SOYAL®

Iron Series

AR-363-E

Waterproof Metal Dual Frequency Access Controller

All-in-one metallic vandal resistant design with precise press-type keypad built-in suitable for flexible control structure



Metallic vandal resistant enclosure with pressing keypad model.

All-in-one metallic vandal resistant design with precise press-type keypad built-in.

Communication Redundancy

Support TCP/IP and RS485 interface, when main communication disconnects, deputy communication will work to maintain normal work

HTTP WEB Server Remote Management

Controller is able to remotely managed at any time via browsers not restricted by computer brands or mobile phone brands

2 Sets of UART Ports

Flexible integration with peripheral devices, like I/O module, floor control panel, LED display, infrared thermo-camera, etc.

Support SOYAL Cascade Structure

Built-in multiple control modes:
1. One door
2. Two door (with WG reader)
3. Multiple doors (with multi-door control panel)

Features

Waterproof (IP66) | Anti-Vandalism | Two Doors Control | 按壓按鍵功能 | Quality in Color | Dual-Band Frequency

Web

- Built-in watchdog, real time clock, anti-vandalism switch, ingress protection, alarm setting, holiday edit, auto open door time zone, door group, door status DI, anti-passback function and duress code & output
- Support user capacity: 16,000 / 32,000 / 65,000 users
- Support floor control: 64 / 32 / 16 floors
- In case Ethernet disconnects, controller is still able to identify UID and record event log
- Multiple access mode: card only, card or password, card and password
- Multiple DO outputs: Lock, alarm, arming, duress and digital relay
- Supported frequency: 125kHz, 13.56MHz and dual band
- Standalone / Networking is switchable during working
- Support RS485 communication encryption, SSC(Soyal Security Communication)
- Communication Redundancy : Support TCP/IP and RS485 interface, when main communication disconnects, deputy communication will work to maintain normal work

SPECIFICATION

Frequency	125kHz	ISO18000-2: EM4001 and EM4095 compatible
	13.56MHz	ISO 14443 / ISO 7816-4 Mifare Ultralight, Classic,Plus / DESFire EV1, EV2 / NFC (card simulation) / ISO15693 / Felica
UID Bits	24-64(Adjustable)	
RF Reading Range	1-3 cm	
RFID Crypto	CC Certification: AES Crypto comply with EAL5+	
Host	TCP/IP (Optional By Order) / RS485 (9600 bps) / SSC (Soyal Security Communication)	
Serial	TTL UART (4800~115200 bps) X2 (half-duplex) *Expandable serial port	
Wiegand Input	Wiegand 26~64	
Wiegand Output	Wiegand Data 0, Data 1 and Arming Output, Duress Output share the same terminal	
DI/DO (Doors Control:2)	DI	Egress X1 / Door Status X1
	Door Lock Output	Main Controller: Door Lock Relay X1 Wiegand Output Port: Open Collector X1
	Alarm Output	Open Collector X1
	Wiegand Port	Wiegand Data 0 Intput X1 / Wiegand Data 1 Intput X1 Red LED Output X1 / Green LED Output X1 Beeper Output X1
	Open Collect Output	Arming Output X1/Security Trigger Signal X1 Duress Output X1
	Tamper	Limit switch (1Form C/1000mA/30VDC)
User Capacity / Floors Number	16,000 Users/64 Floors (Default value)：32,000 Users/ 32 Floors：65,000 Users/16 Floors	
Event Log	32,000	
Power Voltage	9-24VDC	
Flash memory	Capacity 32Mb	
RTC	RTC clock can be maintained for 14 days after power off, and the time error per week is within 1 minute	
CPU	ARM Cortex M3 (32 bits)	
Power Consumption	<5W	
Indicator	LED	Bi-Color LED (Green/Red)
	Buzzer	1
Housing Material	Metal Housing	
Color	Champagne Gold	
Keypad	Push button style keypad	
Dimension (mm)	118(H)X68(W)X30(D)	
Net Weight (g)	approx.300	
Ingress Protection	IP66	
Enviroment	Operating Temperature	-20℃ ~ +70℃
	Storage Temperature	-40℃ ~ +75℃
	Operating Humidity	0%~90%
	Storage Humidity	0%~95%

WHAT WE OFFER

Reader Mode Supported

AR-327-E controller can also be set to Reader mode, with Wiegand output that can be integrated with various brands of controllers, with a dual-band format that turns into Wiegand dual-band Reader.

Real-time event log integration

After reading card, IP-based controller AR-327-E will actively send the event logs through port 8031 for the integration with the 3rd party program.

Auto-Schedule

AR-327-E special firmware connect with DO module AR-401RO16B, using Lift Control program enabling you to control each Digital Output and formulate a time schedule for each output, up to 64 . It's suitable for each various switching devices, such as lighting, sprinkler system, air conditioning, etc.

Auto-Open

The Wiegand reader Auto-Open time zone setting to control the infrared activation function / output the second set of door contact functions at a specific time.

Auto-Alarm

Built-in 16 sets of Alarm to output flash light, alarm clock, broadcast system, and each set of Alarm can set the output time.

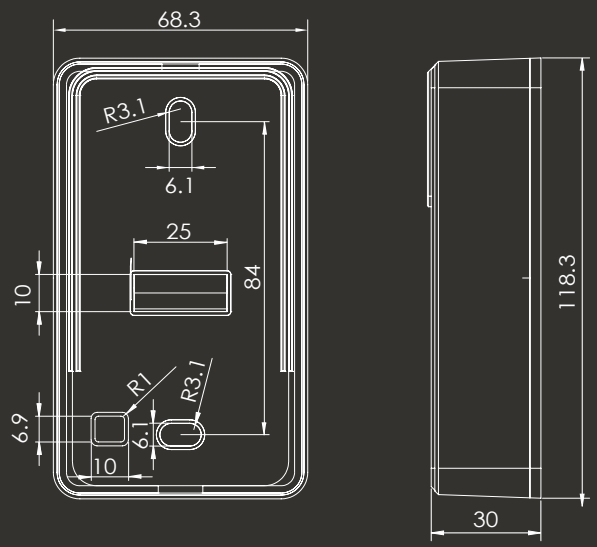
With 2 sets of UART port

It can be applied to:
(1) 256-point Mailbox Management System
(2) Auto-scheduling control function-64-point DO control
(3) Printer integration
(4) Voice module (AR-721V-V2)

Double Door Control

Connected with Reader, it can manage 2 access control by a signle unit AR-327-E. The second set of access control also has the exit switch, door contact status and door output control, can also set different access level (such as - can access Door A but can not access Door B).

INSTALLATION(mm)



Surface mounting hole(Front view) (Side view)

HOW TO ORDER

AR-363-EXR11A1-TM

Frequency
B=125kHz
D=13.56MHz
S=125KHz+13.56MHz

RTC
R=Built-in RTC

Communication
1=RS485

Waterproof
1=Weatherproof

Keypand Selection
TM=Keypad Touch panel + Metal Housing(Zine Alloy)

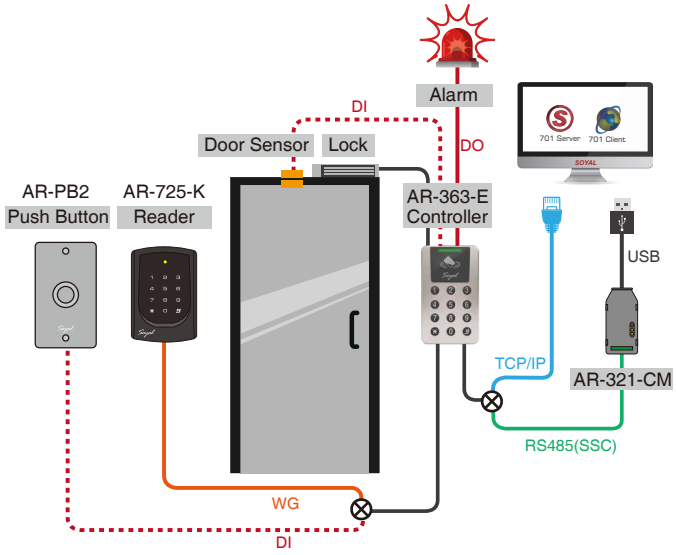
Type
1=Standard

Color
A=Champagne Gold

APPLICATION & STRUCTURE DIAGRAM

STANDALONE & NETWORKING ACCESS CONTROL

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.
AR-725-E can detect abnormal event with the door contact status in arming mode. When a forced entry or door opening too long, an alarm is generated and sent to the software, AR-725-E alarm output can be equipped with a flash buzzer as warning on site.



--16,000 User, 63 Timezone--

BUILT-IN HTTP WEB SERVER

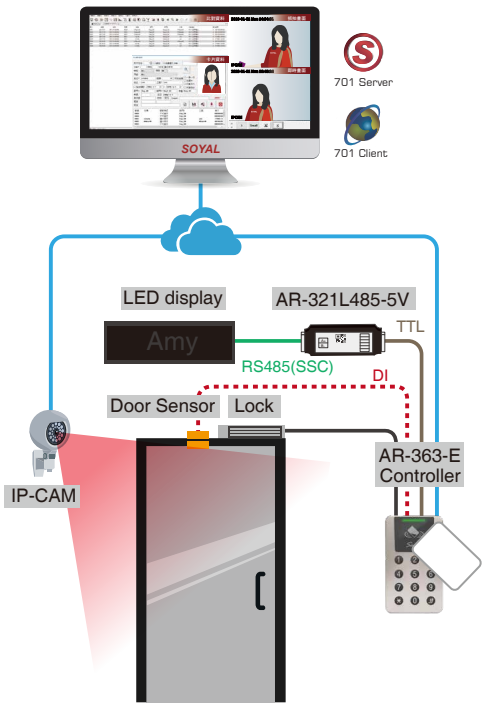
IP-Based Controller has built-in HTTP WEB Server for Access Control, just input IP address, have it logged in to remotely control a single controller, enabling adding User card, time zone setting, review event logs, etc, even more can remotely open/close door regardless the brand of computer and smart phone. As long as there is a WEB browser, the remote management function can be achieved.



Remote setting by computer, Pad, Smartphone

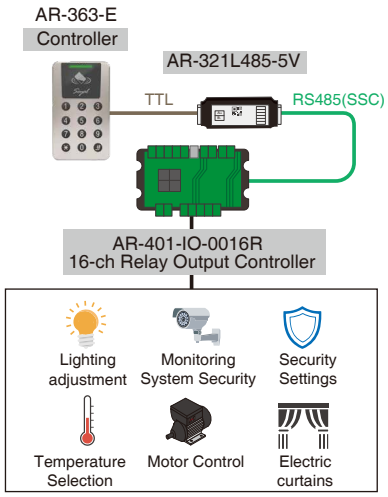
REAL-TIME CAPTURING LIVE PICTURE

once tapping card on access controller, capturing live picture for administrator to crosscheck the live picture and the database picture; it can display the name on LED signboard simultaneously. The captured picture will be saved in path 701Client for tracking.



AUTO-SCHEDULING

Smart Home System : AR-725-E connect with DO module for auto-control, can formulate a ime schedule for each output, up to 64. It's suitable for each various switching devices.



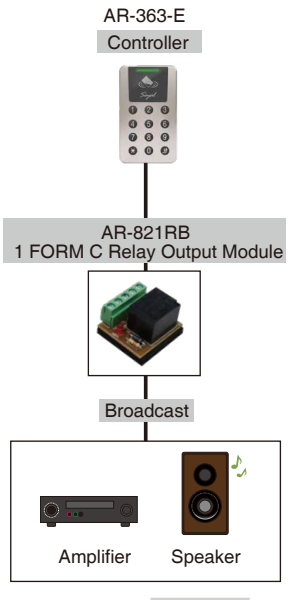
Lift Control:
Auto-Open by time zone setting in particular floors
Lighting adjustment:
Smart lighting control combined with traditional switch and digital control
Sprinkler system:
Auto-Watering activated by time zone in different places
Electric curtains:
Electric equipment control such as Electric curtains, Gasshut-off valves and etc.
Temperature Selection:
Heating and cooling Air Conditioning system control

16 Time Zones for flexible setting

1. 07:00 ··· 16. 21:00

AUTO-ALARM

Built-in 16 sets of Alarm to output flash light, alarm clock, broadcast system, and each set of Alarm can set the output time.



16 Time Zones for flexible setting

1. 07:00
2. 08:00
⋮
16. 21:00

PERIPHERALS / ACCESSORIES

HIGH LEVEL SECURITY

- Anti-Cloning Kits



Mifare Encryption
Encoder: AR-725-P
Authorization Tags
Software: Mifare Key



Desfire Encryption
Encoder: AR-837-P
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



AR-363-E

STANDALONE

- Input/Output



Locks
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 / Push Button / Alarm / Burglary Security System

連 網

- Software



File Based & Data Based Interchangeable Software for Access Control, Time Attendance,Status Monitoring and Configuration
701 ServerSQL & 701 ClientSQL



Firmware Upgrade
Udp Updater



Remote Lift Control and Time Table Setting
Lift Control

- Signal/Interface Converter



POE Module
AR-MDL-RJ45-POE-12V12W



Isolated USB to RS-485
AR-321-CM
Isolated RS232 to RS-485 Converter
AR-321-CM-485232



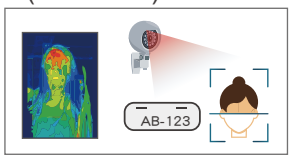
Ethernet to RS485
AR-727-CM
AR-727-CM-IO-0804M
(with I/O for Fire Alarm to open all doors)

- Multi-Door AntiPassback



Multi-Door Control Series
AR-716-E16: 16 Doors IP Control Panel
AR-716-E18: 18 Doors IP Control Panel

- Extensive Applications (UDP/TCP)



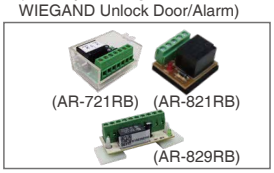
Infrared Thermo-Camera, LPR (License Plate Recognition)

- Iron Series



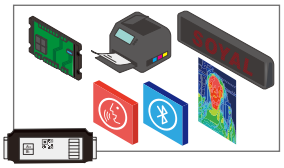
IP Based LCD Access Controller
AR-327-E
Keypand Access Controller
AR-321-H
Proximity Reader
AR-321-K/U

- External Relay Output
(Security / Arming / Duress / WIEGAND Unlock Door/Alarm)



1 Form C relay with time delay
AR-721RB
1 Form C relay
AR-821RB
2 Forcm C relay
AR-829RB

- UART Port x 2



Lift Control / I/O Module / Printer / LED display / Voice Module / Bluetooth Module / Infrared Thermo-Camera

- Programming • Necessary



Keyless Editing
Self programmed master card



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



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

FAQ

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.

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.

More FAQ