Elektrohandel Eisterer E3 Embedded RFID Access Control





Elektrohandel Eisterer E3 Embedded RFID Access Control **User Manual**

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Elektrohandel Eisterer E3 Embedded RFID Access Control



INTRODUCTION

- The device is a single-door standalone access control with Wiegand input & output. It uses Atmel MCU assuring stable performance. The operation is very user-friendly, and the low-power circuit makes it a long service life.
- The device supports 1,000 users (990 common users + 10 visitor users).
- It supports multi-access modes in card access, PIN access, card + PIN access, or multi-card/PIN access.

Optional Version:

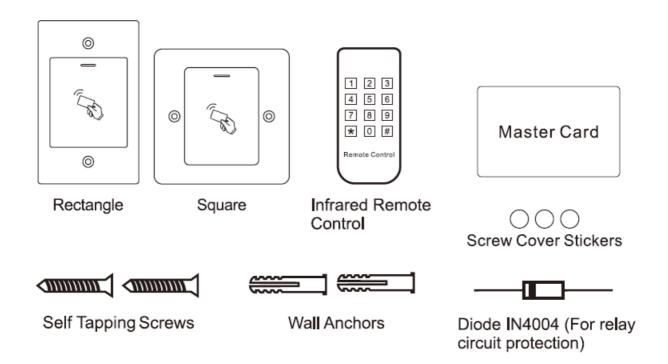
The device with Bluetooth-enabled. People can install the Bluetooth APP to easily access the door with their smartphone. (APP operation can refer to APP manual)

Features

- Waterproof, conforms to IP 66
- Vandal-resistant metal enclosure
- One relay, 1,000 users (990 common + 10 visitors)
- 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)

User Capacity	1000
Common User	990
Visitor User	10
Operating Voltage	12~18V 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
Relay	One (NO, NC, Common)
Adjustable Relay Output Time	0~99 Seconds (5 seconds default)
Lock Output Load	2 Amp Maximum
Wiegand Interface	Wiegand 26 bits output Wiegand 26/34bits input automatic identification
Environment	Outdoor (Meets IP66)
Operating Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Operating Humidity	0%RH~98%RH
Physical	Stainless Steel Plate
Surface Finish	Silver & Black
Dimensions	115x70x25mm(Rectangle)
	86x86x25mm(Square)
Unit Weight	230g
Shipping Weight	270g

Carton Inventory

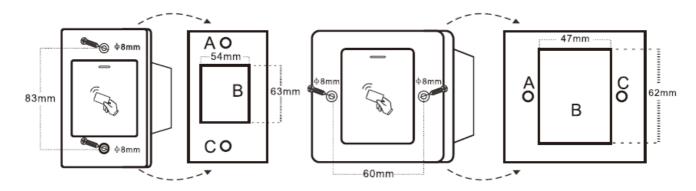


Simplified Instruction

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: 6 digits)
Add Card User	1 - Read Card - # (can add cards continuously)
Add PIN User	1 - PIN - # (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 #

INSTALLATION

- Drill 2 holes, AC) on the wall for the screws and one hole for the device
- Knock the supplied rubber bungs to the screw holes(A, C)
- Thread the cable through the hole(B)
- Attach the unit to the hole(B)
- Fix the unit firmly on the wall with 2 flat head screws
- Cover the screws with Screw Cover Stickers



Wiring

Colour	Function	Notes
Red	Power+	12~18V DC Votes DC Regulated Power Input
Black	GND	Ground
Blue	NO	Normally Open Relay Output
Brown	COM	Common Connection for Relay Output
Grey	NC	Normally Closed Relay Output
Yellow	OPEN	Request to Exit input(REX)
Green	D0	Wiegand Input/Output Data 0
White	D1	Wiegand Input/Output Data 1

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	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
Alarm	Red light Shines quickly	Beeps

Basic Configure

Enter and Exit Program Mode

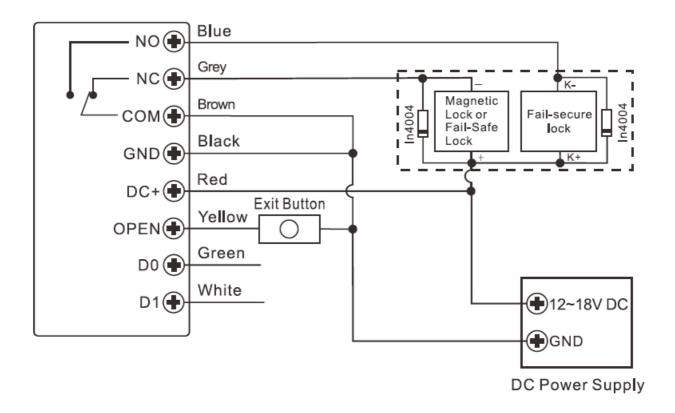
Programming Step	Keystroke Combination
Enter Program Mode	* (Master Code) # (Factory default is 123456)
Exit Program Mode	*

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

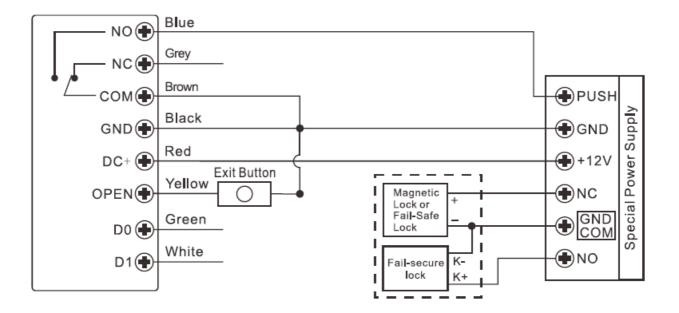
Common Power Supply



Attention:

Install a 1N4004 or equivalent diode is needed when using a common power supply, or the keypad might be damaged. (1N4004 is included in the packing)

Access Control Power Supply



Programming

Programming will vary 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 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 to be available.

• Proximity Card:

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

• PIN:

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

Add Common Users

PIN/Card user ID: 0~989; PIN length: 4~6 digits except 8888.

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code)#
Add Card User	
Using Auto ID (Allows the device to assign Card to next available User ID number) OR	1 (Read Card) / (Input 8/10/17 Digits Card Number) # The cards can be added continuously.
Select Specific ID (Allows Master to define a specific User ID to associate the card to) OR	1 (User ID) # (Read Card) / (Input 8/10/17 Digits Card Number) #
2. Add Card: Block Enrollment (Allows Master to add up to 988 cards to the Reader in a single step) Takes 2 minutes to program.	1 (User ID) # (Card Quantity) # (The First Card 8/10/17 Digits Number) # Cards' number must be consecutive; (Card quantity is the number of cards to be enrolled)
Add PIN User	
Using Auto ID (Allows the device to assign PIN to next available User ID number) OR	1 (PIN)# The PINs can be added continuously
Select Specific ID (Allows manager to define a specific User ID to associate the PIN to)	1 (User ID) # (PIN) #
3. Exit	*

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 number from 0~9)

Add Visitor Users

(User ID number is $990\sim999$; PIN length: $4\sim6$ digits except 8888) There are 10 groups of Visitor PIN/cards available, the users can be specified up to 10 times of usage, after a certain number of times, i.e. 5 times, the PIN/cardbecomese invalid automatically.

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)	

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 OR	2 (User ID) #
2. Delete User - By Card number OR	2 (input 8/10/17 Digits Card Number)#
2. Delete ALL Users	2 (Master Code) #
3. Exit	*

Set Relay Configuration

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

Programming Step	Keystroke Combination
1. Enter Program Mode	*(Master Code)#
2. Pulse Mode OR 2. Toggle Mode	3 (1~99) # (factory default) The relay time is 1-99 seconds. (Default is 5 seconds) 3 0 # 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	40#
2 PIN Access	41#
2 Card + PIN Access OR	4 2 #
2 Card or PIN Access OR	43# (factory default)
2 Multi User Access	43 (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.

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code)#
2. Strike-Out OFF OR	6 0 # (factory default)
2. Strike-Out ON	6 1 # Access will be denied for 10 minutes (Exit button is still workable)
OR 2. Strike-Out ON (Alarm) Set Alarm Time	6 2 # 5 (0 ~ 3) # (factory default is 1 minute)
	Enter Master Code # or Master Card or valid user card/ PIN to silence
3. Exit	*

Set Audible and Visual Response

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Disable Sound Enable Sound OR 2. LED Always OFF LED Always ON	70# 71# (factory default) 72# 73# (factory default)
3. Exit	*

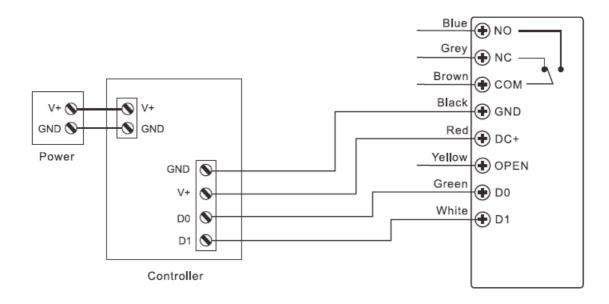
WIEGAND MODE

Pass-through Mode

(The device Operates as a Wiegand Output Reader)

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

Wiring Diagram

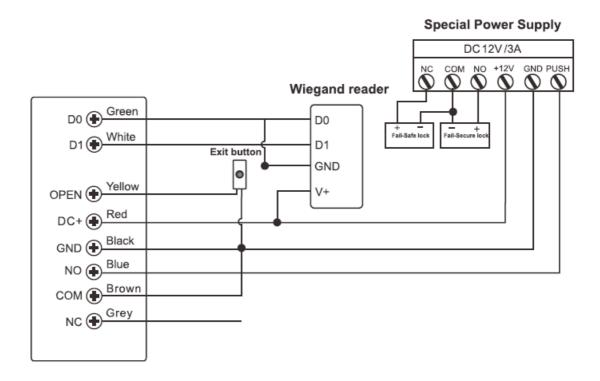


Controller Mode

(The device Operates as a Controller)

- It supports Wiegand 26/34 bits input (Automatic Identification), so an external Wiegand device with 26/34 bits output can be connected to the Wiegand input terminals on the device. Either an
- EM card reader (125 KHz) or a Mifare card reader (13.56MHz) can be connected to the device.
- Cards are required to be added at the external reader, except where an external EM card Reader is used, in this case, cards can be added at either reader or controller.

Wiring Diagram



OTHERS

Users Operation & Reset to Factory Default

- Open the door: Read valid card user or input valid PIN user #
- Remove Alarm: Enter Master Code # or Master Card or valid card/PIN user
- To reset to factory default & Add Master Card: Power off, press the Exit

 Button, hold it and power it on, there will be two beeps, then release the exit button, and the LED light will turn

 yellow, then read any 125KHz EM card / 13.56MHz Mifare card, and the LED will turn red, which means reset to
 factory default successfully. Of the card reading, it is the Master Card.

Remarks:

- 1. If no Master Card is added, must press the Exit Button for at least 5 seconds before release. this will make the previous registered Master Card invalid)
- 2. Reset to factory default, the user's information is still retained.

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

Documents / Resources



Elektrohandel Eisterer E3 Embedded RFID Access Control [pdf] User Manual E3 Embedded RFID Access Control, E3, Embedded RFID Access Control, RFID Access Control, Access Control

References

User Manual

Manuals+, Privacy Policy

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