

Nation Series

AR-723-H

Tiny Proximity Access Controller

RS485 interface controller, smaller than your palm hand



Mini Controller

With only 8cm height it is not even as big as your palm

Indoor & Outdoor Installation We offer weatherproof and IP 68 epoxy

waterproof, suitable for indoor and outdoor installation

Keyless Editing

Just by swiping master card, quickly add or delete user

Wiegand Keyboard for Quick Configuration Setting

Set up configuration and edit user card setting by entering command with external Wiegand Keyboard

Selectable Frequency

125KHz: Support EM card 13.56MHz : Support Mifare, NFC (emulate UID), DESFire (Crypto comply with EAL4+)

As RS485 Reader

Flexible use, can be standalone and networking

Features

















- Built-in hardware watchdog and real time clock
- Standalone / Networking / Support Cascade Structure
- Support RS485 communication encryption, SSC (Soyal Security Communication)
- Master card for keyless editing
- In-field firmware upgrade
- Arming / Force alarm / Door close delay alarm
- Multi output: door lock output (0.1-600 sec. and toggle mode)& alarm output (1-600 sec.)
- Support 1.5 door control anti-passback

- Silent operation mode: push button mute and all mute
- Auto door open time zone: Built-in 2 time zones, with
- multi-door control panel upgrade to 16 time zones
- Assign user for door group (up to 254) and time zone (up to 11, with control panel up to 63)
- Holiday edit (Up to 120 days a year) for salary counting and auto open time zone setting
- Auto relock for anti-trailing and sneaking
- Access control, lift control, time attendance, payroll and SCADA: graphic monitoring & remote control function

SPECIFICATION

	Host	BS485/960	00 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		ISO18000-2: EM4001 and EM4095 compatible	ISO 14443 Mifare Ultralight, Classic, DESFire EV1 NFC (card simulation)	
Crypto			CC Certification: 3DES Crypto comply with EAL4+	
RFID Reading Range		5-12 CM	2-8CM	
UID Bits		24~32 (Adjustable)		
	Digital Input	Egress / Door State		
DI/DO	Digital Output*	Door Lock Output (share same terminal with Security trigger signal Output) Arming Output / Duress Output / Alarm Output		
	*Required E	External Relay Output Module		
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		No		
Dimension (mm)		81(H)X 43(W)X18(D)		
Housing Material		ABS		
Color		Black, Gray, Silver		
Weight (g)		approx. 40	approx. 60	
Power Consumption		<3W		
Power Voltage		9-24VDC		
Ingress Protection		IP56 / IP66(Epoxy)		
Enviroment	Operating Tempe	erature -20°C	-20°C ~ +70°C	
	Storage Tempe	rature -40°C	-40°C ~ +75°C	
	Operating Humi	idity 0%~90% (r	0%~90% (non-condensing)	
	Storage Humidi	ty 0%~95% (r	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.

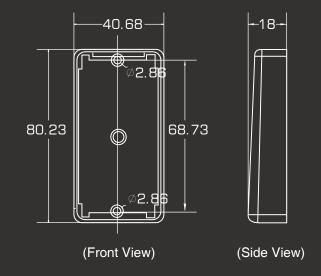
High Scalability, Beyond Access Controller

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.

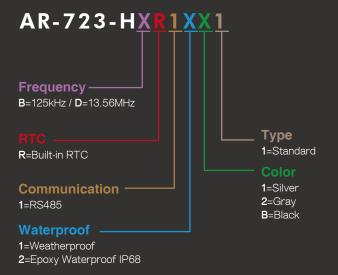
No Exclusivity, Open Integration Resources

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)



HOW TO ORDER





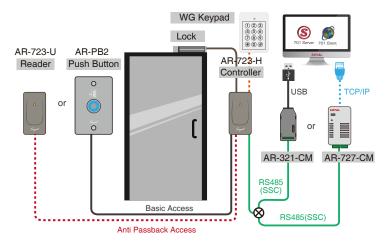
APPLICATION & STRUCTURE DIAGRAM

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-723-H with Soyal converter to PC for configuration via SOYAL Software or for anti-cloning and encryption process.

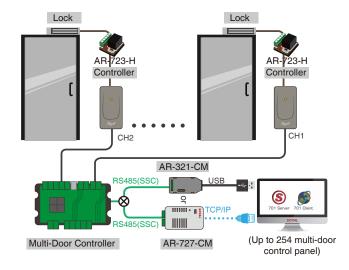


--1024 User, 11 Timezone--

CASCADE STRUCTURE

Upgrade user capacity without replacing AR-723-H installed with additional hardware of SOYAL Multi-Door Control Series.

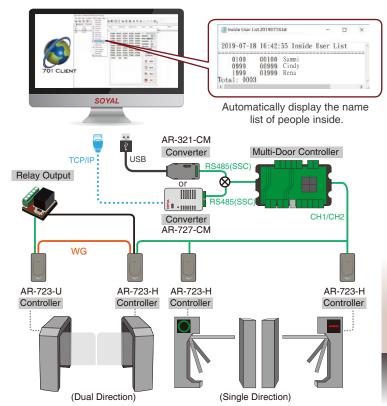
Under Multi-Door Control Panel, when RS485 communication is working normally, AR-723-H will be a Slave Reader of Control Panel. Once its communication is cut off, AR-723-H will automatically be Access Control and have control on its user and parameter setting.



--16000 User, 63 Timezone--

TURNSTILE: COUNT AND DISPLAY NUMBER OF PEOPLE ON-SITE

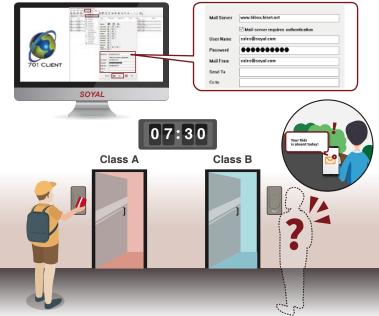
Either with single direction or dual direction turnstile, with multi-door control panel AR-716-E16, restricts user access to re-enter venue without exiting first with anti-passback features and get the total number of people and the display the list of user on site via 701Client.



Student Absent Automatically Send Email to Guardian

The application is recommended on School Security protection. With the customized version of 701client, the teachers can view the students' daily attendance records and also the transactions can be sent to assigned e-mail address to inform the parents if their children is absent or not.

- All student record is recorded on SOYAL 701Client software and Email field enter guardian's email.
- Student swipe card when entering classroom
- When first period begin, and student is absent from class, guardian will automatically receive email notification



PERIPHERALS / ACCESSORIES

HIGH LEVEL SECURITY

Anti-Cloning Kits



Mifare Encryption

Encoder: AR-725-P Software: Mifare Key



Desfire Encryption

Encoder: AR-837-P w/Authorization Tags Software: 323D Master

• Expansion I/O Control



I/O Modules

Multiple Channel I/O Module AR-403 Series: Tiny Digital I/O Module

STANDALONE

Input/Output





Magnetic Lock AR-0600M Electric Bolt Lock AR-1207 Series Cabinet Lock AR-1211-P/AR-1213-P Electric Strike AR-YS-130NO/AR-YS-131NO



Door Sensor / Alarm/Siren / **Burglary Security System**

NETWORKING

Software



Firmware Interchangeable Software for Access Upgrade Control. Time Attendance . Status ISP Tools **Monitoring and Configuration**



Parameter Setting

Node 737

Signal/Interface Converter



701 Server & 701 Client

Isolated USB to RS-485 AR-321-CM **Isolated RS232**

to RS485 AR-321-CM-485232



Ethernet to RS485 AR-727-CM

AR-727-CM-IO-0804M (with I/O for Fire Alarm to open all doors)



TTL to RS-485

For external module converter

Large User Capacity & Multi-Door AntiPassback





Multi-Door Control Series

AR-716-E16: 16 Doors IP Control Panel AR-716-E18: 18 Doors Networking Control Panel

Nation Series



16.000 User IP Based **Access Controller** AR-327-E / AR-727-E Wiegand Reader

AR-723-U

External Relay Output
 Programming



1 Form C relay with time delay AR-721RB

1 Form C relay AR-821RB

2 Form C relay AR-829RB



AR-723-H

External Wiegand Kevboard

AR-WG-KEYBOARD-V2 (DMOD-WGKBA04)



Keyless Editing

Self programmed master card



Power Supply

Necessary

BP-W12-1500 (1.5A) BP-W15-2400 (2.4A)



Proximity Tags

125kHz: EM 13.56MHz: Mifare Classic, Mifare Desfire, UltraLight Tags Selection: Thin Card, Thick Card, Round Keyfob,Square

FAQ

Q: How to configure and add or delete user on keyless editing?

- Under standalone mode, configuration and add or delete user can be done with Wiegand Keyboard by sending command to controller. Or you can also set up to three master cards for each controller to quickly add and delete users
 - For networking, Node737 Software provide easy setting for keyless controller or you can also choose 701Client for more detailed setting and Commview by sending protocol command. All Soyal softwares are available for download on Soyal website.

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

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.



More FAQ