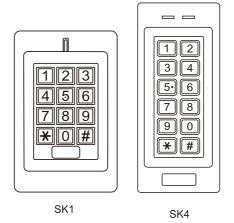




Waterproof

Dual-relay Access Control



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 frequency cards.

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

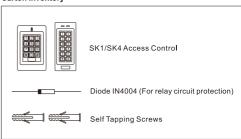
- > Waterproof(IP66)
- > Vandal resistant enclosure
- > Backlit keypad
- > Multi-color LED status display
- > Two programmable relay output
- > 1100 users (Card/PIN/ Card+PIN)
- > Card block enrollment
- > Integrated alarm & buzzer output
- > Low power consumption (55mA)
- > Anti-tamper alarm
- > Toggle mode to hold door or gate open
- > Relay 2 supports external door bell
- >12-28V AC/DC power input

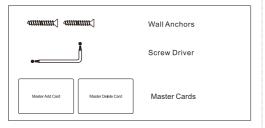
Specifications

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

Proximity Card Reader Radio Technology Read Range	EM 125 KHz Industry Standard Proximity Card 3-6cm
Wiring Connections	Electric Lock, Exit Button, DOTL, External Alarm, Door Bell
Relay Adjustable Relay Output Time Adjustable Alarm Output Time Lock Output Load Alarm Output Load	Two (NO, NC, COM) 1-99 Seconds (5 seconds default) 1-3 minutes (1 minute default) 3 Amp Maximum 3 Amp Maximum
Environment Operating Temperature Operating Humidity	Meets IP66 -40°C~60°C, or -40°F~140°F 10%~ 90% Non-Condensing
Physical Surface Finish Dimensions Unit Weight Shipping Weight	Zinc-Alloy Enclosure Powder Coat L120×W76×H25mm (SK1) L130×W56×H23mm (SK4) 600g (SK1) / 500g (SK4) 700g (SK1) / 650g (SK4)

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
- > Thread the cable through the cable hole(B) > Attach the unit to the back cover

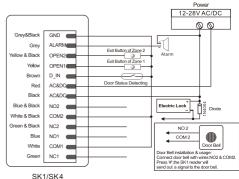


Wiring

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

Grey&Black	GND	Negative Pole
Blue	NO 1	Normally Open Relay 1 Output
White	COM1	Common Connection for Relay 1 Output
Green	NC 1	Normally Closed Relay 1 Output
Yellow	OPEN1	Request to Exit Input 1(REX)
Advanced Input and Output Features		
Blue&Black	NO 2	Normally Open Relay 2 Output
White&Black	COM2	Common Connection for Relay 2 Output
Green&Black	NC 2	Normally Closed Relay 2 Output
Yellow&Black	OPEN2	Request to Exit Input 2(REX)
Grey	Alarm	Alarm Negative
Brown	D_IN	Door Status Detecting
Grey&Black	GND	Negative Pole

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. 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.

Master Card

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 operate.

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.

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	*

User Settings

	To enter the programming mode	* Master code #
I	To exit from the programming mode	*
1		

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

Note:

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.

Footom defects at the Condess BIN was de-		
Factory default setting: Card or PIN mode		
To set users for Zone 1 (4 1 0 #)		
To add PIN users	1 User ID number # PIN # The ID number is any number from 1~1000. The PIN is any 4~6 digits between 0000~99999 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 # User ID no 2 # PIN #	
To delete PIN users	3 User ID number # Users can be deleted continuously without exiting programming mode.	
To change the PIN of a PIN user (Note: This step must be done out of programming mode)	* ID number # Old PIN # New PIN # Repeat new PIN #	
To add Card Users. (Method 1) This is an easy way to enter cards with auto-generated ID numbers. The ID number will start from 1 if no user has been programmed	1 Read card # Card can be added continuously without exiting programming mode.	
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 to a card. Only one user ID can be allocated to a single card.	1 ID number # Card # The ID number can be any number among 1~1000.	
To add a series cards users-Block Enrolment The card number must be consecutive. (This operation is only for Zone 1)	1 ID number # 8 digits or 10 digits Card number # Card quantity # Card quantity is between 1~1000.	

To delete Card users by cards. Note: Users can be deleted continuously without exiting programming mode.	3 Read card # The device can automatically identify the card of Zone 1 or Zone 2.	
To delete Card users by user ID. This option can be used when a user has lost their card.	3 User ID #	
To delete card users by card number	9 Input 8 digits or 10 digits Card number # Cards can be deleted continuously 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.		
To add Card Users. Auto-generated ID numbers.	2 Read card # Card can be added continuously without exiting programming mode.	

	without exiting programming mode
Card and PIN Mode	
To set users for Zone 1 (4 1 1	#)
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 #
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#

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#
undertake this themselves	
To delete a Card and PIN user just delete the card	3 Read Card # or 3 User ID#

To set users for Zone 2 (4 2 1 #)
The operation is the same as Zone 1.

To set Card user only. (In this mode, users can only be valid by card)		
To set Card user only.	4 1 2 # , Zone 1 4 2 2 # , Zone 2 Entry is by Card only	

Relay Setting (Pulse mode, Toggle 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.	
Toggle mode	For Zone 1: 5 1 0 # For Zone 2: 5 2 0 #	

Door Alarm, Acoustic Signal, Door Bell Settings

Door Open Detection

Door Open Too Long (DOTL) warning. When used with an optional 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 buzzer and alarm output will both operate.

To discuss de la companya de tradica			
To disable door open detection (Factory default)	6 0 #		
To enable door open detection	6 1 # It is optional to connect the D_IN line to LOCK1 or LOCK 2		
Keypad Lockout & Alarm Output or or 10 incorrect PIN numbers in a 10 r lockout for 10 minutes or the alarm w selected below.	minute period either the keypad wi		
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			
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 sig	ng the door bell to COM2 and NO2		
Zone 2	8 8 # (Factory default)		
Door bell	8 9 #		
To remove the alarm	•		
To remove the Door Forced Open			

Close the door or Read valid card

or Master Code #

To remove the Door Open Too Long

warning

OTHERS

Using Master Cards

Using Master Cards (It is only available for Zone 1)	
Add a User Card	(Read Master Add Card) (Read User Card) Repeat Step 2 for additional user cards (Read Master Add Card)
Delete a User Card	(Read Master Delete Card) (Read User Card) Repeat Step 2 for additional user cards (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.
- Release the button and wait until the amber LED shines.
- Present any 125KHz proximity EM card or the Master Add Card (provided) to the SK1/SK4. This card is now the Master Add Card.
- 5. 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)
- Or
- 2. Press 90000 # (for Zone 2)
- 3. Exit: *

All configuration data is retained.

Sound and Light Indication

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 Engaged	Flashing			Alarm