

Nation Series AR-721-H

Multi Functional Access Controller

Classic and popular multi-functional controller of SOYAL with high scalability, durability and CP value



Hot Sale Controller of SOYAL

Best-selling controller over the past 10 years, high CP value, multiple functions. Can meet

Selectable Frequency

13.56MHz : Support Mifare, NFC (emulate UID), DESFire (Crypto comply with EAL4+)

Expandable User Capacity to More than 10,000 Users

Built-in multiple control modes: 1. One door, one and half door 2. Multiple doors (with multi-door controller), can be more than 10,000 user capacity

As RS485 Reader

Not only a controller, but an encrypted RS485 reader if utilized with other brand's controller

Features

















- Built-in hardware watchdog, real time clock, arming, force alarm, door close delay alarm, doorbell and duress code & output
- Built-in door auto open time zone, holiday edit, door group & time setting. With multi-door control panel, support more time and group sets
- Standalone / Networking / Support Cascade Structure
- Support RS485 communication encryption, SSC (Soyal Security Communication)
- In-field firmware upgrade

- Multiple access mode: card only, card or password, card and password
- Multi output: door lock output (0.1-600 sec. and toggle mode) & alarm output (1-600 sec.)
- Silent operation mode: push button mute and all mute Auto relock for anti-trailing and sneaking
- Access control, lift control, time attendance, payroll and SCADA: graphic monitoring & remote control function

SPECIFICATION

0	Host	RS485/9600 bps (N, 8, 1)				
Communication interface	Serial	UART PORT (Output only)/4800 bps (N, 8, 1) SSC (Soyal Security Communication)				
Frequency			125kHz	13.56MHz		
Supported Tags		0-2: EM4001 and 95 compatible	 ISO 14443 Mifare Ultralight, Classic, DESFire EV1 NFC (card simulation) 			
Crypto			CC Certification: 3DES Crypto comply with EAL4+			
RFID Reading Rang	1	10-18CM	2-8CM			
UID Bits	24~32 (Adjustable)					
	DI	Egress / Door State				
DI/DO	RO	Door Lock Relay				
	DO	Door Lock Output / Duress Output / Alarm Output Arming Output (share same terminal with Security trigger signal Output)				
Doors/Floors Number		1.5 Doors / 32 Floors				
User Capacity	1024					
Event Log		1100				
Indicator	LED	Bi-Color LED Ring Indicator GREEN= arming, disarming/standby mode & access granted RED= abnormal event: access denied & alarming				
	Buzzer	1				
TAMPER	Limit switch (1 Form C/ 1000mA / 30VDC)					
Dimension (mm)		111(H)X77(W)X26(D)				
Material	Housing	ABS				
Iviaterial	Keypad	Rubber				
Color			Silver & Gray & Black			
Weight (g)		approx. 100				
Power Consump	<3W					
Power Voltage	9-24VDC					
Ingress Protecti	None					
	Operating Temperature		-20°C ~ +70°C			
Enviroment	Storage Temperature		-40°C ~ +75°C			
	Operating Humidity		0%~90% (non-condensing)			
	Storage Humidity		0%~95% (non-condensing)			

WHAT WE OFFER

🌈 Industrial Grade / High Durability

Made of industrial grade materials in compliance with RoHS, which is far higher than general commercial grade, Soyal products work well in extreme environment with long working life.

Anti-Cloning and Anti-Duplicate

We provide anti-cloning and encryption for whole system to tighten up the security. It supports DESFire in compliance with EAL4+, more secure than other brand' s controller.

Support Soyal Cascade Structure

When scaling your system it is not only having more hardware, higher security level, and more spaces to control; it also means there will be more people with access. Without replacing or changing installed hardware, adjust your controller user capacities by adding external Multi-Door Controller; from a thousand to more than ten thousand user capacity.

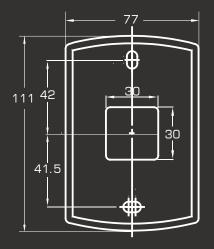
High Scalability, Beyond Access Controller

Each product manufactured by Soyal is made for total solution and to offer flexibility. For instance, Soyal main product is access controller but you can find Soyal on other application like offline consumption device, charging device, and many more just by changing its firmware.

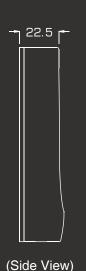
🧭 No Exclusivity, Open Integration Resources

SOYAL provides open sources such as SDK and protocol document that have "no-exclusively and open source integration" characteristic. SOYAL also supports integrations, like JSON, Graphic QL, Julia, Modbus, so customers can easily develop their own software.

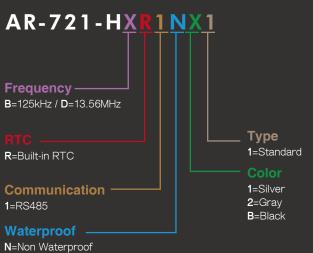
INSTALLATION(mm)



(Front View)



HOW TO ORDER



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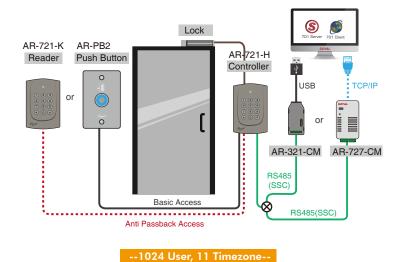
APPLICATION & STRUCTURE DIAGRAM

STANDALONE & NETWORKING ACCESS CONTROL

Basic Access: the most basic access, exiting venue is only by pressing a push button

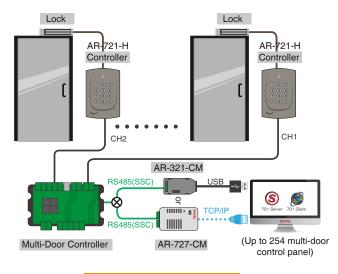
Anti Passback: restrict user to re-enter before exiting venue or increase security level by having access reader at the other side of the door. Both entering and exiting will required swipe card or keyfob for access.

Netwoking: beside configuration through Wiegand Keyboard and Master Card, you can also link AR-721-H with Soyal converter to PC for configuration via SOYAL Software or for anti-cloning and encryption process.



CASCADE STRUCTURE

Upgrade user capacity without replacing AR-721-H installed with additional hardware of SOYAL Multi-Door Control Series. Under Multi-Door Control Panel, when RS485 communication is working normally, AR-721-H will be a Slave Reader of Control Panel. Once its communication is cut off, AR-721-H will automatically be Access Control and have control on its user and parameter setting.



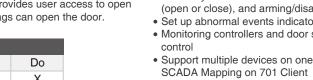
--16000 User, 63 Timezone--

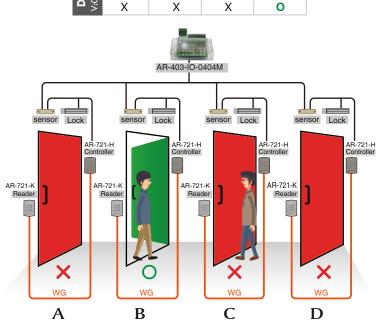
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INTERLOCK CONTROL SYSTEM

Suitable for rooms that required high hygiene for example clean room technology or laboratories that certain doors may only be opened if others are closed. Besides providing restriction for more than one door open at the same time, SOYAL AR-721-H provides user access to open door which only authorized user with valid tags can open the door.

R pen	Door Open							
O	Ao	Bo	Со	Do				
SEN S :Can't	0	Х	Х	Х				
~ ×	Х	0	Х	Х				
	Х	Х	0	Х				
<u>م</u> ۵	Х	Х	Х	0				

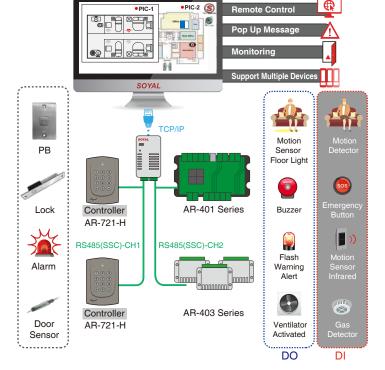




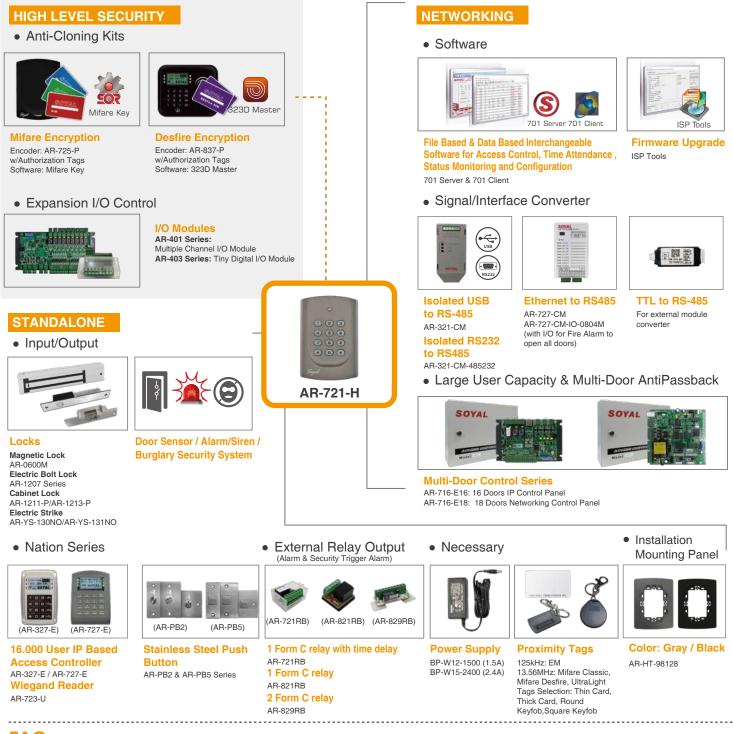
SCADA: Remote Control and Monitoring System

SOYAL provide both access controller and I/O module exist on the same system of SCADA for remote control and monitoring system.

- Remotely control 721-H I/O status(ON or OFF), doors status (open or close), and arming/disarming status
- Set up abnormal events indicator for pop-up message
- Monitoring controllers and door status on site through graphical
- · Support multiple devices on one SCADA Mapping and multiple



PERIPHERALS / ACCESSORIES



FAQ

Q: How to Integrate SOYAL with Face & License Plate Recognition?

A: As Face Recognition is more and more in demand, SOYAL provide resources and two integration method. The integration will grant access via face recognition by sending converting face data to UID to Soyal system (software/hardware) that later will resulting in access granted or denied, based on the availability user data on

Soyal database system. As the integration method is various, we offer flexibility of integration based on what customer preferred.

Q: What is the difference betweeen SOYAL Home Series and Enterprise Series Controller?

A: SOYAL access controller classified into two categories in term of specification; Home Series and Enterprise Series. SOYAL Home Series controller has already include all basic standalone and networking access controller that you need. But E series controller provide what Home Series controller has already have, and more advanced features like built in more user capacity, UART Port for extension module, and extension interface like Ethernet and POE.





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ROHS SOR FC CE MINCC