safire



STAND ALONE ACCESS CONTROL

EN User's manual

1.Introduction

This series'product is a new generation of multi-function standalone access control. It adopts new ARM core 32-bit microprocessor design, which is powerful, stable and reliable. It contains reader mode and standalone access control mode etc.. It's widely applied to different occasions, such as office, residential communities, villa, bank and prison etc..

2.Features

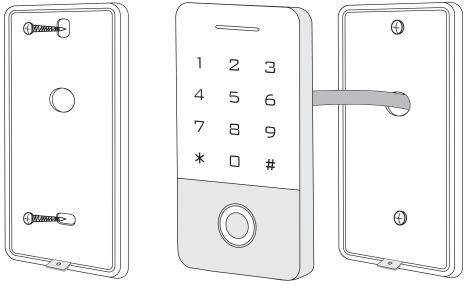
Feature	Specification
Card Type	Read 125KHz EM Card and HID Card (Optional)
	Read 13.56MHz Mifare card and CPU card (Optional)
Keypad Characteristic	Metal backlight keypad
Output Way	Contain reader mode, the transmission format could be adjusted by user
Access Way	Support seven access ways
Admin Card	Support admin add card and admin delete card
User Capacity	10,000 card / pin users and 300 fingerprint users

3.Technical Specifications

Operating Voltage: DC 12-24V	Standby Current: ≤35mA
Operating Current: ≤100mA	Operating Temperature: -40℃~60℃
Operating Humidity: 0%~95%	Access ways: Fingerprint, card, code, or multiple combination methods

4.Installation

- Remove the back cover from the keypad using the supplied special screw driver
- Drill 2 holes on the wall for the self-tapping screws and I hole for the cable
- Put the supplied rubber bungs to into the two holes
- Fix the back cover firmly on the wall with 2 self tapping screws
- Thread the cable through the cable hole
- Attach the keypad to the back cover. (See the figure below)

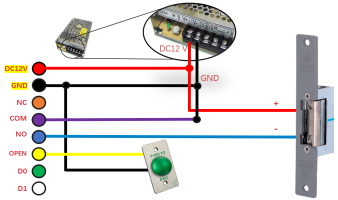


5.Wiring

No.	Color	Marks	Description
1	Green	D0	Wiegand input (Wiegand output as reader mode)
2	White	D1	Wiegand input (Wiegand output as reader mode)
3	Yellow	OPEN（BEEP）	Exit button input end (Beeper input as reader mode)
4	Red	+12V	Positive power supply or AC power supply end
5	Black	GND	Negative power supply
6	Blue	NO	Relay NO end
7	Purple	COM	Relay COM end
8	Orange	NC	Relay NC end

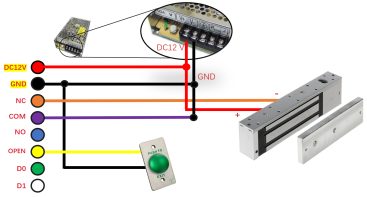
Electric lock





Magnetic lock





7.Sound and Light Indication

Operation Status	Light indicator	Buzzer
Stand by	Red	
Operation successful	Green	Beep—
Operation failed		Beep-Beep-Beep
Admin card enter programming		Beep-Beep
Admin card exit programming		Beep—
Press digital key		Beep
Press * key		Beep—
Press access code	Red indicator flash slowly	
Read card under card plus code mode	Red indicator flash slowly	
Read multi user cards	Red indicator flash slowly	
Enter programming mode	Red indicator flash slowly	
Enter setting status	Orange	
Unlocking	Green	
Buzzer alarm	Red indicator flash quickly	Alarm

8.Admin Menu

8.1 Standalone Mode Settings

Device Management

Enter programming	Menu	Operation steps	Description	Default value
Press * Admin code # (Default admin code is "999999")	00	New admin code # new admin code #	Change admin code	999999
	01	Read card / Input a fingerprint twice *	Set admin add card or admin add fingerprint	
	02	Read card / Input a fingerprint twice *	Set admin delete card or admin delete fingerprint	
	03	0#	Reader mode	1
		1#	Standalone access control mode	
		2#	Relay toggle mode	
	08		WIFI matching	Optional
	09	Unlocking code # (4-6 digits)	Public code	

Add and Delete Users

Enter programming	Menu	Operation steps	Description	Default value
Press * Admin code # (Default admin code is "999999")	11	Read card / Input a fingerprint twice... *	Add card users or fingerprint users continuously	"…" means repeating the previous operation, Press * key to exit.
		Press 8 or 10 digits card number # … *	Add card users by card number	
		Press ID number # read card / Input a fingerprint twice … *	Add card users or fingerprint users by specific ID number	
		Press ID number # press 8 or 10 digits card number # … *	Add card users by specific ID number and card number	
		Press ID number # press code # … *	Add an independent user code by specific ID number	
	12	Read user card, input the first fingerprint twice, input the second fingerprint twice...*	Match fingerprints to a card (Maximum 2 fingerprints)	
	13	Press ID number # press 8 or 10 digits card number # input card quantity #	Add conductive number card	
	Delete users			
	21	Read card / Input a fingerprint once … *	Delete card users by reading card / Delete fingerprint users by inputting fingerprint	"…" means repeating the previous operation, Press * key to exit.
		Press 8 or 10 digits card number #… *	Delete card users by card number	
		Press ID number # … *	Delete users by ID number	
	20	0000#	Delete all users	

Access Ways

Enter programming	Menu	Operation steps	Description	Default value
Press * Admin code # (Default admin code is "999999")	31	0 #	Forbidden opening door	4
		1 #	Entry by code only	
		2 #	Entry by card only	
		3 #	Entry by card+ code or fingerprint + code	
		4 #	Entry by card, fingerprint or code	
		5 #	Entry by fingerprint only	
		6 #	Entry by fingerprint + card	
		7 #	Entry by multi-fingerprint / multi-card	
	32	1 #	Set door open by 1 user card/user fingerprint	1
		2-10 #	Set door open by 2-10 user cards/user fingerprints	

Advanced Settings

Enter programming	Menu	Operation steps	Description	Default value
Press * Admin code # (Default admin code is "999999")	41	(0-300) #	Door opening time range: 0-300S 0 equals to 50mS	5
	42	0 #	Alarming time sets 0S, means no alarm	0
		(1-99) #	Alarming time range: 1-99 min	
	61	0#	Normal working mode	0
		1#	The external alarm and built-in buzzer will work if wrong operations are over 5 times.	
		2#	The device will be locked out for 10 min if wrong operations are over 5 times.	
	62	0#	Disable light indicator	1
		1#	Enable light indicator	
	63	0#	Disable the keypad backlight	1
		1#	Enable the keypad backlight	
		(2-99) #	Time of keypad backlight: 2-99 sec	
	64	0#	Disable buzzer	1
		1#	Enable buzzer	

8.2 Reader Mode Settings

Enter programming	Menu	Operation steps	Description	Default value
Press * Admin code # (Default admin code is "999999")	00	New admin code # new admin code #	Change admin code	999999
	01	Read card / Input a fingerprint twice *	Set admin add card or admin add fingerprint	
	02	Read card / Input a fingerprint twice *	Set admin delete card or admin delete fingerprint	
	03	0#	Reader mode	1
		1#	Standalone access control mode	
		2#	Relay toggle mode	
	11	Input a fingerprint twice, ... *	Add fingerprint users continuously	"…" means repeating the previous operation, Press * key to exit.
		Press ID number # Input a fingerprint twice … *	Add fingerprint users by specific ID number	
Press * Admin code # (Default admin code is "999999")	21	Input a fingerprint once … * Input the 2nd fingerprint ... *	Delete fingerprint users continuously	
		Press ID number # … *	Delete users by the specific ID number	
	20	0000#	Delete ALL users	
	42	0#	Alarming time sets 0S, means no alarm	0
		(1-99)#	Alarming time range: 1-99 min	
	51	(0-255)#	Set device number	0
	52	(26-58)#	Wiegand output：26-58 bits	26
	53	0#	Keypad transmission format 4 bits	0
		1#	Keypad transmission format 8 bits	
		2#	Virtual card number output	

9.Admin Card Operation

9.1 Add Card

Read admin add card | Read the 1st user card | Read the 2nd user card | … | Read admin add card

Note: The add card is used to add card users continuously and quickly. When you read the admin add card at the first time, you will hear short "BEEP" sounds twice and the indicator light turns orange, it means you have entered into add user programming, when you read the admin add card at the second time, you will hear long "BEEP" sound once and the indicator light turns red, it means you have exited the add user programming.

9.2 Delete Card

Read admin delete card | Read the 1st user card | Read the 2nd user card | … | Read admin delete card

Note: The delete card is used to delete card users continuously and quickly. When you read the admin delete card at the first time, you will hear short "BEEP" sounds twice and the indicator light turns orange, it means you have entered into delete user programming, when you read the admin delete card at the second time, you will hear long "BEEP" sound once, the indicator light turns red, it means you have exited the delete user programming.

10.User Operation

10.1 Change the User Code

Change the user code by card

Press | * | Read card | Old code # | New code # | New code #

Note: The default code “1234” of matching card can’t open the door unless revising other codes.

Change the user code by fingerprint

Press | * | Input fingerprint | Old code # | New code # | New code #

Note: The default code “1234” of matching fingerprint can’t open the door unless revising other codes.

Change the user code by ID number

Press | * | ID number | # | Old code # | New code # | New code #

Note: ID number has to be known from admin before changing the code, user code can’t be default code “1234”.

11 Other Operation

11.1 Remove Alarm

Read admin card | or | Read user card | or | Press admin code | #

Note: When the alarm is activated, users can remove the alarm by reading a valid card or pressing admin code.

11.2 Reset to Factory Default

Users can reset to the factory default when the admin code is forgotten, or the default settings havebeen modified, operation as below:
Method 1: Power off, power on, when the indicator light turn orange,press the # key, hearing tick tick- -tick sound thrice, the admin code has been reset to 999999, factory default settings is successful.
Method 2: Power off,press the exit button continously, power on,meanwhile,the indicator light turns orange and sound "tick- -tick" twice,then release hand & sound“tick- ." once, the admin code has been reset to 999999, factory default settings is successful.

Note: Registered user data won’t be deleted when reset to factory default.

ADD YOUR DEVICE TO THE MOBILE APP

We recommend checking the full user manual, but if you want to add your new device directly to the app, follow these steps:

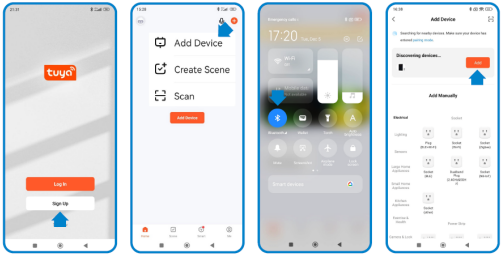
PROFESSIONAL TIP!
Before installing access control in its final place, first make this configuration near your Wi-Fi router and connect your phone to the 2.4GHz Wi-Fi network to which you are going to connect access control.

1. Download one of the two supported apps, **TUYA SMART** or **SMART LIFE**, in your app store or scan its corresponding QR code:

GET IT ON Google Play

Available on the App Store

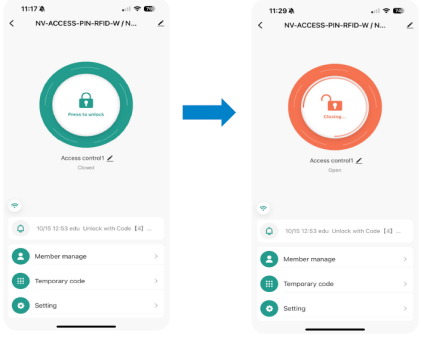
2. Sign up for a new account, or log in if you already have one.
3. Connect the access control to a DC12V/2A power supply and wait a few seconds for it to finish powering on.
4. Press the following passcode on the keypad to activate its connection mode:[*] [master code] [#] [08] [#] Default master code is 999999. When you enter the code correctly, your LED will flash green.
5. Tap the icon ⊕ in the app and select "Add Device."
6. Activate Bluetooth in your phone's settings and access control will appear on the app screen automatically, ready to be added.
7. Follow the instructions in the app step by step.



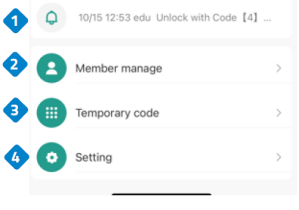
HOW TO OPERATE THE LOCK FROM THE MOBILE APPLICATION

1. OPEN

Press and hold the closed padlock button on the display, so that the lock is released.



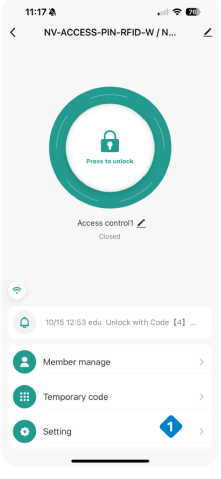
2. Shortcuts menu

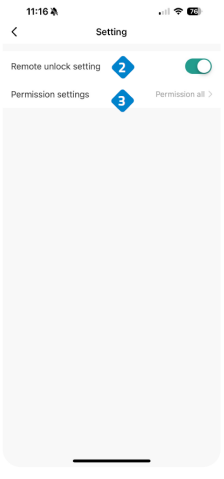


1. Displays the time of the last opening.
2. Allows permissions to be shared with another user through the app.
3. Create fixed or temporary access codes.
4. Settings.

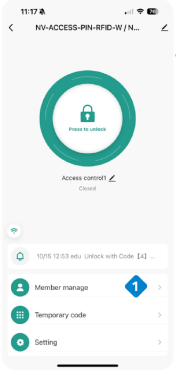
LOCK CONFIGURATION SETTINGS

1. Select configurations.
2. Allows to enable or disable remote opening from the app.
3. Allows permissions to be modified.





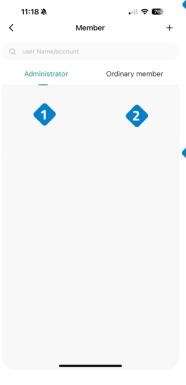
HOW TO SHARE KEYS WITH OTHERS VIA APP



1. ADD MEMBERS

In this part, you can choose [Family members] or [Other members]. The added members can control the lock via their cell phone.

Note: To be added correctly, the cell phone number of the added member must be registered in the APP.



1. ADD ADMINISTRATOR MEMBER

The user joins the family

The user will be able to control all devices in the family group.

2. ADD ANOTHER MEMBER (VISITOR)

You will only have access to a specific lock.

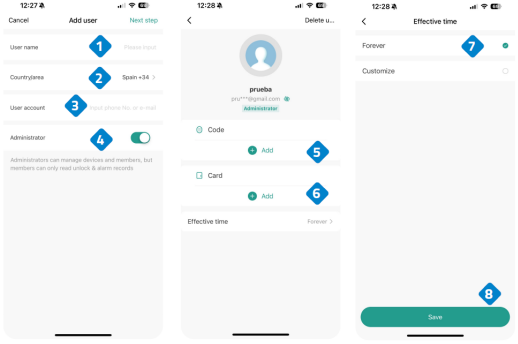
You will not have access to the lock configuration.

To grant operational permissions on the lock, you must use the share function.

HOW TO SHARE KEYS WITH OTHERS VIA APP

ADD ADMINISTRATOR MEMBER

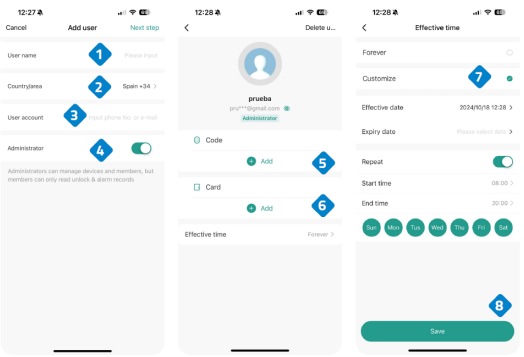
1. Indicate a name.
2. Select the country code.
3. Add the person's email address (Must be registered in Tuya Smart).
4. Assign the role of the new member (Administrator / Common user)
5. Enter a password for this user.
6. It is possible to add an RFID card or key fob.
7. Select the "Forever" option if you are going to be a member who will always be active.
8. Click on Save.



HOW TO SHARE KEYS WITH OTHERS VIA APP

ADD VISITOR

1. Indicate a name.
2. Select the country code.
3. Add the person's email address (Must be registered in Tuya Smart).
4. Assign the role of the new member (Administrator / Common user)
5. Enter a password for this user.
6. It is possible to add an RFID card or key fob.
7. Select the "Customize" option to indicate the date on which the user will be active (Start date / expiration date).
8. Click on Save.



HOW TO SHARE KEYS WITH OTHERS VIA APP

CREATE TEMPORARY CODE

1. Select temporary code.
2. Indicate if it is a “Cyclic” code or if it is to be a one-time use “Eleven” code.
3. Enter the password.
4. Enter the user's name.
5. Indicates the validity time of the code.
6. Click on Save.

