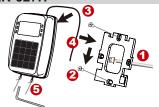


Installation

AR-327H



- Pull the cables from the square hole of the mounting plate.
- Use a screw to 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, the LED will light and hear the beep sound, you will see "Ready"" on LCD board.

AR-727H



- Attach the water proof strip to the mounting plate.
- 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, the LED will light and hear the beep sound, you will see "Ready"" on LCD board.

AR-327H 13.56MHz Notice



Do not cover all the sensing area





Revealing a row of number keys can make better sense result

Sensing range of metal controller is small, the proposed sensing card should step aside, do not fully cover number keys.

Notice

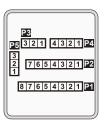
- 1.Tubing: The communication wires and power line should NOT be bound in the same conduit or tubing.
- 2.Wire selection: Use AWG 22-24 Shielded Twist Pair it sould avoid star wiring.
- **3.Power supply:** Don't equip reader and lock with the same power supply. The power for reader may be unstable when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

The standard installation: Lock relay and lock use the same power supply, and reader use independent power supply.

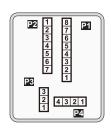
4.F4: At first time use, if appears no screen and green LED flashes, please press [F4] for 2 seconds.

Connector Table

AR-327H



AR-727H



Cable: P1

Wire Application	Pin	Color	Description				
Door Relay	1	Blue White	(N.O.)DC24V1Amp				
	2	Purple White	(N.C.)DC24V1Amp				
Common-COM-Point	3	White	(COM)DC24V1Amp				
Door contact	4	Orange	Negative Trigger Input				
Exit Switch	5	Purple	Negative Trigger Input				
Alarm Relay	6	Gray	N.O./N.C. Options				
			(by jumper)				
Power	7	Thick Red	DC 12V				
	8	Thick Black	DC 0V				

Cable: 23

Cubici C									
Wire Application	Pin	Color	Description						
Tamper Switch	1	Red	N.C.						
	2	Orange	COM						
	3	Yellow	N.O.						
Cable:P5 (Optional)									
			I=						

Cable: 25 (Optional)								
Wire Application	Pin	Color	Description					
3-PIN Connector	1	Black	GND.					
	2	White	DC 12V					
	3	Purple	Security trigger signal Output					

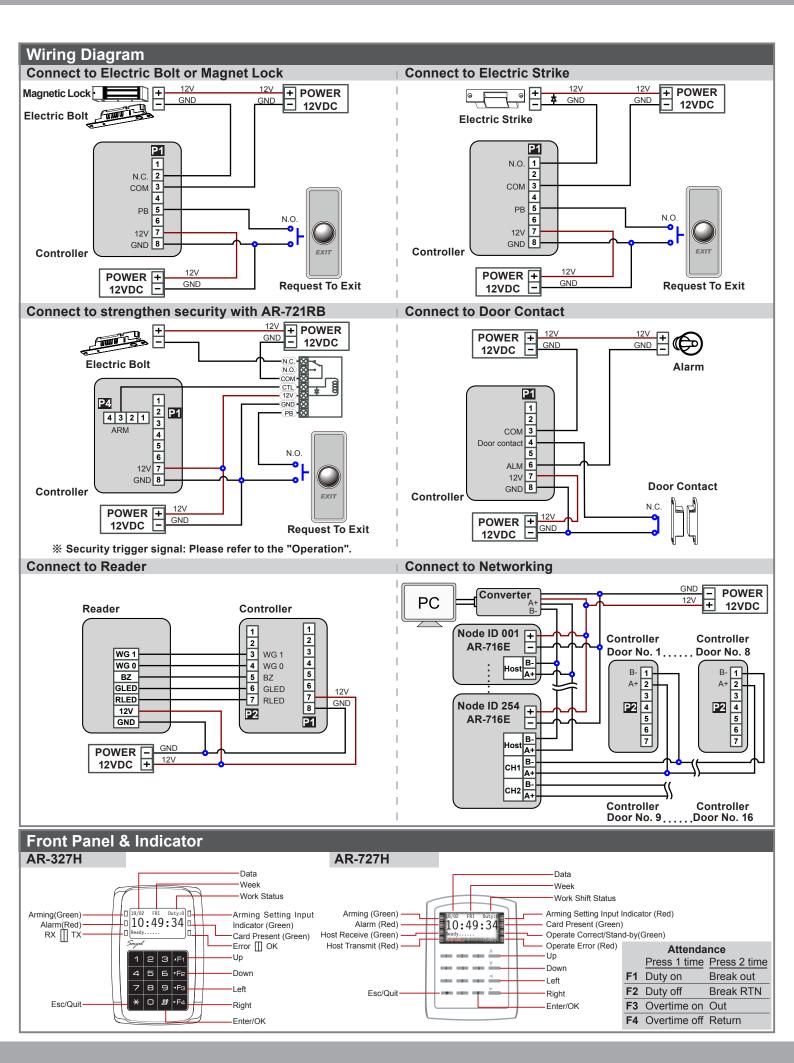
Cable: P2

Wire Application	Pin	Color	Description			
Networking	1	Thick Green	RS-485 (B-)			
	2	Thick Blue	RS-485 (A+)			
Wiegand	3	Blue	WG DAT: 1 Inpu			
			ABA Data Input			
	4	Green	WG DAT: 0 Input			
			ABA Clock Input			
Buzzer	5	Pink	Buzzer Output 5V/100mA, MAX			
LED	6	Brown	LED Green Output 5V/20mA, MAX			
	7	Yellow	LED Red Output 5V/20mA MAX			

Cable: P4

Wire Application	Pin	Color	Description
Arming Setting Input	1	Orange White	on ↓Latch type
Serial Port	2	Yellow White	Serial output (Transistor open collector) (4800, N,8,1)
Aming Status indication (light)	3	Red White	Arming output (Active low)/ Security trigger signal Output
Card existing indication	4	Brown White	Output LOW when card present

Metal Case / Standard



-CARD CODE

-SITE CODE



Adding and Deleting Card

Mode4/Mode8

Adding Card by Card ID

Enter program mode → 1 Add/Delete → 1 Add Card > ID → Input 5-digit user address → Input Site Code → Input Card Code

Adding Card RF Induction

Enter program mode → 1 Add/Delete → 2 Add > RF Learn → Input 5-digit user address → Input Tag Units(pcs) → Close Tag into RF Area to induct.

% For block Sequential cards, present the lowest card code card to the controller reader; for block random cards, present all the cards one by one to the controller reader.

• Deleteing User Address

Enter program mode → 1 Add/Delete → 5 Delete > Address → Input Start address → Input End address

Setting up the password

Enter program mode → 2 | User Setting → 1 | Password → Input 5-digit user address → Key in 4-digit PIN

Setting up the access mode

Enter program mode → 2 User Setting → 2 Access Mode → Input 5-digit user address → 1: Card; 2: or PIN; 3: & PIN; 4: Pause;

Mode6

XIn Mode6, user address is card code. Only suspend or recover to add or delete the cards.

Adding Card

Enter program mode → 1 Add/Delete → 7 Recover > Address → Input Start address → Input End address

* For block Sequential cards, input the lowest card code as starting user address and input the hightest card code as ending user address; for block random cards, input all the card codes one by one to the controller reader.

Enter program mode → 1 Add/Delete → 3 Suspend > Address → Input Start address → Input End address

M6 access mode setting procedure is the same as the arming password/duress code setting procedure in M4.

Enter program mode → 3 Parameters[1] → 8 Arming PWD → Input: 0000

Card and PIN

Enter program mode → 3 Parameters[1] → 8 Arming PWD → Key in 4-digit PIN [0001~9999, default value: 1234]

Enter program mode → 4 | Parameters[2] → 8 | Duress Code → Key in 4-digit PIN [0001~9999, default value: 4321]

Operation

A. Keyboard Lock/ Unlock

Lock/ Unlock

Hold down * and # buttons in simultaneously to lock/unlock the keyboard.

B. Enter/Escape Program Mode

Enter program mode

Input * 123456 # or * PPPPPP # (PPPPPP modified Master Code; Default= 123456)

[e.g.] If the Master Code= 876112, input ★ 876112 # → Enter program mode

※ If without any operation for 30 seconds access controller will escape program mode.

Escape program mode

Changing the Master Code

Press ★ continuously → 6 Quit Enter program mode → 5 Tools → 2 Master Code → Input the 6-digit new master code → Succeeded

C. Initial Setup

Restoring Factory Settings

Enter program mode → 4 Parameters[2] → 9 Factory Reset → select [1: Yes] → Succeeded...

Changing the Language

Enter program mode \rightarrow [5] Tools \rightarrow [1] Language \rightarrow [1] EN \rightarrow Succeeded...

Review the old events

Enter program mode \rightarrow 5 Tools \rightarrow 0 View Events \rightarrow the display will show the history events.

. Changing the Node ID of Reader

Enter program mode → 3 Parameters[1] → 1 Node ID → Input New Node ID:1~254(default value: 001)

→ Input: 1~4 to Show Card ID format? (1.No, 2.WG, 3.ABA, 4.HEX) → Input Door number H: 1~254(door

No. of its controllen) → Input Door number L: 1~254(door No. of reader) → Succeeded

[e.g.] AR-327H is the 8th slave reader under the 16th AR-716E.

Door-H input 1 6 (door NO. of controller); **Door-L** input 8 (door No. of the reader).

[e.g.] AR-727H is a controller and its Node ID is 8.

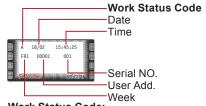
Door-H input 8; Door-L input 8

D. Security Trigger Signal * First Update the Firware to 7v4_T2 later

Enable the Security Trigger signal

Enter program mode → 3 Parameters[1] → 9 Arming Pulse → Input [10](default value:1000) → become the Security Trigger signal Output

* If Request To Exit connect to [AR-721RB], the Request To Exit can control the lock immediate.





Tag Information

SITE CODE

-CARD CODE

A: Duty On 01: PWD/PIN Error B: Duty Off 03: Invalid Card C: Overtime On 04: Time-zone Error D: Overtime Off 11: Normal Access E: Break Out 16: Egress (Request to exit) F: Break RTN 17: Alarm G: Out 31: Anti-pass back Error H: Return

FC CE MA SOR

Metal Case / Standard

E.Control Mode (M4/M6/M8)

Enter program mode → 5 Tools → 9 Control Mode → 1:M4, 2:M6, 3:M8 (refer to following table) → Succeeded

Mode	Networking/ Standalone	User Capacity	Access Mode	Auto-show Duty time	Event log Capacity	120 Holidays	Anti force	Time Zone	Lift Control	Anti-pass back
M4	Networking/ Standalone	1,024(727H) 3,000(327H)	1.Card only 2.Card and PIN (4-digit PIN) 3.Card or User address (5-digit) + Individual PIN (4-digit individual PIN)	Yes	1,200(727H) 1,500(327H)	Yes	Yes	11	32	Yes
M6	Standalone	65,535	1.Card only 2.Card and PIN (4-digit public PIN= Arming PWD) 3.Card or PIN (4-digit public PIN= Duress code)	No	No	No	No	No	No	No
M8	Networking/ Standalone	1,024(727H) 3,000(327H)	1.Card only 2.Card and PIN (4-digit individual PIN) 3.Card or PIN (4-digit individual PIN)	Yes	1,200(727H) 1,500(327H)	Yes	Yes	11	32	Yes

** The users up to 65,535 in Mode 6, since it reads CARD CODE(5 digits) only, unlike that Mode4/Mode8 read SITE CODE and CARD CODE(10 digits).

F. Anti-Pass Back(M4/M8 only)

Usually, anti-pass back is commonly applied to parking lots in order to prevent from multi-entry with one card, requires to set bith card and device as the flowings:

Device set-up

Enter program mode → 4 | Parameters[2] → 7 | Anti-pass back → 1: Yes; 2: No;(select one) → 1: In; 2: Out;(select one)

Card set-up

Enter program mode → 1 Add/Delete → 9 Antipass Group → Input Start address → Input End address → 1: Yes; 2: No;(select one)

G. Lift Control

Connect with AR-401RO16B to control which floors the user will be able to access.

Setting Lift control

Enter program mode \rightarrow 5 Tools \rightarrow 4 Termingal Port \rightarrow 1: AR-401RO16

Single floor set-up

Enter program mode → 2 User Setting → 4 Single Floor → Input 5-digit user address → Input single floor number: 1~32

Multi floors set-up

Enter program mode → 2 User Setting → 5 Single Floor → Input 5-digit user address → Select range: 1 or 2 → Input 16 digits multi floors number [0:disable, 1: enable]

[e.g.] Set NO. 114, to access the 8th and the 16th floors.

Enter program mode → 2 User Setting → 5 Single Floor → 114 # → 1 # → 000000100000001 #

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

H.Arming Mode

- Conditions:
 - 1.Arming is enabled
 - 2. Alarm system connected

• Enable/Disable Arming Mode:

- Application:
 - 1. Door left open warnings: these are generated when the door is held open for longer than the lock relay time and door
- 2. Force open (Unauthorized access alarms): these are generated when a door is opened without a valid card being presented or a request to exit signal being received.
- 3. Door contact error: when the controller in arming status and power failure, reset power may activate alarm system.

Enable Arming Mode	Disable Arming Mode
Program Mode	
Enter program mode → 7 Quit & Arming	Enter program mode → 6 Quit
Door Open	
Access Mode → Input 4 digit arming code → #	Access Mode → Input 4 digit arming code → #
Door Close	
★ → Input 4 digit arming code → Present the card to the controller reader	★ → Input 4 digit arming code → Present the card to the controller reader

Manu Tree

1. Add/ Delete

- 1. Add Card >ID
- 2. Add > RF Learn
- 3. Suspend > Address
- 4. Suspend > ID # 5. Delete > Address
- 6. Delete > ID #
- 7. Recover > Address
- 8. Recover > ID #
- 9. Antipass Group

2. User Settings

- Password
- 2. Access Mode
- 3.Extend Options
- 4. Single Floor
- 5.Multi Floor

3. Parameters[1]

- 1. Node ID
- 2. Auto open Zone
- 3. Door Relay Tm
- 4. Door Close Tm
- 5. Alarm Relay Tm
- 6. Alarm Delay Tm 7. Arming Delay Tm
- 8. Arming PWD
- 9. Arming Pulse
- 0. Auto Alarm Tm

4. Parameters[2]

- 1. Auto Relock
- 2. Egress(R.T.E)
- 3 Attendance
- 4. Master Node
- 5. Force Open
- 6. Close & Stop
- 7. Anti-pass-back
- 8. Duress Code
- 9. Factory Reset 0. Key (#) is Bell

5. Tools

- 1. Language
- 2. Master Code
- 3. Master Range
- 4. Terminal Port
- 5. AR401RO16 Node
- 6. Open Time Zone
- 7. Information
- 8. Clock Setting 9. Control Mode
- 0. View Events

7. Quit & Arming

6. Quit