

Contents AR-327H [Metal Case] Products User Guide Terminal Cables 4 Tools Water proof Strip mmmmmm ZUTTUTUTUTU ® A. **AR-727H** 6 Water proof Strip Products User Guide **Terminal Cables** 4 Tools UUUUUUU

Installation

AR-327H



В.

- 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, 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.

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.

Cable: Pt

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.

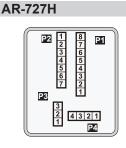
The standard installation: Door relay and lock use the same power supply, and reader use independent power supply.

Connector Table

AR-327H



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Cable:			
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 Sensor	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: P3									
Wire Application	Pin	Color	Description						
Tamper Switch	1	Red	N.C.						
	2	Orange	COM						
	2	Vallann	NO						

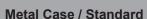
Cable: P2

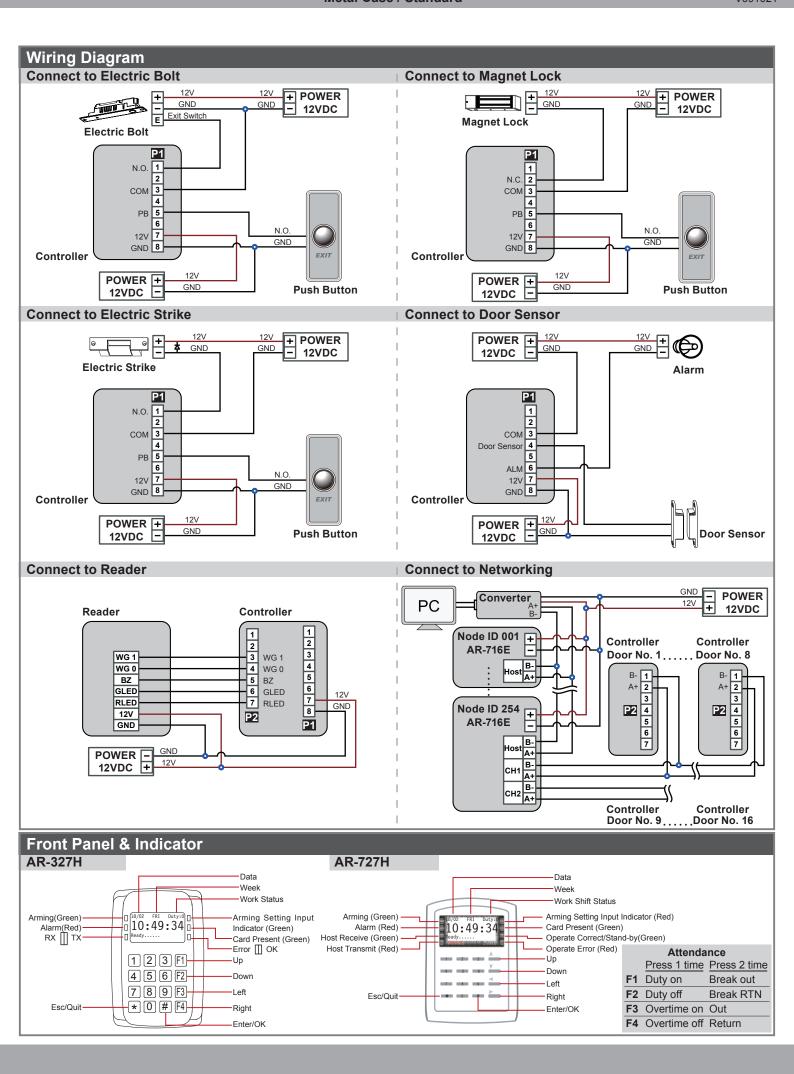
Wire Application	Pin	Color	Description
Networking	1	Thick Green	RS-485 (B-)
	2	Thick Blue	RS-485 (A+)
Wiegand	3	Blue	WG DAT: 1 Inpu
			ABA Clock Input
	4	Green	WG DAT: 0 Input
			ABA Data Input
Buzzer	5	Pink	Buzzer Output 5V/100mA, MAX
LED	6	Brown	LED Green Output 5V/20mA, MAX
	7	Yellow	LED Red Output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

Cable: P4

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

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-CARD CODE

-SITE CODE

Tag Information

SITE CODE

-CARD CODE



Adding and Deleting Tag

Mode4/Mode8

Adding Tag by Tag ID

Access programming mode → 1]Add/Delete → 1]Add Card > ID → Input 5-digit user address → Input Site Code → Input Card Code

Adding Tag RF Iduction

Access programming 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 a batch of Sequential tags, present the tag of the lowest number to the controller; for a batch of non-sequential tags, present all the tags one by one to the controller.



Access programming mode → 1 Add/Delete → 5 Delete > Address → Input Start address → Input End address

Setting up the password

Access programming mode → 2 User Setting → 1 Password → Input 5-digit user address → Key in 4-digit PIN

Setting up the access mode

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

Mode6

*In Mode6, user address is card code. Only suspend or recover to add or delete the tags.

Adding Tag

Access programming mode → 1 Add/Delete → 7 Recover > Address → Input Start address → Input End address

** For a batch of **Sequential tags**, present the tag of the **lowest number** to the controller; for a batch of non-sequential tags, present all the tags one by one to the controller.

Deleting Tag

%In this mode, the access controlled by the Arming PWD and Duress Code.

Card Only

Access programming mode → 3 Parameters[1] → 8 Arming PWD → Input: 0000

Card and PIN

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

Card or PIN

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

Operation

A. Keyboard Lock/ Unlock

Lock/ Unlock

Push both * and # buttons at same time to lock the keyboard. Push both * and # at same time again to unlock the keyboard.

B. Enter/Exit Programming Mode

Entering

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

[e.g.] If the Master Code= 876112, input \bigstar 876112 # \rightarrow Programming mode accessed

* It leaves the programming mode 30 seconds without pushing any button.

Exiting

Press ★ repeatedly → 6 Quit

Changing the Master Code

Access programming mode → 5 Tools → 2 Master Code → Input the 6-digit new master code → Succeeded

C. Initial setup

• Restoring Factory Settings

Access programming mode → 4 | Parameters[2] → 9 | Factory Reset → select [1: Yes] → Succeeded...

Changing the Language

Access programming mode \rightarrow 5 Tools \rightarrow 1 Language \rightarrow 1 EN \rightarrow Succeeded...

Review the old events

Access programming mode \rightarrow 5 Tools \rightarrow 0 View Events \rightarrow the display will show the history events.

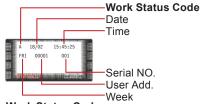
Changing the Node ID of Reader

Access programming mode \rightarrow 3 Parameters[1] \rightarrow 1 Node ID \rightarrow Input New Node ID:1~254(default value: 001) \rightarrow Input: 1~4 to Show Card ID format? (1.No, 2.WG, 3.ABA, 4.HEX) \rightarrow Input Door number H: 1~254(door No. of its controllen) \rightarrow Input Door number L: 1~254(door No. of reader) \rightarrow 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



Work Status Code:

A: Duty On
B: Duty Off
C: Overtime On
D: Overtime Off
E: Break Out
O1: PWD/PIN Error
O3: Invalid Card
O4: Time-zone Error
O4: Time-zone Error
O5: Egress (Request to exit)

F: Break RTN 17: Alarm

G: Out 31: Anti-pass-back Error

H: Return

LCD Access Controller

Metal Case / Standard

V091021

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D.Setting up the control mode (M4/M6/M8)

Access programming mode → 5 Tools → 9 Control Mode → 1:M4, 2:M6, 3:M8(refer to below chart) → Succeeded

Mode	Networking/ Stand-Alone	User Capacity	Access Mode	Auto-show Duty time	Event log Capacity	120 Holidays	Anti force	Time Zone	Lift Control	Anti-pass- back
M4	Networking/ Stand-Alone	1,024 (0~1,023)	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	Yes	Yes	11	32	Yes
M6	Stand-Alone	65,535 (1~65,535)	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/ Stand-Alone	1,024 (0~1,023)	1.Card only 2.Card and PIN (4-digit individual PIN) 3.Card or PIN (4-digit individual PIN)	Yes	1,200	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).

E. 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

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

Card set-up

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

F. Lift control

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

Setting Lift control

Access programming mode \rightarrow 5 Tools \rightarrow 4 Termingal Port \rightarrow 1: AR-401RO16

Single floor set-up

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

Multi floors set-up

Access programming 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.

Access programming mode → 2 | User Setting → 5 | Single Floor → 114 # | → 1 # | → 000000100000001 # |

	Set	Floor															
		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
Γ		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

G.Setting Up the Arming

- Conditions:
 - 1. Arming is enabled
- 2. Alarm system connected
- Application:
 - 1. Door open over time: 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: When power is off and turn back on, reader on arming bffore power off.

• Enable/Disable Arming status:

Standby Mode								
Card only		Card or Passcode	Card and Passcode					
After door open	Door is not open	Input 5 digit user address →	Induct valid card → Input 4 digit					
Induct valid card → Input 4 digit	* → Input 4 digit arming code	Input 4 digit pass code → # →	pass code → # → Input 4 digits					
arming code → #	→ Induct valid card	Input 4 digits arming code → # arming code → #						
Enter Program Mode								
Enable: Access programming mode → 7 Quit & Arming Disable: Access programming mode → 6 Quit								

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
- 0. View Events
- 9. Control Mode

7. Quit & Arming

6. Quit