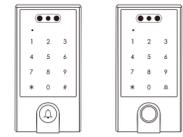
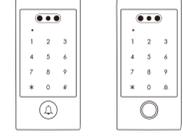


Face Recognition Access		CONTENTS	
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INTRODUCTION The device is a single door multifunction standalone access controller or a Wiegand output reader. It supports multi access modes, face/fingerprint/card/PIN. The operation is very user-friendly, and low-power circuit makes it long service life. The device can be made with TUYA WIFI version. <b>Features</b> > Touch keypad > With camera for face recognition > Capacitive fingerprint sensor > Metal case anti-vandal > Waterproof, conforms to IP66 > PIN length: 4-6 digits > EM-Mifare cards (Wiegand 26bits for Mifare card) > EM card: Wiegand 26-44 bits input & output > Can be used as Wiegand reader with LED & buzzer output > Pulse mode: Toggle mode > User data can be transferred (except face/fingerprint users) > 2 devices can be interlocked for 2 doors > Built-in light dependent resistor (LDR) for anti tamper > Backlit keypad, can be set automatic OFF after 20 seconds > Support Authorized User <b>Specifications</b> <b>User Capacity</b> Face User 5000 Common Card/PIN User 300 Authorized User 4987 Panic User 2 Visitor User 10 Fingerprint User 50 (fingerprint version only) <b>PIN Length</b> 4-6 digits <b>Operating Voltage</b> 12-18V DC <b>Idle Current</b> <80mA <b>Active Current</b> <250mA		INSTALLATION	3
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Simplified Instruction	
Function Description	Operation
Enter the Programming Mode	* (Master Code) # then you can do the programming (123456 is the factory default master code)
Change the Master Code	00-#-New Code-#-Repeat New Code-# (code: 6 digits)
Add Card User	10-#-Read Card-# (can add cards continuously)
Add Fingerprint User	10-#-Fingerprint-Repeat Fingerprint Repeat Fingerprint Again-#
Add PIN User	10-#-(User ID)-#-PIN-# (The PIN is any 4-6 digits)
Add Face User	11-#-Record Face-#
Delete User	20-#-Read Card-# 20-#-User ID-# 20-#-Fingerprint-# 21-#-Face-#
Exit from the Programming Mode	*

Set Relay Configuration	
The relay configuration sets the behaviour of the output relay on activation.	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Pulse Mode	3 0 # (1-99) # (factory default) The relay times is 1-99 seconds. (Default is 5 seconds)
OR	3 0 0 # #
2. Toggle Mode	*
3. Exit	*

Set Access Mode	
For Multi user access mode, the interval time of reading can not exceed 5 seconds, or else, the device will exit to standby automatically.	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
OR	4 0 # 0 #
2. PIN Access	0 0 # 1 # (factory default)
OR	0 0 # 1 # (Access will be denied for 10 minutes (Exit button is still workable))
2. Face Access	0 0 # 2 #
OR	4 0 # 3 #
2. Fingerprint Access	4 0 # 4 # (factory default)
OR	4 1 # (2-9) # (Only after 2-9 valid users, the door be opened)
OR	4 1 # (2-9) #
2. Multi User Access	*
3. Exit	*

Set Face Recognition	
Under Multi User Access, needs to use command 0 # to wake up for face recognition	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Face Record Way	5 0 # (0/1) # 0 = Record front face only (factory default) 1 = Record face by multiple angles
OR	*

Set Relay Configuration	
The relay configuration sets the behaviour of the output relay on activation.	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Pulse Mode	3 0 # (1-99) # (factory default) The relay times is 1-99 seconds. (Default is 5 seconds)
OR	3 0 0 # #
2. Toggle Mode	*
3. Exit	*

Set Access Mode	
For Multi user access mode, the interval time of reading can not exceed 5 seconds, or else, the device will exit to standby automatically.	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
OR	4 0 # 0 #
2. PIN Access	0 0 # 1 # (factory default)
OR	0 0 # 1 # (Access will be denied for 10 minutes (Exit button is still workable))
2. Face Access	0 0 # 2 #
OR	4 0 # 3 #
2. Fingerprint Access	4 0 # 4 # (factory default)
OR	4 1 # (2-9) # (Only after 2-9 valid users, the door be opened)
OR	4 1 # (2-9) #
2. Multi User Access	*
3. Exit	*

Set Face Recognition	
Under Multi User Access, needs to use command 0 # to wake up for face recognition	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Face Record Way	5 0 # (0/1) # 0 = Record front face only (factory default) 1 = Record face by multiple angles
OR	*

Set Strike-out Alarm	
The strike-out alarm will engage after 10 failed entry attempts (Factory is OFF). It can be set to deny access for 10 minutes after engaging or disengage only after entering a valid Fingerprint/Card/PIN/Face or Master Code/Fingerprint/Card.	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
OR	6 0 # 0 # (factory default)
2. Strike-Out OFF	6 0 # 0 # (factory default)
OR	6 0 # 1 # (Access will be denied for 10 minutes (Exit button is still workable))
2. Strike-Out ON	6 0 # 2 #
OR	6 0 # 3 #
2. Strike-Out ON (Alarm)	6 0 # 4 #
Set Alarm Time	3 1 # (0-3) # (factory default is 1 minute)
OR	3 1 # (0-3) # (factory default is 1 minute)
3. Exit	*

Set Door Open Detection	
Door Open Too Long (DOTL) Detection When use 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. The beep can be stopped by closing the door, master users or valid users, or else, it will continue to beep the same time with the alarm time set.	
Door Forced Open Detection When use with an optional magnetic contact or built-in magnetic contact of the lock, if the door is opened by force, the inside buzzer and external alarm (if there is) will both operate, they can be stopped by master users or valid users, or else, it will continue to sound the same time with the alarm time set.	

Programming Step		Keystroke Combination	
1. Enter Program Mode	* (Master Code) #	6 1 # 0 # (factory default)	
2. Disable Door Open Detection	6 1 # 0 #	6 1 # 1 #	
2. Enable Door Open Detection	6 1 # 1 #	6 1 # 2 #	
Set Alarm Time	3 1 # (0-3) # (factory default is 1 minute)	3 1 # (0-3) # (factory default is 1 minute)	
3. Exit	*	*	

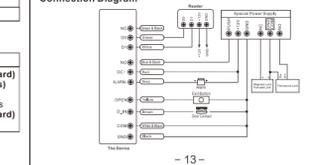
  

The function of Set Alarm Time also apply for anti-tamper alarm	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Mute	7 0 # 0 #
Low Sound	7 0 # 1 #
Medium Sound	7 0 # 2 #
High Sound	7 0 # 3 # (factory default)
OR	7 1 # 0 #
2. LED Always OFF	7 1 # 1 # (factory default)
OR	7 2 # 0 #
2. LED Always ON	7 2 # 1 # (factory default)
OR	7 2 # 2 # (factory default)
2. Keypad Backlit Always OFF	7 2 # 3 #
KeyPad Backlit Always ON	7 2 # 4 #
KeyPad Backlit Automatic OFF	7 2 # 5 #
3. Exit	*

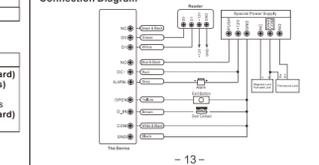
  

Set Audible and Visual Response	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Mute	7 0 # 0 #
Low Sound	7 0 # 1 #
Medium Sound	7 0 # 2 #
High Sound	7 0 # 3 # (factory default)
OR	7 1 # 0 #
2. LED Always OFF	7 1 # 1 # (factory default)
OR	7 2 # 0 #
2. LED Always ON	7 2 # 1 # (factory default)
OR	7 2 # 2 # (factory default)
2. Keypad Backlit Always OFF	7 2 # 3 #
KeyPad Backlit Always ON	7 2 # 4 #
KeyPad Backlit Automatic OFF	7 2 # 5 #
3. Exit	*

Master Fingerprint/ Card Usage	
The device can work as Controller, connected with the external Wiegand reader. (Factory default mode) = 7 4 # 0 #	
Connection Diagram	
	

Master Fingerprint/ Card Usage	
The device can work as Controller, connected with the external Wiegand reader. (Factory default mode) = 7 4 # 0 #	
Connection Diagram	
	

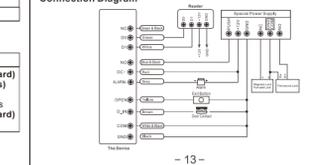
  

Delete Fingerprint/ Card/PIN Users	
1. Input (Master Fingerprint/ Card) twice within 5s	
2. Input (Fingerprint) or (Card) or (User ID)	
Repeat step 2 for additional users	
3. Input (Master Fingerprint/ Card) again	

Users Operation & Reset to Factory Default	
> Open the door: Read valid user fingerprint or user card or input valid user PIN	
> Remove Alarm: Enter Master Code # or Master Fingerprint/ Card or valid user fingerprint / card / PIN (For Master Card or User Card, only Mifare card is workable)	
> To reset to factory default, Add Master Card: Power off, press the exit button, hold it and power on, there will be two beeps, then release the exit button, the LED light turns into yellow, then read any 125KHz EM card / 13.56MHz Mifare card, the LED will turn into red, means reset to factory default successfully. Of the card reading, it is the Master Card.	
Remarks: ① If no Master Card added, must press the Exit Button for at least 5 seconds before release. (this will make the previous registered Master Card invalid) ② Reset to factory default, the user's information is still retained.	

CONTROLLER MODE	
The device can work as Controller, connected with the external Wiegand reader. (Factory default mode) = 7 4 # 0 #	
Connection Diagram	
	

Delete Fingerprint/ Card/PIN Users	
1. Input (Master Fingerprint / Card) twice within 5s	
2. Input (Fingerprint) or (Card) or (User ID/PIN#)	
Repeat step 2 for additional users	
3. Input (Master Fingerprint / Card) again	

Add Fingerprint/ Card/ PIN Users	
1. Input (Master Fingerprint / Card)	
2. Input (Fingerprint three times) or (Card) or (User ID/PIN#)	
Repeat step 2 for additional users	
3. Input (Master Fingerprint / Card) again	

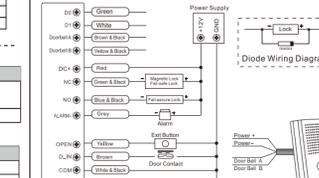
  

Add Fingerprint/ Card/ PIN Users	
1. Enter Program Mode * (Master Code) #	
2. 1 (Press Fingerprint A once on SF1) # (ID auto allocated)	
OR	
2. 1 (User ID) # (Press Fingerprint A on SF1) # (Select specific ID)	
3. Exit *	

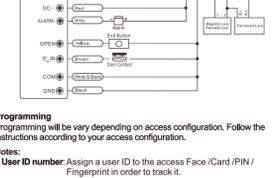
  

Sound and Light Indication		
Operation Status	LED	Buzzer
Stand by	Red light bright	—
Enter into programming mode	Red light shines	One beep
In the programming mode	Orange light bright	One beep
Operation error	—	Three beeps
Exit from the programming mode	Red light shines	One beep
Open lock	Green light bright	One beep
Alarm	Red light Shines quickly	Beeps

STANDALONE MODE	
The device can work as Standalone Access Control for single door. (Factory default mode) = 7 4 # 0 #	
Connection Diagram	
	

Access Control Power Supply	
	

Add Common Users	
When adding users directly, the ID number will be automatically searched and increased from small to large. Card/PIN user ID: 1-4987, PIN length: 4-6 digits; Face ID: 5001-5300 Fingerprint User ID: 6001-6499 (Fingerprint Version only)	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
Add Card User	10 # (Read Card) / (Input 8/10/17 Digits Card Number) # The cards can be added continuously.
OR	10 # (User ID) # (Read Card) / (Input 8/10/17 Digits Card Number) #
2. Select Specific ID	10 # (550) # (Fingerprint) (Repeat Fingerprint again)
2. Add Card: Block Enrollment	10 # (User ID) # (Card Quantity) # (Read Card) / (The First Card 6/10/17 Digits Number) # (Allow Master to add up to 500 cards each time to the reader in a single step. Green LED on along with a beep means done successfully)
OR	10 # (550) # (Fingerprint) (Repeat Fingerprint again)
2. Add Fingerprint User	10 # (Fingerprint) (Repeat Fingerprint) (Repeat Fingerprint again)
OR	10 # (Fingerprint) (Repeat Fingerprint) (Repeat Fingerprint again)

Add Authorized User	
(User ID number is 4988; PIN length: 4-6 digits)	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Add Card	10 # (4988) # (Read Card/ Input 8/10 Digits Card number) # (4988) # (PIN) #
OR	11 # (Record Face) # #
3. Exit	*

Add Panic Users (Valid for Card/ PIN Users)	
(User ID number is 4989, 4990 PIN length: 4-6 digits)	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #

Delete Users	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Delete User - By Fingerprint/ Card	20 # (Input Fingerprint) / (Read Card) #
OR	20 # (User ID) #
2. Delete User - By Card number	20 # (Input 8/10/17 Digits Card Number) #
OR	21 # (Record Face) #
2. Delete ALL Users	20 # (Master Code) #
2. Delete ALL Card/PIN Users	20 # 1 (Master Code) #
OR	20 # 2 (Master Code) #
2. Delete ALL Fingerprint Users	20 # 3 (Master Code) #
3. Exit	*

Delete Users	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Delete User - By Fingerprint/ Card	20 # (Input Fingerprint) / (Read Card) #
OR	20 # (User ID) #
2. Delete User - By Card number	20 # (Input 8/10/17 Digits Card Number) #
OR	21 # (Record Face) #
2. Delete ALL Users	20 # (Master Code) #
2. Delete ALL Card/PIN Users	20 # 1 (Master Code) #
OR	20 # 2 (Master Code) #
2. Delete ALL Fingerprint Users	20 # 3 (Master Code) #
3. Exit	*

Delete Users	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Delete User - By Fingerprint/ Card	20 # (Input Fingerprint) / (Read Card) #
OR	20 # (User ID) #
2. Delete User - By Card number	20 # (Input 8/10/17 Digits Card Number) #
OR	21 # (Record Face) #
2. Delete ALL Users	20 # (Master Code) #
2. Delete ALL Card/PIN Users	20 # 1 (Master Code) #
OR	20 # 2 (Master Code) #
2. Delete ALL Fingerprint Users	20 # 3 (Master Code) #
3. Exit	*

Delete Users	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Delete User - By Fingerprint/ Card	20 # (Input Fingerprint) / (Read Card) #
OR	20 # (User ID) #
2. Delete User - By Card number	20 # (Input 8/10/17 Digits Card Number) #
OR	21 # (Record Face) #
2. Delete ALL Users	20 # (Master Code) #
2. Delete ALL Card/PIN Users	20 # 1 (Master Code) #
OR	20 # 2 (Master Code) #
2. Delete ALL Fingerprint Users	20 # 3 (Master Code) #
3. Exit	*

Delete Users	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Delete User - By Fingerprint/ Card	20 # (Input Fingerprint) / (Read Card) #
OR	20 # (User ID) #
2. Delete User - By Card number	20 # (Input 8/10/17 Digits Card Number) #
OR	21 # (Record Face) #
2. Delete ALL Users	20 # (Master Code) #
2. Delete ALL Card/PIN Users	20 # 1 (Master Code) #
OR	20 # 2 (Master Code) #
2. Delete ALL Fingerprint Users	20 # 3 (Master Code) #
3. Exit	*

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Programming Step	Keystroke Combination
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2. Delete User - By Fingerprint/ Card	20 # (Input Fingerprint) / (Read Card) #
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2. Delete User - By Card number	20 # (Input 8/10/17 Digits Card Number) #
OR	21 # (Record Face) #
2. Delete ALL Users	20 # (Master Code) #
2. Delete ALL Card/PIN Users	20 # 1 (Master Code) #
OR	20 # 2 (Master Code) #
2. Delete ALL Fingerprint Users	20 # 3 (Master Code) #
3. Exit	*

Delete Users	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Delete User - By Fingerprint/ Card	20 # (Input Fingerprint) / (Read Card) #
OR	20 # (User ID) #
2. Delete User - By Card number	20 # (Input 8/10/17 Digits Card Number) #
OR	21 # (Record Face) #
2. Delete ALL Users	20 # (Master Code) #
2. Delete ALL Card/PIN Users	20 # 1 (Master Code) #
OR	20 # 2 (Master Code) #
2. Delete ALL Fingerprint Users	20 # 3 (Master Code) #
3. Exit	*

Delete Users	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Delete User - By Fingerprint/ Card	20 # (Input Fingerprint) / (Read Card) #
OR	20 # (User ID) #
2. Delete User - By Card number	20 # (Input 8/10/17 Digits Card Number) #
OR	21 # (Record Face) #
2. Delete ALL Users	20 # (Master Code) #
2. Delete ALL Card/PIN Users	20 # 1 (Master Code) #
OR	20 # 2 (Master Code) #
2. Delete ALL Fingerprint Users	20 # 3 (Master Code) #
3. Exit	*

Delete Users	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Delete User - By Fingerprint/ Card	20 # (Input Fingerprint) / (Read Card) #
OR	20 # (User ID) #
2. Delete User - By Card number	20 # (Input 8/10/17 Digits Card Number) #
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2. Delete ALL Users	20 # (Master Code) #
2. Delete ALL Card/PIN Users	20 # 1 (Master Code) #
OR	20 # 2 (Master Code) #
2. Delete ALL Fingerprint Users	20 # 3 (Master Code) #
3. Exit	*

Delete Users	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Delete User - By Fingerprint/ Card	20 # (Input Fingerprint) / (Read Card) #
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2. Delete ALL Card/PIN Users	20 # 1 (Master Code) #
OR	20 # 2 (Master Code) #
2. Delete ALL Fingerprint Users	20 # 3 (Master Code) #
3. Exit	*

Delete Users	
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Delete User - By Fingerprint/ Card	20 # (Input Fingerprint) / (Read Card) #
OR	20 # (User ID) #
2. Delete User - By Card number	20 # (Input 8/10/17 Digits Card Number) #
OR	21 # (Record Face) #
2. Delete ALL Users	20 # (Master Code) #
2. Delete ALL Card/PIN Users	20 # 1 (Master Code) #
OR	20 # 2 (Master Code