# **Touch Standalone Access Control SAC 2110**

## **User Manual**





Please read the manual carefully before use this unit

# 1. Packing List

Name	Quantity	Remarks
Touch Access Control SAC 2110	1	
User manual	1	
Screw driver	1	Ф20mm×60mm, Special for keypad
Rubber plug	2	Φ6mm×30 mm, used for fixing
Self tapping screws	2	Φ4mm×28 mm, used for fixing
Star screws	1	Ф3mm×6mm, used for fixing

Please ensure that all the above contents are correct. If any are missing please notify the supplier of the unit.

# 2. Quick Reference Programming Guide

To enter the programming mode	* Master code #
	999999 is the default factory master code
To exit from the programming mode	*
Note that to undertake the followi	ng programming the master user must be logged in
To change the master code	0 New code # New code #
	The master code can be 6 to 8 digits
To add a PIN user.	1 User ID number # PIN#
	The ID number is any number between 1 & 2000. The PIN is any four digits between 0000 & 9999 with the exception of 1234 which is reserved. Users can be added continuously without exiting programming mode
To add a card user	1 Read Card #  Cards can be added continuously without exiting programming mode
To delete a PIN or a card user.	2 User ID number # for a PIN user or 2 Read Card # for a card user Users can be deleted continuously without exiting programming mode
To unlock the door for a PIN user	Enter the PIN then press #
To unlock the door for a card user	Present the card

#### 3. Description

The unit is single door multifunction touch standalone access controller **or** a Wiegand output keypad or card reader. It is plastic touch keypad access control. The inbuilt card reader supports 125KHZ EM cards. This unit has the inbuilt upscale microprocessor which make the unit very jamproof, safe and reliable. It is suitable for mounting either indoor or outdoor. This unit supports up to 2000 users in either a Card, 4 digit PIN, or a Card + PIN option. The unit has many extra features including lock output current short circuit protection, Wiegand output , and a backlit keypad. These features make the unit 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.

#### 4. Features

- Touch keypad, numbers backlight
- 2000 uses, supports Card, PIN, Card + PIN
- Can be used as a standalone keypad for PIN users
- Pin can be Modified by users
- Adjustable Door Output time, Alarm time, Door Open time
- Very low power consumption (30mA)
- Lock output current short circuit protection
- Easy to install and program
- Built in light dependent resistor (LDR) for anti tamper
- Built in buzzer
- Red, Orange and Green LEDS display the working status
- Fast Search speed: time between reading card and opening the door is less than 0.1S
- Size:117\*71\*22MM

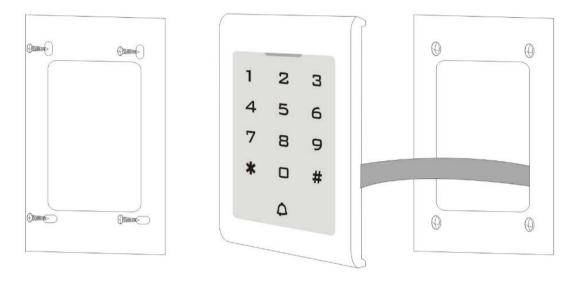
#### 5. Specifications

Operating Voltage	DC 12V±10%
User Capacity	2000
Card Reading Distance	3-6 cm
Active Current	<60mA
Idle Current	25±5 mA
Lock Output Load	Max 3A
Alarm Output Load	Max 20A
Operating Temperature	-45°C∼60°C
Operating Humidity	10%- 90% RH
Adjustable Door Relay time	0 -99 seconds
Adjustable Alarm Time	0- 3 minutes
Wiegand Interface	Wiegand 26 bit
Wiring Connections	Electric Lock, Exit Button, External Alarm,External reader

#### 6. Installation

 Drill the holes on the wall according to the hole size of the back cover or install the cable box on the wall

And Fix the back cover firmly on the wall with the supplied screws. (Picture below)

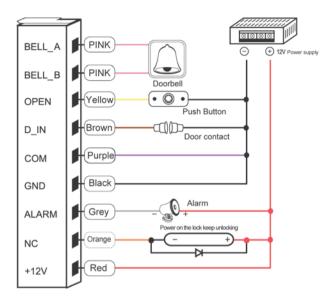


- Thread the cable through the cable hole, connect the wire needed, wrap unused wire with insulating tape in case of short circuit
- Fix the front cover to the back cover with screw driver

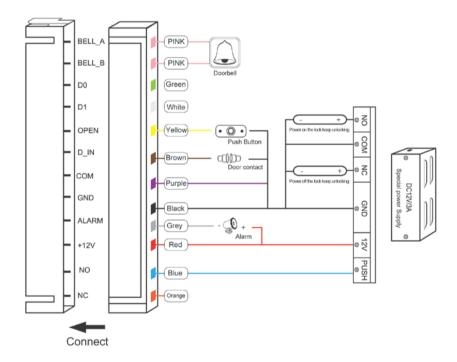
## 7. Wiring

Colour	Function	Description
Pink	BELL_A	Doorbell button one end
Pink	BELL_B	Doorbell button to the other end
Green	D0	WG output D0
White	D1	WG output D1
Grey	ALARM	Alarm negative (alarm positive connected +12)
Yellow	OPEN	Exit button one end (the other end connected GND)
Brown	D_IN	Magnetic switch one end (the other end connected GND)
Red	12V+	12V + DC Regulated Power Input
Black	GND	12V - DC Regulated Power Input
Blue	NO	Relay normally-on end (Connect positive electric lock "-")
Purple	СОМ	Relay Public end, connect GND
Orange	NC	Relay Closed end (connect negative electric lock "-")

common power supply diagram:



special power supply diagram:



## 8. To Reset to Factory Default Reset Master code

- 1) Disconnect the power supply of the SAC 2110.
- 2) Turn on the power and while the segment is lit in "Green" press the # (numeral) key. The equipment emits 2 beeps with the factory code 999999 (6 times 9) enabled.

## 9. Anti Tamper Alarm

The unit 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.

# 10. Sound and Light indication

Operation Status	Red Light	Green Light	Yellow Light	Buzzer
Power on	-	Bright	-	Di
Stand by	Bright	-	-	-
Press keypad	-	-	-	Di
Operation successful	-	Bright	-	Di
Operation failed	-	-	-	DiDiDi
Enter into programming mode	Bright	-	-	
In the programming mode	-	-	Bright	Di
Exit from the programming	Bright	-	-	Di
mode				
Open the door	-	Bright	-	Di
Alarm	Bright	-	-	Alarm

## 11. Detailed Programming Guide

	* Master code #	
11.1 User Settings	999999 is the default factory master code	
To enter the programming mode		
To exit from the programming mode	*	
Note that to undertake the following programming the master user must be logged in		
To change the master code	0 New code # New code #	
	The master code can be 6 to 8 digits long	
Setting the working mode:		
Set valid card only users	3 0 # Entry is by card only	
Set valid card <b>and</b> PIN users	3 1 # Entry is by card and PIN together	
Set valid card <b>or</b> PIN users	3 2 # Entry is by either card <b>or</b> PIN (default)	
To add a user in either card or PIN mode, i.e. in the 3 2 # mode. (Default setting)		

T 11 8:	
To add a <b>Pin</b> user	1 User ID number # PIN #
	The ID number is any number between 1 & 2000. The PIN is any four digits between 0000 & 9999 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 a <b>PIN</b> user	2 User ID number #
To defete a riff diser	Users can be deleted continuously without exiting
	programming mode
To change the <b>PIN</b> of a PIN user	* ID number # Old PIN # New PIN # New PIN #
(This step must be done out of programming mode)	
To add a card user (Method 1)	1 Read card #
Note: This is the fastest way to create users	Cards can be added continuously without exiting
by Card. Note that the "User ID" will be	programming mode
automatic and therefore lose control of the	
ID assigned to the card, so if you later want	
to delete it you will not know what the corresponding ID.	
To add a <b>card</b> user (Method 2)	1 ID number # Read card #
This is the alternative way to enter cards	User can be added continuously without exiting
using User ID Allocation. In this method a	programming mode
User ID is allocated to a card. Only one user	
ID can be allocated to a single card.	
To add a <b>card</b> user (Method 3)	1 Card number #
Card number is the last 8 digits printed on	User can be added continuously without exiting
the back of the card,user ID number auto	programming mode
generation	
To add a <b>card</b> user (Method 4)	1 ID number. # Card number. #
In this method a User ID is allocated to a card	User can be added continuously without exiting programming
number. Only one user ID can be allocated to	mode
the card number	
To delete a <b>card</b> user by card. Note users can	2 Read Card #
be deleted continuously without exiting	
programming mode	

To delete a <b>card</b> user by user ID. This option can be used when a user has lost their card	2 User ID #
To delete a <b>card</b> user by card number.  This option can be used when the user want to make the change but the card has lost	2 Card number #  Note users can be deleted continuously without exiting programming mode
To add a card and PIN user in card and PIN mod	de (3 1 #)
To Add a <b>card</b> and <b>Pin</b> user  (The PIN is any four digits between 0000 & 9999 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 <b>PIN</b> 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 <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	* ID number # Old PIN # New PIN # New PIN #
To delete a <b>Card and PIN</b> user just delete the card	2 User ID #
To add a <b>card</b> user in card mode (3 0 #)	)
To Add and Delete a <b>card</b> user	The operating is the same as adding and deleting a card user in 3 2 #
To delete <b>All users</b>	
To delete <b>ALL users.</b> Note that this is a <b>dangerous</b> option so use with care	2 0000 #
To unlock the door	
For a <b>PIN</b> user	Enter the PIN then press #
For a <b>card</b> User	Read card
For a card and PIN user	Read card then enter PIN #

#### 11.2 Door Settings

Relay Output Delay Time	
To set door relay strike time	* Master code # 4 0~99 #*
	0-99 is to set the door relay time 0-99 seconds
Door Open Detection	
contact of the lock, if the door is opened norm	used with an optional magnetic contact or built-in magnetic nally, but not closed after 1 minute, the inside buzzer will beep the door and continue for 1 minute before switching off
lock, if the door is forced open, or if the door	n optional magnetic contact or built-in magnetic contact of the is opened after 20 seconds, the inside buzzer and alarm output justable between 0-3 minutes with the default being 1 minute.
To disable door open detection. (Factory default)	6 0 #
To enable door open detection	6 1 #
Alarm output time	
To set the alarm output time (0-3 minutes) Factory default is 1 minute	5 0~3 #
	there are 10 invalid cards or 10 incorrect PIN numbers in a 10 for 10 minutes or both the alarm and the inside buzzer will on selected below.
Normal status: No keypad lockout or alarm (factory default)	7 0 # (Factory default setting)
Keypad Lockout	7 1 #
Alarm and inside buzzer operate	7 2 #
To remove the alarm	
To reset the Door Forced Open warning	Read valid card <b>or</b> Master Code #
To recet the Dear Open Too Long warning	
To reset the Door Open Too Long warning	Close the door <b>or</b> Read valid card <b>or</b> Master Code #

## 12. The unit operating as a Wiegand Output Reader

In this mode the unit supports a Wiegand 26 bit output so the Wiegand data lines can be connected to any controller which supports a Wiegand 26 bit input.

