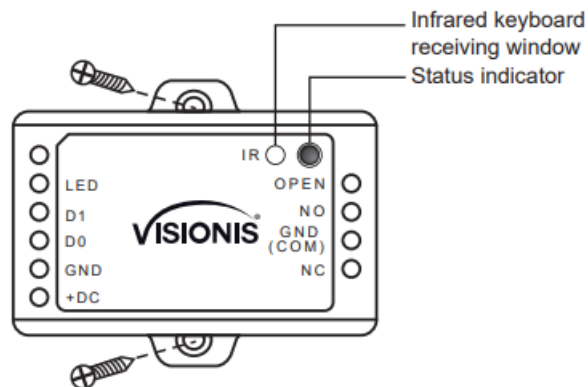
## Carton Inventory



## VIS-MINI-CNTRL Mini Controller: Infrared Remote Control



## INSTALLATION



## Wiring

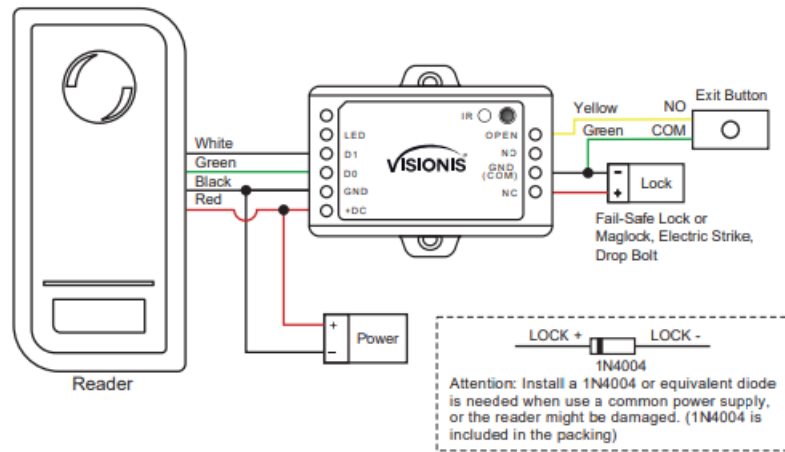
Name	Notes
The Left Side	
LED	Green LED Light Control
D1	Wiegand Input Data 1
D0	Wiegand Input Data 0
GND	Negative Pole of DC (9~24V) Power Input
+DC	Positive Pole of DC (9~24V) Power Input
The Right Side	
OPEN	Connect to One Wire of Exit Button
NO	Normally Open Relay Output (install diode provided)
GND (COM)	Negative Pole of Lock (Common Connection for Relay Output)
NC	Normally Closed Relay Output (Install diode provided)

## Sound and Light Indication

Operation Status	LED	Buzzer
Stand by	Red light bright	
Enter programming mode	Red light shines	One beep
In the programming mode	Orange light bright	One beep
Operation error	—	Three beeps
Exit from the programming mode	Red light bright	One beep
Open lock	Green light bright	One beep

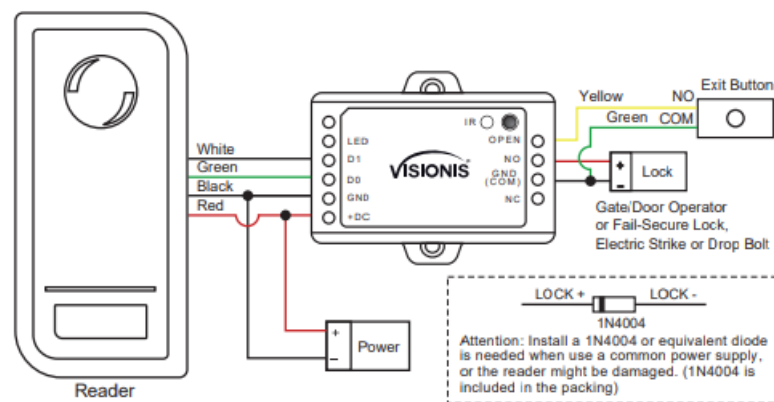
## Connection Diagram

## Fail-Safe Lock (Magnetic Lock, Electric Strike, Drop Bolt)



This connection works for all the VIS-3000 Series keypads

## Fail-Secure Lock (Electric Strike or Drop Bolt) or Door/Gate Operator



This connection works for all the VIS-3000 Series keypads

### Remark:

The power supply's voltage must be the same with lock's supply voltage, or else, the lock will not work properly or be damaged.

1. The Master Cards are not included in the standard packing. The type of the Master Cards is according to the external reader. For example: the external reader is 125KHz
2. HID Reader, then the Master Cards must be 125KHz HID cards.
3. If no Master Cards added, must press the Exit Button for at least 10 seconds before release.
4. Reset to factory default, the user's information is still retained.

## PROGRAMMING

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

### Notes:

- **Remote Control:** Please use the Infrared Remote Control to program the VIS-MINI-CNTRL. The "IR" on the VIS-MINI-CNTRL is the infrared receiving window, please direct the Remote Control to it.
- **User ID number:** Assign a user ID to the access card in order to track it. The common user ID number can be any number from 0~999. IMPORTANT: User IDs do not have to have proceeded with any leading zeros. Recording of the User ID is critical. Modifications to the user require the User ID be available.

- **PIN:** Can be any 4~6 digits except 8888 which is reserved.

### Enter and Exit Program mode

Programming Step	Keystroke Combination
1. Enter Program Mode	<b>(Master Code) #</b> (Factory default is 123456)
2. Exit Program Mode	

### Set Master Code

Programming Step	Keystroke Combination
1. Enter Program Mode	<b>(Master Code) #</b>
2. Update Master Code	<b>0 (New Master Code) # (Repeat New Master Code) # (code : 6 digits)</b>
3. Exit Program Mode	

### Add Users with Remote Control

VIS-MINI-CNTRL Connected with Card Reader:

For the readers develop together with VIS-MINI-CNTRL, such as 3000 Series readers, skip the below step 1; For other card readers, set the VIS-MINI-CNTRL's Wiegand input as below step 1 according to the Wiegand output of the readers.

### VIS-MINI-CNTRL Connected with Keypad Reader:

Can be any Keypad Reader with 4Bits, 8Bits (ASCII), 10Bits output format

Set the VIS-MINI-CNTRL as below step 1 according to the Wiegand output and PIN output format of the Keypad Reader.

The 3000 series keypad must be set to Wiegand mode by entering the following sequence (in the keypad itself):

Press: \*, master code (Default is 999999), #, 310, #, \*\*

PIN(s) can be input/added on either the remote control or the external Keypad Reader, except when the Keypad Reader is 10 digits virtual card number output, the PIN(s) can only be input/added through the Keypad Reader.

### Step 1

Programming Step	Keystroke Combination
1. Enter Program Mode	<b>(Master Code) #</b>
2. Wiegand Input bits PIN Input bits	<b>8 (26~37) # (Factory default is 26bits)</b> <b>8 (4 or 8 or 10) # (Factory default is 4bits)</b>
3. Exit Program Mode	

**Remarks:** 4 means 4 bits, 8 means 8 bits, 10 means 10 digits virtual number.

### Step 2

Programmi ng Step	Keystroke Combination
<b>Add Card User</b>	
1. Enter Pro gram Mode	<b>(Master Code) #</b>
<p>2. Add Card: Using Auto I D (Allows VI S-MINI-CNT RL to assign Card to next available Us er ID numbe r)</p> <p>OR</p> <p>2. Add Card: Select Speci fic ID (Allow s Master to define a spe cific User ID to associate the card to)</p> <p>OR</p> <p>2. Add Card: by Card Nu mber OR</p> <p>2. Add Card: Block Learn (Allows Mast er to add up to 1000</p> <p>cards to the Reader in a single step.) Takes 2 min utes to progr am</p>	<p><b>1 (Read Card on External Reader) #</b></p> <p>Repeat Step 2 for additional user cards</p> <p><b>1 (User ID) # (Read Card on External Reader) #</b></p> <p>The user ID is any number from 0-999</p> <p><b>1 (Input 8/10 digits Card number) #</b></p> <p><b>1 ( User ID number) # (Card quantity) # (The first card number) #</b></p> <p>Cards' number must be consecutive.</p> <p>Card quantity = number of cards to be enrolled</p>
3. Exit Progr am Mode	

<b>Add PIN User</b>	
1. Enter Program Mode	<b>(Master Code) #</b>
2. Add PIN: Using Auto ID  (Allows VIS-MINI-CNTRL to assign PIN to next available User ID number)	<b>1 (Input PIN) #</b>  Repeat Step 2 for additional user cards (PIN: 4~6 digits)
2. Add PIN: Select Specific ID (Allows Master to define a specific User ID to associate the card to)	<b>1 (User ID) # (Input PIN) #</b>  The user ID is any number from 0-999 (PIN: 4~6 digits)
3. Exit Program Mode	

**VIS-MINI-CNTRL Connected with Fingerprint Reader:**

For example: Connect the fingerprint reader to VIS-MINI-CNTRL, two steps to enroll the valid fingerprint.

1. Add the Fingerprint (A) on the reader
2. Add the same Fingerprint (A) on VIS-MINI-CNTRL as below:



	Enter Program Mode: <b>(Master Code) #</b>
2 OR 2	<b>1 (Press Fingerprint A on the reader) (Repeat Fingerprint A on the reader) #</b> (ID auto allocated)  <b>1 (User ID) # (Press Fingerprint A on the reader) (Repeat Fingerprint A on the reader) #</b> (Select specific ID)
3	Exit:

### Add Users by Master Add Card

- **Add card users**
- Master Add Card – Read User Card – Master Add Card
- (Cards can be added continuously)
- **Add PIN users**
- Master Add Card – Input PIN – Master Add Card
- (PINs can be added continuously)

### Change PIN

Programming Step	Keystroke Combination

**Note: Below is done outside programming mode, users can undertake this themselves**

1. Enter Program Mode	<b>(Master Code) #</b>
1. Change the card associated PIN (There will auto associate PIN (8888) to cards when adding card users)	<b>(Read Card) (Old PIN) # (New PIN) # (Repeat New PIN) #</b> (PIN: 4~6 digits)
1. Change the users' PIN	<b>(ID Number) # (Old PIN) # (New PIN) # (Repeat New PIN) #</b> (PIN: 4~6 digits)
2. Exit Program Mode	

**Delete User Card(s) or PIN(s) by Remote Control**



3. Exit Program Mode	
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### Delete Users by Master Delete Card

- **Delete card users**
- Master Delete Card – Read Card – Master Delete Card
- **(Cards can be deleted continuously)**
- **Delete PIN users**
- Master Delete Card – Input PIN – Master Delete Card
- **(PINs can be deleted continuously)**

### Set Relay Configuration

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

Programming Step	Keystroke Combination
1. Enter Program Mode	<b>(Master Code) #</b>
2. Pulse Mode	<b>3 (1~99) #</b>
	The relay time is 1~99 seconds. (1 is 50mS)
<b>OR</b>	(Factory default is 5 seconds)
2. Toggle Mode	<b>3 0 #</b>
	Sets the relay to ON/OFF Toggle mode
3. Exit Program Mode	

### Set Access Mode

Programming Step	Keystroke Combination
1. Enter Program Mode	(Master Code) #
2. Card access	4 0 #
OR	
2. Card + PIN access	4 1 #
OR	
2. Card or PIN access	4 3 (Factory default)
OR	
2. Multi cards/PINs access	4 3 (2~9) #
3. Exit Program Mode	

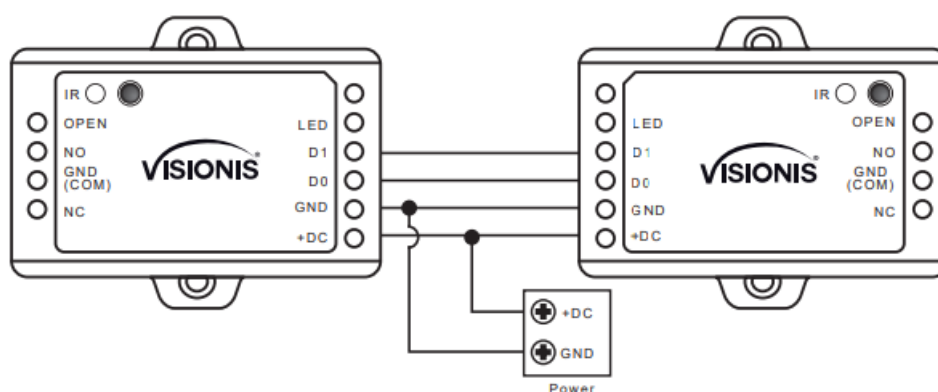
### Set Audible and Visual Response

Programming Step	Keystroke Combination	
1. Enter Program Mode	(Master Code) #	
2. Control Sounds	OFF = 7 0 #	ON = 7 1 #
OR		
2. Control LED	OFF = 7 4 #	ON = 7 5 #
		(Factory defaults are ON)
3. Exit Program Mode		

### User Information Transfer

The VIS-MINI-CNTRL supports the User Information Transfer function, and the enrolled user (cards, PINs) can be transferred from one (let's name it Master Unit) to another (let's name it Accept Unit). Maximum 10pcs Accepts Units can be transferred once.

### Connection Diagram



### Remarks:

- The Master Units and Accept Units must be VIS-MINI-CNTRL.


- The Master Code of the Master Unit and the Accept Unit(s) must be set to the same. Program the transfer operation on Master Unit only.
- If the Accept Unit(s) are already with the users enrolled, it will be covered after transfer. For full 1,000 users enrolled, the transfer takes 3 minutes.

#### Set Transferring on Master Unit:

Programming Step	Keystroke Combination
1. Enter Program Mode	<b>(Master Code) #</b>
2. Set transferring	<b>9 6 #</b>
Within 3 minutes, Green LED shines, that means the users' information has been transferred successfully.	
3. Exit Program Mode	

- **User Manual**
- **VIS-MINI-CNTRL**
- [www.visionistech.com](http://www.visionistech.com)

#### Documents / Resources

	<a href="#">VISIONIS VIS-MINI-CNTRL Door Controller for Access Control Systems with No Software</a> [pdf] User Manual VIS-MINI-CNTRL Door Controller for Access Control Systems with No Software, VIS-MINI-CNTRL, Door Controller for Access Control Systems with No Software, Door Controller, Controller
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#### References

- [V Home - Visionis](#)