

3. Specification Mode Description:

MODE

Soyal AR721HV3 hardware operation manual

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1. INTRODUCTION

Getting to know your SOYAL Proximity Reader....

The AR-721HV3 & AR-721HV1356 are smart single door controller. It built-in a 6" RF reader and an external reader port for exit or anti-pass-back use. It can work standalone including 1000 cardholders with anti-pass-back function. Or connect with multi-door networking controller to provide 15,000 cardholders with multi door anti-pass-back access control. About networking of AR-721H series. Once the network communication stop over 10 seconds on the RS-485 port. It will auto enter standalone control mode .

Notice:

The reader of AR-721HV2 owns the same functions as AR-721HV3 except for Calendar & Time system supporting and 1,200 Transaction Buffer features.

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2. Features

- Calendar & Time system supporting.
- Providing proximity card flash edit mode for easy & quick setting.
- Two Sets of Auto-Open Zone Function. Built-in opened door relay, alarm relay
- and request to exit button input. • Up to 1,200 Transaction Buffer.
- Master Card Range assignable.
- Run as a standalone controller during Host controller failure.
- Support Auto-relock Function.
- Universal serial port supported for LED display, printer, Lift controller, etc.
- Intergrades any brand, any frequency of Wiegand reader with soyal or other access control systems.

000 000

000

0 0 0

- Keypad will be locked for 30 seconds while continuous error operation.
- Press [*] + [#] to lock / unlock keypad immediately.
- Built-in watchdog to prevent the system from halting.
- Door unlock time setting, latched-on/latched-off or momentary 0.1-600 seconds.
- Alarm function is available (temper, force entrance, door open too long, duress).
- 12 numeric keypad, 1 bicolor LED (green and red) and buzzer indicator.

Card Holder	1024	65536	1024	
Card Code	32 bits	16 bits	32 bits	
Lift Control	32	*	32	
Anti-Pass-back	1024	*	1024	
Connect to 716EV2	Y	*	Y	
PC	Y	•	Y	
Access Mode	А	В	С	
Transaction Buffer	1200	•	1200	
Access Mode A: Access Mode B: Access Mode C:	Card only, Card Card only, PWD Card Only, Card	i + PIN, PIN + Code only, Card + PWD i + PIN, PIN only		
How to get the Mode	Status			
Step 2. You will hear machine , as M4: Sound w M6: Sound w M8: Sound w	the "Beep"soun follows: ith 4 times ith 6 times ith 8 times	d from the	N WENO	
How to change the M	/lode Status			
Step 1. Press # +1 2 3	4 5 6+	# enter the FUNCTIO	ON MENU	
Step 2. Editing Mode M4:press 0 Beep So	3 4 * 4 und with 4 times	# and hearing		
M6: press 0 Beep So	4 * 6 und with 6 times	# and hearing		
M8: press 0 Beep So	4 * 8 und with 8 times	# and hearing		



AR-721HV3 / 1356 RS-232: The distance between PC and converter

- 1 RS-232: The distance between PC and converter (AR-801CM) can not be more than 2 meters
- 2 RS-485: The distance between converter (AR-801CM) and the farthest controller (or reader) can not be more than 300 meters.
- 3 Wiegand: The distance between RS-485 reader (or controller) and Wiegand reader can not be more than within 3 to 5 meters.
- 4 Do not run AC power in the same pipe with communication wire(See drawing 2). It should be separate installation (See drawing 1).
- 5 AR-721H locate inside the secure area for use as an exit controller, the auxiliary reader locate exterior wall for use as an entrance reader, but not directly behind AR-721H. For best reading distance, offset the AR-721H and auxiliary reader by about 50 cm above and 12 m below (suggestion value).
- 6 Normally, AR-721H will read a Card / Key Tag at up to 15 cm. However, when AR-721H or optional auxiliary reader is mounted directly on a metal surface, the reading distance decreases slightly. To reduce this effect, install wood or plastic between the mounting surface and mounting plate, this will restore most of the reading distance.

AR-721HV3 / 1356

- 7 Exit Switch input must be a dry contact, with no voltage present.
- 8 AR-721H can cover standard electrical boxes.
- 9 AR-721H does not supply power to operate electric strike or magnetic locks a separate supply is required. Refer to strike/magnetic lock manufactures instructions If common power supply is used for both the AR-721H and electronic door lock, be sure to install the diode which is provided with the AR-721H.
- 10 Alternatively, you can use any good 9-18 VDC supply that provides at least 150mA. DC power should be clean and filtered with no more than 1 VAC ripple (Peak to Peak). Do not run AC power in the same cable with DC power to the AR-721H. While it is always preferable to use a separate power supply for the AR-721H and strike.
- 11 Run the following cables to the AR-721H location. Conduit is recommended to reduce the effects of EMI/RFI and for physical protection of the wires.

The Difference of Cables

Cable Types and Distances				
Wire Application	Cable Type	Description		
From Power Supply	2-cond, 18-22 AWG	n/a		
From Locking Device and power supply or gate operator	2-cond. See Mfr's Specifications	n/a		
From external alarm system's Doo Monitor Switch (for shunting)	2-cond, 18-22 AWG	100 m		
From Exit Button	2-cond, 18-22 AWG	100 m		
From Optional Auxiliary Reader	2-cond unshielded 22 AWG, plus a separate 4-cond, shielded 22-24 AWG cable	50 cm - 12 m		

5. Front Panel Indicators

- In the programming mode, if no key or card entry is made within 30 seconds, it will automatically exit the programming mode.
- In the programming mode, LED light green and flash rapidly. It means that the controller waits for entering. LED is red and flash rapidly, it means that the reader is busy.
- LED light green and one beep sound mean acknowledge, LED light red and two beep sounds mean not acknowledge.
- In card learn mode, after flash card, a green light and five beeps mean that same card have existed in controller.
- 5. In anti-pass-back access mode, five beep sounds mean violates access function. (For AR-721H4 and AR-721H8)
- In arming state LED light green per 0.6 second. In disarming state LED light green per 1.5 second, In alarm state LED light red per 0.4 second. (For AR-721H4 and AR-721H8)
- If three incorrect user code (or master code) are entered, keypad will be locked for 30 seconds.
- 8. Press button [0] + [#] to luck/unlock keypad.
- 9. Press button [*] + [#] for all cards entrance allowance.
- 10. Press button [#] to function as the Bell Output.

Contro OR Reade

801CM OR Control

6. Access Mode

How to program

- ---2222 Duress Code (network)
- ---1111 Force On/Off Code (network)
- ---5678 Door Access User Code (network/standalone)
- ---1234 Arming and Disarming (network/standalone)

User can select one of the following access modes

AR-721HV3 /1356

Card only

User can access the door by flashing card on the unit. Arming / Disarming: After flashing card ok, press 1 2 3 4 # Then the unit will trigger the arming/disarming mode.

Card or PWD

User can access the door by just either flash card or entering 5 digit the user number+ entering 4 digit user code + #

Arming/Disarming: After flashing card ok, press 1 2 3 4 # . Then the unit will trigger the arming/disarming mode.

Arming/Disarming: entering 5 digit the user number+ entering 4 digit user code + #, then press 1 2 3 4 # . Then the unit will trigger the arming/disarming mode.

Card or 4-digit User Code

User can access the door by just either flash card or entering 4 - digit user code. Arming/Disarming: After flashing card ok, press 1 2 3 4 # . Then the unit will trigger the arming/disarming mode.

Arming/Disarming: entering 4 digit user code, then press 1 2 3 4 # . Then the unit will trigger the arming/disarming mode.

User can change user code any time

a. AR-721H connects with controller and PC, running 701 client and set user code variable.

By user: After accessed ok, press 4-digit new user code twice and press #

By 701 client \ setting \ user card

b. Not connecting with PC

After accessed ok, press 4-digit new user code twice and press #

Duress function

- This function could help users to send a message to the computer asking for help. Only available in networking state, running 701 Server and setting 4 sets of Duress code on PC. (Anyone of these 4 sets is workable.)
- This function is not available for CARD ONLY and USER CODE ONLY (AR-721H8) access

Access Mode	Command Format
Card Only	Not available
Card + user code	Flash card, then press Duress code & #
User code Only	Not available
User no. + user code	Press user no., then Duress code & #

Note: User can access door by duress code instead of user code under card or user code access mode, but it will be shown ask for help message in 701 Client \ Daily Transaction Record.

Force on/off Code (4 sets, 4 digits)

- Only workable in networking system, running 701 Server and setting 4 sets of Force code on PC. (Anyone of these 4 sets is workable.)
- User could press related code to turn on / off its connected equipment, diagram as below.

PC boad of Controller AR-716EV2 / AR-727E



Access mode ON/Off Order Flashing card + Force code + Code + 0 + #ON Card only Flashing card + Force code + Code + 1 + #Off Flashing card+User code + Force code+Code+ ON 0 + #Card + user code Flashing card+User code + Force code+Code+ Off 1 + #User no. +User code +Force code+Code+ 0+ User no. + ON # user code User no. +User code +Force code+Code+ 1+ (Mode 4) Off # User code + Force code + Code + 0 + # ON User code only User code + Force code + Code + 1 + # (Mode 8) Off

After access OK, press following order to turn on / off its connected equipment.

 This function can be connected with force control television, air conditioning, audio, etc. by Relay-1, 2, 3, 4 on the multi-door networking controller.

• To avoid the conflict of the use of each controller relay, it is user responsibility to define each controller relay for one purpose use only.

7. Function Default Value

Before installing, complete the Parameters setting by calculating each controller value according to their designated functions.

7.1 For AR-721HV3/ 1356

20 * XXX # Designated Functions Setting Table

Functions	Option		Bit	Value	Remark
Recording every entry/exit on Time Attendance Report	0:Yes * 1:No		0	001	network
Auto Re-Lock	0:Disable \star	1:enable	1	002	
Auto Open/Auto Disarming	0:Disable ★	1:enable	2	004	network
Door Exit Release (Push Button)	0:Disable	1:enable*	4	016	
Master Reader /Network	0:minor*	1:major	5	032	network
Entry / Exit door	0:Exit door*	1:entry door	6	064	
Anti-pass-back door	0:Disable \star	1:enable	7	128	

[*] markings is the ex-factory setting, the default value is " 016 ".

Step 1: Decide each option of function by "0" or "1".

Step 2: List each value of "1" option

Step 3: Sum up each above value to get the parameter number.

- Enable [Auto Re-Lock] -> 002
 - Enable [Door Exit Release (Push Button)] -> 016 Enable [Anti-pass-back door] -> 128



24*NNN# Particular Functions

Functions	Option		Bit	Value	
Star "Auto Open Zone " function	0: By push button*	1: Auto.	0	001	
Lift Control / Alarm Output	0: Alarm output*	1: Lift control	1	002	
Stop Alarm by	0: Push button*	1: Close door	6	064	
Doorbell output	0: Disable*	1: Enable	7	128	

[*] markings is the ex-factory setting, the default value is " 000 ".

EX:	How fund +	r to set your AR-72 ction? Star "Auto Open Zone ' Enable	1H with "Auto Open Zone" a '] by automatically-> 001 [Doorbell Output] -> 128	nd "Doorbell output"
			Total value: 129	
	Com	mand : 2 4	* 1 2 9 #	
28*N	NN#	"Force Ope	n Alarm" Output	
Va	alue	Option	Command]
0	00	Disable	28*000#]
1	28	Enable	28*128#	

7.2 For AR-721H on Mode 6

Designated Functions Setting Table					
Functions	s Option			Value	Remark
Auto Re-Lock	0:disable *	1:enable	1	002	
Door Exit Release	0:disable	1:enable*	4	016	

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8. Wiring

Table 1 - Connector P1 Color Coding					
Wire Application	Wire	Color	Description		
Door Relay	1	Blue White	(N.O.)DC24V1Amp		
	2	Purple White	(N.C.)DC24V1Amp		
	3	White	(COM)DC24V1Amp		
Door Sensor	4	Orange	Negative Trigger Input		
Exit Switch	5	Purple	Negative Trigger Input		
Alarm Output	6	Grey	Transistor Output		
			(Open Collector Active Low)		
Power	7	Thick Red	DC Power 12V		
	8	Thick Black	DC Power 0V		

Table 2 - Connector P2 Color Coding (Wiegand Read Head)						
Wire Application	Wire	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, Max			
	5	Yellow	LED Red Output 5V/20mA, Max			

Table 3 - Connector P3 Color Coding (Tamper Switch)

Wire Application	Wire	Color	Description
Tamper Switch	1	Red	N.C.
	2	Orange	СОМ
	3	Yellow	NO

Table 4 - Connector P4 Color Coding					
Wire Application Wire Color Description					
Networking	1	Thick Green	RS-485(B-)		
2 Thick Blue RS-485(A+)					

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9.2 Electric bolt lock The installation of 721H and electric bolt lock Lock(+ 12VDC) Electric Bolt Lock Power Supply 12VDC 2A GND Blue White(721H 7AC2 PCN 0 Π " DODDDDD 0000 **~~~** Push Button DOOR EXIT D Ø Power Supply 12VDC 500mA

9. Installation diagram

9.1 Magnetic lock















10. Installation

INSTRUCTIONS:

- 1. Use the screwdriver to screw the mounting plate on the wall.
- Pull cable ends through the access hole in the mounting plate. Connect plug P1 to socket CN1 on the AR-721H circuit board. Connect plug P2 to socket CN2 on the AR-721H circuit board. Connect plug P3 to socket CN3 on the AR-721H circuit board. Connect plug P4 to socket CN4 on the AR-721H circuit board.
- Attach the AR-721H to the mounting plate and install screw (supplied) into the hole at the bottom with the Allen wrench (supplied).
- 4. Apply power. The red LED will flash once and the beeper will sound.



11. Troubleshooting

Questions	Answer
No appearance	 Check power, if it is 9 – 24 VDC adaptor? Check if the polarity is correct? The unit should make a beep sound when any key on the keypad is depressed. If you remove and restore power, the unit should beep once and the LED should flash red once.

12. Return of Products

If you think that you have a defective unit, please contact the distributor who sold you the unit. All service and repairs must be done through an authorized distributor.

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13. Warranty

SOYAL warrants that the product(s) shall be free from manufacturing defects in materials and workmanship for a period of fifteen (15) month from the date of delivery provided that the product was properly installed and used. The foregoing warranty shall not apply to defects resulting from abuse, misuse, accident, unauthorized alteration or repair, neglect, acts of God (such as floods, fire, etc.). SOYAL shall, at its option, either repair or replace product(s) which prove to be defective within the warranty period. SOYAL will replace any product found to be defective within the first three months of purchase provided said product was properly installed and used. Distributor agrees to insure the product or assume the risk of loss or damage in transit to prepay shipping charges and to use the original shipping container or equivalent. Customers shall seek assistance from the distributor who sold you product (s). Repaired or replaced product(s) are warranted for ninety (90) days from the date of repair or replacement, or for the remainder of the original product's warranty period, whichever is longer. Note: Don't tear a paster such as S/N: 721H4-08336 on the PCB board, because it is SOYAL warranty.

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※ Removable CPU

The CPU of this generation version of AR-721H series can be removable. If the master code is forgotten it can be restored to the factory default (123456). Remove the AR-721H series from the mounting plate, disconnect power, remove AR-721H CPU, install AR-721H-CLE CPU, and restore power about 10 seconds. Then disconnect power, remove AR-721H-LCE CPU, install AR-721H CPU, and restore power.

 If CPU at hand as above stand fo The CPU of first generation version of AR-721H series. You can refer the above step to restor master code to the factory defaul (123456). You can know item no. and CPU version of the device from CPU paster of left picture. So, this device is AR-721H4, CPU version 3V4 and checksum 472B

14. Mode 4 Easy Guide

Either way to enter the programming mode

- 1. Press * + 1 2 3 4 5 6 + #
- (all new units are preprogrammed with the master code 123456)
- Plash master card and then press # within 2 seconds.
- The LED will flash green rapidly to show that the unit is in the programming mode. The unit will time out and return to the reading mode in 30 seconds if no key is pressed.

Either way can exit the programming mode

Press * # -- exit the programming mode and return to the reading mode.
 Press * * # -- exit the programming mode, set controller to arming state and return to the reading mode.

Change your Master Code

Step3: Press * #



 Set the door relay release time

 Step1: Press * and master code fallow an #

 Step2: Enter 0 2 * 0 0 7 #

 7 Seconds

 TTT = 000: Latch (Trigger) / TTT = 001 ~ 600 (001 ~ 600)

 seconds / TTT = 601 ~ 609 (0.1 ~ 0.9) second. A green

 light and beep means that the door relay release time was changed.

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Add one Transponder (Card / Key Tag) to the system	Step1: Press * and master code fallow an #
	Step2: Enter 1 2 * 0 0 0 0 1 *
Step1: Press * and master code fallow an #	
	User Code
	The user number 00001 can access the door by just either flash card or entering the
Quantity	user number 00001, then entering 2081#.
Present the transponder near the unit. (Set random transponder one by one). A	OR Enter 1 3 * 0 0 0 0 1 *
green light and beep means that the transponder was accepted.	
	User Code
	The user number 00001 can access the door by using flash card and entering
Add a series of Transponders (Card / Key Tag) to the system	2081#.
	Note: A user code must be 4 digits. If the user code has leading zeros, they must b
Step1: Press * and master code fallow an #	Step3: Press * #
	Delete a Transponder / User Code from the system
	Step1: Press * and master code fallow an #
Quantity	Step2: Enter 1 0 * 0 0 0 1 *
Present the lowest card code of transponder to the unit in the desired order (set	Starting User Number 1
sequential transponder once and make a careful record of which transponders	
Step3: Press * #	Ending User Number 1
	code was deleted.
	Step3: Press \star 🗰
	Delete a range of Transponders / User Code from the system
	Stant: Press * and master code follow on #
	Starting User Number 1
	00010#
	Ending User Number 10
	A green light and beep means that the range of transponders / user codes were
	Step3: Press * #
28	29
28	29 15. Mode 8 Easy Guide
28 Delete all Transponders	29 15. Mode 8 Easy Guide
28 Delete all Transponders Step1: Press * and master code fallow an # Step2: Enter 2 9 * 2 9 * #	29 15. Mode 8 Easy Guide Add one Transponder (Card / Key Tag) to the system
28 Delete all Transponders Step1: Press ★ and master code fallow an # Step2: Enter 2 9 ★ 2 9 ★ # The LED flash red during 10 seconds to mean that the system is deleting all	29 15. Mode 8 Easy Guide Add one Transponder (Card / Key Tag) to the system
28 Delete all Transponders Step1: Press ▲ and master code fallow an # Step2: Enter 2 9 ▲ 2 9 ▲ # The LED flash red during 10 seconds to mean that the system is deleting all transponders / user codes. Then a green light and beep means that all transponder	29 15. Mode 8 Easy Guide Add one Transponder (Card / Key Tag) to the system Step1: Press * and master code fallow an # Step2: Enter 1 9 * 0 0 0 0 1 *
Delete all Transponders Step1: Press * and master code fallow an # Step2: Enter 2 9 * 2 9 * # The LED flash red during 10 seconds to mean that the system is deleting all transponders / user codes. Then a green light and beep means that all transponder / user codes were deleted.	29 15. Mode 8 Easy Guide Add one Transponder (Card / Key Tag) to the system Step1: Press * and master code fallow an # Step2: Enter 1 9 * 0 0 0 1 * User Number
Delete all Transponders Step1: Press ★ and master code fallow an # Step2: Enter 2 9 ★ 2 9 ★ # The LED flash red during 10 seconds to mean that the system is deleting all transponders / user codes. Then a green light and beep means that all transponder / user codes were deleted. Step3: Press ★ #	29 15. Mode 8 Easy Guide Add one Transponder (Card / Key Tag) to the system Step1: Press * and master code fallow an # Step2: Enter 1 9 * 0 0 1 * User Number 0 0 0 1 #
Delete all Transponders Step1: Press ★ and master code fallow an # Step2: Enter 2 9 ★ 2 9 ★ # The LED flash red during 10 seconds to mean that the system is deleting all transponders / user codes. Then a green light and beep means that all transponder / user codes were deleted. Step3: Press ★ #	15. Mode 8 Easy Guide Add one Transponder (Card / Key Tag) to the system Step1: Press * and master code fallow an # Step2: Enter 1 9 * 0 0 1 * User Number 0 0 0 1 # Quantity
Delete all Transponders Step1: Press ▲ and master code fallow an # Step2: Enter ② ⑨ ▲ ② ⑨ ▲ # The LED flash red during 10 seconds to mean that the system is deleting all transponders / user codes. Then a green light and beep means that all transponder / user codes were deleted. Step3: Press ▲ #	Add one Transponder (Card / Key Tag) to the system Step1: Press * and master code fallow an # Step2: Enter 1 9 * 0 0 0 1 * User Number 0 0 0 1 # Quantity Present the transponder near the unit. (Set random transponder one by one). A green light and been means that the transponder one by one).
Delete all Transponders Step1: Press ▲ and master code fallow an # Step2: Enter ② ④ ▲ ② ⑨ ▲ # The LED flash red during 10 seconds to mean that the system is deleting all transponders / user codes. Then a green light and beep means that all transponder / user codes were deleted. Step3: Press ▲ # Enable a Transponder to the system Step1: Press ▲ and master code fallow an #	Add one Transponder (Card / Key Tag) to the system Step1: Press * and master code fallow an # Step2: Enter 1 9 * 0 0 0 1 * User Number O 0 0 1 # Quantity Present the transponder near the unit. (Set random transponder one by one). Agreen light and beep means that the transponder was accepted. Step3: Press * #
Delete all Transponders Step1: Press * and master code fallow an # Step2: Enter 2 9 * 2 9 * # The LED flash red during 10 seconds to mean that the system is deleting all transponders / user codes. Then a green light and beep means that all transponder / user codes were deleted. Step3: Press * # Enable a Transponder to the system Step1: Press * and master code fallow an # Step2: Enter 1 1 * 0 0 0 0 1 *	Add one Transponder (Card / Key Tag) to the system Step1: Press * and master code fallow an # Step2: Enter 1 9 * 0 0 0 1 * User Number Quantity Present the transponder near the unit. (Set random transponder one by one). Agreen light and beep means that the transponder was accepted. Step3: Press * #
Delete all Transponders Step1: Press * and master code fallow an # Step2: Enter ② ⑨ * ② ⑨ * # The LED flash red during 10 seconds to mean that the system is deleting all transponders / user codes. Then a green light and beep means that all transponder / user codes were deleted. Step3: Press * # Enable a Transponder to the system Step1: Press * and master code fallow an # Step2: Enter 1 1 * 0 0 0 0 1 * Starting User Number 1	Add one Transponder (Card / Key Tag) to the system Step1: Press * and master code fallow an # Step2: Enter 1 * O O O T * User Number O O O T # Quantity Present the transponder near the unit. (Set random transponder one by one). A green light and beep means that the transponder was accepted. Step3: Press * #
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Delete all Transponders Step1: Press ★ and master code fallow an # Step2: Enter ② ⑨ ★ ② ⑨ ★ # The LED flash red during 10 seconds to mean that the system is deleting all transponders / user codes. Then a green light and beep means that all transponder / user codes were deleted. Step3: Press ★ and master code fallow an # Step3: Press ★ ## Enable a Transponder to the system Step1: Press ★ and master code fallow an # Step2: Enter ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ③ ① ① ① ① ① ① ① ④ ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ③ ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ①	Add one Transponder (Card / Key Tag) to the system Step1: Press * and master code fallow an # Step2: Enter 1 * O O O O * * User Number Quantity Present the transponder near the unit. (Set random transponder one by one). Agreen light and beep means that the transponder was accepted. Step3: Press * #
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18. Special Design	
18.1 How to set anti-pass-back?	AF
Card and on-line reader (or standalone controller) must be both set anti-pass-back.	
• Set card to have anti-pass back checking	
Step1: Press and master code ranow an #	
(all new units are preprogrammed with the master code 123456)	
SSSSS: Starting User Number	
EEEE: Ending User Number	
X: 1 - disable anti-pass-back	
U - enable anti-pass-back	
2 - Initiating use (when user number violates anti-pass-back, the user number can	
access either entry door or exit door by initiating setting)	
For example:	
feature	
leature.	
anti page back feature	
Set on line reader's (or standalone controller) anti-pass back function	
CASE 1: AR-721H do anti-pase-back with its auviliany reader (AR-721H AR-721K or	
AP_6611)	
Step1: Press * and master code fallow an #	
Step2: Enter 2 0 * 1 2 8 #	
Step3: Press * #	
CASE 2: AR-721H do anti-pass-back with 2 pcs of AR-661U long-range reader (Set one	
AR-661U being Exit reader and the other one being Entry reader). This special	
design is especially suitable for car parking control. CPU version is at least	
3.1V. Set one AR-661U with wiegand 34 bit format output and the other one	
with 38 bit. (Please refer to the following diagram)	
Step1: Press * and master code fallow an #	
Step2: Enter 2 0 * 1 2 8 #	
Step3: Press * #	
36	L



When the distance between 2 pcs 661U is less than 6 meter (suggestion value), we can use the following ways to solve in order to avoid interference with each other to result in reading distance decrease.



CASE 3: On-line reader under AR-716Ei / EV2 networking controller

do anti-pass-back each other. You need to indicate which is entry door and which is exit door in advance. Note that on-line reader under A networking controller cannot do anti-pass-back with on-line reader under B or C networking controller, contrariwise.

Entry door

Step1: Press *	and master code fallow an #
Step2: Enter 2	0 * 1 9 2 #
192=128(A	nti-pass-back door)+64(Entry door)
Step3: Press *] #
Exit door	
Step1: Press *	and master code fallow an #
Step2: Enter 2	0 * 1 2 8 #

Step2: Enter	2	0	*	1	2	8	#
129_129	Anti		hao	k doo		Evit d	
Step3: Press	×	pass #	-Dac	K UUU	n)+0(001)

19. Transponder Record Table

19.1 For AR-721H4, AR-721H7 and AR-721H8

Be sure to record the user number, the user name, the card ID number (site code: card code), and the user code and keep this information in a secure place. A black user log form has been included for purpose. Do not write on this form; use it as a photocopy master

User no.	User Name	Site code: Card code	User code

Function	Command	Programmed Values
Master code	09*PPPPPCCCCCC#	123456
Door relay release time	02 ≁ TTT#	003 (3 seconds)
Function code (Arm or Disarm)	17 * PPPP#	1234 (not including AR-721H7)

19.2 For AR-721H6

Be sure to record the user number, the user name, the card ID number (card code), and the user code and keep this information in a secure place. A black user log form has been included for purpose. Do not write on this form; use it as a photocopy master.

User no.	User Name	Card code	User code

Function	Command	Programmed Values
Master code	09*PPPPPPCCCCCC#	123456
Door relay release time	02 ≁ TTT#	003 (3 seconds)
Common code (1)	15*PPPP#	4321
Common code (2)	17*PPPP#	1234

20. F.A.Q.

Q : How to input Duress Code in your SOYAL reader?

 Step1. Setting the Duress :

 Press^{*}
 1
 2
 3
 4
 5
 6
 #
 button into Editing mode.

When in editing mode, enter 1 5 # You can enter 4 numbers to be as Duress Code.

Step2. Start the operation :

Press 4 numbers of Duress Code and flashing card. The Duress will be switched up !

Q : How to configure alarm relay time when the door open too long?

Before this procedure, you have to configure the function "ALARM RELAY TM", "DOOR CLOSE TM", and "FORCE OPEN".

Step1. In editing mode, press 0 3 * and enter the time for alarm relay time setting.

Step2. In edit mode, press 1 8 and enter the time for alarm triggered setting.

Step3. In edit mode, press 2 8 * and enter 3 numbers.

Close Force-Open order: press 0 0 0

Function Force-Open order :press 1 2 8

Press * * # to quit the edit mode and keep arming.

Q : How to set the function "open two door" in your reader ?

First of all, you must make sure that you have the Wiegand Reader used with AR-721HV3 series in this function.

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Press 2 8 * 0 6 4 -- Open two doors.

This function is good for using together with auxiliary reader. AR-721 HV3 and auxiliary reader open different door. Note that this function cannot use with Arming function at the same time.

Q : How to delete all Transponders in your SOYAL reader ?

In edit mode, press 2 9 * 2 9 * # then the data will be erased in your system.

Press * # to exit this setting module !!

Q : How to set the door relay release time?

 When in edit mode,

 Press
 0
 2
 *
 T
 T
 #
 Time range is 000~600 sec.

Press the button below, 0 0 0 Latch/Toggle mode will be functioned. The door will remain open by flashing card in one time.

The door will remain close by flashing card in one time.

Press the button below, 6 0 1 - 6 9It's mean 0.1~ 0.9 seconds for door relay time.

A green light and beep means the door relay release time was changed.

Q : How to function the Arming & Disarming?

Press 1 7 * P P P F # to set 4-digit function code. Function code followed with # to Arm or Disarm the system.

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Default setting : P P P # is 1234.

Q : How to add Transponder (Card / Key tag) to the system ?

In edit mode, please press the buttons as below:

1 9 * 1 2 3 4 1 * 1 2 3 4 5

Q : How to set Door-bell system ?

Alarm output used with Relay is the formal type of this function. When you in edit mode , press 2 4 * 1 2 8 # The Door-bell system will function.

Q : How to set Free access Mode ?

1. Standalone:

In edit mode, please Press 0 + #

2. Networking: connecting with AR-716E In edit mode, please Press 0 + #

Note:

This function not allowed the reader in standalone when connect to controller.