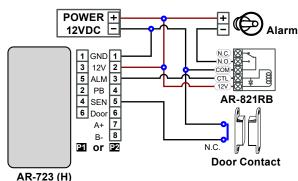
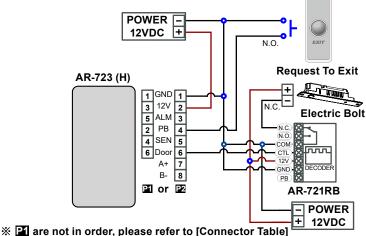


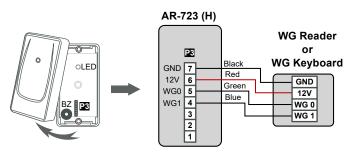
Connect to Door Contact and Alarm



are not in order, please refer to [Connector Table]



Connect to Reader or Keyboard

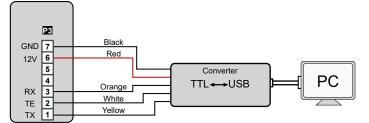


- Please unload the cover before plug in P3 cable.
- If you need to use 24 cable, unplug 23 cable and then plug in 24 cable.

About Master Card

MASTER CARD Setting for Stand-Alone

Plug in 2 cable instead of cable, the wire connection is as below figure. After connection, then have power transmission to controller.



Use the MASTER CARD software



323DMaster

- Input the MASTER CARD number, and press [Write].
- Cut off and then transmit the power, the master card number will be activated.
- 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.lf MASTER CARD is presented again, it will exit programming mode.

Adding Tag



- 1. Present Master Card
- After 3 short beeps [Access programming mode]
- 3. Present the new card or cards one by one till finished the adding.
- Present Master Card [Exit programming mode]

Deleting All Tags



1

O COM2

Card 001

ter Card 001

Master Card 001

⊙ COM1

- 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

Node ID

Exit

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

Operation process

A. Enter/ Exit Program Mode

• Enter the program mode

Input *123456 # or * PPPPPP #

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

Exit the program mode

Input * #

Master Code modification

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

B. Set up the password [Only for connect to external K-series reader]

• M4/M8: Individual pass code

Card or PIN: Access programming mode → 12 ★JUUUUU ★PPPP # [e.g. User address: 00001 and pass code: 1234, input 12 ★J00001 ★ 1234 #]

Card and PIN: Access programming mode → 13 ★JUUUUU ★PPPP # [e.g. User address: 00001 and pass code: 1234, input 13 ★J00001 ★ 1234 #]

• M6: Public pass word

Card or PIN: Access programming mode → 15 * PPPP # Input 4-digit pass code, default value: 4321]

Card and PIN: Access programming mode → 17 * PPPP # [Input 4-digit pass code, default value: 1234; PPPP=0000: change into Card Only]

C. Lift control

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

Enable

Access programming mode → 24 ★ 002 # [002= enable lift control]

Single floor

Access programming mode \rightarrow 27 \bigstar UUUUU \bigstar FF #

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

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

Multi floors

Access programming mode → 21 * UUUUU * S * FFFFFFF #

[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:

Access programming mode \rightarrow 21 * |00168 * |0 * |00100000 # | \rightarrow 21 * |00168 * |2 * |00001000 # |

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	
3	32	31	30	29	28	27	26	25	



D. Setting Up the Arming [Only for connect to external K-series reader]

- 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; Factory default armingcode is: 1234) :

Standby Mode						
After door open	Do not open the door					
The normal procedure to open door → Input 4 digit arming code → #	★ → Input 4 digit arming code → Present valid card					
Enter Program Mode						
Enable: Access programming mode → ★ ★ #	Disable: Access programming mode → ★ #					

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

Function Default Value

20 * DDD # **Default Value							
Function	Selec	tion	Value	Application			
Attendance		1: No	001	Networking			
Auto Re-lock		1: Enable	002	Networking/Stand-Alone			
Auto Open		1: Enable	004	Networking/Stand-Alone			
Door open button input	0: Disable		016	Networking/Stand-Alone			
Master Controller of Network		1: Mater	032	Networking			

24 * DDD # *Default Value						
Function	Selec	tion	Value	Application		
Auto-open door without cards at auto open zone		1: Enable	001	Networking/Stand-Alone		
Alarm Output/ Lift Control	※0: Alarm Output	1: Lift Control	002	Networking/Stand-Alone		
Stop Alarm by door close or by push button	0: None	※ 1: Yes	064	Networking/Stand-Alone		

28 * DDD #							
Function	Sel	Selection		Application			
Dual Door Control		1: Enable	064	Networking/Stand-Alone			
Force Open Alarm Output		1: Enable	128	Networking/Stand-Alone			

Selection= 0(none value)/ 1(1 x each value)

[e.g.] DDD value of Enable "Auto Open" + "Exit by Push Button + "Anti-pass-back"

=(0x1)+(0x2)+(1X4)+(1x16)+(0x32)+(0x64)+(1x128)=148; As a result of that, the command will be 20 * 148 #

Mode4 / Mode6 / Mode8

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	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	No	32	Yes
M6	Stand-Alone	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	1.Card only 2.Card and PIN (4-digit individual PIN)+ # 3.Card or PIN (4-digit individual PIN)	Yes	1,200	Yes	Yes	No	32	Yes

^{**} Mode 6, the number of users up to 65535, since it reads CARD CODE(5 digits) only, unlike that Mode4/Mode8 read SITE CODE and CARD CODE(10 digits).
If Access Mode setting to use the PIN, it need to external the K-series Readers.

Factory Reset by its commands

• When the device is stand-alone (not networking)

Access programming mode \rightarrow 20 * 016 # \rightarrow 24 * 064 # \rightarrow 26 * 00000 * 01023 * 1 # \rightarrow 28 * 000 # \rightarrow 29 * 29 * # \rightarrow %Note: After the Master Code is changed, factory reset doesn't restore the Master Code back to 123456.



	and List					
Function		Command	Description	Mode		
Entering progr	amming mode	* PPPPPP #	PPPPP=Master Code, default value=123456	M4/M6/M8		
Exiting progra	mming mode	* #		M4/M6/M8		
Exiting program	ming mode and enabling arming status	* * #		M4/M8		
Node ID setting	(Connecting to 716E	00 * NNN #	NNN=Node ID, range: 001~254	M4/M8		
Node ID setting (Connecting to PC directly without		00 * NNN * VVV * nnn #	NNN=Node ID of Access Controller, VVV=Virtual 716E Node ID,	M4/M8		
via 716E)		OU NINN AVV AIIIII #	nnn=Door number; range:001~254	IVI4/IVIO		
Mifare tag / card format (Optional)		01 * N #	N: 0=ISO14443A; 1=ISO14443B; 2=ISO15693; 3=I Code1; 4=I Code2 PS.1. Please select the compliance,first. 2. Make sure reader and card using the same compliance.	M4/M8		
Door relay time	e setting	02 * TTT #	TTT=Door relay time 000= Output constantly 001~600=1~600 sec. 601~609=0.1~0.9 sec.	M4/M6/M8		
Alarm relay tim	ne setting	03 * TTT #	TTT=Alarm relay time 001~600=1~600 sec.	M4/M6/M8		
Control mode s	-	04 * N #	N=Mode 4=Mode4; 6=Mode6; 8=Mode8	M4/M6/M8		
Arming delay t		05 * TTT #	TTT=Alarm relay time 001~600=1~600 sec.	M4/M6/M8		
Alarm delay tin	-	06 * TTT #	TTT=Alarm delay time 001~600=1~600 sec.	M4/M6/M8		
	<u>-</u>		SSSSS-EEEE=00000-01023 (00000-03000 for AR-725H);			
Master card se	tting	07 * SSSSS * EEEEE #	SSSS=Starting user address; EEEEE=Ending user address	M4/M8		
Auto-open time zone setting		08 * N * HHMMhhmm * 6543217H #	N= 0(1st time zone) / 1(2nd time zone) HHMM= Starting time; hhmm= ending time (i.e.: 08301200=08:30 to 12:00) 6543217H= 7 days of week (Sat/Fri/Thu/Wed/Tue/Mon/Sun)+ Holiday (F= 0: disable; 1: enable); Holidays establish by the software.	M4/M6/M8		
Master code se	etting	09 * PPPPPPRRRRRR #	PPPPP=New master code RRRRR=Repeat the new master code	M4/M6/M8		
	Suspend tag(M6)	10 * SSSSS * EEEEE #	*=Suspend 9 =Delete;	M4/M6/M8		
Setting	Delete tag(M4)	10 * SSSSS 9 EEEEE #	SSSSS=Starting user address, EEEEE=Ending user address	M6		
Set a seguence	of cards as "read and access"	11 * SSSSS * EEEEE #	SSSSS=Starting card number; EEEEE=Ending card number	M4/M8		
Active the sus		11 * SSSSS * EEEEE #	SSSSS=Starting user address; EEEEE=Ending user address	M4/M8		
	as Card mode OR PIN mode by user	THE COOL OF THE PARTY OF THE PA	Access mode: Card or PIN; UUUUU=user address;	101-171010		
ıddress	is cara mode on the mode by user	12 * UUUUU * PPPP #	PPP=4-digit pass code 0001~9999	M4/M8		
	as Card AND PIN mode by user	13 * UUUUU * PPPP #	Access mode: Card and PIN; UUUUU=user address; PPPP=4-digit pass code 0001~9999	M4/M6/M8		
M4: Duress co M6: Public PIN	de setting setting (Card or PIN)	15 * PPPP #	PPPP=4-digit pass code (default value=4321) PS. Duress code will be unavailable and become a public PIN at access mode "Card or PIN" of M6	M4/M8		
Card number n	nodification	16 * UUUUU * SSSSSCCCCC #	UUUUU= User address; SSSSS=5-digit site code; CCCCC=5-digit card code	M4/M6/M8		
	pass code setting IN setting (Card and PIN)		PPPP=4-digit pass code (default value=1234; disable Arming PWD=0000) P.S. Arming PWD code will be unavailable and become a public PIN at access mode "Card PIN" and of M6	M4/M6/M8		
Door open wai	ting time	18 * TTT #	TTT=Door open waiting time: 001~600=1~600 sec.; default value: 15 sec.	M4/M8		
Add card by presenting (M4)		19 * UUUUU * QQQQQ #	UUUUU=User address; QQQQQ=Card quantity(00001=Continuously inducting)	M4/M6/M8		
Reader additio	nal setting	20 * DDD #	Please refer to function default value for details.	M4/M6/M8		
Lift control setting: multi-doors		21 * UUUUU * S * FFFFFFF #	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 induction (M6 only)	22 * N #	N=0(Delete tag); N=1(Add tag)	M6		
AR-401ROsite	number dip switch	23 * NNN * TTT #	NNN=site number, TTT= relay time: 000~600=1~600 sec.	M4/M8		
ontroller para	meter 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; N=0/Enable; N=1/Disable; N=2/Initial	M4/M8		
	tting	27 * UUUUU * FF #	UUUUU=User Address; FF=Floor (01~32 floor)	M4/M8		
Single floor se			Discount for the formation of the state of t	M4/M6/M8		
	/ Active or inactive arming for force open	28 * DDD #	Please refer to function default value for details.	IVI-+/IVIO/IVIC		
Dual door contro	// Active or inactive arming for force open	28 * DDD # 29 * 29 * #	Please refer to function default value for details.	M4/M6/M8		
Delete all tags	// Active or inactive arming for force open	3 3	To Change the "Door Lock" become the security trigger signal, when			