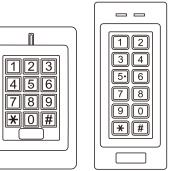
Waterproof Dual-relay Access Control



User Manual

INTRODUCTION -

Access Control 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.

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)

Access Control 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

- > Integrated alarm & buzzer output

- Notice of the state of the
- >12-28V AC/DC power input

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

Access Control supports up to 1100 users in multiple access configurations (Card, PIN, or Card + PIN). It built in card reader supports EM 125KHz

- > Waterproof(IP66)
- > Vandal resistant enclosure
- Nation resistant enclosure
 Backlit keypad
 Multi-color LED status display
 Two programmable relay output
 1100 users (Card/PIN/ Card+PIN)
- > Card block enrollment
- > Low power consumption (55mA)

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

Factory default setting: Card or PIN mode

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Proximity Card Reader Radio Technology 125 KHz Industry Standard Proximity Card Read Range Electric Lock, Exit Button, DOTL, External Alarm, Door Bell Two (NO, NC, COM) Adjustable Relay Output Time 0-99 Seconds (5 seconds default)

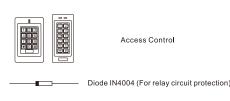
I-3 minutes (1 minute default)

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

Zinc-Alloy Enclosure Surface Finish 120×W76×H25mm (SK1) _130×W56×H23mm (SK4) _130×W56×H23mm (SK4) 500g (SK1) / 500g (SK4) 700g (SK1) / 650g (SK4) Unit Weight Shipping Weight

Carton Inventory

Adjustable Alarm Output Time



Self Tapping Screws

To delete card users by card

1001-1100 for Zone 2

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

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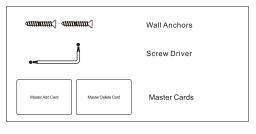
To set PIN user for Zone 2 is the same as Zone 1, only the ID number is

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

9 Input 8 digits or 10 digits Card

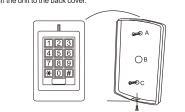
Cards can be deleted continuously

without exiting from programming



INSTALLATION -

- > Remove the back cover from the unit
- > Prefin to be dock cover from the unit
 > Prill 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



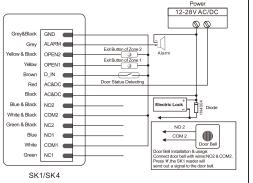
Wiring

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

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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,

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.

alarm. If the keypad is removed from the cover then the tamper alarm will

PROGRAMMING -

Configure the Keypad

OTHERS -

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	410# 420#
OR 2.Card + PIN Zone 1 Zone 2	411# 421#
3. Exit Program Mode	*

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

To set users for Zone 1 (4 1 0	<u>#</u>)
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 0000-999999 with the exception of 1234 which is reserved. Users car 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 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 #

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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
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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 #

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To add Card Users. Auto-generated ID numbers.	2 Read card # Card can be added continuously without exiting programming mod
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 #
To delete a Card and PIN user just delete the card	3 Read Card # or 3 User ID#

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To set users for Zone 2 (4 | 2 | 1 #) 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 To set Card user only. Entry is by Card only Relay Setting (Pulse mode, Toggle mode) For Zone 1: | 5 | 1 | 1~99 | # For Zone 2: | 5 | 2 | 1~99 |

ruise mode (ractory default)	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 DetectionDoor 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 disable door open detection | | 6 0 | #

(Factory default)	
To enable door open detection	6 1 # It is optional to connect the D_IN line to LOCK1 or LOCK 2

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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)

**				
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 off. When on, the device will give the voice when press the keys; when off, the device will be in silent.				
Acoustic signal On	8 6 # (Factory default)			

Change Zone 2 to Door Bell (When no need to operate a second door, Zone 2 can be set to operate

Keypad Lockout

Acoustic signal Off

Press #, the keypad will send the signal to the door bell.				
Zone 2	8 8 # (Factory default)			
Door bell	8 9 #			
To remove the alarm				
To remove the Door Forced Open	Read valid card or Master Code #			

8 7 #

arning	Tread valid card of Iviaster Code #
o remove the Door Open Too Long arning	Close the door or Read valid card or Master Code #

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

Reset to Factory Default:

This will reset the 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.

3. (Read Master Delete Card)

- 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)
- . This card is now the Master Add Card.

5. Present any 125KHz proximity EM card or the Master Delete Card (provided) to the This card is now the Master Delete Card.

ase all Users

- 2. Press 30000 # (for Zone 1)
- 2. Press 90000 # (for Zone 2)

ound and Light Indication Operation Status Red LED Green LED Bule LED

and by	Flashing			
ess Keypad	Flashing			Short Single Be
ter Master de Entry Mode	ON		-	Short Single Be
orogram mode	ON	Single Flash		Short Single Be
tered Program ep Successfully	ON	Single Flash	-	Short Single Be
tered Program ep Incorrectly				3 Short Beeps
t from the gramming mode	Flashing			Short Single Be
try Granted for ne 1	==	ON		Short Single Be

This will delete ALL User data of Zone1 or Zone 2 or Both.

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

All configuration data is retained.

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Beep Beep Beep ON

Flashing

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