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ATIS AK-722DW/T Wi-Fi Code Keypad

INTRODUCTION

The device is a single-door multifunction standalone access controller or a Wiegand output reader. The operation is very user-friendly, and low-power circuit makes it long service life.

Features

- Metal case, anti-vandal
- Waterproof, conforms to IP65
- Video calling based on WiFi
- One relay, 1,000 users (990 common + 10 visitors)
- PIN length: 4-6 digits
- Card type:125KHz EM Card/13.56MHz Mifare Card
- Can be used as a Wiegand reader with buzzer output
- Card block enrollment
- Tri-<:0lor LED status display

- Pulse mode, Toggle mode

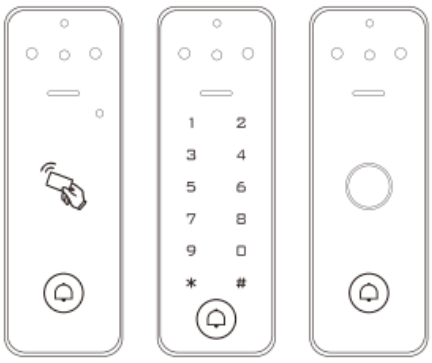
Specifications

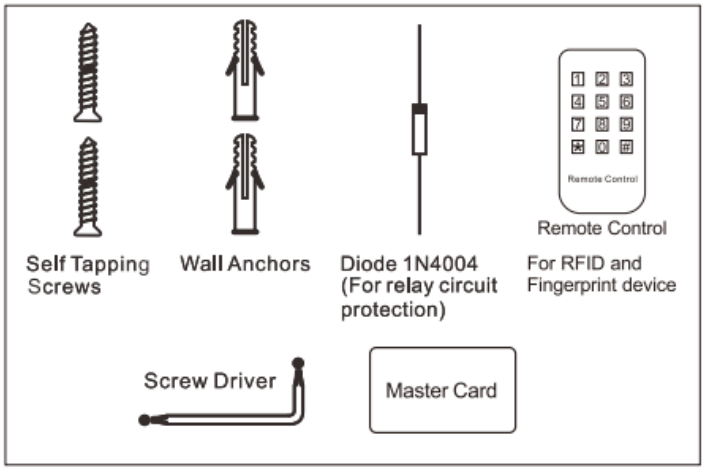
- User Capacity 1000
- Common User 900 (Fingerpint version supports 100 fingerprints)
- Visitor User 10
- Operating Voltage 12- 18V DC
- Working Current ≤150mA
- Idle Current ≤ 60mA
- Proximity Card Reader EM/Mifare
- Radio Technology 125KHz 113.56MHz
- Read Range 2-6 cm
- PIN Length 4-6 digits(Keypad verslon only)
- Wiring Connections: Relay Output, Exit Button, Wiegand Input, Wiegand Output
- Relay DNE (NO, NC, Common)
- Adjustable Relay Output 0-99 Seconds (5 seconds default)
- Time Lock Output Load 2.Amp Maximum
- Wiegand Interface EM card: Wiegand 26-44 bits input & output.
    - Milare card: Wiegand 26- 44 bits 56blts, 58blts Input & output.

      (Factory default: Wiegand 26 bits for EM card, Wiegand 34 bits for Mifare card)
- PIN Output 4 bits, 8 bits(ASCII), 10 digits Virtual Number (Factory Default 4 bits)
- Environment Meets IP65
- Operating Temperature -40’C-60″C(-40’F-140’F)
    - -30’C-60’C(-22’F-140’F) Fingerprint orly
- Operating Humidity 0¾RH-92°/oRH
- Physical Zinc-Alloy
- Colour Silver & Black
- Dimensions 142 x 48 x 22mm
- Unit Weight 315g
- Shipping Weight 410g

Carton Inventory

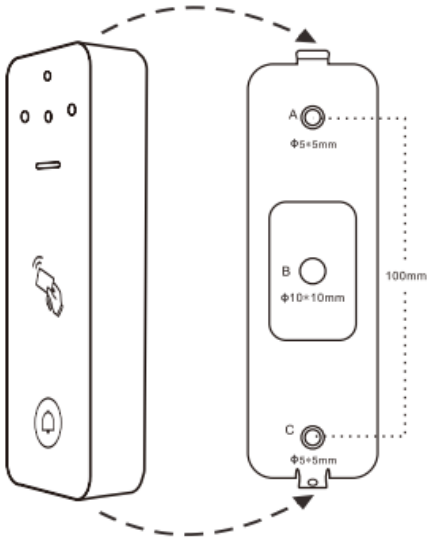
Carton Inventory





INSTALLATION

- Remove the back cover from the unit
- Drill 2 holes(A,C) on lhe wall for lhe screws and one hole for the cable
- Knock the supplied rubber bungs lo the screw holes(A,C)
- Fix the back cover firmly on the wall with 4 Hat head screws
- Thread tl1e cable tl1rough the cable hole(B)
- Attach the unit to the back cover



Wiring

Wire Color	Function	Notes
Basic Standalone Wiring		
Red	DC +	12-18V DC Power Input
Black	GND	Negative Pole of DC Power Input
Blue	Relay NO	Normally Open Relay Output (install diode provided)
Brown	Relay Common	Common Connection for Relay Output
Grey	Relay NC	Normally Closed Relay Output (Install diode provided)
Yellow	OPEN	Request to Exit(REX) Input
Pass-Through Wiring (Wiegand Reader or Controller)		
Green	Data 0	Wiegand Output (Pass-through) Data 0
White	Data 1	Wiegand Output (Pass-through) Data 1

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 bright	One beep
Open lock	Green light bright	One beep
Alarm	Red light Shines quickly	Beeps

Basic Configure

Enter and Exit Program Mode

Programming Step	Keystroke Combination
Enter Program Mode	* (Master Code) # (Factorydefaultis 123456)
Exit Program Mode	*

Set Master Code

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Update Master Code	0 (New Master Code) # (Repeat New Master Code) # (Master code is any 6 digits)
3. Exit Program Mode	*

Set the Working Mode

Notes: The device has 3 working modes: Standalone Mode, Controller Mode, Wiegand Reader Mode, choose the mode you use. (Factory default is Standalone Mode/controller Mode)

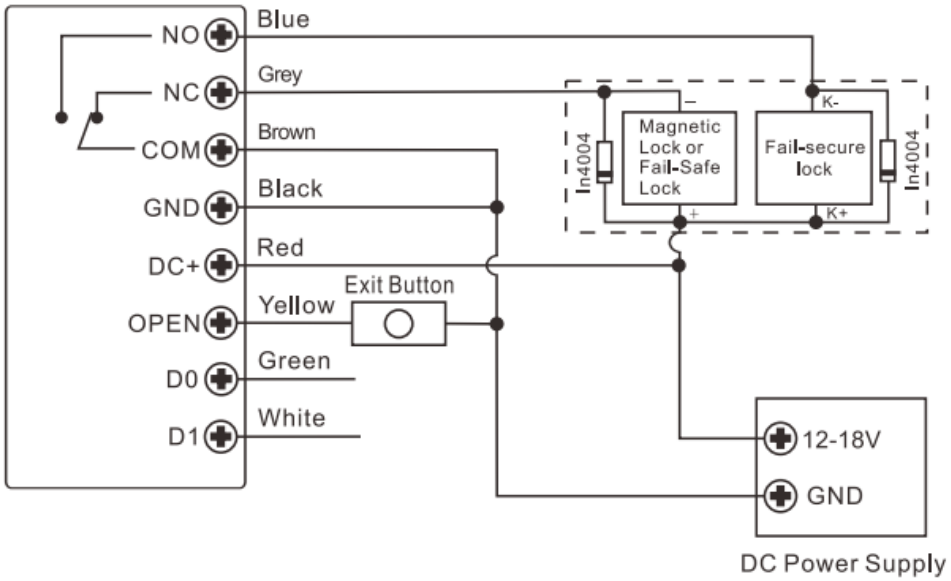
Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Standalone/Controller Mode OR 2. Wiegand Reader Mode	7 7 # (Factory default) 7 8#
3. Exit	*

STANDALONE MODE

The device can work as a Standalone Access Control for a single door. (Facto<y default mode)– 7 7 #

Connection Diagram

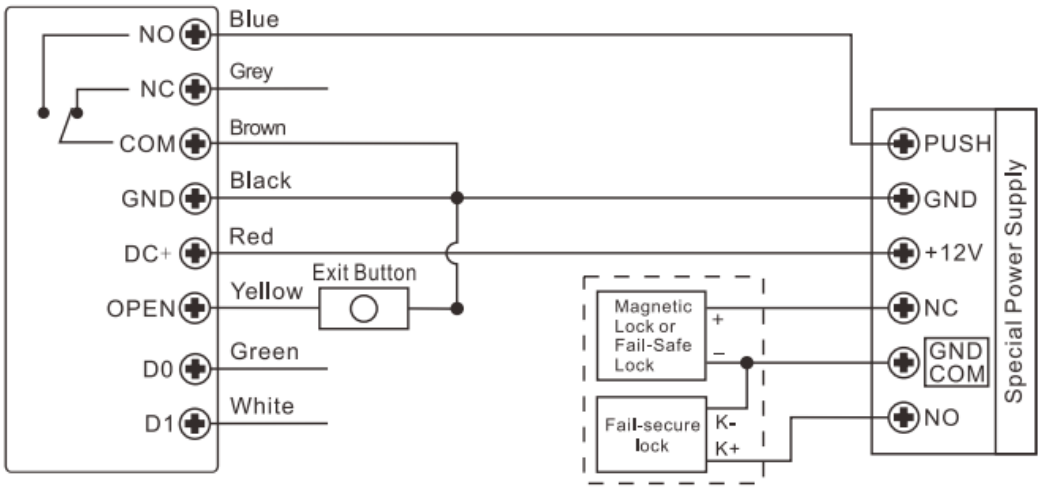
Common Power Supply



Attention:

An install 1 N4004 or equivalent diode is needed when using a common power supply, or the keypad might be damaged. (1 N4004 is included in the packing)

Access Control Power Supply



Programming

Programming will be wry depending on access configuration. Folk: YN the instructions according to your access configuration.

Notes:

User ID number. Assign a user ID to the access fingerprint card/ PIN in order to track il

The Common User ID:

Fingerprint version:

- Fingerprint user ID: O-98
- Card user ID: 100 – 989
- Master Fingerprint User ID: 99
- Visitor User ID: 990-999

The other two versions:

- PIN/Card User ID: 0-989
- Visitor User ID: 990-999

IMPORTANT: User IDs do not have to be preceded with any leading zeros. Recording of the User ID is critical. Modifications to the user require the User ID to be available.

- **Proximity Card:**

  Proximily Card: 125KHz EM card/13.56MHz Mifare Card

- **PIN:** Can be any 4–6 digits except 8888

Add Common Users

Programming Step	Keystroke Combination
1. Enter Program Mode	*** (Master Code) #**
Add Fingerprint User (Fingerprint version only)	
2. Using Auto ID (Allows the device to assign Fingerprint to next available User ID number) **OR** 2. Select Specified ID (Allows Master to define a specific User ID to associate the fingerprint to)	**1 (Fingerprint) (Repeat Fingerprint) (Repeat Fingerprint again)** Fingerprints can be added continuously. **1 (User ID) # (Fingerprint) (Repeat Fingerprint) (Repeat Fingerprint again)** Fingerprints can be added continuously.
Add Card User	
2. Using Auto ID (Allows the device to assign Card to next available User ID number) **OR** 2. Select Specific ID (Allows Master to define a specific User ID to associate the card to) **OR** 2. Add Card: Block Enrollment (Allows Master to add up to 890 cards to the Reader in a single step) Takes 2 minutes to program.	**1 (Read Card) / (Input 8/10/17 Digits Card Number) #** The cards can be added continuously. **1 (UserID) # (Read Card) / (Input 8/10/17Digits Card Number) #** **1 (User ID) # (Card Quantity) # (The First Card 8/10/ 17Digits Number) #** Cards' number must be consecutive; Card quantity = number of cards to be enrolled.
Add PIN User (Keypad version only)	
2. Using Auto ID (Allows the device to assign PIN to next available User ID number) **OR** 2. Select Specific ID (Allows manager to define a specific User ID to associatethe PIN to)	**1 (PIN) #** The PINscan be added continuously **1 (User ID) # (PIN) #**
3. Exit	*

Tips for PIN Security (Only valid for 6-digit PIN):

For higher security, we allow you to hide your correct PIN with other numbers up to a maximum of 10 digits.

Example PIN: 123434

You could use 0(123434) u or”” (123434)

(“•” can be any numbers from 0~9)

Note: This function for the keypad version only

Add Master Fingerprint (By Specified ID: 99, Fingerprint version only)

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
1. Add Master Fingerprint	1 (99) # (Fingerprint) (Repeat Fingerprint) (Repeat Fingerprint again)
3. Exit	*

Add Visitor Users (Valid for Card/ PIN Users)

(User ID number is 990-999; PIN lengtl1: 4-6 digits except 8888) There are 10 groups of Visitor PIN/ca.rd available; users can specify up to 10 users of usage. After a certain number of times, I.e. 5 times, the PIN/card becomes invalid automatically.

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Add Card OR 2. Add PIN (Keypad version only)	1 (User ID) # (0~9) # (Read Card) / (Input 8/10/ 17 Digits Card Number) # 1 (User ID) # (0~9) # (PIN) # (0~9 means times of usage, 0=10 times)
3. Exit	*

Change PIN Users (PIN length: 4-6 digits except 8888) (Keypad versior only)

Programming Step	Keystroke Combination
Note: Below is done outside programming mode, users can undertake this themselves	
Change PIN	* (UserID) # (Old PIN) # (NewPIN) # (Repeat New PIN) #

Delete Users

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Delete User - By Fingerprint/ Card/ PIN OR 2. Delete User - By IDnumber OR 2. Delete User - By Card number OR 2. Delete ALL Users	2 (Input Fingerprint) / (Read Card)/ (Input PIN) # The users can be deleted continuously. 2 (User ID) # 2 (Input 8/10/17 Digits Card Number) # 2 (Master Code) #
3. Exit	*
# Note: "Fingerprint" for Fingerprint version only "PIN" for Keypad version only	

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 **OR** 2. Toggle Mode	**3 (1~99) #** (factory default) The relay time is 1-99 seconds. (Default is 5 seconds) **3 0 #** Sets the relay to ON/OFF Toggle mode
3. Exit	∗

Simplified Instruction	
Function Description	**Operation**
Enter the Programming Mode	∗ - Master Code - # then you can do the programming (123456 is the factory default mastercode)
Change the Master Code	**0 - New Code - # - Repeat the New Code - #** (code: 6 digits)
Add Card User	**1 - Read Card - #** (can add cards continuously)
Add Fingerprint User	**1-Fingerprint- Repeat Fingerprint- Repeat Fingerprint Again-#**
Add PIN User	**1 - PIN - #** (The PIN is any 4~6 digits except 8888 which is reserved)
Delete User	**2- Fingerprint-#** **2-Read Card-#** **2-PIN- #**
Exit from the Programming Mode	∗
How to release the door	
Fingerprint User	Input Fingerprint
Card User	Read Card
PIN User	Input PIN #
# Note: "Fingerprint" for Fingerprint version only **"PIN" for Keypad version only**	

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) #
2 FingerprintAccess **OR** 2 Card Access **OR** 2 PIN Access **OR** 2 Multi User Access **OR** 2 Fingerprint or Card or PIN Access	**4 0 #** (Fingerprint version only) **4 1 #** (factory default for RFID version only) **4 2 #** (Keypad version only) **4 3 (2~9) #** (Only after 2~9 valid users, the door be opened) **4 4 #** (factory default for Fingerpint / Keypad version)
3. Exit	∗

SetStrike-outAlanm

The strike-out alarm wil engage after 10 failed entry attempts (Factory is OFF).
It can be set to deny access for 10 minutes after engaging or disengaging only after entering a valid FinerprinU card/ PIN or Master code/ fingerprint/ card.

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Strike-Out OFF OR 2. Strike-Out ON OR 2. Strike-Out ON (Alarm) Set Alarm Time	60# (factory default) 61# Access will be denied for 10 minutes (Exit button is still workable) 62# 5 (0 ~ 3) # (factory default is 1 minute) Enter Master Code # or Master Fingerprint / Card or valid user fingerprint / card / PIN to silence
3. Exit	*

Set Audible and Visual Response

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Disable Sound Enable Sound OR 2. LED Always OFF LED Always ON OR 2. Keypad BacklitAlways OFF Keypad BacklitAlways ON Keypad BacklitAutomatic OFF	70# 71# (factory default) 72# 73# (factory default) 74# 75# 76# (factory default) Automatic OFF after 20 seconds, it will go ON by pressing any key (this key isn't taken into consideration)
3. Exit	*

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
- To "'set to factory default & Add Ma&ter 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 seconds before release.(This will make the previously registered Master Card invalid)
2. Reset to factory default, the user's information is stil retained.

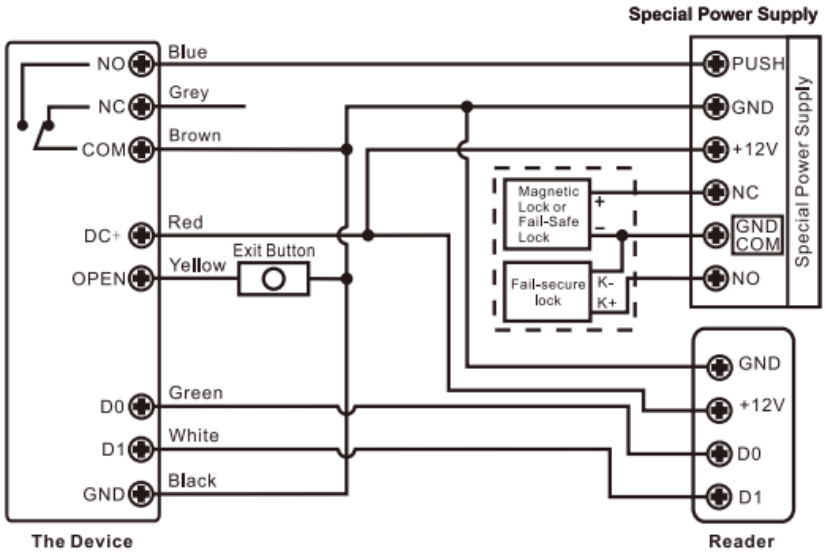
Master Fingerprint/ Card Usage (MasterCard is not a default accessory in the box, please add ii by yourself if needed)

Using Master Fingerprint/ Card to add and delete users	
Add Fingerprint/ Card/ PIN Users	1. Input **(Master Fingerprint / Card)** 2. Input **(Fingerprint three times)** or **(Card)** or **(PIN #)** Repeat step 2 for additional users 3. Input **(Master Fingerprint / Card)** again
Delete Fingerprint/ Card/ PIN Users	1. Input **(Master Fingerprint/ Card Twice within 5s)** 2. Input **(Fingerprint)** or **(Card)** or **(PIN #)** Repeat step 2 for additional users 3. Input **(Master Fingerprint/ Card)** again
# Note: "Master Fingerprint" for Fingerprint version only	

CONTROLLER MODE

The device can work as a Controller, connected with the external Wiegand reader. (Factory default mode) — 7 7 #

Connection Diagram



Attention: Install a 1 N4004 or equivalent diode is needed when use a common power supply, or the reader migh1 be damaged. (1 N4004 is included in the packing)

Set Wiegand Input Formats

Please set the Wiegand input formats according to the Wiegand output fonnat of the external Reader.

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Wiegand Input Bit	For EM Card : 8 (26~ 44) # (factory default is 26bits) For Mifare Card: 8 0 (26~44, 56, 58) # (factory default is 34bits)
3. Disable Parity Bit Enable Parity Bit	8 0 # 8 1 # (factory default)
4. Exit	*

Note: For connecting Wiegand readers with 32, 40, 56 bits output, need disable parity bits.

Programming

- Basic Programming Is the same as Standalone Mode
- There are some exceptions for your attention:

The device is connected with an external card Reader

- If EM/Mifare card reader: users can be added/deleted on either the device or the external reader.

- If an HID card reader is used, users can only be added/deleted on the external reader.

The device is connected with a Fingerprint Reader

For example:

Connect SF1 as the fingerprint reader to the device.

Slop 1:Addthe Fingerprint (A) on SF1 (Please refer to SF1 manual)

Step 2: Add the same Fingerprint(A) on the device:

1	EnterProgramMode: * **(Master Code) #**
2 **OR** 2	**1 (Press Fingerprint A once on SF1) #** (ID auto allocated) **1 (User ID) # (Press Fingerprint A on SF1) #** (Select specific ID)
3	Exit: *

The device is connected with the Keypad Reader

The keypad reader can be 4 Bits, 8 Bits (ASCII), or 10 Bits output functional.

Choose the operation below according to the PIN output format of your reader.

Programming Step	Keystroke Combination
1. Enter Program Mode	* **(Master Code) #**
2. PIN input bits	**8 (4 or 8 or 10) #** (factorydefault is 4 bits)
3. Exit	*

Remarks mean 4 bits, 8 means 8 bits, 10 means 10-digit virtual number.

Add PIN Users:

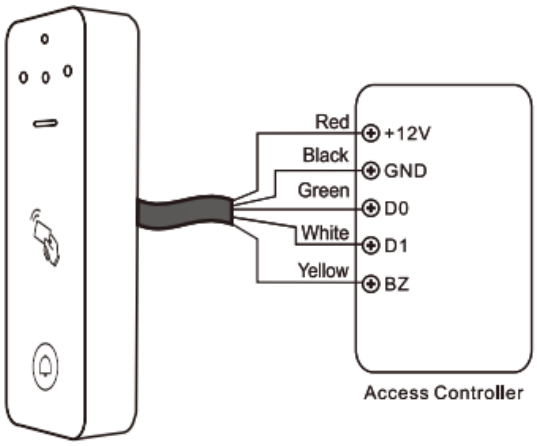
To add PIN users, after entering programming mode on the device, PIN(s) can be input on either the device or the external Keypad Reader.

Delete PIN Users: the same way as add users.

WIEGAND READER MODE

The device can work as a Standard Wiegand Reader, connected to the third-party Controller — 7 B #

Connection Diagram



Notes:

- When set into Wiegand ReaQer mode, nearly al settings in Controller Mode will become invalid, and the Yellow wire will be redefined as below:
  - Yellow wire: Buzzer control
- If you need to connect the Yellow wire:
  - When the input voltage for the Buzzer is low, it will sound.

Set Wiegand Output Fonmats

Please set the Wiegand output formats of the Reader according to the Wiegand input formats of the Controller.

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Wiegand output bits	For EM Card: 8 (26~44) # (factory default is 26bits) For Mifare Card: 8 0 (26~44, 56, 58) # (factory default is 34bits)
PIN outputbits	8 (4 or 8 or 10) # (factory default is 4 bits)
3. Disable Parity Bit Enable Parity Bit	8 0 # 8 1 # (factory default)
4. Exit	

Note: For connecting the Wiegand controller with 32, 40, 56 bits input, you need to disable parity bits.

ADVANCED APPLICATION

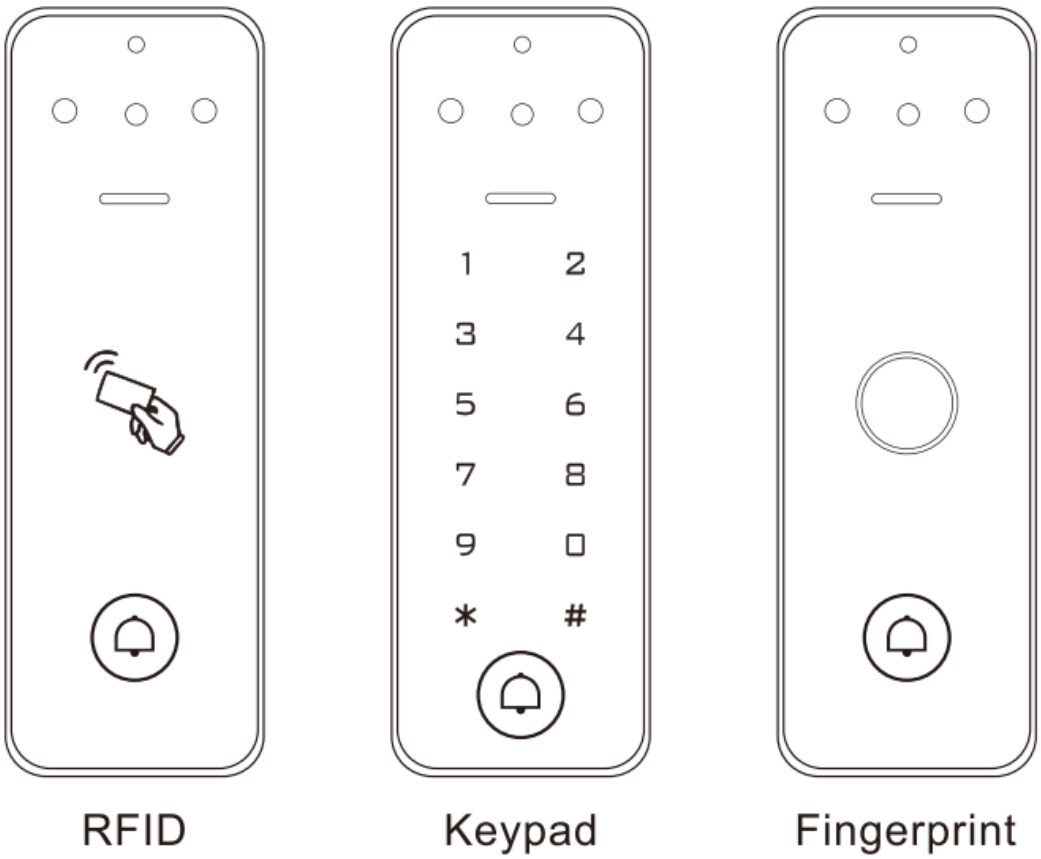
Collection Card Mode

After this mode is turned on, all cards can open the lock. At the same 1ima, the ca.rd is added to the device.

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Collection Card Mode OFF **OR** 2. Collection Card Mode ON	9 2 # (factory default) 9 3 #
3. Exit	*

Reset the WiFi (After resetting, the device will be removed in APP)

Programming Step	Keystroke Combination
1. Enter Program Mode	* (Master Code) #
2. Update Master Code	9 (Master Code) #
3. Exit	*



User Manual

Documents / Resources

	ATIS AK-722DW/T Wi-Fi Code Keypad [pdf] User Manual AK-722DW, AK-722DT, AK-722DWT Wi-Fi Code Keypad, AK-722DWT, Wi-Fi Code Keypad, Code Keypad

References

- User Manual

AK-722DT, AK-722DW, AK-722DWT, AK-722DWT Wi-Fi Code Keypad, ATIS, Code Keypad, Wi-Fi Code Keypad

ATIS

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