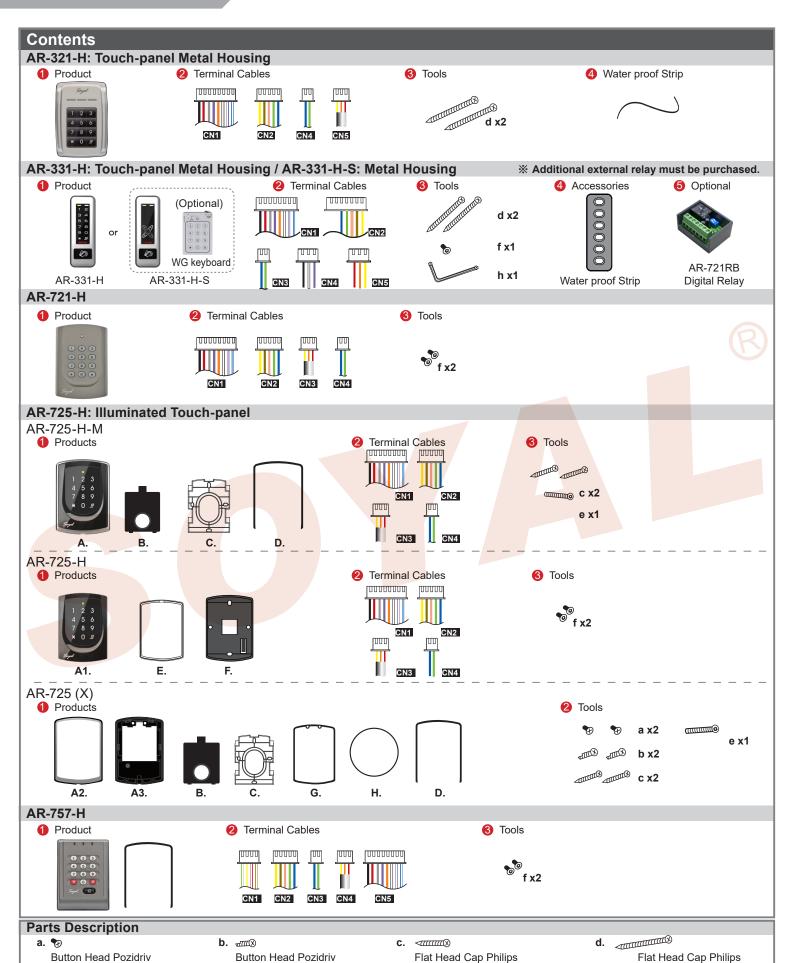


Tapping Screw: M3x10

Security Torx Screw: M3.5x15



Tapping Screw: 4x19.1

Security Torx Screw: M3x10

Tapping Screw: 4x38

Security Torx Wrenches

Slotting Screw: 2.5x10

Flat Head Hex Socket

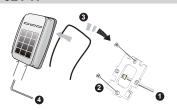
f.

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### Touch-panel Metal Housing / Illuminated Touch-panel

## Inst<u>allation</u>

#### AR-321-H

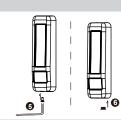


- Pull the cables from the square hole of the mounting plate.
- Use a screwdriver to screw the mounting plate onto the wall.
- Attach the water proof strip to the body, then connect the terminal cables to the body and attach the body to the mounting plate.
- Use the Allen key and screws (accessories supplied) to assemble the body onto the mounting plate.
- Turn on the power, and LED will light and beep will sound.

#### AR-331-H / AR-331-H-S

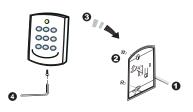






- Remove the rubber plug.
- To cut tamper-resistant column and make it fit the appropriate height for actual installation.
- First, take off the metal casing then screw the controller on the wall.
- Second, put the metal casing back and lock it with security screw.
- Finally, put the rubber plug into the hole.
- Turn on the power, and LED will light and beep will sound.

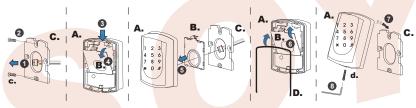
### AR-721-H



- Pull the cables from the square hole of the mounting plate.
- Use a screwdriver to screw the base onto the wall.
- Connect the terminal cables to the body and attach the body to the mounting plate.
- Assemble the covers with the Allen key and screws (accessories supplied).
- Turn on the power and LED will light and beep will sound.

#### AR-725-H

AR-725-H-M



- Pull the cables from the square access hole of the mounting plate C.
- Use a screwdriver to screw the metal plate C onto the wall.
- Take off the plastic mounting plate B from the body A, and pull the cables through the access hole of C and B, then connect to the body A.
- Assemble plate B with the body A, and embed the water proof strip D onto the plastic side frame.
- Assemble the body A onto the mounting plate C with the Allen key and screws (accessories supplied).
- Turn on the power and LED will light and beep will sound.

### AR-725-H





- Use a screwdriver to screw the base F onto the wall.
- Attach the water proof gasket to the body A1, and pull the cables from the square hole of the base F, and connect to the body A1.
- Assemble the body A1 with the base F.
- Screw A1 and F tight with the Allen key and screws (accessories supplied).
- Turn on the power and LED will light and beep will sound.

### AR-725 (X)



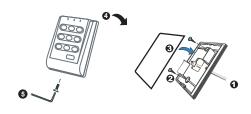






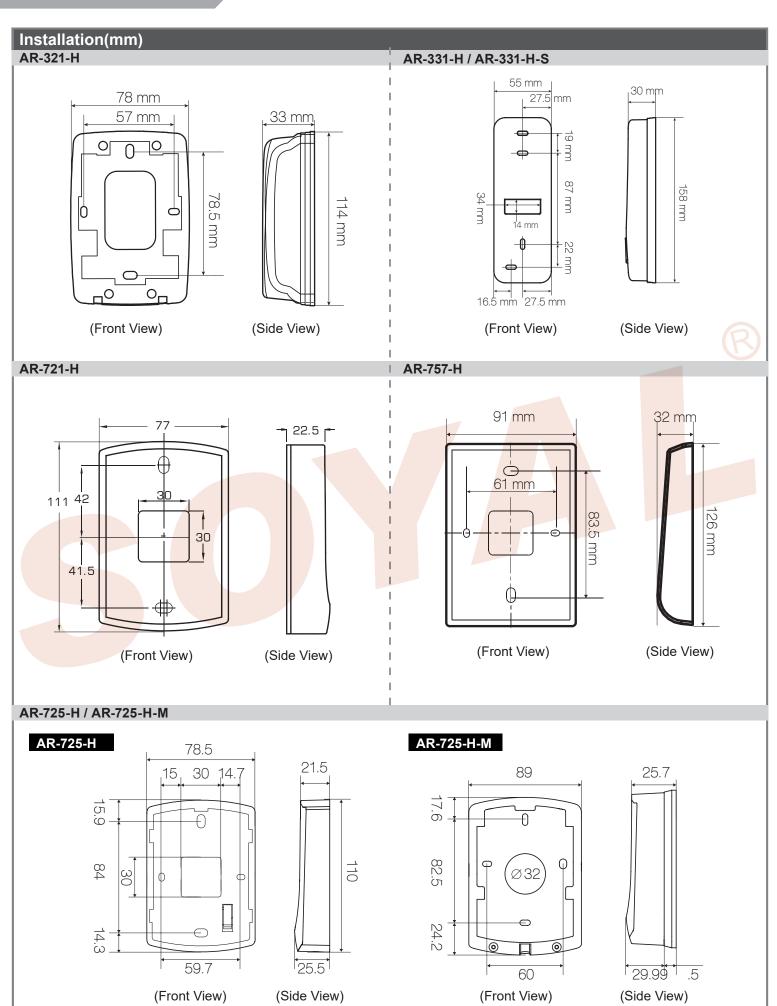
- Put on G, and attach A1 onto the plastic plate A3, and screw it with the Allen key and screws (accessories supplied).
- Put the ring O on the metal frame, and put them together onto the reader A1+A3, and screw them and buckle up the 4 buckles on the back.
- Embed the water proof strip D onto the frame side of the base.
- Following by the install process of AR-725 (H-M)

### AR-757-H



- Pull the cables from the square hole of the mounting plate.
- Use a screwdriver to screw the base onto the wall.
- Embed the water proof strip 3 onto the frame side of the base.
- Connect the terminal cables to the body and attach the body to the mounting plate.
- Assemble the covers with the Allen key and screws (accessories supplied).
- Turn on the power and LED will light and beep will sound.





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- 1.Tubing: The communication wires and power line should NOT be bound in the same conduit or tubing.
- 2.Wire selection: Use AWG 22-24 Shielded Twist Pair to avoid star wiring.
- 3.Power supply: Don't equip controller and lock with the same power supply. The power for controller may be unstable when the lock is activating, that may make the controller malfunction.

The standard installation: Door relay and lock use the same power supply, and controller use independent power supply.

### **Connector Table**

### AR-321-H

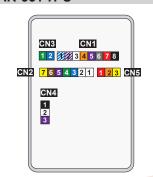
125kHz



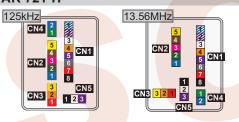


### AR-331-H / AR-331-H-S

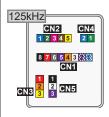
125kHz 13.56MHz



### AR-721-H



### AR-725-H





### AR-757-H

125kHz

13.56MHz



### Cable: Power/Door/Alarm

AR-321-H	AR-331-H		AR-721-H	AR-725-H	AR-757-H
CN1	CN1		CN1	CN1	CN5
Wire Application	Pin	Color	Description		
Lock Relay	1	Blue White	(N.O.) DC24V1A	mp	
	2	Purple White	(N.C.) DC24V1Ai	mp	
Common-COM-Point	3	White	(COM) DC24V1A	mp	
Door Sensor	4	Orange	Negative Trigger	Input	
Exit Switch	5	Purple	Negative Trigger	Input	
Alarm Relay	6	Gray	Low output; Max 12V/100mA (Open Collector)		Collector)
Power	7	Thick Red	DC Power 12V		
	8	Thick Black	DC Power 0V		

#### Cable: WG CN2

(Apply to 321H/721H/725H/757H)

Wire Application	Pin	Color	Description		
Wiegand	1	Thin Blue	Wiegand DAT:1 Input		
	2	Thin Green	Wiegand DAT:0 Input		
Beeper	3	Pink	Beeper Output 5V/100mA, Low		
LED	4	Brown	LED Green Output 5V/20mA, M	ах	
LED	5	Yellow	LED Red Output 5V/20mA, Max	(	

(Apply to 331H)

Wire Application	Pin	Color	Description
	1		Reserved
	2		Reserved
Wiegand Reader	3	Thin Blue	Wiegand DAT:1 Input
Wiogaria Moddor	4	Thin Green	Wiegand DAT:0 Input
Beeper	5	Pink	Beeper Output 5V/100mA, Low
LED	6	Brown	LED Green Output 5V/20mA, Max
LED	7	Yellow	LED Red Output 5V/20mA, Max

### Cable: Burglary (Optional)

AR-321-H	AR-331-H	AR-721-H	AR-725-H	AR-757-H
CN3	CN4 (Included)	CN5	CN5	

Wire Application	Pin	Color	Description
3-PIN Connector	1	Black	GND.
	2	White	Duress
	3	Purple	Arming/ Security trigger signal

### Cable: RS-485

AR-321-H	AR	-331-H	AR-721-H	AR-725-H	AR-757-H
CN4	CN3		CN4	CN4	CN3
Wire Application   Pin   Color		Description			
AT 1 III	4	T1 : 1 O	DO 405/D \		

#### Networking 1 Thick Green RS-485(B-) Thick Blue RS-485(A+) Module

#### Cable: Tamper

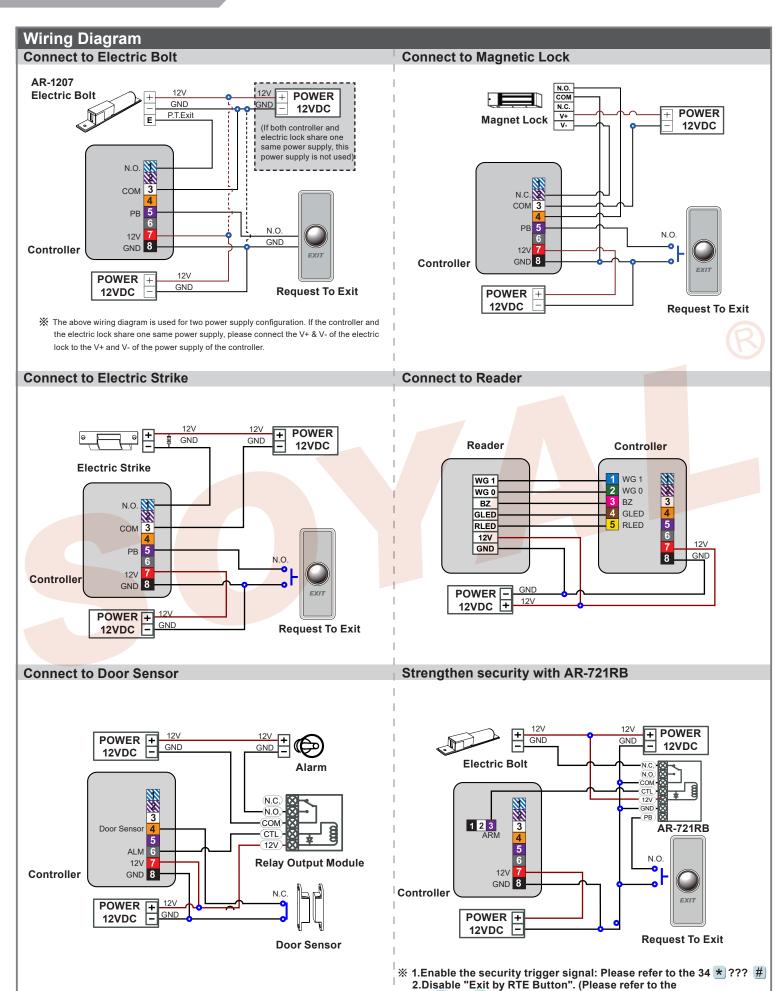
%After S/N: 0706-XXXXXX

AR-321-H	AR-331-H		AR-721-H	AR-725-H	AR-757-H		
CN5	CN5		CN3	CN3 CN3 CN4			
Wire Application	Pin	Color	Description				
Tamper Switch	1	Red	N.C.				
	2	Orange	COM				
	3	Yellow	N.O.				

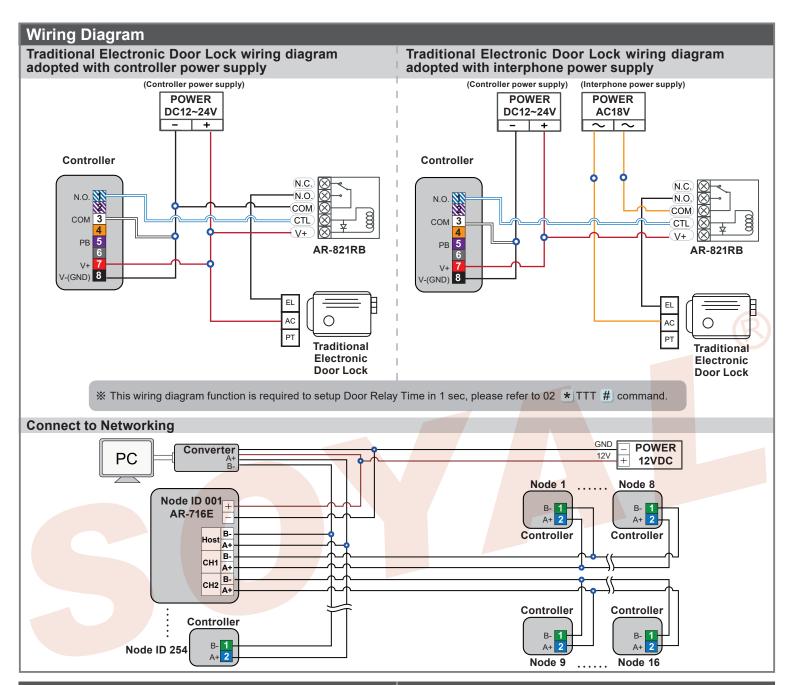
### Cable: Burglary / Security Relay CN1 (Apply to 757-H)

Wire Application	Pin	Color	Description
Doorbell	1	Brown White	BE Output
Arming	2	Red White	AR Output/ Security trigger signal Output
Duress	3	Yellow White	DU Output/ TTL out
LED indicator	4	Green White	Hi input/ Green light brighten



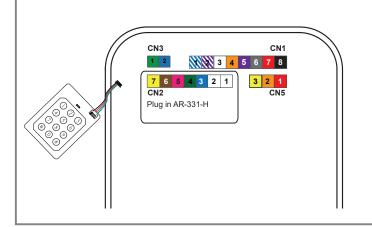


20 \* ??? # of function default value.)



## AR-331-H External WG keyboard

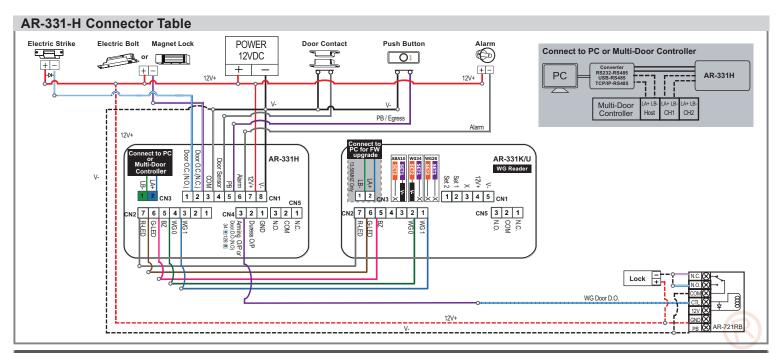
- If you want to program system on AR-331-H directly, please order WG keyboard then install it according to the following pattern.
  - Plug AR-331-H into CN2 connector on the mainboard
  - Refer to command list and start to operate AR-331-H.



### **AR-331-H Front Panel & Indicator**

LED A	Descrption		
Blue	Arming / Blue LED	LED A	LED B
Diue	Input (Active High)		
Yellow	Yellow LED Input		
reliow	(Active High)		
			Best Reading
LED B	Descrption		Area
Green	Power-on/Stand-by		
Green	/OK		P
Red	Error/Alarm		E 1
		'   _	
	on the device,hands off p ake sure a successful act		
io sec. to ma	ake sure a successiui act	ivation.	





### Master Code modification / Change the Node ID of Controller

#### **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  $\rightarrow$  09 \* PPPPPRRRRR # [Input the 6-digit new master code twice.] [e.g.] Set the Master code to be 876112, input \* 123456 #  $\rightarrow$  09 \* 876112876112 #

#### 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.]

### M4 / M6 / M8

		i							1				
Mode	Networking/ Standalone	User Capacity	Ac	cess Mo	de		Auto-show Duty time	Event log Capacity	120 Holidays	Duress Function	Time Zone	Lift Control	Anti-pass- back
M4	Networking/ Standalone	0 000	1.Card only 2.Card and PIN (4-digit 3.User Address (5-digit		digit Private PIN) +	#	Yes	1,200 721-H 1,500 321-H/331-H/ 725 (H) 3,000 757-H	Yes	Yes	11	32	Yes
M6	Standalone	l '	1.Card only (using 17* comm 2.Card and PIN (4-digit 3.Card or PIN (4-digit p	public PIN)			No	No	No	No	No	No	No
M8 (Default Value)	Networking/ Standalone	3,000	1.Card only 2.Card and PIN (4-digit Priva 3.Card or PIN (4-digit Priva				Yes	1,200 721-H 1,500 321-H/331-H/ 725 (H) 3,000 757-H	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).
- $\% \ \ Confirm \ the \ access \ mode \ by \ assessing \ the \ beep sounds \ while \ entering \ the \ Program \ Mode \ (\textbf{M4-4} \ beeps/\textbf{M6-6} \ beeps/\textbf{M8-8} \ beeps)$
- \* Default Card UID Length is 4 (Could not change by command and only be able to change by customized firmware)

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

Enter program mode → 04 ★ N # [N=4/6/8]

(Note: The modification of controller mode between M4/M8(networking) and M6(standalone) will reset the data, user data will be required to rebuild.)

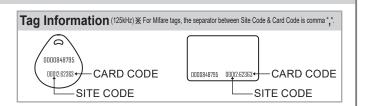
### **Adding and Deleting Tag**

### M4/M8

### Add New Tags

Add by Presenting Tags (apply to Single Tag or a Batch of Tags)

**\*\*Important Notice:** Please remember the last user address being added to make sure the old user data is not being over written with the new card in the future.



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### Add Non-consecutive Tags:

[Add single tag] Add a new tag for selected user address 100:

Enter program mode → 19 \* |00100 \* |00001 #| → Present the tag → Successfully added tag of user 100

[Add 2 additional tags] Add new tags to the following user address 101-102:

Enter program mode → 19 \* |00101 \* |00001 # | → Present (User 101) card → Present (User 102) card

→ Successfully added tags of user 101-102

[Add 10 additional tags] Add new tags to the following user address 103-112

Enter program mode → 19 ★ 00103 ★ 00001 # → Present (User 103) card → Present (User 104) card → Present (...) card

→Present (User 111) card →Present (User 112) card →Successfully added tags of user 103-112

#### **Add Consecutive Tags:**

[Add 50 consecutive tags] Add 50 new tags with consecutive card number following user address 00050-00150:

Enter program mode → 19 \* |00050 \* |001001 # | → Successfully added tags of user 50-150

### **Suspend Tags**

Suspend Single Tag or a Batch of Tags (by Card Code in Sequence)

Input ★123456 #) (or Master Code) → 10 ★ SSSSS ★ EEEEE #)

[e.g.] Suspend by Card Code: 00058

Enter program mode → 10 **\*** 00058 **\*** 00058 **#** 

[e.g.] Suspend by Card Code: 00058~00063

Enter program mode → 10 \* 00058 \* 00063 #

### **Delete Tags**

Delete Single Tag or a Batch of Tags (by Card Code)

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

[e.g.] Delete by Card Code: 00058

Enter program mode → 10 **★** 00058 9 00058 #

[e.g.] Delete by Card Code: 00058~00063

Enter program mode → 10 \* 00058 9 00063 #)

### Delete All Tags

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

### **M6**

The default value of a	access function of M6 is	Card a <mark>nd PIN, it</mark> will have 3 bee <mark>ps for hi</mark> nting you input	PIN
number after card pro	esentation. Access func	ion modification please refer the table below:	
Access Mode	Command	Description	

Access Mode	Comm	iaiiu	Description
Card and PIN	17 * ???? #	15 * 0000 #	????=4-digit PIN(0001~9999 ; default value=1234)
Card only	17 * 0000 #	15 * 0000 #	
Card or PIN	17 * 0000 #	15 * ???? #	????=4-digit PIN(0001~9999 ; default value=4321)



### **Add New Tags**

Add a Single Tag (by Presenting the Tag) :

Input **★** 123456 **#** (or Master Code) → 22 **★** 1 **#** 

[e.g.] Add single tag:

Enter program mode → 22 \* 1 #

→ Present the tag to Access Controller → OK

Add a Batch of Tags (by Presenting the Tags):

Input **★** 123456 **#** (or Master Code) → 22 **★** 1 **#** 

[e.g.] There are 20 tags to add:

Enter program mode → 22 ★ 1 #

→Present 20 tags one by one →OK

### **Delete Tags**

• Delete Tag (by Presenting the Tag) :

Input **★** 123456 **#** (or Master Code) → 22 **★** 0 **#** 

[e.g.] Delet single tag:

Enter program mode → 22 \* 0 # → Present the tag to Access Controller → OK

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

[e.g.] Add one card with Card Code 61632

Enter program mode  $\rightarrow$  11 \* 61632 \* 61632 #  $\rightarrow$  OK

• Add a Batch of Tags(by Card Code) \*Card Code should not be repeated **%by Card Code in Sequence** 

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

[e.g.] Add a batch of user with sequential Card Number of user address 12058 until 12559 (total 500 tags)

Enter program mode → 11 \* 12058 \* 12599 # → OK



## AR-321-H /AR-721-H/ AR-331-H AR-725-H / AR-757-H

• Delete Tags (by Card Code) :

Input  $\*123456 \#$  (or Master Code)  $\rightarrow$  10  $\**$  SSSSS 9 EEEEE #  $\rightarrow$  OK [e.g.] Delete a tag with card code 62362 Enter program mode  $\rightarrow$  10  $\**$  62362 9 62362 #  $\rightarrow$  OK

Delete All Tags:

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

### **Operation process**

#### Set up the password

M4/M8: Private PIN

Card or PIN: Enter program mode  $\rightarrow$  12 \* UUUUU \* ???? # [e.g. User Address: 00001 and pass code: 1234, input 12 \* 00001 \* 1234 # ] Card and PIN: Enter program mode  $\rightarrow$  13 \* UUUUUU \* ???? # [e.g. User Address: 00001 and pass code: 1234, input 13 \* 00001 \* 1234 # ]

M6: Public PIN

Card or PIN: Enter program mode → 15 ★???? # [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 ★???? # [Input 4-digit PIN, default value: 1234; PPPP=0000: access mode will be "Card Only"]

### **Dual-door Control (M4/M8)**

Controller equipped with a reader, the reader will be available to control another door..

Enter program mode → 28 ★ 064 # [064= Dual-door Control]

#### 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 ★ ???? # [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 # | [SSSS= 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  $\rightarrow$  26  $\bigstar$  00154  $\bigstar$  00154  $\bigstar$  2 #  $\rightarrow$  Reset

#### Auto Open Access (uncontrolled) Time Zone – Automatically Release Door Lock

Door will remain open after flashing one valid card. There are 2 time zones supported when Standalone, and 63 time process when connected to AR-716-E. Please refer to paragraph Compound Command Function List below to ensure command 20 \* ??? # / 24 \* ??? # will not reset the functions that already had been changed.

• 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 one valid card and Automatically release door lock when auto open time is up

  Enter program mode → 24 ★ 001 # [001=enable auto-open door without presenting one valid card: 000=disable auto-open door without presenting one valid card]
- Set up auto-open time zone

Enter program mode → 08 ★ N ★ HHMMhhmm ★ 11111111 #

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)

1111111H = 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

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## H. Lift control

Connect with AR-401-IO-0016R 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 ★ FFFFFFF #

[UUUUU=User Address S: 4 sets of lift control (Input: 0~3) FFFFFFF:

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

	0-4	Floor/ Stop										
	Set	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			
Ì	3	32	31	30	29	28	27	26	25			

### I. Setting Up the Arming

Controller could be set as Standby Mode (Disarming mode) or Arming Mode according to user requirement, the alarm triggering application of two modes are different, please refer to the graphical description comparison as below:

- Alarm triggering condition of Disarming Mode mode:
  - 1. Forced open

- Alarm triggering condition of Arming Mode Arming mode:
- Exceed max. open time: Door is opened exceeding door maximum open time limit plus door close time.
- 2. Forced open: Access by force or illegal procedure, rather than valid card, PIN or biometric recognition.
- Door wedged: Controller restart after power has returned in power outage condition but door status abnormal.



Arming Setting and Alarm Trigger Procedure :

**Enable Arming** 

1.Normal Opening



Arming Delay TM



Enable Arming Status







Delay TM (b) Alarm Relay TM

Alarm trigger

Alarm Trigger

2. Abnormal Opening



Standby Mode

(Arming is not enable)







**Arming Status** 

Enable/Disable Arming status (for M4/M8):

Enter Programming Mode

Enable: Enter program mode → ★ # #

Disable: Enter program mode → ★ #

Without Enter Programming Mode (Standby Mode): Enter Arming Code (default value of arming PWD is: 1234)

After door open: The normal procedure to open door → Input 4-digit arming PWD → #

Do not open the door: ★ →Input 4-digit arming PWD → Present a valid card

- ※ [The normal procedure to open door] can refer to [Access Mode].
- ※ Read the [Command List-Arming /Duress Function Setting] below to modify arming PWD.

#### **More Details:**

SOYAL Security Related Function



## AR-321-H /AR-721-H/ AR-331-H AR-725-H / AR-757-H

## **Compound Command Function List**

Weighted Value Manual:

Step 1:

Select the **"Function"** that you need for each Compound Command category (20 \*), 24 \*, etc)

**-----**

**"Selection"** of the function that you need is either have 0 or 1 value.

Step 3:

Substract the "Value" of each Option with Selection.

Function = [0(deactive)\*Value]; [1(activate)\*Value]

Step 4:

Step 2:

Add up all of the Function per Compound Command (20 \*), 24 \*),etc)

### AR-321-H / AR-331-H / AR-721-H / AR-725-H / AR-757-H

20 * ??? #				
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

Select the desired function, Weighted Value = Selection Index (0 or 1) x Value.

[e.g.] ??? (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 # .

28 * ??? #								*Default Value
Function						Selection	Value	Application
Dual-door Control				ж́0: Disabl	е	1: Enable	064	Networking/Standalone
Force Open Alarm Output				ж́0: Disabl	е	1: Enable	128	Networking/Standalone

34 * ??? # ** ** ** ** ** ** ** ** ** ** ** ** *									
Function	Sele	ection	Value	Application					
Enable the RF after door sensor closed to GND		1: Activate	001	Networking/Standalone					
Invalid card to activate alarm relay	%0: Deactivate	1: Activate	002	Networking/Standalone					
Turn off all sounds of beeper		1: Activate	003	Networking/Standalone					
Mute the sounds of egress button (RTE)		1: Activate	004	Networking/Standalone					
Reserved	%0: Deactivate	1: Activate	016	Networking/Standalone					
Keep beeing while arming is enabled		1: Activate	032	Networking/Standalone					
Door relay connected to AR-721RB (suited to models without relay built-in)		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					

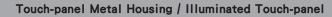
### AR-321-H / AR-331-H / AR-721-H / AR-725-H

24 * ??? #								
Function	S	election	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				
©Enable swipe any tags to release door open	涨0: Disable	1: Enable	032	Networking/Standalone				
Stop Alarm by pressing RTE Button or Closing the Door	0: None	※ 1: Yes	064	Networking/Standalone				
Doorbell		1: Enable	128	Networking/Standalone				

Add value 032 means to activate, deduct value of 032 means to disactivate the function of swipe any tags to release door open

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AR-757-H								
24 * ] ??? # ]								
Function	Sele	ction	Value	Application				
Auto Open without Presenting in Auto-open Time Zone		1: Enable	001	Networking/Standalone				
Lift Control/ Duress Function	※0: Duress	1:Lift Control	002	Networking/Standalone				
Stop Alarm by pressing RTE Button or Closing the Door	0: None	※1: Yes	064	Networking/Standalone				

## **Factory Reset**

Reset User Data	Reset User Data &Controller Parameter (incl. Master Code)	Reset User Data &Controller Parameter (incl. Master Code) & Reset Parameter Setting-SOR			
Enter program mode →29 ★ 29 ★ # → Exit the programming mode	Enter program mode →29 ★ 20 ★ # → Exit the programming mode	Enter program mode →29 ★ 21 ★ #) → Exit the programming mode			

How to change or reset different kinds of Controller Settings, including Master Code, Parameter Setting and User Data?

Comma	and List		(R					
	Function	Command	Description					
Master	Enter program mode	* PPPPPP #	PPPPP=Master Code, default value=123456					
Code Setting	Master code setting	09 * PPPPPPRRRRRR #	PPPPP=6-digit new maste <mark>r code RRRRR=R</mark> econfirm the ne <mark>w master</mark> code					
	Suspend tag	10 *SSSSS * EEEEE #	* = Suspend 9 = Delete;  SSSSS = Starting User Address;					
	Delete tag	10 * SSSSS 9 EEEEE #	EEEEE=Ending User Address					
Card	Add a batch of sequential cards by inputting card number (M6)	11 * SSSSS * EEEEE #	SSSS=Starting card number  EEEEE=Ending card number					
Setting Commands	Recover the suspended cards(M4/M8)	11 *SSSSS *EEEEE #	SSSS=Starting card number ; EEEEE=Ending card number					
	Card number modification(M4/M8)	16 * UUUUUU * SSSSSCCCCC #	UUUUU= User Address; SSSSS=5-digit site code; CCCCC= 5-digit card code					
	Add card by presenting(M4/M8)	19 * UUUUU * QQQQQ #	<b>UUUUU</b> =User Address; <b>QQQQQ</b> =Card quantity (00001: for adding a single card or a batch of random numbering cards)					
	Add/Delete tag by presenting(M6)	22 * N #	N=0(Delete tag); N=1(Add tag)					
	Delete all tags	29 * 29 * #						
	Enable/Disable Door open for any Tag	0 #	After enabling Door Open For Any Tag, all cards same frequency as controller can pass directly.					
	Mifare tag / card format (Optional) (M4/M8)	01 * N #	N:0=ISO14443A; 1=ISO14443B 2=ISO15693; 3=I Code1; 4=I Code2 PS.1. Please select the transmission standard first. 2. Ensure both reader and card using the same transmission standard.					
Additional Card Function Setting	Administrator Card setting (M4/M8)	07 *SSSSS *EEEEE #  (07 * Starting User Address * Ending User Address #)	SSSS-EEEE=00000-00255 (Administrator Card can enter the program mode after present the card and press # in 3 seconds, also can exit program mode by present the card.)					
	Enable the security trigger signal ( with AR-721RB)	34 * ??? #	Change the "Arming" to the security trigger signal, when controller is connected with AR-721RB.  Please refer to Compound Command Function <u>List</u> for details.					
	Control mode setting	04 * N #	N=4: M4; N=6: M6; N=8: M8					
Access Mode Setting	Card or PIN (M4/M8) Modify the PIN with user address, change the pass mode into Card or PIN	12 * UUUUU * ???? #	Pass by Card or PIN; UUUUU=User Address;????=4-digit PIN (0001~9999); 0000=Set as card only					
	Card and PIN (M4/M8) Modify the PIN with user address, change the pass mode into Card and PIN	13 *JUUUUU * ???? #J	Pass by Card and PIN; UUUUU=User Address; ????=4-digit PIN (0000~9999)					



# AR-321-H /AR-721-H/ AR-331-H AR-725-H / AR-757-H

Commi	and List		B		
	Function	Command	Description		
	Card or PIN(M6) Set up the mutual PIN in Card or PIN mode	15 * ???? #	????=4-digit PIN(0001~9999 ; default value=4321)		
Setting	Card and PIN(M6) Set up the mutual PIN in Card and PIN mode	17 * ???? #	????=4-digit PIN(0001~9999 ; default value=1234) 0000= Set as card only		
Arming /Duress Function Setting	Setting duress PWD(M4/M8)	15 * ???? #	????=4-digit PIN(0001~9999; default value=4321) %The Duress Code 0000 means that disable Duress Function and the default value is set as 0000 already.		
M4/M8 applicable , but not M6)	Setting arming PWD(M4/M8)	17 * ???? #	????=4-digit PIN(0001~9999 ; default value=1234)		
Node ID	Node ID setting (Connected to 716E)(M4/M8)	00 *NNN #	NNN=Node ID of Access Controller (range: 001~016)		
Setting	Node ID setting (Connected to the PC directly without 716E) (M4/M8)	00 *NNN *VVV *nnn #	NNN=Node ID of Access Controller (range: 001~254) VVV=Virtual 716E Node ID, nnn=Door number (range:001~254)		
	Door Relay Time setting	02 * TTT #	TTT=Door relay time 000= Output continuously 001~600=1~600 sec. 601~609=0.1~0.9 sec.		
	Alarm Relay Time setting	03 * TTT #	TTT=Alarm relay time 000= Output continuously 001~600=1~600 sec.		
	Arming Delay Time setting	05 * TTT #	TTT=the buffer time before entering arming mode 001~600=1~600 sec.		
Time /Delay Setting	Alarm Delay Time setting	06*TTT #	TTT=the buffer time before the alarm is activated 001~600=1~600 sec.		
	Arming Pulse Time setting	14 * TTT #	TTT=Arming output time; 000=output continuously 001~250=0.1~2.5 sec.		
	Door Close Time	18 * TTT #	TTT=Door Close Time: 001~600=1~600 sec.; default value: 15 sec.		
	Controller time clock setting	25 * YYMMDDHHmmss #	YYMMDDHHmmss=Year/ Month/ Day/ Hour/ Min./ Sec.		
	Same tag reading interval time	31 * TTTT #	TTTT=10~6000 (Base on 10ms, range from 10 to 6000; default value: 1 sec.: 0100)		
Controller Additional	Reader additional setting	20 * ??? #			
Function	Controller parameter setting	24 *) ??? #)	Please refer to Compound Command Function List for details.		
Setting	Dual-door Control / Force Open Alarm	28 * ??? #	noi details.		
	Auto-open time zone setting	08 * N * HHMMhhmm * 7123456H #	N= 0 (1st time zone) / 1 (2nd time zone) HHMM= Starting time; hhmm= ending time (i.e.: 08301600=08:30 to 16:00) 7123456H= 7 days of week (Sun/Mon/Tue/Wed/Thu/Fr Sat)+ Holiday(H= 0: disable; 1: enable); Holidays can be set by 701Client software.		
	Anti-pass-back (Enable user)	26 *  SSSSS *  EEEEE *  N #	SSSS=Starting User Address; EEEEE=Ending User Address; N=0: Enable; N=1: Disable; N=2: Reset		
	Enable/Disable keypad lock	* # (simultaneously)	After enabling keypad lock function, press any bu will only has two beeps and no reaction. Disable keypad lock function will bring controller keypad function keypad controllers have function ex. AR-721-H; Touch Keypad Controllers do have this function ex. AR-725-H)		
Lift	Controller parameter setting	24 * 002 #			
Control Setting	Lift control setting: multi-floor(M4/M8)	21 * UUUUU * S * FFFFFFF #	UUUUU=User Address, S=4 sets of lift control (0~3); FFFFFFFF=8 assigned floor(F=0: Disable, 1: Enable)		
	AR-401RO16 Lift Relay Activated TM (M4/M8)	23 * NNN * TTT #	NNN=site number, TTT= relay time: 000~600=1~600 sec.		
	Lift control setting: single floor(M4/M8)	27 *UUUUU * FF #	UUUUU=User Address; FF=Floor (01~32 floor)		
Exit	Exit program mode	*#			
Program Mode	Exit program mode and enter arming mode(M4/M8)	* * #			

\*\* More Details : Introduction of New Function Commands for Enterprise E Controller and Home H Controller