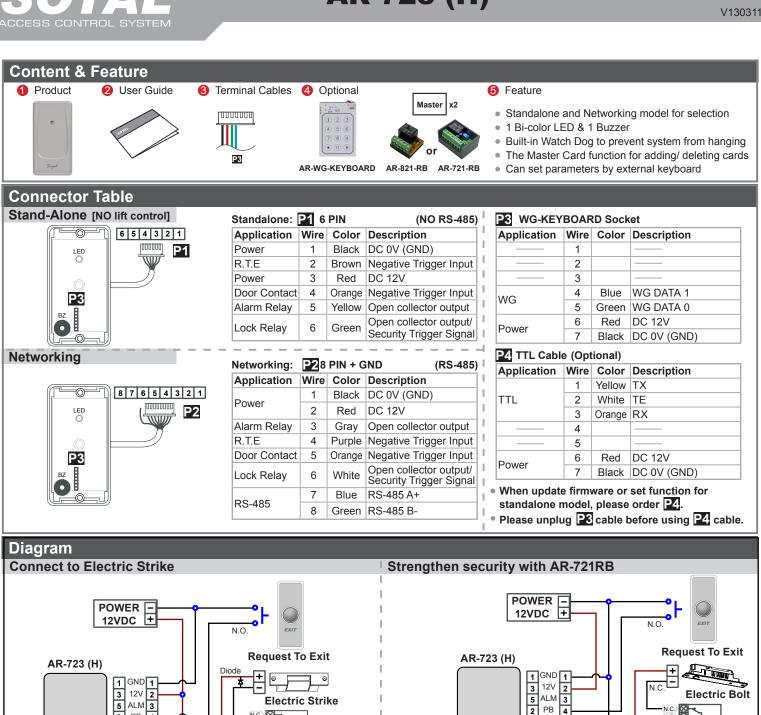
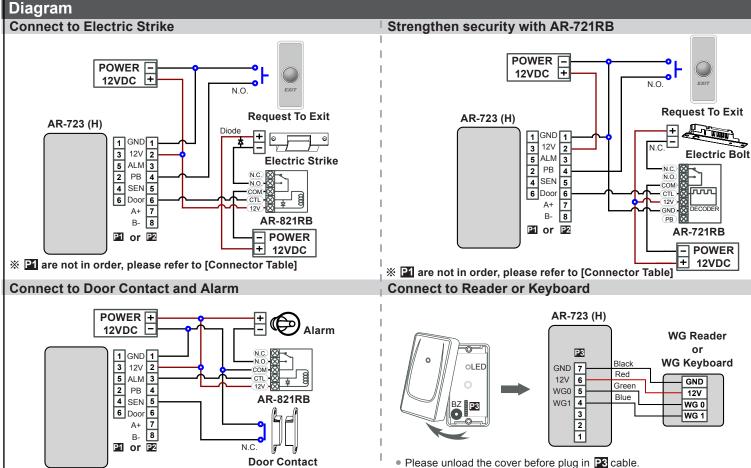
* are not in order, please refer to [Connector Table]



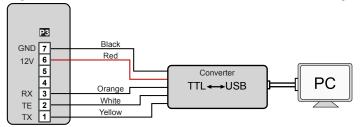


• If you need to use P4 cable, unplug P3 cable and then plug in P4 cable.

About Master Card

MASTER CARD Setting for Stand-Alone

• Plug in 🔀 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

ster Card 001

⊙ COM1

- 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 \rightarrow 12 * UUUUU * PPPP # [e.g. User address: 00001 and pass code: 1234, input 12 * 00001 * 1234 #] Card and PIN: Access programming mode \rightarrow 13 * UUUUU * PPPP # [e.g. User address: 00001 and pass code: 1234, input 13 * 00001 * 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 | # |

| 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 | |



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 Valu | | | | | | | |
|------------------------------|-------------|------------|-------|------------------------|--|--|--|
| Function | Selec | ction | Value | Application | | | |
| Attendance | %0: Yes | 1: No | 001 | Networking | | | |
| Auto Re-lock | %0: Disable | 1: Enable | 002 | Networking/Stand-Alone | | | |
| Auto Open | %0: Disable | 1: Enable | 004 | Networking/Stand-Alone | | | |
| Door open button input | 0: Disable | %1: Enable | 016 | Networking/Stand-Alone | | | |
| Master Controller of Network | %0: Slave | 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 # *Default Value | | | | | | | |
|-----------------------------|-----|-----------|-----|------------------------|--|--|--|
| 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 \bigstar 016 # \rightarrow 24 \bigstar 064 # \rightarrow 26 \bigstar 00000 \bigstar 01023 \bigstar 1 # \rightarrow 28 \bigstar 000 # \rightarrow 29 \bigstar 29 \bigstar # %Note: After the Master Code is changed, factory reset doesn't restore the Master Code back to 123456.



| Function | and List | Command | Description | Mode | |
|--|---|--------------------------------|--|----------------------|--|
| Entering progra | amming mode | * PPPPPP # | PPPPP=Master Code, default value=123456 | M4/M6/M8 | |
| Exiting program | | * # | TTTTT - Waster Code, default value - 125456 | M4/M6/M8 | |
| | - | | | M4/M8 | |
| | ming mode and enabling arming status | | MMM-Mode ID, renge, 004, 254 | | |
| | (Connecting to 716E | 00 * NNN # | NNN=Node ID, range: 001~254 | M4/M8 | |
| Node ID setting (Connecting to PC directly without via 716E) | | 00 * NNN * VVV * nnn # | NNN=Node ID of Access Controller, VVV=Virtual 716E Node ID, nnn=Door number; range:001~254 | M4/M8 | |
| | d format (Optional) | 01 *N# | N: 0=ISO14443A; 1=ISO14443B; 2=ISO15693; 3=I Code1; 4=I Code2 PS.1. Please select the compliance,first. | M4/M8 | |
| Door relay time setting | | 02 *TTT # | 2. Make sure reader and card using the same compliance. 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 | e 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 ti | | 05 * TTT # | TTT=Alarm relay time 001~600=1~600 sec. | M4/M6/M8 | |
| Alarm delay tim | - | 06 * TTT # | TTT=Alarm delay time 001~600=1~600 sec. | M4/M6/M8 | |
| | | | SSSS-EEEE=00000-01023 (00000-03000 for AR-725H); | | |
| Master card set | ting | 07 * SSSSS * EEEEE # | SSSSS=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 | tting | 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 | |
| Sot a soguence | of cards as "read and access" | 11 * SSSSS * EEEEE # | SSSSS=Starting card number; EEEEE=Ending card number | M4/M8 | |
| | | | | | |
| Active the susp | | 11 *SSSSS *EEEEE # | SSSSS=Starting user address; EEEEE=Ending user address | M4/M8 | |
| set the cards a address | s Card mode OR PIN mode by user | 12 * UUUUU * PPPP # | Access mode: Card or PIN; UUUUU=user address; PPPP=4-digit pass code 0001~9999 | M4/M8 | |
| Set the cards | 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 cod M6: Public PIN : | le setting setting (Card or PIN) | 15 * PPPP # | PPPP=4-digit pass code (default value=4321) P.S. Duress code will be unavailable and become a public PIN at access mode "Card or PIN" of M6 | M4/M8 | |
| Card number m | odification | 16 * UUUUU * SSSSSCCCC # | UUUUU= User address; SSSSS=5-digit site code; CCCCC=5-digit card code | M4/M6/M8 | |
| M4: Arming pas M6: Public PIN | ss code setting setting (Card and PIN) | 17 * PPPP # | PPPP=4-digit pass code (default value=1234; disable Arming PWD=0000) PS. Arming PWD code will be unavailable and become a public PIN at access mode "Card PIN" and of M6 | M4/M6/M8 | |
| Door open wait | ing time | 18 * TTT # | TTT=Door open waiting time: 001~600=1~600 sec.; default value: 15 sec. | M4/M8 | |
| Set the card by | induction (M4) 19 * UUUUU * QQQQQ # | | UUUUU=User address; QQQQ=Card quantity(00001=Continuously inducting) | M4/M6/M8 | |
| Reader addition | nal setting | 20 * DDD # | Please refer to function default value for details. | M4/M6/M8 | |
| Lift control sett | ting: 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 r | number dip switch | 23 *NNN * TTT # | NNN=site number, TTT= relay time: 000~600=1~600 sec. | M4/M8 | |
| Controller 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 | | | SSSS=Starting user address; EEEEE=Ending user address; N=0/Enable; N=1/Disable; N=2/Initial | M4/M8 | |
| Single floor set | ting | 27 * UUUUU * FF # | UUUUU=User Address; FF=Floor (01~32 floor) | M4/M8 | |
| | Active or inactive arming for force open | 28 * DDD # | Please refer to function default value for details. | | |
| | | 29 * 29 * # | *************************************** | M4/M6/M8 M4/M6/M8 | |
| Delete all tags Enable the security trigger signal (with AR-721RB) | | | T. Control of the Con | | |