SOYAL®

Iron Series
AR-327-E
Multi-Function Graphic Proximity Controller

Anti-Vandalism IP-based contorller with zinc alloy housing and backlight touch keypad, suitable for flexible control structure

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

Eight functional keys for
Time Attendance
Duty on/off, Break out, Break return, Overtime on/off etc.

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 (IP56)	Illuminated Touch Panel	Anti-Vandalism	Background Light	Two Doors Control	Dual-Band Frequency		Web	Youtube

- 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

- Two doors control: Two sets of push button and door status, relay output for lock and WG output for reader
- 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)

SPECIFICATION

Communication interface	Host	RS485(9600 bps (N, 8, 1) / TCP/IP SSC (Soyal Security Communication)
	Serial	UART (TTL, 4800-115200 bps) x 2
Frequency		125kHz / 13.56Mhz / Dual Band
Supported Tags	125kHz	ISO18000-2: EM4001 and EM4095 compatible
	13.56MHz	1. ISO 14443 Mifare Ultralight, Classic, Plus, DESFire EV1&EV2 2. ISO 15693 3. Felica 4. NFC (card simulation)
Crypto		13.56MHz: CC Certification: AES Crypto comply with EAL5+
RFID Reading Range		125kHz: 3-7 cm / 13.56MHz: 1-3 cm
UID Bits		64
DI/DO	DI	EgressX2 / Door State X2
	DO	Security Output / Arming Output / Duress Output
	RO	Door Lock Relay / Alarm Relay
Doors/Floors Number		2 Doors / 64 Floors
User Capacity		16,000
Event Log		32,000
Indicator	LED	6 Bi-Color LED Power / Alarm / Arming / OK / Error / In processing
	Buzzer	1
TAMPER		Limit switch(1 Form C/ 1000mA / 30VDC)
Dimension (mm)		140(H)X92(W)X40(D)
Housing Material		Zinc Alloy
Color		Chrome
Weight (g)		430±10
Power Consumption		<5W
Power Voltage		9-24VDC
Ingress Protection		IP56
LCD Panel		128*64 (4 line messages, 16 Characters each line)
Enviroment	Operating Temperature	-20℃ ~ +65℃
	Storage Temperature	-25℃ to +70℃
	Operating Humidity	20%~90%
	Storage Humidity	5%~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.
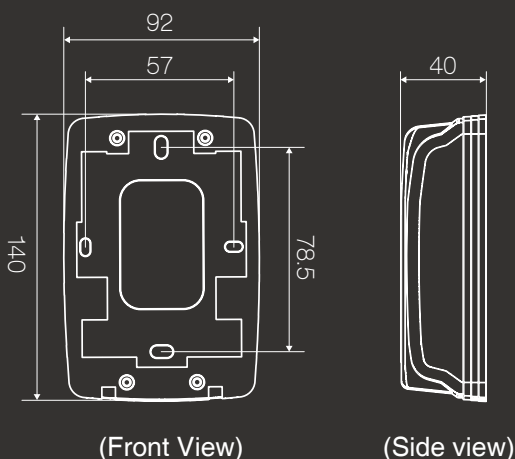
✔ **With 2 sets of UART port**

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)

(Front View)   (Side view)

HOW TO ORDER

AR-327-EXR1111-X

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

RTC
R=Built-in RTC

Communication
1=RS485

Waterproof
1=Weatherproof

Additional Module
A=TCP/IP Module
P=POE Features

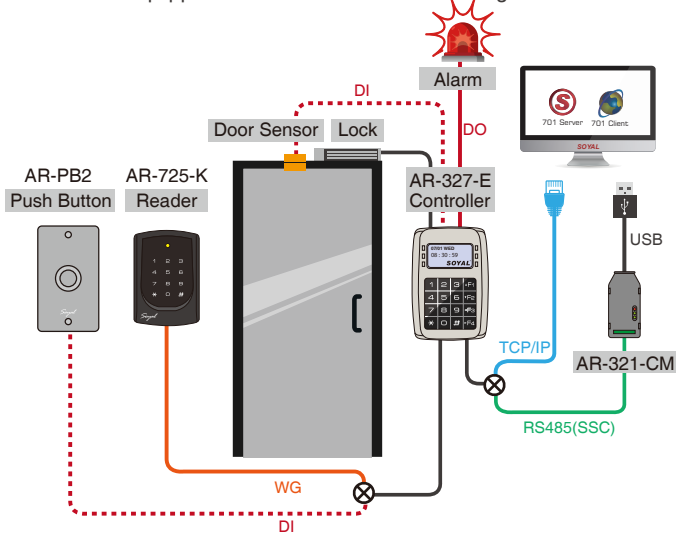**Language(LCD)**
1=English/Chinese

Color
1=Silver

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-327-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-327-E alarm output can be equipped with a flash buzzer as warning on site.
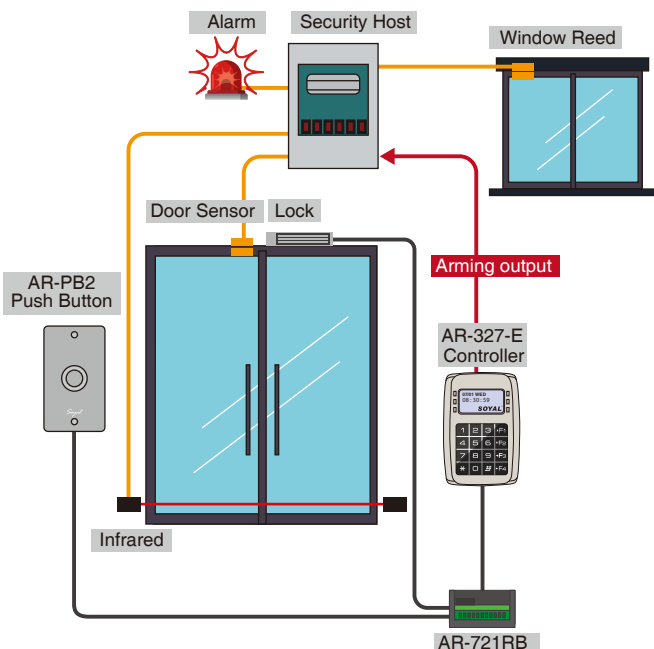

--16,000 User, 63 Timezone--

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.
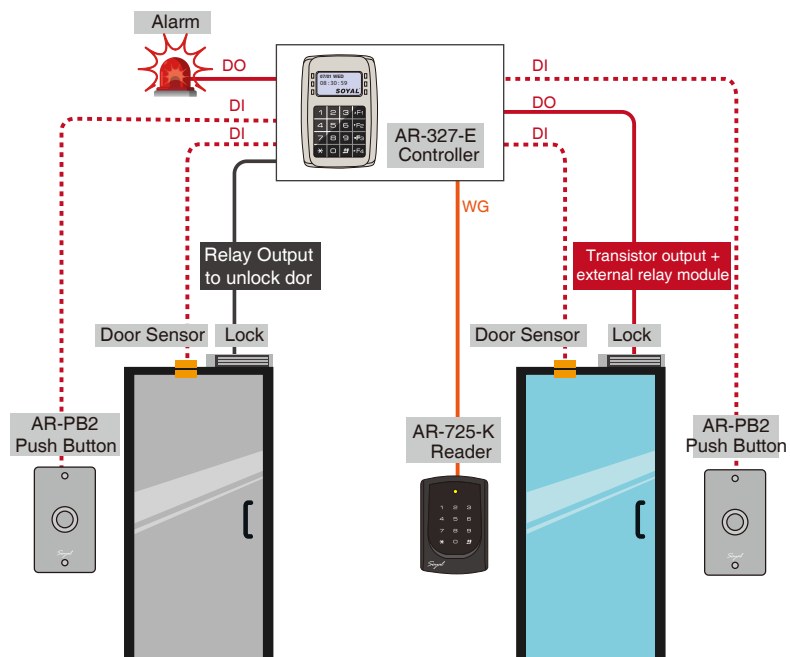

Remote setting by computer, Pad, Smartphone

INTEGRATED WITH BURGLARY SYSTEM

AR-327-E metal material makes it solid and sturdy for anti-vandalism, connecting digital signal module to distribute control exit button and electric lock, that preventing from door unlocked when if controller is destroyed; when there is a burglary system indoor, that can be activated/inactivated by access controller, after inputting arming code+ swiping valid card it trigger Digital Output (Pulse/Latch), a arming LED on AR-327-E to judge the status whether in arming mode, the best choice of Access Control Solution.

E-SERIES CONTROLLER WITH WIEGAND READER FOR 2 DOORS CONTROL

SOYAL E-Series Controller is a Two Doors Controller, with WIEGAND Reader that enabling the entry/exit control in the same door ; providing Anti-Pass Back function, it's prohibited to entry the door if only entry record without exit record; when controlling 2 different doors that providing different access level (accessible in Door A but inaccessible in Door B)

PERIPHERALS / ACCESSORIES

HIGH LEVEL SECURITY
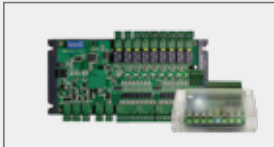
• Anti-Cloning Kits

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

Mifare Key

Desfire Encryption
Encoder: AR-837-P
Authorization Tags
Software: 323D Master

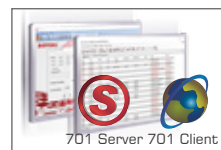323D Master

• Expansion I/O Control

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

AR-327-E

NETWORKING

• Software

701 Server 701 Client

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

UdpUpdater

Firmware Upgrade
UdpUpdater

LiftControl

Remote Lift Control and Time Table Setting
LiftControl

• Signal/Interface Converter

USB
RS232

SOYAL

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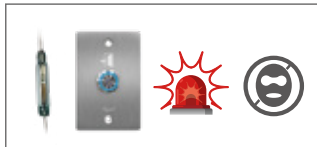AR-727-CM-IO-0804M
(with I/O for Fire Alarm to open all doors)

• Multi-Door AntiPassback

SOYAL

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

• Extensive Applications (UDP/TCP)

AB-123

Infrared Thermo-Camera, LPR (License Plate Recognition)

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

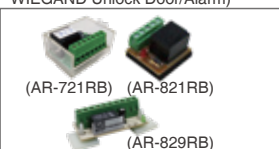**Door Sensor / Push Button / Alarm / Burglary Security System**

• Iron Series

(AR-321-H/K)   (AR-321-U)

按鍵型門禁控制器
AR-321-H

門禁讀頭
AR-321-K/U

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

(AR-721RB)   (AR-821RB)

(AR-829RB)

1 Form C relay with time delay
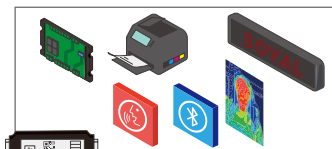AR-721RB

1 Form C relay
AR-821RB

2 Forcm C relay
AR-829RB

• UART Port x 2

SOYAL

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

• Programming

MASTER CARD

Keyless Editing
Self programmed master card

• Necessary

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: How to replace LCD display pictures in standby mode for SOYAL Enterprise Series controller?

A: E series LCD controllers can replace the pictures displayed in standby mode through a software tool, and can design the drawing file according to your needs, such as the company logo or building image, etc., which can improve the overall image.

◄Scan QR cod to view

Q: How to operate voice module function with SOYAL Enterprise Series LCD controller?

A: Enterprise Series controller can connect with external voice module, after downloading alias it will display Alias on LCD display for administrator's crosschecking; this function is also good to suit in community as reminder to the residents when letters arrive.

◄Scan QR cod to view

More FAQ