

User Manual

INTRODUCTION -

The SK1/SK4 is a dual-entry multi-function Access Control with integrated keypad and card reader. It is designed and manufactured to perform in a wide range of indoor, outdoor and harsh environments. The SK1/SK4 supports up to 1100 users in multiple access configurations

(Card, PIN, or Card + PIN). It built in card reader supports EM 125KHz Both of the two relays on board can operate in Pulse Mode (suitable for access control) or Toggle Mode (suitable for arming/disarming alarms, switching lights, machines....etc)

The SK1/SK4 offers advanced programming features like: block enrollment, advanced relay programming, and door bell. These features make it an ideal choice for door access not only for small shops and domestic households but also for commercial and industrial applications such as factories, warehouses laboratories, banks and prisons.

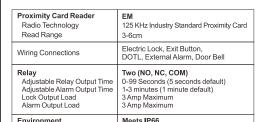
- Features > Waterproof(IP66)
- > Vandal resistant enclosure
- Sacklit keypad
 Multi-color LED status display
 Two programmable relay output
 1100 users (Card/PIN/ Card+PIN)
- > Card block enrollment
- > Integrated alarm & buzzer output

- > Integrated alarm & buzzer output
 > Low power consumption (55mA)
 > Anti-tamper alarm
 > Toggle mode to hold door or gate open
 > Relay 2 supports external door bell
 > 12V DC power input

Factory default setting: Card or PIN mode

User Capacity	1100 Cards/PINS	
Zone 1	1000	
Zone 2	100	
Operating Voltage	12V DC	
Idle Current	55mA	
Active Current	80mA	

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Meets IP66 -40°C~60°C, or -40°F~140°F 10%~ 90% Non-Condensing Operating Temperature Operating Humidity

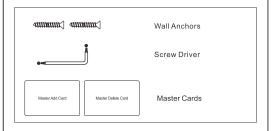
Zinc-Alloy Enclosure Surface Finish 120×W76×H25mm (SK1) L130×W56×H23mm (SK4) L130×W56×H23mm (SK4) 600g (SK1) / 500g (SK4) 700g (SK1) / 650g (SK4) Unit Weight Shipping Weight

Carton Inventory



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9 Input 8 digits or 10 digits Card



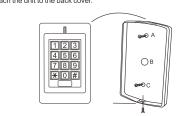
INSTALLATION -

- > Remove the back cover from the unit
- > Retinive 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
 > Thread the cable through the cable hole(B)

- > Attach the unit to the back cover

To set users for Zone 2 (4 | 2 | 1 #)

To set Card user only.



Wiring

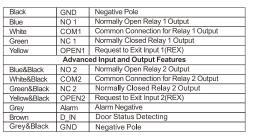
Wire Color	Function	Notes		
Basic Standalone Wiring				
Red DC+ 12V DC Regulated Power Input				
		В		

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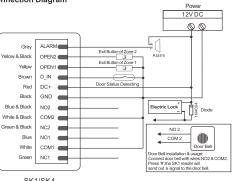
To set Card user only. (In this mode, users can only be valid by card)

4 1 2 # , Zone 1 4 2 2 # , Zone 2

Entry is by Card only



Connection Diagram



Keypad Lockout

Connect the negative pole of the lock to NC is for Fail-safe lock. Connect the negative pole of the lock to NO is for Fail-secure lock

Keypad Lockout & Alarm Output options. If there are 10 invalid cards or 10 incorrect PIN numbers in a 10 minute period either the keypad will lockout for 10 minutes or the alarm will operate, depending on the option

Normal status: No keypad lockout 7 0 # (Factory default)

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Door Bell Connect: the Zone 2, it can be used to operate the door bell when no need to operate a second door. The wiring is connecting the door bell to NO2 and COM2. Press #, the keypad will send out a switching signal to the door bell, as long as you press the" #", the door bell will continuous operate, it will stop until you release the "#"

FUNCTION DESCRIPTION -

Relay operation (Pulse mode and Toggle mode)

Both of the two relays on board can operate in Pulse Mode (suitable for access control) or Toggle Mode (suitable for arming/disarming alarms, switching lights, machines....etc)

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

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

SK1/SK4 can use master cards to program user cards into and out of the system. There are two pre-programmed master cards (an Add Card, and a Delete Card) to allow rapid card enrollment. It is for Zone 1 only.

Anti-tamper Alarm

The SK1/SK4 uses a LDR (light dependent resistor) as an Anti-tamper alarm. If the keypad is removed from the cover then the tamper alarm will

PROGRAMMING -

Configure the Keypad

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

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Set Master Code
The 6 digits Master Code is used to prevent unauthorized access to the system. To interface with the SK1/SK4, the manager will need a Master Code (factory default: 666666). We highly recommend immediate update and recording of your Master Code.

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

SET ACCESS CONFIGURATION

- Card or PIN (Default): The User must present a valid Card to the SK1/SK4 or enter their PIN code followed by the #key, in order to be granted access.
 Card + PIN: The User must first present a valid Card to the SK1/SK4 and then enter their PIN code followed by the #key, in order to be granted access.

Programming Step	Keystroke Combination
Enter Program Mode	* (Master Code) #
2.Card or PIN Zone 1 Zone 2 OR 2.Card + PIN Zone 1 Zone 2	410# 420# 411# 421#
3. Exit Program Mode	*

User Settings

Sound and Light Indication

To enter the programming mode	* Master code #
To exit from the programming mode	*

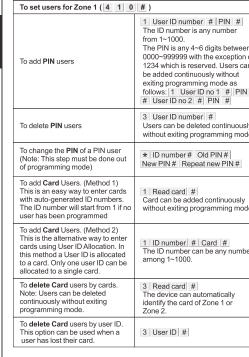
Note that to undertake the following programming, the master user must be logged in

When adding users, if the Card or PIN user has been enrolled already, you can not add it again on the same zone, or the device will give a bleep as error. But it is ok to enroll the same card or PIN for the both zones.

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Operation Status | Dad LED | County LED | Data LED | County

Function Description	Operation	
Enter the Programming Mode	* (Master Code) # (666666 is the factory default master code)	
Change the Master Code	0 (New Master Code) # (Repeat New Master Code) # (code: 6 digits)	
Add Card User	1 (Read Card) # (for Zone 1) 2 (Read Card) # (for Zone 2)	
Add PIN User	1 (User ID 1~1000) # (PIN)# (for Zone 1) 1 (User ID 1001 ~1100) # (PIN) # (for Zone 2) The PIN is any 4-6 digits between 0000 ~ 999999	
Delete User	3 (Read Card) # 3 (User ID) #	
Exit from the Programming Moed	*	
How to be granted access		
Card User	Read card	
PIN User	Enter (PIN) #	



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r Zone 1(4 1 0 #)		To delete card users by card		number # Cards can be deleted continuously	
1 User ID number # PIN # The ID number is any number from 1-1000. The PIN is any 4-6 digits between 0000-999999 with the exception of 1234 which is reserved. Users can be added continuously without exiting programming mode as follows: 1 User ID no 1 # PIN		number	without exiting from programming mode.		
		To set users for Zone 2 (4 2 0	#)		
		To set PIN user for Zone 2 is the same as Zone 1, only the ID number is 1001-1100 for Zone 2. To set Card user for Zone 2 is the same as Zone 1, with the exception of adding Card users with auto-generated ID numbers and Block enrolment as below.			
sers	# User ID no 2 # PIN # 3 User ID number # Users can be deleted continuously		To add Card Users. Auto-generated ID numbers.	2 Read card # Card can be added continuously without exiting programming mode.	
	without exiting programming mode.				
IN of a PIN user	* ID number# Old PIN#		Card and PIN Mode		
must be done out mode) New PIN # Repeat new PIN #		To set users for Zone 1 (4 1 1	#)		
ers. (Method 1) way to enter cards ated ID numbers. will start from 1 if no rogrammed	Read card # Card can be added continuously without exiting programming mode.		To Add a card and PIN user (The PIN is any 4~6 digits between 0000 & 999999 with the exception of 1234 which is reserved.)	Add the card as for a card user Press * to exit from the programming mode Then allocate the card a PIN as follows: * Read card 1234 # PIN # PIN #	
ers. (Method 2) lative way to enter r ID Allocation. In ser ID is allocated line user ID can be lingle card.	1 ID number # Card # The ID number can be any number among 1~1000.		To change a PIN in card and PIN mode (Method 1) Note that this is done outside programming mode so the user can undertake this themselves	* Read Card Old PIN# New PIN# New PIN#	
users by cards. be deleted hout exiting ode.	3 Read card # The device can automatically identify the card of Zone 1 or Zone 2.		To change a PIN in card and PIN mode (Method 2) Note that this is done outside programming mode so the user can undertake this themselves	* ID number# Old PIN# New PIN# New PIN#	
users by user ID. be used when a eir card.	3 User ID #		To delete a Card and PIN user just delete the card	3 Read Card # or 3 User ID #	

1-1100 for Zone 2. et Card user for Zone 2 is the sa	me as Zone 1, with the exception of ted ID numbers and Block enrolment	Relay Setting (Pulse mode, Tog	gle mode)
dd Card Users. -generated ID numbers.	2 Read card # Card can be added continuously without exiting programming mode.	Pulse mode (Factory default)	For Zone 1: 5 1 1~ For Zone 2: 5 2 1~ The door relay time is 1~99 seconds, the fact setting is 5 seconds. 1
d and PIN Mode			Zone 1, 2 means Zone
et users for Zone 1 (4 1 1	#)	Toggle mode	For Zone 1: 5 1 0 For Zone 2: 5 2 0
dd a card and PIN user e PIN is any 4~6 digits between 0 & 999999 with the exception 234 which is reserved.)	Add the card as for a card user Press * to exit from the programming mode Then allocate the card a PIN as follows: * Read card 1234 # PIN # PIN #	Door Alarm, Acoustic Signal, Door Bell Setting Door Open Detection Door Open Too Long (DOTL) warning. When used w magnetic contact or built-in magnetic contact of the I opened normally, but not closed after 1 minute, the is automatically to remind people to close the door and before switching off automatically. Door Forced Open warning. When used with an opti or built-in magnetic contact of the lock, if the door is for	
hange a PIN in card and PIN le (Method 1) e that this is done outside gramming mode so the user can ertake this themselves	* Read Card Old PIN# New PIN# New PIN#		
hange a PIN in card and PIN le (Method 2)	Mothod 2)		perate.
e that this is done outside gramming mode so the user can ertake this themselves	* ID number # Old PIN # New PIN # New PIN #	To disable door open detection (Factory default)	6 0 #
elete a Card and PIN user just te the card	3 Read Card # or 3 User ID #	To enable door open detection	6 1 # It is optional to connect line to LOCK1 or LOC
3-	3-	-	9-

	Alailii
	Alarm
1 1~99 #	To set t minute:
2 1~99 # ime is between the factory default	Acous The ac voice w
nds. 1 means s Zone 2.	Acoust
1 0 #	Acoust
1 0 # 2 0 #	Chang (When the Doo Press #
	Zone 2
n an optional	Door be
k, if the door is de buzzer will beep	To ren
ontinue for 1 minute	To remo
al magnetic contact ced open, the inside	To remo
connect the D_IN or LOCK 2	

arm Output	7 2 #	Addal		
arm output time				
set the alarm output time (1-3 nutes) Factory default is 1 minute	8 1~3 #			
coustic Signal e acoustic signal can be set on or ice when press the keys; when off	off. When on, the device will give the , the device will be in silent.	Delete		
oustic signal On	8 6 # (Factory default)	Reset to		
oustic signal Off	8 7 #	This will r		
	door, Zone 2 can be set to operate ng the door bell to COM2 and NO2. nal to the door bell.	will still be and Dele NOTE: Th		
ne 2	8 8 # (Factory default)	2. Press *		
oor bell	8 9 #	3. Releas 4. Preser		
remove the alarm		to the S		
remove the Door Forced Open arning	Read valid card or Master Code #	5. Preser (provid		
remove the Door Open Too Long	Close the door or Read valid card or Master Code #	When the		
		Erase all		

OTHERS ———	
Using Master Cards	
Using Master Cards (It is only available for Zone 1)	
Add a User Card	1. (Read Master Add Card) 2. (Read User Card) Repeat Step 2 for additional use cards 3. (Read Master Add Card)
Delete a User Card	(Read Master Delete Card) (Read User Card) Repeat Step 2 for additional user cards 3. (Read Master Delete Card)

o Factory Default:

reset the SK1/SK4 to the factory default but all card/PIN information be retained. This will also require reprogramming of the Master Add ete Cards.

This is useful if the original Master Add and Delete Cards have been lost.

- r off SK1/SK4
- * and hold the button while power is restored to the keypad.
- ase the button and wait until the amber LED shines.
 ent any 125KHz proximity EM card or the Master Add Card (provided)
- SK1/SK4. This card is now the Master Add Card.
- ent any 125KHz proximity EM card or the Master Delete Card ided) to the SK1/SK4. This card is now the Master Delete Card.

he red LED begins to blink, the SK1/SK4 has been successfully reset.

- I delete ALL User data of Zone1 or Zone 2 or Both. 1. Enter Program Mode by press: *(Master Code) #.
- 2. Press 30000 # (for Zone 1)
- 2. Press 90000 # (for Zone 2)
- All configuration data is retained

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Operation Status	Red LED	Green LED	Bule LED	Sounds
Power on	Flashing			Short Single Beep
Stand by	Flashing			
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				3 Short Beeps
Exit from the programming mode	Flashing			Short Single Beep
Entry Granted for Zone 1		ON	1	Short Single Beep
Entry Granted for Zone 2			ON	
Alarm Mode Engaged	Flashing			Alarm

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