

SOYAL[®]

Vision Series

AR-837-E/EE

Graphic Display Multi-Function Proximity Controller

IP-based controller supporting flush-mount and surface-mount installations and doorbell function; customizable panel design enhance overall building image



Multi-Language Menu Setting

Intuitive menu make functional setting simple, no need to memorize command set

8 Sets of Time Attendance

Duty On/Off, Break Out, Break Return, Overtime On/Off

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)

Reader Mode Supported

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

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.

Communication Redundancy

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

Features



Double Relay



Door Bell



Complete Indicator



Quality in Color



Two Doors Control



Suitable for
Extended Function



Web



Youtube

- Dual communication interfaces: RS485 and Ethernet (10/100M Base T)
- 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-pass-back 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)
- Communication Redundancy : Support TCP/IP and RS485 interface, when main communication disconnects, deputy communication will work to maintain normal work

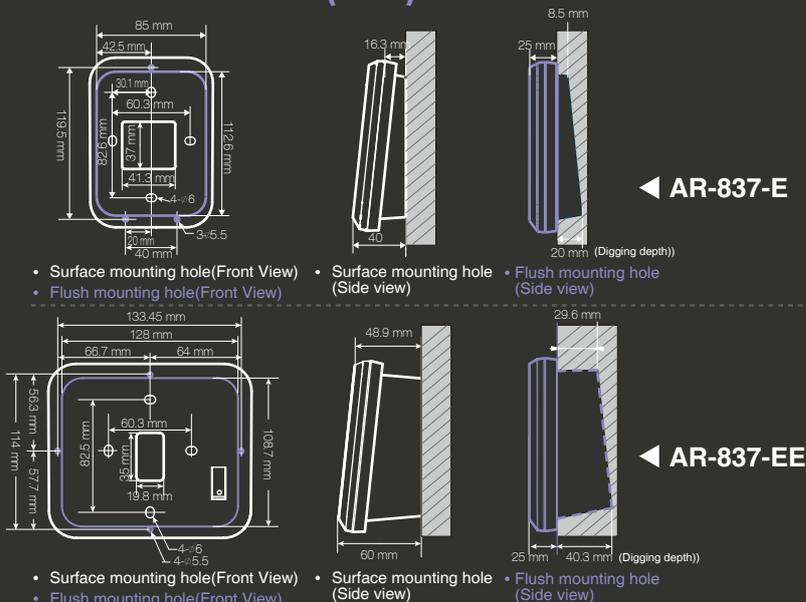
SPECIFICATION

Frequency	125kHz / 13.56MHz / Dual Band (125kHz & 13.56MHz)	
	125kHz: ISO18000-2: EM4001 and EM4095 compatible 13.56MHz: ISO14443/ISO 7816-4 Mifare Ultralight, Classic, Plus / DESFire EV1, EV2 / NFC (card simulation) / ISO15693 / Felica	
UID Bits	24-64 Bit (Adjustable)	
RF Reading Range	125kHz: 5-15 cm ; 13.56MHz: 2-5 cm ; Dual Band: 2-15 cm	
Crypto	13.56MHz / Dual Band : CC Certification: AES Crypto comply with EAL5+	
Communication interface	Host	RS-485 (9600 bps) / TCP/IP (Optional By Order) / POE (Optional By Order) / SSC (Soyal Security Communication)
	Serial	TTL UART (4800-115200 bps) X2 (half-duplex)
	Wiegand Input	Wiegand 26-64
	Wiegand Output	Wiegand Data 0, Data 1 and Arming Output, Duress Output share the same terminal
DI/DO	DI	Egress X2 / Door Status X2
	Relay ouput	Door Lock Relay / Alarm Relay
	Open Collect Output	Arming Output / Security trigger signal / Duress Output / Alarm Output / Wiegand Port open door
Doors	2	
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	
Power Consumption	<5W	
Indicator	6 LED (Green/ Red) : Buzzer: 1	
TAMPER	Limit switch (1 Form C/ 1000mA / 30VDC)	
LCD Panel	128*64 (4 line messages, 16 Characters each line)	
Housing Material	ABS	
Color	Edge: Black / Silver	
Keypad	Illuminated Rubber	
Dimension (mm)	AR-837-E: 128(H)X94(W)X40(D) AR-837-EE: 128(H)X147(W)X60(D)	
Net Weight(g)	AR-837-E: approx. 230 ; AR-837-EE: approx. 395	
Ingress Protection	IP65	
Environment	Operating Temperature	-20°C ~ +70°C
	Storage Temperature	-40°C to +75°C
	Operating Humidity	0%-90% (non-condensing)
	Storage Humidity	0%-95% (non-condensing)

WHAT WE OFFER

- ✓ **Double Doors Control**
 Connected with Reader, it can manage 2 access control by a single unit of controller. 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).
- ✓ **Real-Time Event Log Integration**
 After reading card, IP-based controller will actively send the event logs through port 8031 for the integration with the 3rd party program.
- ✓ **Auto-Schedule Function**
 AR-327-E special firmware connects 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
- ✓ **Extended Application of Auto Open Time**
 The Wiegand reader Auto-Open time zone setting is able to control the infrared activation function / output the second set of door contact functions at a specific time.
- ✓ **Auto-Alarm Function**
 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)
- ✓ **Reader Mode Supported**
 Controller can 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.

INSTALLATION(mm)



HOW TO ORDER

AR-837-EXR1X11-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
 B=Black Edge
 1=Silver Edge

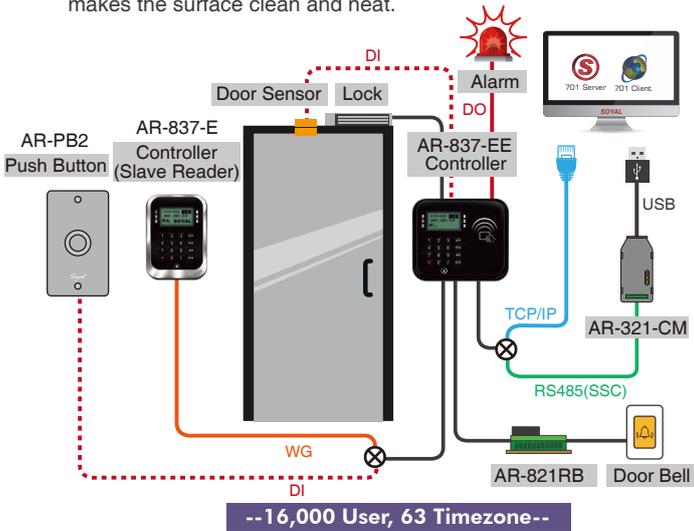
APPLICATION & STRUCTURE DIAGRAM

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-837-E/EE 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-837-E/EE alarm output can be equipped with a flash buzzer as warning on site.

Visitor can either press the door bell on AR-837-E/EE controller or external bells that being connected to relay module which use the independent output PIN, no need to install other door bells, it makes the surface clean and neat.



BUILT-IN HTTP WEB SERVER

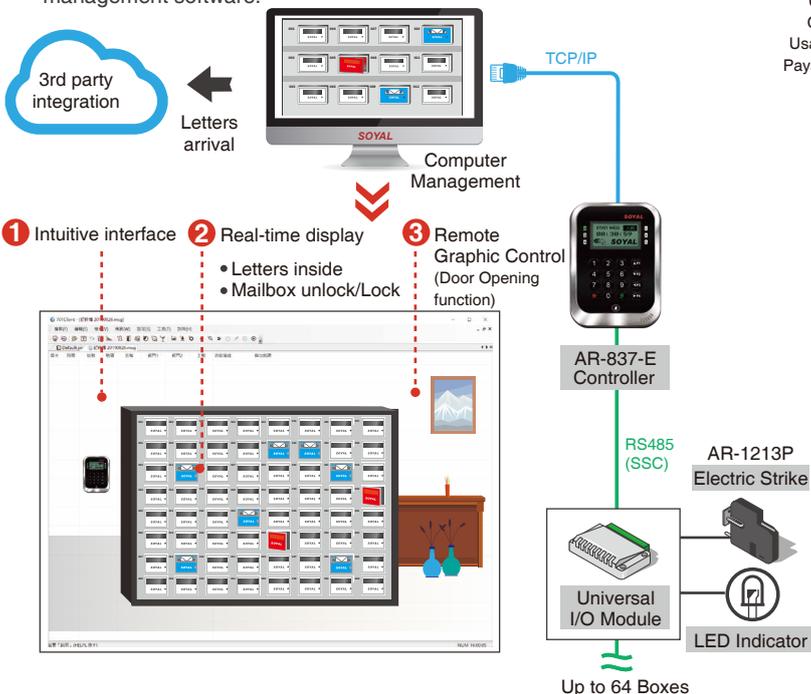
IP-Based Controller has built-in HTTP WEB Server for Access Control, just input IP address, have it logged in to remotely control a single controller, enabling adding User card, time zone setting, review event logs, etc, even more can remotely open/close door regardless the brand of computer and smart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



Smart Mailbox Integration Application

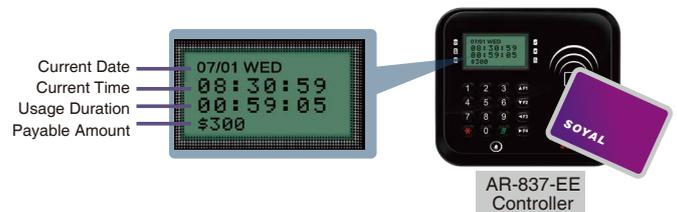
When letter arrives in mailbox, LED light will be flashing to remind user and send a real-time message to software 701Client Pop Graphic; when user swipes card to open mailbox and take out letter, then close the mailbox, LED light will be off and the message will be eliminated in 701Client Pop Graphic.

It can also detect whether the mailbox is not closed and activate alarm when open too long. In addition, no matter what is the status (letter inside or open too long), the controller always provides real-time information for third-party integration such as property management software.



Offline Cashless Payment & Store Value Application

With SOYAL SOR MifareKey Encryption to manage offline cashless payment & to store value. According to customer needs to deduct the value by time duration, time frequency, etc. Once swiping card, the LCD monitor will display the deduction and balance, etc.



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

NETWORKING

• Software



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

701ServerSQL & 701ClientSQL



Firmware Upgrade

UdpUpdater



Remote Lift Control and Time Table Setting

LiftControl

• 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)

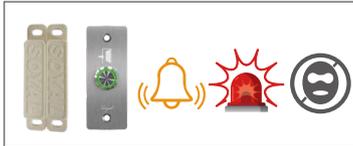
STANDALONE

• 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 / Door Bell / Alarm / Burglary Security System

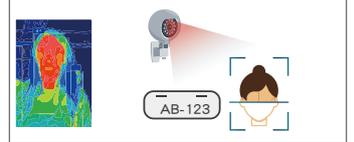
• Multi-Door AntiPassback



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)

• Illuminate Series



AR-725-K

Proximity Reader

AR-725-U

• External Relay Output

(Security / Arming / Duress / WIEGAND Unlock Door/Alarm)



1 Form C relay with time delay

AR-721RB

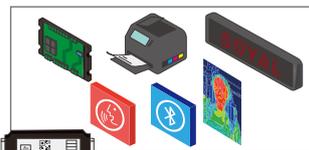
1 Form C relay

AR-821RB

2 Form 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: 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.

Q: How to Use Optional Voice Module on Enterprise (E Series) Controller?

A: SOYAL Enterprise Series Controller are able to connect SOYAL Optional "Voice Module" AR-721V to support Voice function; If the client need to integrate other Voice Module, SOYAL will provide related protocol for development and integration



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More FAQ