SOYAL®

Vision Series

AR-837-EF9DO

RFID LCD Fingerprint Access Controller

Built-in Door Bell button / Illuminated Keypad Design /
Weatherproof / HID embedded module (Option)



Support Fingerprint Recognition and Multiple Access Mode

Select single access or dual access mode with combination of fingerprint, card, and PIN

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)

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) X1 (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)	
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)	Roof Type: 128(H)X147(W)X73(D) Standard Type: 128(H)X147(W)X65(D)	
Net Weight(g)	approx. 320	
Ingress Protection	IP65	
Environment	Operating Temperature	-20℃ ~ +70℃
	Storage Temperature	-40℃ to +75℃
	Operating Humidity	0%~90% (non-condensing)
	Storage Humidity	0%~95% (non-condensing)

FINGERPRINT SPECIFICATIONS

FP Sensor Type	Optical Sensor
FRR	<1%
Image Resolution	500dpi
Fingerprint Capacity	9000FP
Total Users with FP Capacity	4500 User (1-2 fingerprints for each user)
Identification Speed (1:1000)	<0.7sec
Sensible Temperature	+30°C to +31°C

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).

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

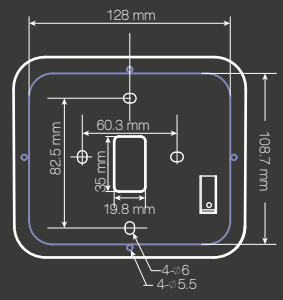
Real-Time Event Log Integration

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

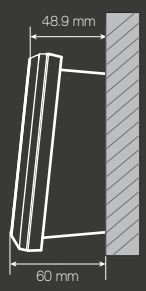
Extended Application of Auto Open Time

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.

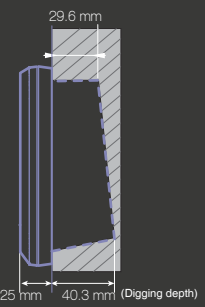
INSTALLATION(mm)



- Surface mounting hole(Front View)
- Flush mounting hole(Front View)



- Surface mounting hole (Side view)



- Flush mounting hole (Side view)

HOW TO ORDER

AR-837-EFX9DO-XXX-X

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

Module
9DO =Optical Module

Edge Color
B=Black Edge
1=Silver Edge

Network
A=TCP/IP

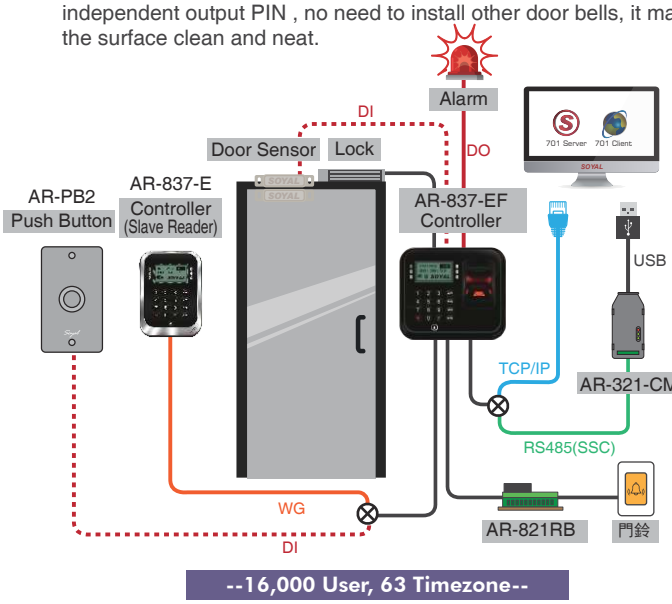
Logo
N=No Logo
X=Soyal Logo

Type
R =Roof Type
X =Standard Type

APPLICATION & STRUCTURE DIAGRAM

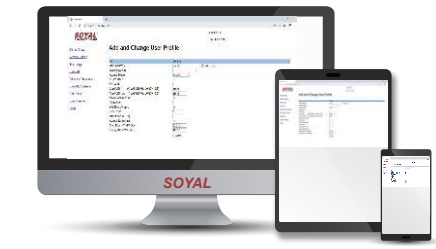
STANDALONE & NETWORKING ACCESS CONTROL

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-EF9DO 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-EF9DO alarm output can be equipped with a flash buzzer as warning on site.
Visitor can either press the door bell on AR-837-EF9DO 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.

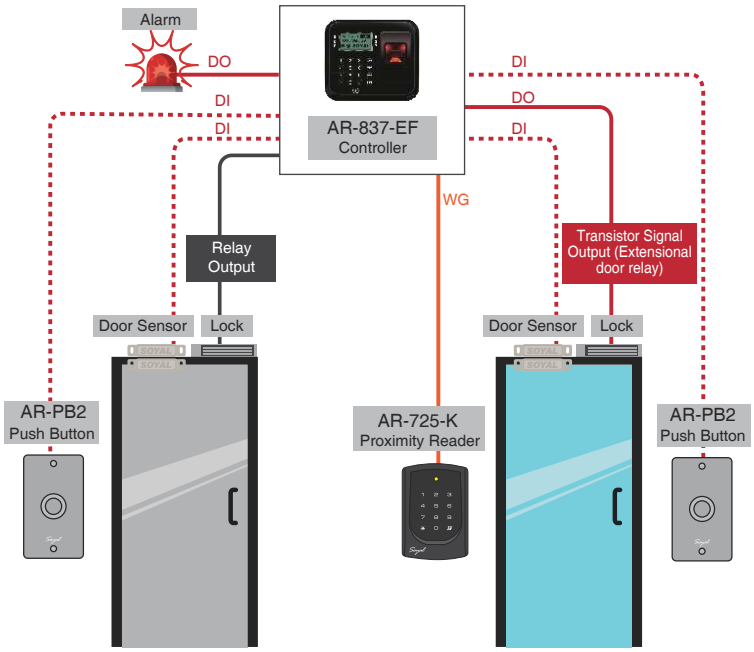


Remote setting by computer, Pad, Smartphone



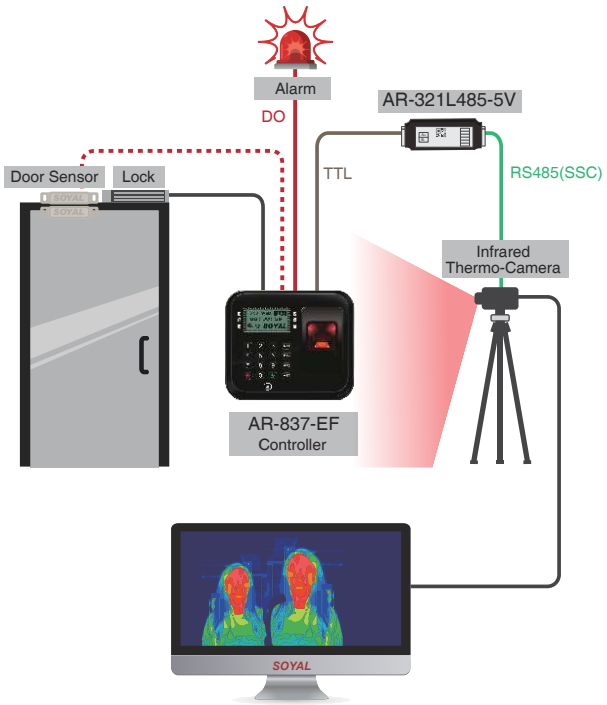
DUAL-DOOR CONTROL ON ENTERPRISE E SERIES CONTROLLER AND WIEGAND READER

SOYAL Enterprise E series controller supports dual-door control; Connecting one Wiegand reader to E controller, it can not only manage the entry and exit on the same door with Anti-pass back function and but also manage two different doors through independent access level setting (for example, access on Door A but access denied on Door B)



INTEGRATED WITH TEMPERATURE DETECTION SYSTEM

Access Controller integrate with Temperature detection, personnel temperature is too high when swiping the card, door will not be open, also linkage to the alarm system to remind administrator.



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



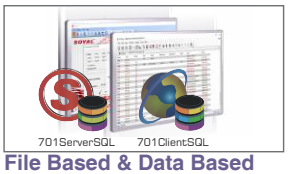
I/O Modules
AR-401 Series:
Multiple Channel I/O Module
AR-403 Series: Tiny Digital I/O Module



AR-837-EF9DO

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

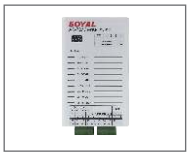


POE Module
AR-MDL-RJ45-POE-12V12W



Isolated USB to RS-485
AR-321-CM

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



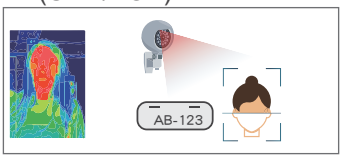
Ethernet to RS485
AR-727-CM
AR-727-CM-IO-0804M
(with I/O for Fire Alarm to open all doors)

- 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)



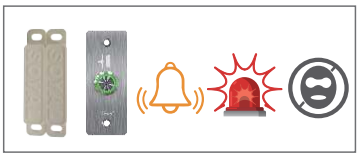
Infrared Thermo-Camera, LPR (License Plate Recognition)

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

- Illuminate Series



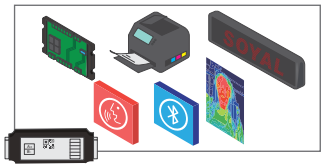
AR-725-K
Proximity Reader
AR-725-U

- 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 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: 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 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

◀ Scan QR cod to view

More FAQ

RoHS Compliant