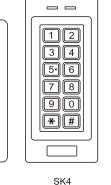


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**X**0#

SK1



User Manual

# INTRODUCTION -

(Card, PIN, or Card + PIN). It built in card reader supports EM 125KHz

### **Features**

- > Vandal resistant enclosure

- > Card block enrollment

- >12-28V AC/DC power input

	Specifications
- [	

User Capacity	1100 Cards/PINS	
Zone 1 Zone 2	1000 100	
Operating Voltage	12-28V AC/DC	
Idle Current	55mA	
Active Current	80mA	

Proximity Card Reader 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. Radio Technology Read Range The SK1/SK4 supports up to 1100 users in multiple access configurations

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.

- > Waterproof(IP66)
- Nation resistant enclosure
   Backlit keypad
   Multi-color LED status display
   Two programmable relay output
   1100 users (Card/PIN/ Card+PIN)
- > Integrated alarm & buzzer output
- Now power consumption (55mA)
   Anti-tamper alarm
   Toggle mode to hold door or gate open
   Relay 2 supports external door bell

Factory default setting: Card or PIN mode

1	Specifications		
	User Capacity	1100 Cards/PINS	
	Zone 1	1000	
	Zone 2	100	
	Operating Voltage	12-28V AC/DC	
	Idle Current	55mA	
	Active Current	80mA	

125 KHz Industry Standard Proximity Card Electric Lock, Exit Button, DOTL, External Alarm, Door Bell Two (NO, NC, COM) Adjustable Relay Output Time 0-99 Seconds (5 seconds default) Adjustable Alarm Output Time I-3 minutes (1 minute default) Amp Maximum

Lock Output Load Alarm Output Load Amp Maximum Meets IP66 40°C~60°C, or -40°F~140°F Operating Temperature Operating Humidity

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

# Carton Inventory

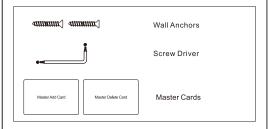


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9 | Input 8 digits or 10 digits Card

Cards can be deleted continuously

without exiting from programming



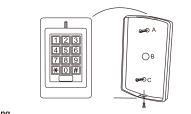
# INSTALLATION -

- > 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)

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

To set Card user only.

> Attach the unit to the back cover



V	"	rı	n	g	

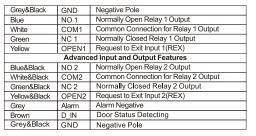
Wire Color	Function	Notes
	В	asic Standalone Wiring
Red	AC&DC	12-28V AC/DC Regulated Power Input
Black	AC&DC	12-28V AC/DC Regulated Power Input

-3-

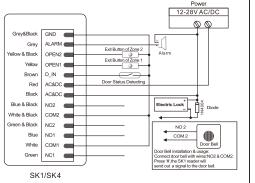
To set Card user only. ( In this mode, users can only be valid by card)

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

Entry is by Card only



# **Connection Diagram**



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

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
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	*

Sound and Light Indication

Note that the same death of the first termination and the same termination of			
To exit from the programming mode	*		
To enter the programming mode	* Master code #		

# 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 | Pod I ED | Groon I ED | Bullo I ED | Sounds

SK1/SK4 - Simplified Instruction		
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) #	

### To set users for Zone 1 ( 4 1 0 # ) User ID number # PIN # The ID number is any number from 1~1000 The PIN is any 4~6 digits be 0000~999999 with To add PIN users 1234 which is res exiting programm # User ID no 2 3 User ID number To delete PIN users Users can be dele without exiting pr To change the **PIN** of a PIN user (Note: This step must be done out of programming mode) \* ID number# New PIN # Repea To add Card Users. (Method 1) This is an easy way to enter cards 1 Read card # with auto-generated ID numbers. The ID number will start from 1 if no user has been programmed Card can be adde without exiting pro To add Card Users. (Method 2) This is the alternative way to enter cards using User ID Allocation. In this method a User ID is allocated among 1~1000. to a card. Only one user ID can be allocated to a single card. To delete Card users by cards. 3 Read card # Note: Users can be deleted identify the card of Zone 2. continuously without exiting programming mode. To delete Card users by user ID. 3 User ID # This option can be used when a user has lost their card.

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th the exception of served. Users can lously without ning mode as	To set <b>PIN</b> user for Zone 2 is the sam 1001-1100 for Zone 2.  To set <b>Card</b> user for Zone 2 is the sam adding <b>Card</b> users with auto-general as below.	me a
# PIN # er # eted continuously	To add Card Users. Auto-generated ID numbers.	2 Ca wi
ogramming mode.	Card and PIN Mode	
Old PIN#		41
eat new PIN#	To set users for Zone 1 ( 4 1 1	# )
ed continuously ogramming mode.	To Add a <b>card</b> and <b>PIN</b> user (The PIN is any 4–6 digits between 0000 & 999999 with the exception of 1234 which is reserved.)	Pr pr Th fol P
Card # an be any number	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	* Ne
utomatically of Zone 1 or	To change a <b>PIN</b> in card and PIN mode (Method 2) Note that this is done outside programming mode so the user can undertake this themselves	* Ne
	To delete a <b>Card and PIN</b> user just delete the card	3

To delete card users by card

To set users for Zone 2 ( 4 2 0 # )

To set <b>PIN</b> user for Zone 2 is the san 1001-1100 for Zone 2.  To set <b>Card</b> user for Zone 2 is the sa adding <b>Card</b> users with auto-genera as below.	, ,	Relay
To add Card Users. Auto-generated ID numbers.	2   Read card   # Card can be added continuously without exiting programming mode.	Puls
Card and PIN Mode		
To set users for Zone 1 ( 4 1 1	#)	Toggle
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 #	Door A
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#	magn opene autom before Door
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 #	or bui buzze To dis (Facto
To delete a <b>Card and PIN</b> user just delete the card	3 Read Card # or 3 User ID #	To en

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eption of enrolment	Relay Setting (Pulse mode, Toggle mode)			
inuously ning mode.	Pulse mode (Factory default)	For Zone 1:   5   1   1-99   # For Zone 2:   5   2   1-99   # The door relay time is between 1-99 seconds, the factory default setting is 5 seconds. 1 means Zone 1, 2 means Zone 2.		
d user	Toggle mode	For Zone 1: 5 1 0 # For Zone 2: 5 2 0 #		
u usei				
PIN as 1234#	Door Alarm, Acoustic Signal, Do	or Bell Settings		
	Door Open Detection Door Open Too Long (DOTL) warnir			
#]	magnetic contact or built-in magnetic contact of the lock, if the door is opened normally, but not closed after 1 minute, the inside buzzer will beep automatically to remind people to close the door and continue for 1 minute before switching off automatically.  Door Forced Open warning. When used with an optional magnetic contact or built-in magnetic contact of the lock, if the door is forced open, the inside			
N#	erate.			
N#	To disable door open detection (Factory default)	6 0 #		
Jser ID #	To enable door open detection	6 1 #   It is optional to connect the D_IN   line to LOCK1 or LOCK 2		
		9-		

Normal status: No keypad lockout or alarm	7 0 # (Factory default)			
Keypad Lockout	7 1 #			
Alarm Output	7 2 #			
Alarm output time				
To set the alarm output time (1-3 minutes) Factory default is 1 minute	8 1~3 #			
Acoustic Signal The acoustic signal can be set on or voice when press the keys; when off	off. When on, the device will give the , the device will be in silent.			
Acoustic signal On	8 6 # (Factory default)			
Acoustic signal Off	8 7 #			
•				
Change Zone 2 to Door Bell (When no need to operate a second the Door Bell. The wiring is connecting Press #, the keypad will send the sign	door, Zone 2 can be set to operate ng the door bell to COM2 and NO2.			
Change Zone 2 to Door Bell (When no need to operate a second the Door Bell. The wiring is connecti Press #, the keypad will send the sig	door, Zone 2 can be set to operate ng the door bell to COM2 and NO2.			
Change Zone 2 to Door Bell (When no need to operate a second the Door Bell. The wiring is connecti Press #, the keypad will send the sig	door, Zone 2 can be set to operate ng the door bell to COM2 and NO2. nal to the door bell.			
Change Zone 2 to Door Bell (When no need to operate a second the Door Bell. The wiring is connecti Press #, the keypad will send the sig Zone 2	door, Zone 2 can be set to operate ng the door bell to COM2 and NO2. nal to the door bell.			
Change Zone 2 to Door Bell (When no need to operate a second the Door Bell. The wiring is connecti Press #, the keypad will send the sig Zone 2 Door bell	door, Zone 2 can be set to operate ng the door bell to COM2 and NO2. nal to the door bell.			

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Jsing 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 user cards 3. (Read Master Add Card)			
Delete a User Card	1. (Read Master Delete Card) 2. (Read User Card) Repeat Step 2 for additional use cards 3. (Read Master Delete Card)			

# Reset to Factory Default:

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

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

- 1. Power off SK1/SK4
- 2. Press \* and hold the button while power is restored to the keypad.
- 3. Release the button and wait until the amber LED shines.
  4. Present any 125KHz proximity EM card or the Master Add Card (provided)
- to the SK1/SK4. This card is now the Master Add Card. Present any 125KHz proximity EM card or the Master Delete Card (provided) to the SK1/SK4. This card is now the Master Delete Card.

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

# Erase all Users

- This will 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		Short Single Beep
Entry Granted for Zone 2			ON	
Alarm Mode	Flashing			Alarm

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