

Illuminate Series

AR-725-H

Illuminated Backlight Touch Keypad Controller

Light and fashionable design controller with backlight touch keypad, supporting multiple control modes



Metal Frame Housing

Strengthen security with additional metal housing on its frame and back housing for crash protection and reduce damage

Invisible Keypad Function

External form's keypad will be invisible for user, only authorized personnel can activate and use keypad function.

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

Multiple Control Functions

Flexible use, can be standalone and networking

Selectable Frequency

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

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
- Support DESFire tags (Crypto comply with EAL4+)

- 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
- Can be an encrypted RS485 reader if utilized with other brand's controller

SPECIFICATION

Cii		Host	RS4	85/9600 bps (N, 8, 1)	
Communication interface	5	Serial		T PORT (Output only)/4800 bps (N, 8, 1) (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	10-15 CM(PC Housing)			3-8 CM(PC Housing)	
	5-9 CM(Metal Housing)			3-5 CM(Metal Housing)	
UID Bits	24~3			32 (Adjustable)	
	DI Egress / Door State				
DI/DO	RO	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	3000				
Event Log	1500				
Indicator	IED			ng, disarming/standby mode & access granted I event: access denied & alarming	
	Buzzer			1	
TAMPER	Button Switch(Type A/50mA/30VDC)				
Dimension (mm)	PC: 110(H)X79(W)X26(D) / Metal Housing: 125(H)X89(W)X30(D)				
Housing Material	Housing		PC / Metal Housing (PC + Zinc Alloy)		
· ·	Keypad		ı	Illuminated Keypad / Invisible Keypad function	
Color	Black, Gray, Silver, Pearl White				
Weight (g)	PC: approx. 120 / Metal Housing: approx. 470				
Power Consumption	<3W				
Power Voltage	9-24VDC				
Ingress Protection	IP55				
Enviroment	Operating Temperature			-20°C ~ +70°C	
	Storage Temperature			-40°C to +75°C	
		ing Humidity		0%~90% (non-condensing)	
	Storage Humidity		0	0%~95% (non-condensing)	

Keypad Features

1. Illuminated Touch Keypad

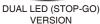
All-in-One: Have access by either swiping valid tags or entering PIN. Configuration setting can also directly proceed via its keypad.



2. Keypad-less

RFID Only: Have access by swiping valid tags. Numerical keypad is unavailable and use External WIEGAND Keyboard when configuration is necessary







SINGLE LED VERSION

3. Illuminated Touch Keypad Invisible

Keypadless Controller of Illuminate Series built-in invisible touch keypad function for non numerical keypad panel, in which after enabling the function, press keypad for keypad command configuration setting.

Operational method:

- Swipe authorization card or master card to enable the keypad function
- 2. Cover original panel with Numerical Keypad Panel Layout (layout available for download and please print it)
- Operate configuration setting according to the numerical keypad position. After done with configuration, remove the Numerical Keypad Panel Layout

Programming

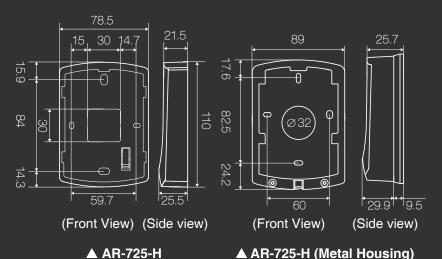




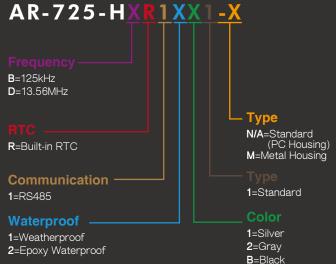
Numerical Keypad Panel Layout Download

P=Pearl White

INSTALLATION(mm)



HOW TO ORDER





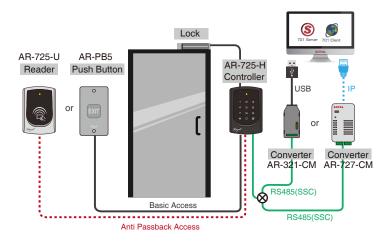
APPLICATION & STRUCTURE DIAGRAM

STANDALONE & NETWORKING ACCESS CONTROL

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

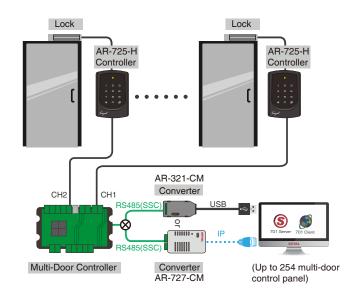
Anti Passback: restrict user to re-enter before exiting venue or increase security level by having access reader at the other side of the door. Both entering and exiting will required swipe card or keyfob for access.

Netwoking: beside configuration through Wiegand Keyboard and Master Card, you can also link AR-725-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-725-H installed with additional hardware of SOYAL Multi-Door Control Series. Under Multi-Door Control Panel, when RS485 communication is working normally, AR-725-H will be a Slave Reader of Control Panel. Once its communication is cut off, AR-725-H will automatically be Access Control and have control on its user and parameter setting.

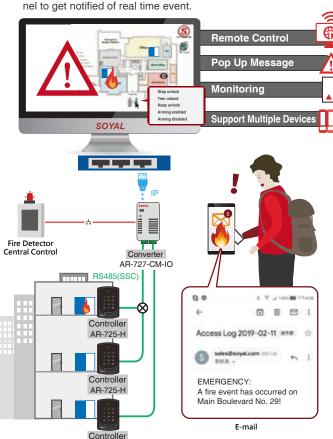


--16000 User, 63 Timezone--

RELEASE ALL DOOR LOCKS IN FIRE EVENT & EMAIL NOTIFICATIOM

When fire event occurred, SOYAL controller connected to AR-727CM-IO will automatically release all doors to open. At the same time, send fire alarm event notification to authorized personnal to get notified of real time event.

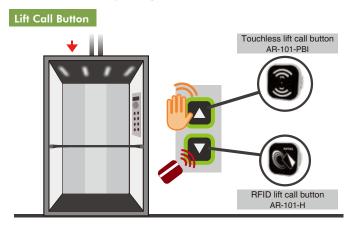
--3000 User, 11 Timezone--



AR-725-H

TOUCHLESS LIFT CONTROL SOLUTION

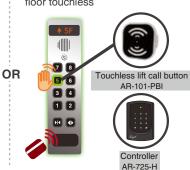
A feature for users to reach a designated single floor by swiping the user card only without pressing the elevator button rather than reading a user card and then pressing the floor button.



Floor Button inside Lift Self-control floor access setting

Reach a designated single floor by swiping the user card without pressing the elevator button

Swipe valid tags and wave your hand to sensor for destination floor touchless



PERIPHERALS / ACCESSORIES

HIGH LEVEL SECURITY

Anti-Cloning Kits



Mifare Encryption

Encoder: AR-725-P w/Authorization Tags Software: Mifare Key



Desfire Encryption

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

Expansion I/O Control



I/O Modules

AR-401 Series: Multiple Channel I/O Module AR-403 Series: Tiny Digital I/O Module

STANDALONE

Input/Output

Locks Magnetic Lock

AR-0600M Electric Bolt Lock AR-1207 Series

Cabinet Lock

AR-1211-P/AR-1213-P



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

AR-725-H

NETWORKING

Software



File Based & Data Based Interchangeable Software for Access Control, Time Attendance, Status **Monitoring and Configuration**

701 Server & 701 Client



Firmware Upgrade

ISP Tools

Signal/Interface Converter



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

Necessary

Electric Strike AR-YS-130NO/AR-YS-131NO

Illuminate Series



16.000 User IP Based Access Controller / Wiegand Reader AR-725-E / AR-725-K/U



Push Button AR-PB5 Series

Stainless Steel

(AR-721RB)

1 Form C relay with time delay AR-721RB 1 Form C relay

AR-821RB 2 Form C relay

AR-829RB

• External Relay Output • Programming (Alarm & Security Trigger Alarm)

(AR-821RB)

(AR-829RB)



Keyless Editing Self programmed master card

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





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



Installation

Color: Gray / Black

AR-HT-98128

FAQ

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

As Face Recognition is more and more in demand, A: 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 between SOYAL Home Series and Enterprise Series Controller?

Kevfob

SOYAL access controller classified into two categories in term of specification; Home Series and Enterprise Series. SOYAL Home Series controller has already included 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.



