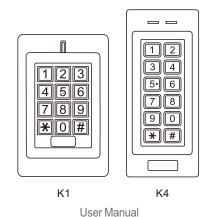
Easy Keypad

(Outdoor)



https://aros.kz

INTRODUCTION -

K1/K4 is a single entry standalone Access Control with integrated keypad and card reader. It is an easy to install and operate device, designs in as less as $\ \, 6\,wires\,for\,mounting, with\,user-friendly\,programming.\,The\,compact\,design$ makes it a good choice for door access.

K1/K4 is housed in a strong Zinc Alloy electroplated case. It supports up to 1000 users in multiple access configurations (Card Only, Card or PIN, or Card + PIN). The built in card reader supports EM 125KHz frequency cards.

Two Versions Optional: 1) Indoor nonwaterproof

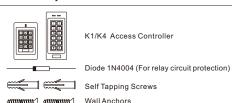
- 2) Outdoor,Waterproof(IP66)
- Features
 > Waterproof, conforms to IP66
 > Vandal Resistant Enclosure
 > Backlit Keypad
- > Multi-color LED status display
- > Multi-color LED status display
 > One Programmable Relay Output
 > 1000 Users(990 Normal Users+10 Visitor Users)
 > Access Mode: Card, PIN, Card + PIN
 > Low power consumption (50mA)
 > Anti-Tamper Alarm
 > Latch Mode to hold door or gate open

> 9-18V DC Power input
Specifications

Specifications		
1000 Cards/PINs		
990		
10		
9-18V DC		
50mA		
80mA		
12 Key		
EM		
125 KHz Industry Standard Proximity Card		
3-6cm		
Relay Output, Exit Button		
One (NO, NC, Common)		
0-99 Seconds (5 seconds default)		
3 Amp Maximum		
Meets IP66		
-40°C~60°C, -40°F~140°F		
10%-90% Non-condensing		

Physical Zinc-Alloy Enclosure Surface Finish L120 X W76 X H25 (mm) (K1) L130 X W56 X H23 (mm) (K4) Unit Weight 470a(K1)/490a(K4) 550g(K1)/550g(K4)

Carton Inventory



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

Screw Driver

- > Thread the cable through the cable hole(B)

2. Add Card: Using Auto ID (Allows K1/K4 to assign Card to next available User ID number)

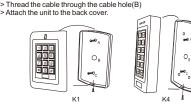
2. Add Card: Select Specific ID

(Allows manager to define a specific User ID to associate the card to)

3. Exit Program Mode

Delete User Cards

Programming Step



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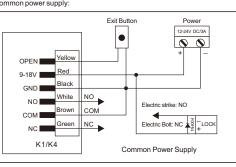
1 (User ID) # (Read Card) #

Wiring

Wire Insulation Colour	Function	Notes
Yellow	OPEN	Request to Exit input(REX)
Red	Power+	9-18 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

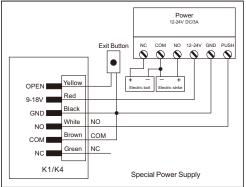
Common power supply:



Attention: Install a 1N4004 or equivalent diode is needed when use a 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/K4

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/K4 the manager will need a Master Code (factory default code: 6666). We highly recommend immediate update and record of your Master Code.

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K1/K4-SimplifiedInstruction			
Function Description	Operation		
Enter the Programming Mode	* (Master Code) # (6666 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 0 ~ 989. 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		

Enter (PIN) #

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

Set Access Configuration

- There are 3 types of access configurations for the K1/K4
- Card or PIN (Default): The User must present a valid Card to the K1/K4 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/K4 in order to be
- granted access.

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

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Card or PIN OR 2. Card + PIN OR	3 0 #
2. Card only	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
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 5 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.

		Programming Step	Keystroke Combination	
ı		Enter Program Mode	* (Master Code)#	
		2. Strike-Out OFF OR	6 0 # (factory default)	
		2. Strike-Out ON OR	6 1 # Access will be denied for 10 minutes	
		2. Strike-Out ON	6 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 0~989. IMPORTANT: User IDs do not have to be proceeded with any leading zeros. Recording of User ID is critical.

Modifications to user data require either the card or the User ID be available. > Proximity Card: 125 KHz industry standard 26 bits EM Proximity Card. > Keypad PlN: The PlN can be any 4-6 digits between 0000-999999 (except 1234 which is reserved for factory testing).

Add User Cards	
Programming Step	Keystroke Combination
Enter Program Mode	* (Master Code)#

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ACCESS CONFIGURATION: CARD OR PIN & CARD ONLY --

Programming Step	Keystroke Combination
Enter Program Mode	* (Master Code)#
2. Strike-Out OFF OR	6 0 # (factory default)
2. Strike-Out ON OR	6 1 # Access will be denied for 10 minutes
2. Strike-Out ON	6 2 # The buzzer alarms.
Set alarm time	5 (0 ~ 30) #, Factory default is 1 minute.
3. Exit	*

1. Enter Program Mode * (Master Code) # 2. Delete Card: By card 2 (Read Card) # 2. Delete Card: Select Specific ID 2 (User ID) # The user ID is any number from 0~989. 3. Exit

Add or Delete a PIN

Programming Step	Keystroke Combination
Enter Program Mode	* (Master Code)#
2. Add a PIN Assigns PIN to user ID number OR 2. Delete a PIN Deletes the User ID number and associated PIN	1 (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		
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		

Allows card user to update the PIN for their card + PIN User ID. This operation is executed from outside of Program Mode

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

Delete Card by User ID

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

Visitor User Setting

There are 10 groups Visitor PIN/card available, the users can be specified up to 10 times of usage, after a certain number of times, i.e. 5 times, the PIN/card become invalid automatically.

Programming Step	Keystroke Combination		
Enter Program Mode	* (Master Code)#		
2. Add Visitor PIN User OR	8 (0~9 #) (User ID #) (PIN #) PIN is any 4~6 digits number except 1234		
2. Add Visitor Card User	8 (0~9 #) (User ID #) (Read Card #)		
2.Delete Visitor Users	2 (User ID #)		
3. Exit Program Mode	*		
Note: Number of time is 0~9, 0=10 times User ID number must be any number between 990~999 Visitor PIN/card must be unique, should be distinguished from			

https://aros.kz OTHERS -

common PIN and card

Reset to Factory Default:
Power off, press the *Button, hold it and power on, there will be two beeps, release the *button, then will have one beep, means reset to factory default

Remark: Reset to factory default, the user's information is still

Erase all Users This will delete ALL User data

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

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

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Sound and Light Indication

PIN User

Operation Status	Red LED	Green LED	Sounds
Power on	Bright		Short Single Beep
Stand by	Bright		
Press Keypad	Flashing		Short Single Beep
Enter Master Code Entry Mode	ON		Short Single Beep
In program mode	ON	Single Flash	Short Single Beep
Entered Program Step Successfully	ON	Single Flash	Short Single Beep
Entered Program Step Incorrectly			Short Single Beep
Exit from the programming mode	Bright		3 Short Beeps
Entry Granted		ON	Short Single Beep
Open lock	Green light bright		One beep
Alarm Mode Engaged	Flashing		Alarm
Alarm	Red light Shines quickly		Beeps
Pressing * Toggles Standby / Master Code Entry	ON/Flashing		Short Single Beep