1. Introduction

S200 adopts aluminium alloy structure, capacitive sensing and luminescent touch keypad. It can identify 125 KHZ EM and HID cards or 13.56 MHz IC and CPU (ISO14443A) cards (S200-IC). With 3 kinds of combination of card and PIN to unlock the door, can directly drive electric lock support external exit button, door contact. Up to 1000 users capacity, each user owns one card and one 4-6 digits PIN. The Master can set 8pcs Master cards to achieve factory default, add users, delete users, authorization , prohibition ,multi-card access, anti-duress, n ormal open etc functions.

2. Features Operating voltage range: DC12~24V Idle input current: <38mA Operating temperature range: 40~60° C Operating humidity: 0~95% (non-condensing) Dimensions: 118X86X18.2mm Lock Output Load: 1A or 50mS 4A impulse Alam Output Load: 1A	Subferent models Functions Model S200-IC Card type 125KHZ EM & HID 13.56MHZ IC & CPU The largest distance of reading 8cm 4cm Operating temperature -40~60° C -20~60° C
Card Type: EM and HID/125KHz or 13.56 MHz IC and CPU (ISO14443A) for optional Reading Distance: 8cm Quantity of Master Card: 8pcs User Capacity: 1000 (include PIN user) PIN Length Of Master: 6-8 digits Dor open time setting: 50mS, 1-98 Second, Normal Open Alarm Time: 60 Second Door unlocked time limit: 10 Second Door unlocked aller frequency: 10 times (1time/second) Maximum card of multi-cards access: 10pcs Anti- cracking times: 3 times	 4. Wiring diagram and installation 4.1 Drill the holes for the installation and the wires according to the position and the size of the holes in the back holder. (If mounting base is 86 box, no need drill holes on the wall) 4.2 Fix the back holder on the wall by the rubber bungs and the self-tapping screws. If mounting base is 86 box, no need rubber bungs and self-tapping screws, but need machine screws to fix it. 4.3 Making wiring according to the wiring diagram and then power on, to see if it can work normally. If it is OK, then you can go ahead. 4.4 Install S200 on the back holder according to the pictures. Pressing it downward hard and
Body material: surface oxidation of aluminum alloy Material of back plane and bracket: galvanized iron Material of Front Panel: Acrylic Keypad type: Capacitive sensing touch keypad Keypad Color: Backlit keypad, reflected white light	then you hear a "click" sound and if we couldn't pull upward which means that the installation is completed. Remark: if you find some problems after the installation, which need to uninstall the machine. You can knock on the bottom of the machine by rubber hammer to take off the machine from the back holder. Wiring diagram(special power supply for access)

·01·

Alarm type: anti tamper, anti duress, door contact, anti cracking,

Access mode: Single card, multi cards, card + PIN, card or PIN

Tools of resetting factory default: exit button or initializing Master card

Electric lock drive mode: NMOS output

Output drive device: electric lock Alarm

Electric lock type: Fail Safe, Fail Secure

Electric lock option: by program

External input device: exit button, door contact.

the back holde

·02·



GND Black

DC12V Power Supply

·03·

Install on the Wall

...

Install on the 86 Box

·04·





5. Master Operation

Master operation includes Master Keypad operation and Master Cards Operation

5.1 Master Keypad programming

Swipe normal open card again

6.1 Open door with single card

6.2 Open door with multi-cards

6.3 Open door with card & PIN

6.4 Open door with card or PIN

Dr Input 4-6 digits PIN , # , door open.

Repeat input 4-6 digits new PIN. #

Repeat input 4-6 digits new PIN #

Swipe user card, door oper

6.5 Change the user PIN

1 User ID is from 11-1010

7.1 Anti tamper alarm

7.2 Door contact alarm

external alarm will operate.

7.3 Anti-duress alarm

Swipe 2-10 user cards with interval time less than 5 seconds.

Swipe user card, then input 4-6digits PIN within 5 seconds

Swipe user card , input 4-6 digits PIN ,# door open.

PIN is 1234, and the new pass word could not be 1234.

ill operate, buzzer of controller will not operate.

Swipe user card, door open.

swiping card or input PIN.

Enter into Master keypad programming must verify PIN first, and method as follow: Press * (press more than 2 seconds) 888888 # , LED indicator turns into red flash, and other operations must be done under programming mode. Notes: * needs press more than two seconds. 888888 is the factory default Master PIN, and if

it is changed to new PIN, here should input the new Master PIN. When master's PIN is wrong and the time is over 5s before you enter PIN again, it will return to

standby mode. After enter right master's PIN, it will also return to standby mode if there is no valid operation in

30 seconds

All of the Master Keypad operation shown in the form below:

	L	ED i	ndicator			
d	d Red flash		Orange flash	Function	Remark	
	888888#	0	6~8 digits new master PIN#, Repeat 6~8digits new master PIN #	Change the master PIN		
			ID Number #, Read card	To add a master card or a card user		
			ID Number #, 8 or 10 digits card number #	To add a master card or a card user	You can add more	
		1	ID Number #, 4~6 digits PIN #	To add a PIN user	users	
			Read card	To add a card user	adding	
			8 or 10 digits card number #	To add a card user	one	
			*	Back to main menu	1	
			Read card	Delete one card	You can	
		2	8 or 10 digits card number #		delete more	
			1-1010 (ID) #	Delete one user or master card	users after deleting	
			*	Back to main menu	one	

·05·

back to previous setting status, when door is closed it will be locked. People can open door by

6. User Operation

Swipe user card 1, Swipe user card 2, Swipe user card 3, door open.

*, Swipe user card, Input 4-6 digits old PIN, #, Input 4-6 digits new PIN, #,

, Input user ID, #, Input 4-6 digits old PIN, #, Input 4-6 digits new PIN, #,

2 * key have to be pressed more than 2 second. PIN user have to get ID number and original

PIN from operator, card user have to change PIN by swiping card in the first time, the original

7. Alarm Function

When controller is opened illegally, buzzer built-in and external alarm will operate.

When door contact is connected and the door is opened illegally, buzzer of controller and

When under threat, swipe anti-duress card, the door will open as normal, the external alarm w

·12·

Delete all users and PIN Entry by Card only Factory Entry by Crad and PIN together Entry by either card or PIN 2# To set door relay time 50mS Factory 1-98# To set door relay time 1-98S default Toggle mode Factory Connect to type A lock Connect to type B lock Turn off remind of closing door Turn on remind of closing door No limit for error times Device lockups for 10 minutes if 3 times wrong card or PIN Alarm 1 minute if 3 times wrong 2# card or PIN eypad backlight and indicator ligh 0# normal off Keypad backlight and indicator light 8 1# normal on Keypad backlight and indicator ligh 2# on automatically Exit from master programming mode

8888# (888888 is factory default PIN, if you Iready changed, pls use your new PIN Delete master card of ID2 #, adding 2 2# user card. Delete master card of ID3 #, deleting user card. 3# Wrong operation, can't delete all user information (* 888888#, 2, 2#, 3#, 0000#, * during this operation, 2# and 3# are valid operation and can delete card accordingly, but 0000# follow other operations under 2, can't delete all user information. This is for in case deleting all user information accidentally.) Press *, back to main menu status. Delete all users. (* 888888#. 2, 0000#, this operation 0000# n delete all user informatio 1 2# Swipe card Add master card of ID2#, adding user 3# Swipe card Add master card of ID3#, deleting user Add card user of ID11#.(via swiping 11# Swipe card 12# 15159963# Add card user of ID12#. (input 8bits card No.) 13# 0002124341# Add card user of ID13#.(input 10bits B type of lock refers to those lock that normally under standby status, there is current for lock, Add PIN user of ID14#. E.g.: PIN is 14# 123456# Add card user via swiping card, ID No. will be generated automatically. Swipe card

964#

ottom via pressing keypad or swiping care

aster PIN Main

status

For example: operate few steps as below in the sequence of from left to right and top to

Description of operation

nter master programming mode

Add card user via inputting card No. II

No. will be generated automatically.

(input 8bits card No.)

Input paramet

or swipe card

5 2 Operation of master cards

Add master cards before use it. Like user card, master card is managed by ID No. ID 1# - 8# are for master cards with specific function. Master cards are added or deleted through its ID No. ID No. is allocated as below.

. ID No. IS allocated as below.		
ID No.	Card Type	Function
1	Master card	initializing card
2	Master card	Adding user card
3	Master card	Deleting user card
4	Master card	Authorizing card
5	Master card	Prohibiting card
6	Master card	Setting card (to set open door via multi-card)
7	Master card	Anti-duress card
8	Master card	Card for door normal open
9	Master card	Preserved
10	Master card	Preserved
11-1010	User card	Open door

5.2.1 Methods of adding master card :

Press: * 8 8 8 8 8 8 # 1 1 #read card *,Add initializing card Press: * 8 8 8 8 8 8 # 1 2 #read card * Add adding user card Press: * 8 8 8 8 8 # 1 3#read card *,Add deleting user card Press: * 8 8 8 8 8 8 # 1 4 #read card *,Add authorizing card Press: *888888#15#read card * Add prohibiting card Press: * 8 8 8 8 8 8 # 1 6 #read card *,Add multi-card open door setting card Press: * 8 8 8 8 8 8 # 1 7#read card * Add anti-duress card Press: * 8 8 8 8 8 8 # 1 8 #read card *.Add door normal open card

7.4 Anti-cracking alarm

If anti-cracking alarm is on, buzzer of controller and external alarm will operate while swipe invalid card or input wrong PIN more than 3 times.

7.5 To remove the alarm

Swipe valid card or input master PIN can remove the alarm. If there is no operation, the alarm will remove automatically after 1 minute.

8. Anti-cracking function

Function set as below:

Press * 8 8 8 8 8 8 # 7 1 # *, keypad lockup function is enabled.

When swipe invalid card or input wrong PIN 3 times, the keypad will lockup for 10 minutes and

cannot do any operation, it will be removed after 10 minutes automatically. Press * 8 8 8 8 8 8 # 7 2 #*, alarm function is enabled.

When swipe invalid card or input wrong PIN 3 times alarm 1 minute, it could be removed by

swiping valid card or input master PIN.

The first * have to be pressed more than 2 seconds, 888888 is factory default master PIN, new PIN have to be input if the factory default master PIN was changed.

9. Remind of Closing Door Function

If want use this function, door contact should be connected and enable this function set as below: Press * 8 8 8 8 8 8 # 6 1 # *. enable the function.

The first * have to be pressed more than 2 seconds, 8888888 is factory default master PIN, new PIN have to be input if the factory default master PIN was changed.

When door is open and not close in 10 seconds, buzzer of controller will beep per second to remind people to close door, it will stop after door is locked.

10. To Reset Factory Default

release it. Input 6-8 digits new master PIN, press" #" within 15 seconds, reset to factory default successfully. The master PIN is 6-8 digits new master PIN we just input. It will not reset to factory default and remain all previous settings if the PIN was not input successfully, or no any operation within 15 seconds after we hear "beep beep"

·13·

11. Sound And Light Indication

·07·

Operation Status	Buzzer	LED
Standby		Red
Press keypad	Beep	
Open the door	Bee-eep	Green
Operation successful	Bee-eep	Green
Operation failed	3 beeps	
Input PIN		Red flash slow
Enter into programming mode		Red flash slow
In the programming mode		Orange
Enter into add card mode		Orange
Enter into delete card mode		Orange
Enter via swiping Master Card	2 beeps	
Exit via swiping Master Card	Bee-eep	
Open Door via Swiping Card	Bee-eep	Green
Remind of closing door	Bee-eep	Red Flash Quick
Alarm	Alarm sound	Red Flash Quick

12. PACKING LIS

Model

S200-EH or S200-IC

Φ4mm×25mm Φ6mm×30mm

S200

Qty.

Remark

Fix on 86 Box

2 Fix on other place

Fix on other place



Name

User Manual

Machine Screw

Rubber bung

Access Controller

Power off, press exit button, hold it not release and power on, after you hear "beep beep" then

when there is no current the door will open.

·06·

NOTE ① A type of lock refers to those lock that normally under standby status, there is no current for lock, when there is current the door will open

00021 24342 #	Add card user via inputting card No. ID No. will be generated automatically. (input 10bits card No.)
*	Press *, back to main menu status.
0#	Set door open time. (50mS)
0#	Set type of lock as fail secure lock.
2#	Set back light on automatically.
	Exit programming mode.

·08·

S200

Metal Standalone Access Controller

		-
1	2	3
4	5	6
7	8	9
*	0	#

User Manual