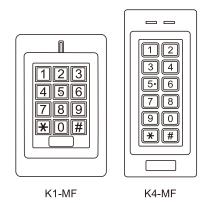
Easy Keypad (Outdoor)



User Manual

INTRODUCTION -

The K1-MF/K4-MF is a standalone easy keypad with built-in Mifare reader, meets the standard of ISO 14443-A and the card reading frequency is 13.56MHz. It provides secure access for up to 1000 users with 3 ways (PIN/Card/Card + PIN) to unlock the door.

The keypad built with 1 relay, the relay can operate in Pulse Mode (suitable for access control) or Latch Mode (suitable for arming/disarming alarms, switching lights, machines....etc).

K1-MF/K4-MF is an ideal keypad for outdoor and harsh environments, as it is designed with anti-vandal metal housing, and the electronics are fully potted, which make this device waterproof, conform to IP66.

Features

- Vandal resistant enclosure
 Waterproof, conforms to IP66
- Backlit keypad

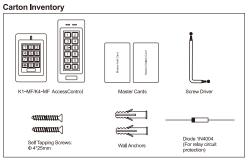
- Backlit keypad
 One programmable relay operation
 Pulse mode, Latch mode
 1000 users(Card/PIN/Card+PIN)
 Read 13.56MHz Mifare card (ISO14443 Type A)
 Tri-colour LED status display
 Built-in light dependent resistor (LDR) for anti-tamper Low temperature resistance(-40°C)

Set Strike-out Alarm

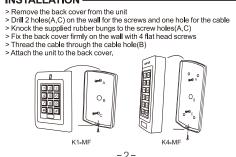
User Capacity	1000
Card	13.56MHz Mifare card
PIN	4-6 digits
Operating Voltage	12-24V DC
Idle Current	≥50mA
Working Current	≥80mA
Proximity Card Reader	Mifare card (ISO14443 Type A)
Radio Technology	13.56MHz Proximity Card/Tag
Read Range	≥3CM
Wiring Connections	Relay Output, Exit Button
Relay	One (NO, NC, Common)
Adjustable Relay Output Time	0-99 Seconds (5 seconds default)
Lock Output Load	3 Amp Maximum

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Zinc.Alloy Enclosure Physical Surface Finish _120 X W76 X H25 (mm) (K1-MF) L130 X W56 X H23 (mm) (K4-MF) Unit Weight 470a(K1-MF)/490a(K4-MF) 550g(K1-MF)/550(K4-MF)



INSTALLATION -



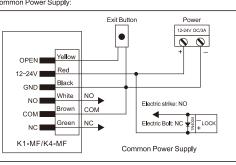
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Wiring

Wire Colour	Function	Notes
Yellow	OPEN	Request to Exit input(REX)
Red	Power+	12~24 Votes 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

Connection Diagram

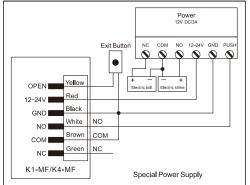
Common Power Supply:



common power supply, or the keypad might be damaged. (1N4004 is included in the packing)

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Access Control Power Supply:



PROGRAMMING -

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

Programming 1 ---- Configure the K1-MF/K4-MF

Change the configure settings according to your application (optional). Multiple configuration settings can be changed at one time: enter program mode, change desired settings, then exit program mode.

Set Master Code

The 4-6 digit Master Code is used to prevent unauthorized access to the system. To interface with the K1-MF/K4-MF the manager will need a Master Code (factory default code: 123456). We highly recommend immediate update and record of your Master Code.

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K1-MF/K4-MF- Simplified Instruction		
Function Description	Operation	
Enter the Programming Mode	* (Master Code) # (123456 is the default factory master code)	
Change the Master Code	0 (New Master Code) # (Repeat New Master Code) # (code: 4-6 digits)	
Add Card User	1 (Read Card) #	
Add PIN User	1 (User ID) # (PIN) # The ID number is any number between 1 ~ 1000.The PIN is any 4-6 digits between 0000 ~ 999999	
Delete User	2 (Read Card) # 2 (User ID) #	
Exit from the programming mode	*	
How to be granted access.	-	
Card User	Read Card	
PIN User	Enter (PIN) #	

Programming Step **Keystroke Combination** 1. Enter Program Mode * (Master Code) # 0 (New Master Code) # 2. Update Master Code (Repeat New Master Code) # 3. Exit Program Mode

Set Access Configuration

- There are 3 types of access configurations for the K1-MF/K4-MF
- > Card or PIN (Default): The User must present a valid Card to the K1-MF/K4-MF or enter their PIN code followed by the # key, in order to be
- granted access. > Card Only: The User must present a valid Card to the K1-MF/K4-MF in
- order to be granted access.

 > Card + PIN: The User must first present a valid Card to the K1-MF/K4-MF and then enter their PIN code followed by the # key, in order to be granted

Programming Step	Keystroke Combination
Enter Program Mode	* (Master Code) #
2. Card only OR	3 0 #
2. Card + PIN OR	3 1 #
2. Card or PIN	3 2 #
3. Exit Program Mode	*

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	4 (1-99) # The relay time is 1-99 seconds. (1 is 50mS.) Default is 5 seconds.
2. Latch Mode	4 0 # Sets the relay to ON/OFF Latch mode
3. Exit	*

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The strike-out alarm will engage after 10 failed card/PIN attempts. Default 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/PIN or Master code.

1		
	Programming Step	Keystroke Combination
	Enter Program Mode	* (Master Code)#
	2. Strike-Out OFF OR	7 0 # (factory default)
	2. Strike-Out ON OR	7 1 # Access will be denied for 10 minutes
	2. Strike-Out ON	7 2 # The buzzer alarms
	Set alarm time	5 (0 ~ 30) # Factory default is 1 minute
	3. Exit	*

Programming 2 ————— Program Cards and PINs

Programming will vary depending on the access configuration. Follow the

GENERAL PROGRAMMING INFORMATION

> User ID Number: Assign a user ID number to the access code in order to keep track of the users of access cards or PINS. The user ID number can be any number from 1~1000. IMPORTANT: User IDs do not have to be proceeded with any leading zeros, Recording of User ID is critical.

proceeded with any leading zeros. Recording of User IDIs critical. Modifications to user data require either the card or the User ID be available. > Proximity Card: 13.56MHz Mifare Card (ISO14443 Type A) > Keypad PIN: The PIN can be any 4~6 digits between 0000~999999 (except 1234 which is reserved for factory testing).

ACCESS CONFIGURATION: CARD OR PIN & CARD ONLY -Add User Cards

Programming Step	Reystroke Combination
Enter Program Mode	* (Master Code) #

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to next available User ID number 2. Add Card: Select Specific ID 1 (User ID) # (Read Card) # 3. Exit Program Mode

Delete User Cards

Programming Step	Keystroke Combination
Enter Program Mode	* (Master Code) #
2. Delete Card: By card OR	2 (Read Card) # Cards can be deleted continuously
2. Delete Card: Select Specific ID	2 (User ID) # The user ID is any number from 1~1000.
3. Exit	*

Add or Delete a PIN

Programming Step	Keystroke Combination
Enter Program Mode	* (Master Code) #
Add a PIN Assigns PIN to user ID number OR Delete a PIN Deletes the User ID number and associated PIN	(User ID) # (PIN) # PINS can be added continuously. 2 (User ID) # PINS can be deleted continuously.
3. Exit	*
	•

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This operation is executed from outside of Program Mode.

Programming Step	Keystroke Combination
1. Change a PIN	* (User ID #) (Old PIN #) (New PIN #) (New PIN #)

ACCESS CONFIGURATION: CARD+PIN Add a Card+ PIN User

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Add a User Card by ID number	1 (User ID) # (Read Card) #
3. Exit Program Mode	*
4. Add PIN	* (Read Card) (1234#) (New PIN #) (New PIN #) This operation is executed from outside of Program Mode

Change PIN

Allows card user to update the PIN for their Card + PIN User ID. This

Programming Step	Keystroke Combination
Change PIN using a Card OR	* (Read Card) (Old PIN #) (New PIN #) (New PIN #)
1. Change PIN using User ID	* (User ID #) (OId PIN #) (New PIN #) (New PIN #)

Delete Card by User ID

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Delete User Card by User ID	2 (User ID) #
3. Exit Program Mode	*

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OTHERS

Reset to Factory Default:
This will reset the K1-MF/K4-MF to the factory default but all card/PIN information will still be retained.

1. Power the K1-MF/K4-MF off.

2. Press the exit button, hold it and power on

3. There will be two beeps, release the exit button
4. Then read any two 13.56MHz Mifare card/tag, the 1st one is Master Add Card, the 2nd one is Mater Delete Card, the LED will turn into red

The K1-MF/K4-MF has been successful reset.

This will delete ALL User data.

 Enter Program Mode by press: * (Master Code) #. 2. Press 20000 #

Reset Strike-Out Alarm Enter Master Code or Valid Card/PIN to silence

Master Cards Usage

l	Using Master Card to add and delete card users	
l	Add Card User	1. (Read Master Add Card)
l		2. (Read User Card)
l		3. (Read Master Add Card)
l		Repeat Step 2 for adding additional user cards
l	DeleteCard User	(Read Master Delete Card)
l		2. (ReadUserCard)
l		3. (ReadMaster Delete Card)
l		Repeat Step 2 for deleting additional user card

Sound and Light Indication

Short Single Beep Short Single Beep Short Single Beep
Short Single Beep
Short Single Beep
0 1
Short Single Beep
Short Single Beep
Short Single Beep
3 Short Beeps
Short Single Beep
One beep
Alarm
Beeps
Short Single Beep

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