SOYAL®
ACCESS & INDUSTRIAL CONTROL

# AR-323-D
## Smart Digital Door Lock

V220616

※ If installation door thickness is 5cm or thicker, please give note when placing the order to provide compatible sparepart

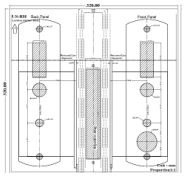
## Contents

❶ Products

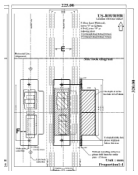


Front panel　　Back panel

❷ Template Sticker



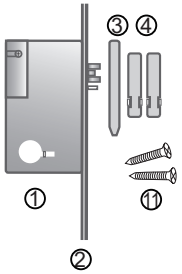
Door Handle & Mortise Lock Sticker



Strike Sticker

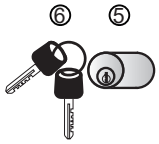
❸ Accesories

(1) Mortise



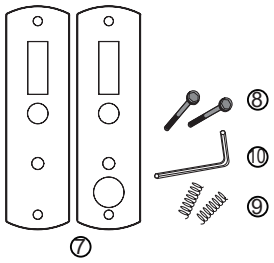

1. Mortise
2. Mortise Plate (mounted)
3. Spindle of Knob
4. Spindle of Handle x2
11. Screw x2

(2) Cylinder



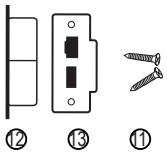

5.Cylinder Lock
6.Mechanical Key x2

(3) Handle




7.Waterproof Strap x2
8.Handle Screw x2
9.Elastic Spring x2
10.Allen Wrench

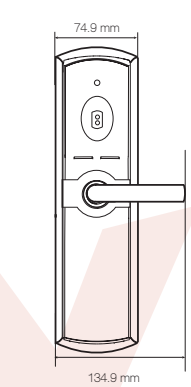
(4) Strike



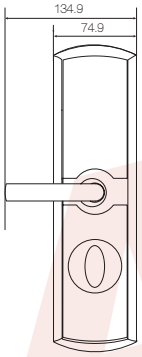

11. Screw x2
12. Strike Box
13 Strike Plate

## Features

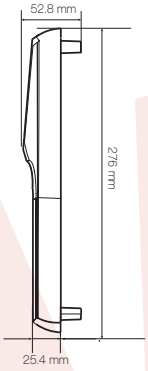
- Mechanical key is invisible. When in need of using mechanical key, easily slide below the panel to insert key
- Add new user and other programming command via keypad
- Simplicity design of illuminated touch panel, enter PIN and configurating seamlessly with a light touch
- Support Cascade Structure
- Support RS485 communication encryption, SSC (Soyal Security Communcation)
- Auto Open Time Zone: Built in 2 time zones, with Control Panel up to 16 time zones.
- Assign user for Door Group (up to 254) and Time Zone (up to 11, with control panel up to 63)
- Auto Relock for Anti-Trailing and Sneaking



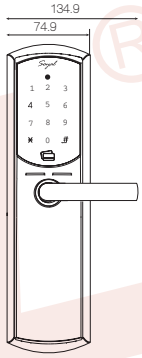

Outdoor(keypadless)




Indoor

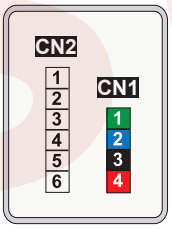



Side view




Ouydoor(Illuminated Touch Panel)

## Installation



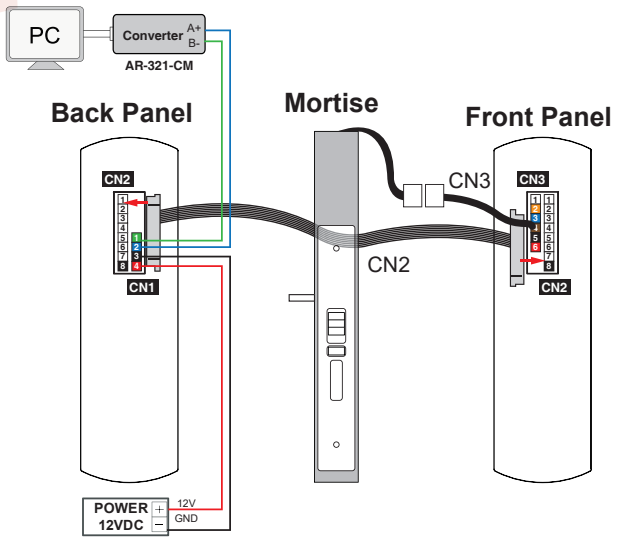

**Cable : CN1**

| Wire Application | Cable | Color | Description |
|---|---|---|---|
| RS485 | 1 | Thick Green | RS-485(B-) |
| | 2 | Thick Blue | RS-485(A+) |
| Power | 3 | Thick Black | Power DC0V |
| | 4 | Thick Red | Power DC12V |

**Cable : CN2**
Connector of Reader

**Cable : CN3**
Connector of Mortise

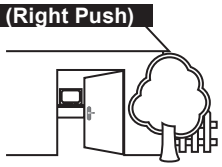
## Wiring



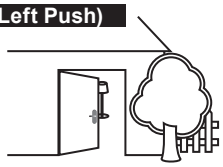

## Door Handle Direction

**Before installation please check which door hand you require.**

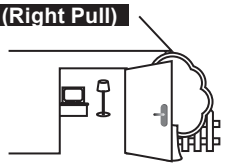
**RH (Right Push)**



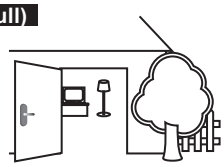
**LH (Left Push)**

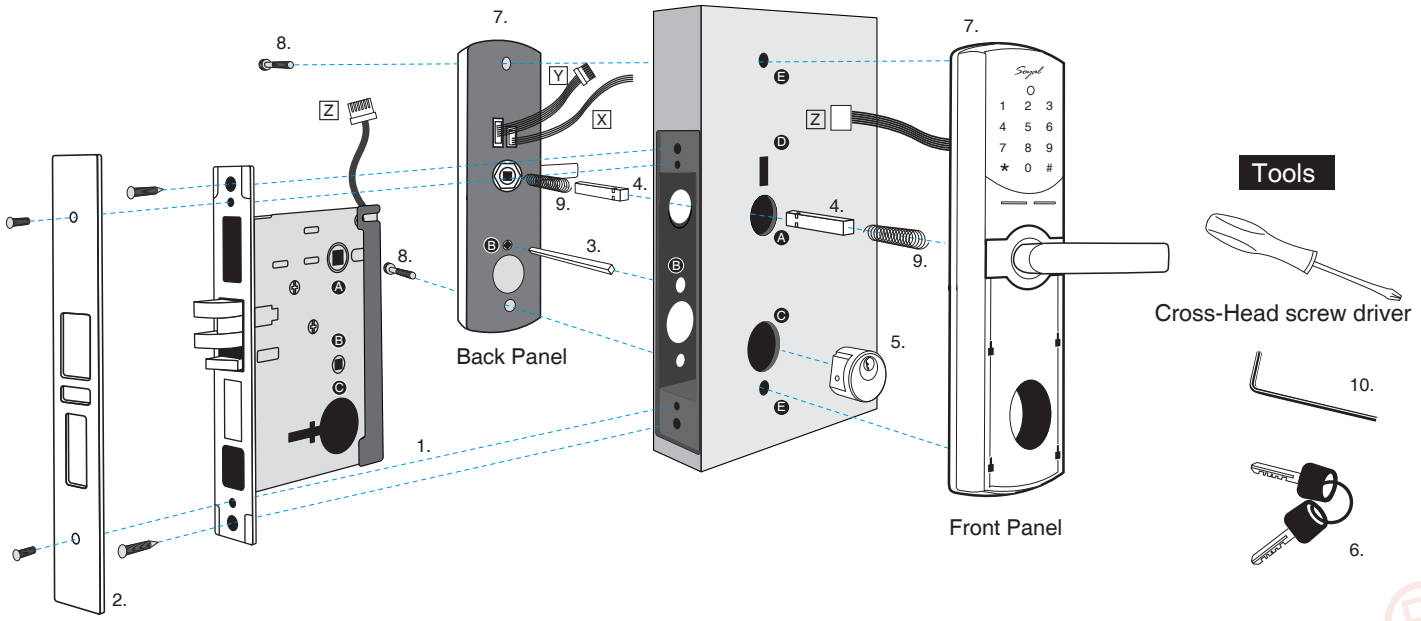


**RHR (Right Pull)**



**LHR (Left Pull)**

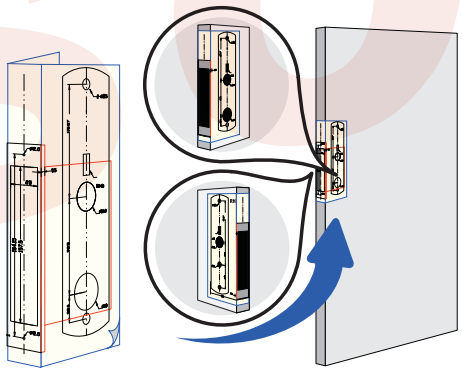





| | | | | | |
|---|---|---|---|---|---|
| Ⓐ Handle hole | Ⓔ Handle screw hole | 1.Mortise | 5.Cylinder Lock | 9.Elastic Spring | ☒ CN1 |
| Ⓑ Deadbolt knob hole | Ⓕ Mortise hole | 2.Mortise Plate (mounted) | 6.Mechanical Key | ※**Note:** Elastic Spring two side has different size. Please install the larger diameter into the Front Panel facing the handle hole | ☒ CN2 |
| Ⓒ Cylinder hole | Ⓖ Strike hole | 3.Spindle of Knob | 7. Waterproof Strap | | ☒ CN3 |
| Ⓓ Cable hole | | 4.Spindle of Handle | 8.Handle Screw | 10.Allen Wrench | |

## *PART 1: MORTISE*

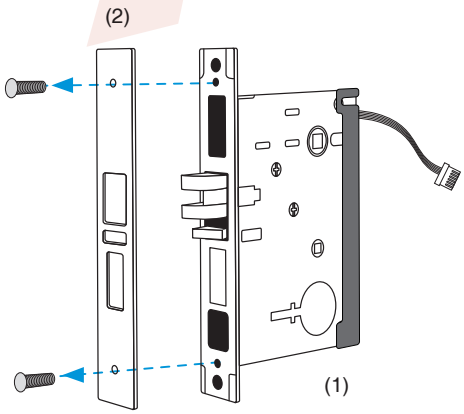
### *1.*



**Paste hole-sticker on the door properly and make cuts depending on hole-stickers dimension.**

※ Note :
1. Only make "deadbolt knob hole" from inner door to mortise, don't cross to outer door.
2. Make sure accurate position & right hole direction of striker plate; before making cuts, latch bolt position can be made firstly.
3. Networking mode : Additional hinge cuts is required for PC connection.

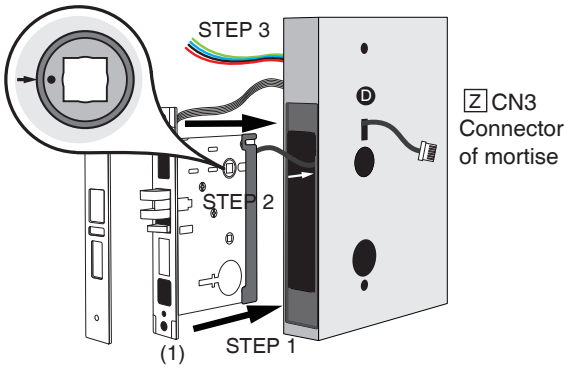
### *2.*




**Remove (2) Mortise Plate from (1) Mortise lock body**

Separate (2) Mortise Plate from (1) Mortise lock by unfasten the screw that has already mounted. It is because the first step to be done is to fasten Screws between (1) Mortise and door and mounted (2) Mortise Plate is closing the path of it.

## 3.



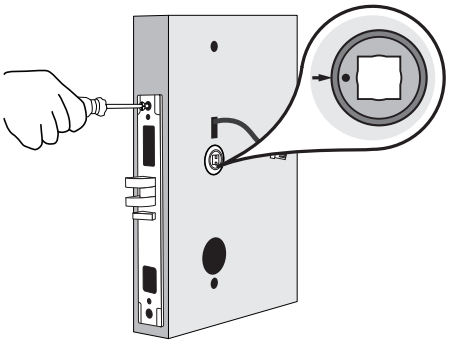

**Embed (1) Mortise into the hole**

STEP 1 : Insert the (1) Mortise into the hole.

STEP 2 : There is a CN3 cable connecting (1) Mortise with Front Panel, make sure the cable is out from Ⓓ hole.

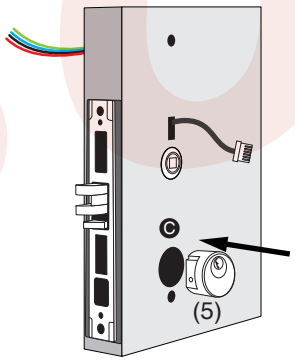
STEP 3 : Next, make sure that the external power and communication cable to CN1 is ready and wired on site

## 4.



**Fasten the (1) Mortise lock into the door with Screws on both side**

## 5.

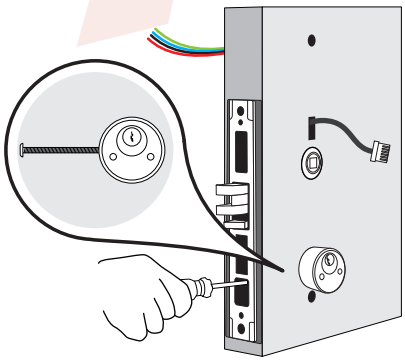



**Fasten (5) Cylinder Lock into Ⓒ hole**

※ **Important:**

1. The depth of the (5) Cylinder Lock installation has already fixed. The screw position must meet with the hollow part of the (5) Cylinder Lock
2. We suggest making sure that the upper bolt and the lower bolt functions correctly before fixing the screw. Testing can be made using the mechanical key by rotating it to left and right and it will move bolt position means it works properly.

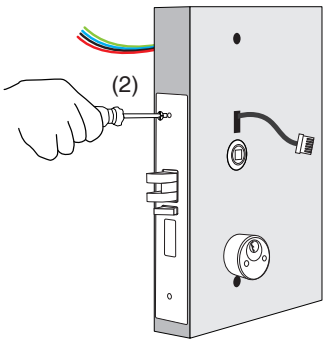
## 6.



**Install cylinder into mortise , use the screw to fix cylinder properly**

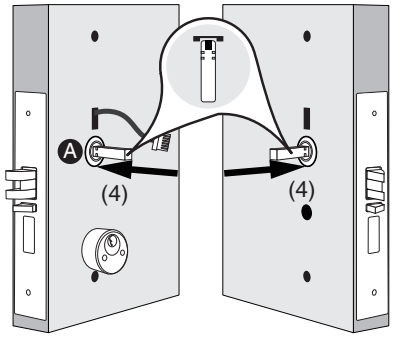
1. Make sure the key lock hole on the topside,and fixed tightly.
2. Please confirm the key can control 2 bolt.

## 7.




**Place back (2) Mortise Plate into Mortise lock body (original position)**

## 8.

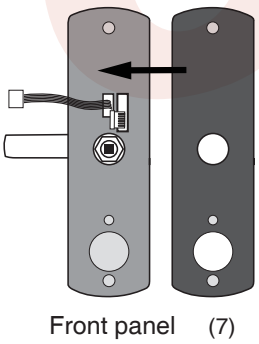



**Insert two of the (4) Spindle of Handle into Ⓐ hole**

※ Note: The crooked part is in the hole position, and the flat surface is facing out.

## *PART 2: HANDLE PANEL(Front Panel)*

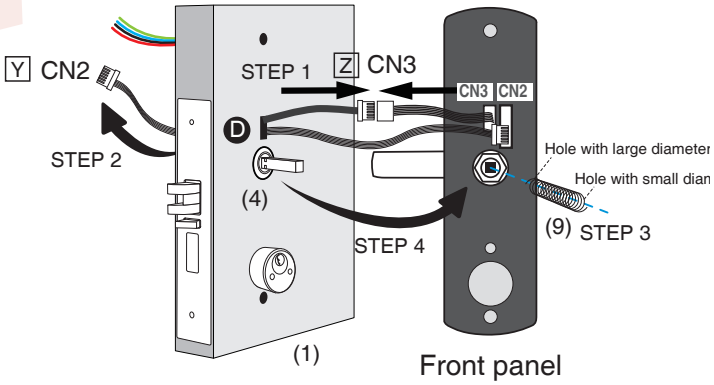
## 9.




**Waterproof Strap**

Provided (7) Waterproof Strap is recommended to apply for waterproof function and to preserve the lock durability from door opening and closing

## 10.




**Connect (1) Mortise to Front Panel**

STEP 1 : Connect the Front Panel CN3 Connector of Mortise to (1) Mortise

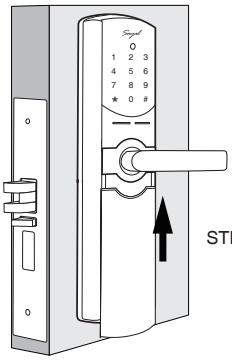
STEP 2 : Bring CN2 Connector of Reader into Ⓓ Cable Hole to be connected to Back Panel later

STEP 3 : Install (9) Elastic Spring towards A Face Panel, larger diameter size should face the handle hole

※ **Note:** The crooked part is in the Back Panel position, and the flat surface is in " 1 "Mortise position.

## *PART 3: HANDLE PANEL(Back Panel)*

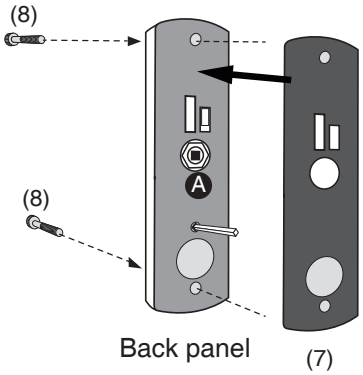
## *11.*




**Place the lower cover for the Front Panel**

Cover Cylinder Lock by sliding up the the lower cover and finish installation

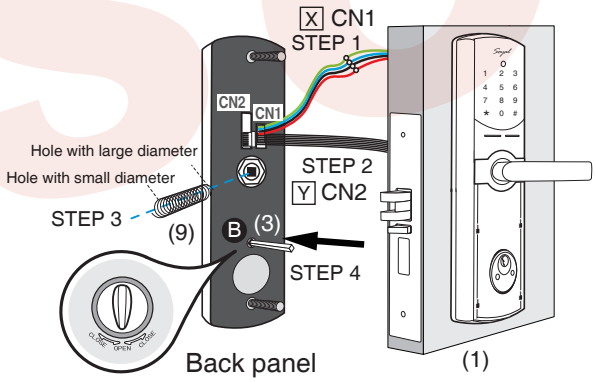
## *12.*




**Waterproof strap and fixing screw**

STEP 1: Provided (7) Waterproof Strap is recommended to apply for waterproof function and to preserve the lock durability from door opening and closing

## *13.*




**Connect (1) Mortise to Back Panel**

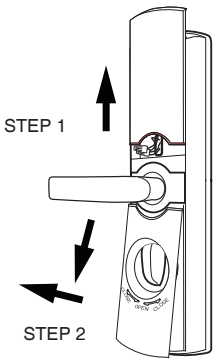
STEP 1 : Connect the CN1 Power and Communication Cable to DC power and RS485 communication (refer to the 'Wiring' Section)

STEP 2 : Continuation from Step 10-2 connect the cable from Ⓓ Cable Hole to CN2 Connector of Reader of the Back Panel

STEP 3 : Install (9) Elastic Spring towards A Face Panel, larger diameter size should face the handle hole

STEP 4 : Fasten (3) Spindle of Knob from Ⓑ Deadbolt Knob Hole of (1) Mortise into Ⓑ Deadbolt Knob Hole of the Back Panel

## *14.*



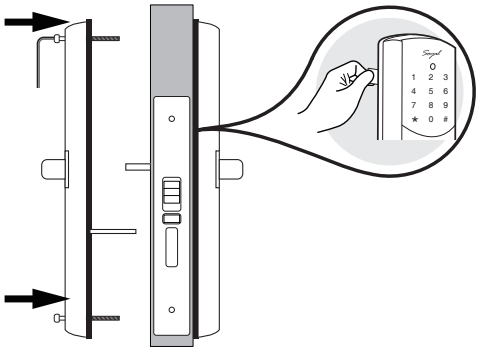

**Disassemble Back Panel cover**

STEP 1 : Disassemble the upper cover (sliding type)

STEP 2 : Disassemble the lower cover (buckle type)

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## 15.

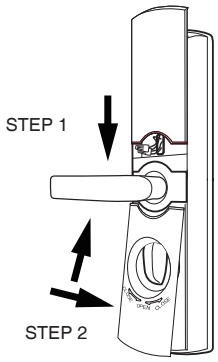


**Fix Front and Back Panel position**

Using (10) Allen Wrench, Fasten the (8)Handle Screw into (E)Handle Screw Hole up until it reached Front Panel and properly fasten.

※ Note: Before tightening the screw, make sure the Waterproof Strap is fit in the Back and Front Panel, Back Panel and Front Panel position is in correct position

## 16.



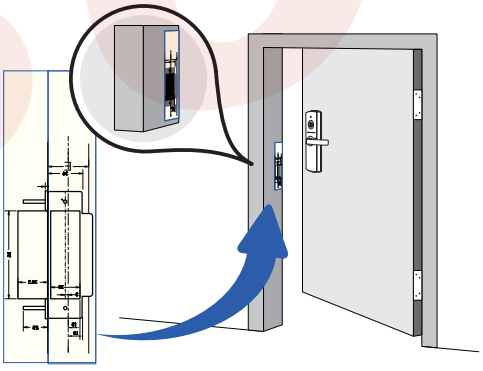

**Installation front and back panel.**

STEP 1 : Stand-alone: Install battery before the upper cover of back panel.

STEP 2 :Install the lower cover of back panel as above picture shown.

## *PART 3: STRIKE*

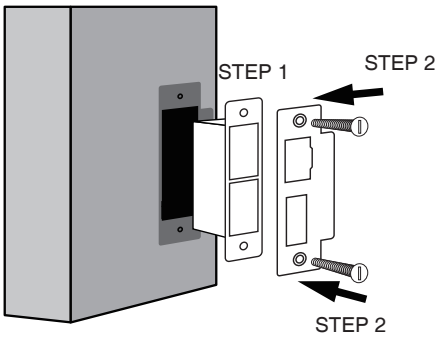
## 17.



**Strike hole drilling**

1. Peel off “Strike Sticker” and paste into the desired spot for installation
2. Start making the hole drilling based on the hole dimension on the sticker
3. Remove the sticker after hole drilling is finished

## 18.




**Strike components installation and fasten Screws**

STEP 1 : Embed the Strike Box into the hole

STEP 2 : Embed the Strike Plate on Strike Box and fasten with Screws

STEP 3 : Installation of Strike is finished.

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## Adding and Deleting Tag

### M4/M8

- **Add a Single Tag or Random tags**

  Input *123456# (or Master Code) → 19*UUUUU*00001# → Present the tag(s) to Access Controller (single tag or random tags one by one)→ Done

  [e.g.] Add 2 random cards to User Addresses No. 100 and No. 101:

  Enter program mode → 19*00100*00001# → Present the tags one by one → Done

- **Add a batch of Sequential tags**

  Input *123456# (or Master Code) → 19*UUUUU*QQQQQ# → Present the tag (only use the tag with the **lowest number**) → OK

  [e.g.] Add 20 pcs sequential tags (62312~62331) to User Address NO.101 ~ NO.120:

  Enter program mode → 19*00101*00120# → Close Tag into RF Area (only use the tag **NO.62312**) → OK

- **Delete Single Tag**

  Input *123456# (or Master Code) → 10*SSSSS9EEEEE#

  [e.g.] Delete User Address: 00058

  Enter program mode → 10*00058900058#

- **Delete a batch of Tags**

  Input *123456# (or Master Code) → 10*SSSSS9EEEEE#

  [e.g.] Delete User Address: 00101~00245

  Enter program mode → 10*00101900245#

- **Delete All Tags**

  Input *123456# (or Master Code) → 29*29*#

**Tag Information** (125kHz) ※ For Mifare tags, the separator between Site Code & Card Code is comma ",".




### M6 ※In this mode, User Address = Card Code ※In this mode, Card and PIN, If you want to modify refer to password setting 17 *

- **Add Tags**

  Input *123456# (or Master Code) → 11*SSSSS*EEEEE# → OK

  [e.g.] Add User Address: 00100~01254

  Enter program mode → 11*00100*01254# → OK

- **Add tag by presenting:** Input *123456#(or Master Code) → 22*1# → Present the tag to Access Controller → OK
- **Delete tag by presenting:** Input *123456#(or Master Code) → 22*0# → Present the tag to Access Controller → OK
- **Delete All Tags:** Input *123456# (or Master Code) → 29*29*#
- **Delete Tags**

  Input *123456# (or Master Code) → 10*SSSSS*(or 9)EEEEE# → OK

  [e.g.] Delete a tag with card code 62362

  Enter program mode → 10*62362*62362# → OK

## Operation process

### A. Enter / Exit Program Mode

- **Enter the program mode**

  Input *123456# or *PPPPPP#

  [e.g.] The Default Value= 123456, if the Master Code is already changed= 876112, input *876112# → program mode entered

- **Exit the program mode**

  Input *#

- **Master Code modification**

  Enter program mode → 09*PPPPPPRRRRRR# [Input the 6-digit new master code twice.]

  [e.g.] Set the Master code to be 876112, input *123456# → 09*876112876112#

### B. Change the Node ID of Controller

Enter program mode *- 00 # NNN

[Node ID: 001~254; if the access controller is connected to AR-716E, its Node ID will be 001~016.]

### C.Set up M4/M6/M8

Enter program mode → 04*N# [N=4/6/8]

## D. Set up the password

- **M4/M8: Private PIN**

  **Card or PIN:** Enter program mode → 12 * UUUUU * PPPP # [e.g. User Address: 00001 and pass code: 1234, input 12 * 00001 * 1234 #]

  **Card and PIN:** Enter program mode → 13 * UUUUU * PPPP # [e.g. User Address: 00001 and pass code: 1234, input 13 * 00001 * 1234 #]

- **M6: Public PIN**

  **Card or PIN:** Enter program mode → 15 * PPPP # [Input 4-digit PIN, default value: 4321; PPPP=0000: cancel the function of simply inputting PIN to get access]

  **Card and PIN:** Enter program mode → 17 * PPPP # [Input 4-digit PIN, default value: 1234; PPPP=0000: access mode will be "Card Only"]

## E. Double Door Control (M4/M8)

Controller with a reader to perform the "Double Door Control".

Enter program mode → 28 * 064 # [064= Double Door Control]

## F. Anti-pass-back (M4/M8)

Usually, anti-pass-back is commonly applied to parking areas in order to prevent from multi-entry with one card at a time, or to locations that need entry and exit control.

- **Enable controller**

  Enter program mode → 20 * DDD # [128= Anti-pass-back(0=Disable; 1=Enable)/ 064=Entrance/Exit(0=Exit; 1=Entrance).]

  [e.g.] Enable Anti-pass-back, and set to Exit door= (128 x 1) + (064 x 0) = 128

  Enter program mode → 20 * 128 # (Please refer to function default value for details.)

- **Enable card**

  Enter program mode → 26 * SSSSS * EEEEE * N #

  [SSSSS= Starting User Address; EEEEE= Ending User Address; N=0(control)/ 1(Not control)/ 2(reset)]

  [e.g.] Enable the anti-pass-back function of User Address from 00152 to 00684: 26 * 00152 * 00684 * 0 #

  [e.g.] The anti-pass-back function of User Address 00154 has been enabled. After presenting the card to get in, the user doesn't present the card to leave. When s/he tries to present the card to get in again, since the in-in sequence violates the anti-pass-back rule, s/he will be rejected. To solve this problem, you can reset it as follows. Enter program mode → 26 * 00154 * 00154 * 2 # → Reset

## G. Auto-Open Time Zone

Door will remain open after the first flashing card. There are 2 time zones supported when Standalone, and 63 time zones when connected to AR-716E.

- **Enable/Disable auto-open time zone**

  Enter program mode → 20 * 004 # [004= enable Auto-Open Time Zone; 000= disable Auto-Open Time Zone]

- **Enable/Disable auto open door without presenting card**

  Enter program mode → 24 * 001 # [001= enable Auto-Open Time Zone; 000= disable Auto-Open Time Zone]

- **Set up auto-open time zone**

  Enter program mode → 08 * N * HHMMhhmm * 7123456H #

  N: 2 sets of auto-open zone (N=0=1st set; N=1=2nd set)

  HHMMhhmm=Staring time to ending time (e.g. 08301200=08:30 to 12:00)

  7123456H= 7 days of a week (Sun/Mon/Tue/Wed/Thu/Fri/Sat) + Holiday (H= 0: disable; 1: enable); Holidays can be set via 701Client software.

  [e.g.] To set the second time zone as 9:30 AM to 4:20 PM, Monday, Wednesday and Friday: 08 * 1 * 09301620 * 01010100 # → Done

## H. Lift control

Connect with **AR-401-RO16** to control access floors of users.

- **Enable**

  Enter program mode → 24 * 002 # [002= enable lift control]

- **Single floor**

  Enter program mode → 27 * UUUUU * FF #

  UUUU=User Address FF=Floor number (01~32 floor)

  [e.g.] User Address NO. 45, allowed to access the 24th floor: 27 * 00045 * 24 #

- **Multi floors**

  Enter program mode → 21 * UUUUU * S * FFFFFFFF #

  [UUUUU=User Address S: 4 sets of lift control (Input: 0~3) FFFFFFFF: 8 floors setting (F=0: Disable, F=1: Enable)

  [e.g.] User Address NO. 168, only to the 6th and the 20th floor:

  Enter program mode → 21 * 00168 * 0 * 00100000 # → 21 * 00168 * 2 * 00001000 #

Please refer to below floor chart

| Set | Floor/ Stop | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | F | F | F | F | F | F | F | F |
| 0 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 1 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 |
| 2 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 |
| 3 | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 |

## I. Setting Up the Arming

- **Alarm conditions:**
  1. Arming is enabled
  2.Alarm system connected
- **Application:**
  **1. Door open too long**: Door is open longer than door relay time plus door close time.
  **2. Force open** (Opened without a valid user card): Access by force or illegal procedure.
  **3. Door position abnormal**: Arming is enabled and the power is suddenly off then on.
- **Enable/Disable Arming status (for M4/M8; default value of arming PWD is: 1234) :**

| **Standby Mode** | |
|---|---|
| After door open | Do not open the door |
| The normal procedure to open door → **Input 4-digit arming PWD** # | * → **Input 4-digit arming PWD** → **Present a valid card** |
| **Enter Program Mode** | |
| **Enable:** Enter program mode → * * # | **Disable:** Enter program mode → * # |

※ **[The normal procedure to open door] can refer to [Access Mode].**

## Function Default Value

**20 * DDD #** ※Default Value

| Function | Selection | | Value | Application |
|---|---|---|---|---|
| Time Attendance | ※0: Yes | 1: No | 001 | Networking |
| Auto Relock | ※0: Disable | 1: Enable | 002 | Networking/Standalone |
| Auto Open | ※0: Disable | 1: Enable | 004 | Networking/Standalone |
| Exit by RTE Button | 0: Disable | ※1: Enable | 016 | Networking/Standalone |
| Master Controller of Network | ※0: Slave | 1: Mater | 032 | Networking |
| Entrance/Exit | ※0: Exit | 1: Entrance | 064 | Networking |
| Anti-pass-back | ※0: Disable | 1: Enable | 128 | Networking |

**28 * DDD #** ※Default Value

| Function | Selection | | Value | Application |
|---|---|---|---|---|
| Double Door Control | ※0: Disable | 1: Enable | 064 | Networking/Standalone |
| Force Open Alarm Output | 0: Disable | ※1: Enable | 128 | Networking/Standalone |

**24 * DDD #** ※Default Value

| Function | Selection | | Value | Application |
|---|---|---|---|---|
| Auto Open without Presenting in Auto-open Time Zone | ※0: Disable | 1: Enable | 001 | Networking/Standalone |
| Alarm Output/ Lift Control | ※0: Alarm Output | 1: Lift Control | 002 | Networking/Standalone |
| Stop Alarm by pressing RTE Button or Closing the Door | 0: None | ※ 1: Yes | 064 | Networking/Standalone |
| Doorbell | ※0: Disable | 1: Enable | 128 | Networking/Standalone |

Select the desired function, Weighted Value = Selection Index (0 or 1) x Value.
[e.g.] DDD (total weighted value of all functions): Enable "Auto Open" + "Exit by RTE Button" + "Anti-pass-back"=1*004 + 1*016 + 1*128=148; As a result of that, the command will be 20 * 148 #.

## M4 / M6 / M8

| Mode | Networking/ Standalone | User Capacity | Access Mode | Auto-show Duty time | Event log Capacity | 120 Holidays | Duress Function | Time Zone | Lift Control | Anti-pass-back |
|---|---|---|---|---|---|---|---|---|---|---|
| M4 | Networking/ Standalone | 3,000 | 1.Card only<br>2.Card and PIN (4-digit PIN)+ #<br>3.User Address (5-digit) + PIN (4-digit Private PIN) + # | Yes | 1,500 | Yes | Yes | 11 | 32 | Yes |
| M6 | Standalone | 65,535 | 1.Card only (using 17* command to set Arming PWD as 0000)<br>2.Card and PIN (4-digit public PIN= Arming PWD)+ #<br>3.Card or PIN (4-digit public PIN= Duress code) | No | No | No | No | No | No | No |
| M8 | Networking/ Standalone | 3,000 | 1.Card only<br>2.Card and PIN (4-digit Private PIN)+ #<br>3.Card or PIN (4-digit Private PIN) | Yes | 1,500 | Yes | Yes | 11 | 32 | Yes |

※ **M6:** the user capacity can be 65535 because it only reads 5-digits **CARD CODE**, while in **M4/M8** it reads both **SITE CODE** and **CARD CODE**(10 digits).

## Factory Reset by its commands

- **When the device is Standalone (not networking)**
  Enter program mode → 20 * 016 # → 24 * 064 # → 26 * 00000 * 01023 * 1 # → 28 * 000 # → 29 * 29 * #
  ※Note: if the Master Code has been changed, factory reset won't restore the Master Code to 123456.

## Command List

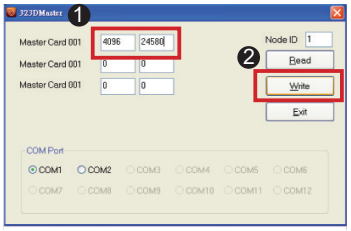
| Function | Command | Description | Mode |
|---|---|---|---|
| **Enter program mode** | * PPPPPP # | PPPPPP=Master Code, default value=**123456** | M4/M6/M8 |
| **Exit program mode** | * # | | M4//M6M8 |
| **Exit program mode and enter arming mode** | * * # | | M4/M8 |
| **Node ID setting** (Connected to 716E) | 00 * NNN # | NNN=Node ID of Access Controller (range: 001~016) | M4/M8 |
| **Node ID setting** (Connected to the PC directly without 716E) | 00 * NNN * VVV * nnn # | NNN=Node ID of Access Controller (range: 001~254)<br>VVV=Virtual 716E Node ID, nnn=Door number (range:001~254) | M4/M8 |
| **Mifare tag / card format** (Optional) | 01 * N # | N: 0=ISO14443A; 1=ISO14443B; 2=ISO15693;<br>3=I Code1; 4=I Code2<br>PS.1. Please select the transmission standard first.<br>2. Ensure both reader and card using the same transmission standard. | M4/M8 |
| **Door Relay Time setting** | 02 * TTT # | TTT=Door relay time 000= Output continuously<br>001~600=1~600 sec.<br>601~609=0.1~0.9 sec. | M4/M6/M8 |
| **Alarm Relay Time setting** | 03 * TTT # | TTT=Alarm relay time 000= Output continuously 001~600=1~600 sec. | M4/M6/M8 |
| **Control mode setting** | 04 * N # | N=4: M4; N=6: M6; N=8: M8 | M4/M6/M8 |
| **Arming Delay Time setting** | 05 * TTT # | TTT=the buffer time before entering arming mode 001~600=1~600 sec. | M4/M6/M8 |
| **Alarm Delay Time setting** | 06 * TTT # | TTT=the buffer time before the alarm is activated 001~600=1~600 sec. | M4/M6/M8 |
| **Master card (Administrator) setting** | 07 * SSSSS * EEEEE # | SSSSS-EEEEE=00000-01023 (00000-03000 for AR-725H);<br>SSSSS=Starting User Address; EEEEE=Ending User Address | M4/M8 |
| **Auto-open time zone setting** | 08 * N * HHMMhhmm * 7123456H # | N= 0 (1st time zone) / 1 (2nd time zone)<br>HHMM= Starting time; hhmm= ending time<br>(i.e.: 08301600=08:30 to 16:00)<br>7123456H= 7 days of week (Sun/Mon/Tue/Wed/Thu/Fri/Sat)+ Holiday<br>(H= 0: disable; 1: enable); Holidays can be set by 701Client software. | M4/M6/M8 |
| **Master code setting** | 09 * PPPPPPRRRRRR # | PPPPPP=6-digit new master code<br>RRRRRR=Reconfirm the new master code | M4/M6/M8 |
| **Suspend / Delete tag** | 10 * SSSSS * EEEEE # **(M6)**<br>10 * SSSSS 9 EEEEE # **(M4/M8)** | *=Suspend 9=Delete;<br>SSSSS=Starting User Address, EEEEE=Ending User Address | M4/M6/M8 |
| **Add a batch of sequential cards by inputting card number (M6)** | 11 * SSSSS * EEEEE # | SSSSS=Starting card number<br>EEEEE=Ending card number | M6 |
| **Recover the suspended cards** | 11 * SSSSS * EEEEE # | SSSSS=Starting User Address<br>EEEEE=Ending User Address | M4/M8 |
| **Modify the user's access PIN according to the user's address, and change the control mode to "Card or PIN"** | 12 * UUUUU * PPPP # | Access mode: **Card or PIN**; UUUUU=User Address;<br>PPPP=4-digit private PIN (0001~9999); **0000**=**Card Only** for this user | M4/M8 |
| **Set the access mode of the user at the designated User Address as "Card & PIN"** | 13 * UUUUU * PPPP # | Access mode: **Card & PIN**; UUUUU=User Address;<br>PPPP=4-digit private PIN (0000~9999) | M4/M8 |
| **Arming Pulse Time setting** | 14 * TTT # | TTT=Arming output time; 000=output continuously 001~250=0.1~2.5 sec. | M4/M8 |
| **M4/M8:Duress code setting**<br>**M6:Public PIN setting** for access mode "Card or PIN" | 15 * PPPP # | PPPP=4-digit duress code (0001~9999; default value=**4321**; **0000**=disable the function of simply inputting PIN to get access in M6) | M4/M6/M8 |
| **Card number modification** | 16 * UUUUU * SSSSSCCCCC # | UUUUU= User Address; SSSSS=5-digit site code; CCCCC=5-digit card code | M4/M8 |
| **M4/M8:Arming PWD setting**<br>**M6:Public PIN setting** for access mode "Card & PIN" | 17 * PPPP # | PPPP=4-digit Arming PWD (0001~9999; default value=**1234**; **0000**= access mode will become "**Card Only**" in M6) | M4/M6/M8 |
| **Door Close Time** | 18 * TTT # | TTT=Door Close Time: 001~600=1~600 sec.; default value: 15 sec. | M4/M6/M8 |
| **Add card by presenting(M4/M8)** | 19 * UUUUU * QQQQQ # | UUUUU=User Address; QQQQQ=Card quantity (**00001**: for adding a single card or a batch of random numbering cards) | M4/M8 |
| **Reader additional setting** | 20 * DDD # | Please refer to function default value for details. | M4/M6/M8 |
| **Lift control setting: multi-floor** | 21 * UUUUU * S * FFFFFFFF # | UUUUU=User Address, S=4 sets of lift control (0~3); FFFFFFFF=8 assigned floor (F=0: Disable, 1: Enable) | M4/M8 |
| **Add/Delete tag by presenting** (M6 only) | 22 * N # | N=0(Delete tag); N=1(Add tag) | M6 |
| **AR-401RO16 Lift Relay Activated TM** | 23 * NNN * TTT # | NNN=site number, TTT= relay time: 000~600=1~600 sec. | M4/M8 |
| **Controller parameter setting** | 24 * DDD # | Please refer to function default value for details. | M4/M6/M8 |
| **Controller time clock setting** | 25 * YYMMDDHHmmss # | YYMMDDHHmmss: Year/ Month/ Day/ Hour/ Min./ Sec. | M4/M6/M8 |
| **Anti-pass-back** (Enable user) | 26 * SSSSS * EEEEE * N # | SSSSS=Starting User Address; EEEEE=Ending User Address;<br>N=0: Enable; N=1: Disable; N=2: Reset | M4/M8 |
| **Lift control setting: single floor** | 27 * UUUUU * FF # | UUUUU=User Address; FF=Floor (01~32 floor) | M4/M8 |
| **Double Door Control / Force Open Alarm** | 28 * DDD # | Please refer to function default value for details. | M4/M6/M8 |
| **Delete all tags** | 29 * 29 * # | | M4/M6/M8 |

| Function | Command | Description | Mode |
|---|---|---|---|
| Enable the security trigger signal ( with AR-721RB) | 34 * DDD # | Change the "Arming" (in P5) to the security trigger signal, when controller is connected with AR-721RB. **Please refer to function default value for details.** | M4/M6/M8 |

**34 * DDD #** ※Default Value

| Function | Selection | | Value | Application |
|---|---|---|---|---|
| Enable the RF after door sensor closed to GND | ※0: Deactivate | 1: Activate | 001 | Networking/Standalone |
| Invalid card to activate alarm relay | ※0: Deactivate | 1: Activate | 002 | Networking/Standalone |
| Turn off all sounds of beeper | ※0: Deactivate | 1: Activate | 003 | Networking/Standalone |
| Mute the sounds of egress button (RTE) | ※0: Deactivate | 1: Activate | 004 | Networking/Standalone |
| Reserved | ※0: Deactivate | 1: Activate | 016 | Networking/Standalone |
| Keep beeing while arming is enabled | ※0: Deactivate | 1: Activate | 032 | Networking/Standalone |
| Door relay connected to AR-721RB (suited to models without relay built-in) | ※0: Deactivate | 1: Activate | 064 | Networking/Standalone |
| Arm relay connected to AR-721RB (suited to models with relay built-in) | ※0: Deactivate | 1: Activate | 128 | Networking/Standalone |

## MASTER CARD Setting




- Use the MASTER CARD software

323DMaster

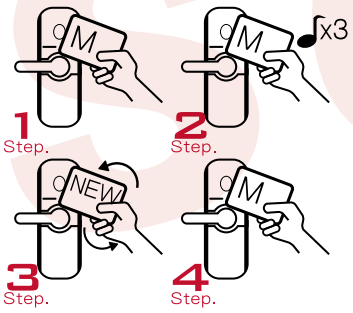
- Input the MASTER CARD number, and press [Write].
- Cut off and tranmit the power. Activate master the card number.

**Test**

Present the card, and the reader will flash green light 3 times and sound 3 beeps. Then the card becomes MASTER CARD and accesses programming mode.If MASTER CARD is presented again, it will exit programming mode.

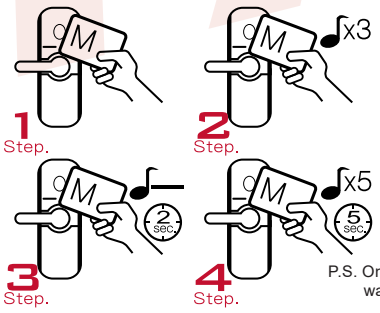
## About Master Card / Master Card

### Adding Tag




1. Present Master Card
2. After 3 short beeps [Access programming mode]
3. Present one new card at a time
4. Present Master Card [Exit programming mode]

### Deleting All Tags




1. Present Master Card
2. After 3 short beeps [Access programming mode]
3. 1 long warning beep after 2sec.
4. 5 short beeps after 5sec: cards cleared

P.S. Once MASTER CARD is presented after one warning beep, all card data will be cleared.