SOYAL®

Illuminate Series
AR-725-E
Touch Keypad IP Access Controller
Illuminated touch panel with palm size and sleek design

Metal frame for Anti-vandalism
The optional metal frame can strengthen its rigidity and the side collision protection to reduce damage.

Lightweight classic design
The size of AR-725-E is as big as the palm, which is suitable for all kinds of installation site. 1 bi-color LED and 1 beeper for identification providing the convenience of use.

Invisible Keypad
External form's keypad is optional to use reserved keypad function, only authorized personnel can activate and use keypad function.

Illuminated Touch Panel design - enhance waterproof and surface wear resistance
The seamless design of the touch panel can prevent water vapor from entering; the sleek touch will not wear out and the font printing will not disappear.

Features

Waterproof (IP55)	Illuminated Toush Panel	Housing Material	Invisible Keypad	Perfect Size and Design	Dual-Band Frequency	Web	Youtube

- RS-485 and TCP/IP communication interface
- Built-in Watch Dog to prevent the halting
- User capacity: 16,000; Event logs: 32,000
- Lift Contro: 64 floors/32 floors/16 floors
- Ingress Protection IP55
- Data reduancy while system disconnected, identify users and store event log up to 32000 records
- Access Mode: Card Only, Card or PWD, Card and PWD
- 63 auto-open zone settings and 16 sets of Auto-Open Zone editable
- WG port provides anti-pass-back function
- Built-in HTTP Browser for remote Access Control

- One more Exit Switch, Door Contact and Door Output to wiegand
- Built-in Multi-Output: Door Lock / Alarm / Arming / Duress / Security trigger signal
- 125kHz and 13.56MHz can be used simultaneously two channels
- TTL or RS-485 serial output for various application,lift control and Bluetooth Module
- Built-in 16 set of Alarm and 120 days of Holiday setting
- Including the input of door contact, offering the alarm system of both door opening too long and beingforced to open
- Intelligent to shift for standalone or networking mode while system disconnected
- Support SCC encryption (SOYAL SECURITY COMMUNICATION) to enchance security of communication

SPECIFICATION

Communication interface	Host	RS485(9600 bps (N, 8, 1) / TCP/ POE
	Serial	UART PORT (Output only) / 9600 bps (N, 8, 1) X2
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: PC: 5-15 cm / Metal Housing: 2-9 cm 13.56MHz: PC: 2-5 cm / Metal Housing: 2-4 cm
UID Bits		64
DI/DO	DI	Push Button X2 / Door Sensor X2
	DO	Security Output / Arming Output / Duress Output / Duress Output
	RO	Door Lock Relay
Doors/Floors Number		2 Doors / 64 Floors
User Capacity		16,000
Event Log		32,000
Indicator	LED	1 Bi-Color LED
	Buzzer	1
Extend Port		Tamper Switch / Tamper Output / WG In Port WG / WG Out Port / Buzzer
Dimension (mm)		PC: 110(H)X79(W)X26(D) Metal Housing: 125(L)X89(W)X30(H)
Housing Material		PC / PC + Metal
Color		Silver / Gray / Black / Pearl White
Weight (g)		PC: 150±10 / Metal Housing: 400±10
Power Consumption		<5W
Power Voltage		9-24VDC
Ingress Protection		IP55
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.
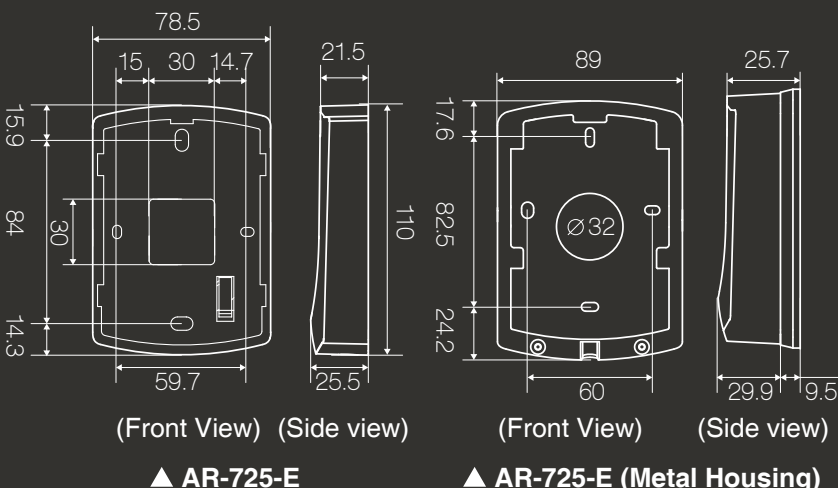
With 2 sets of UART port

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)

78.5
15 30 14.7
15.9
84
30
14.3
59.7
(Front View)
▲ AR-725-E

21.5
25.5
(Side view)

89
17.6
82.5
24.2
Ø 32
60
(Front View)
▲ AR-725-E (Metal Housing)

25.7
110
29.9 9.5
(Side view)

HOW TO ORDER

AR-725-EXR11X1X-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

Type
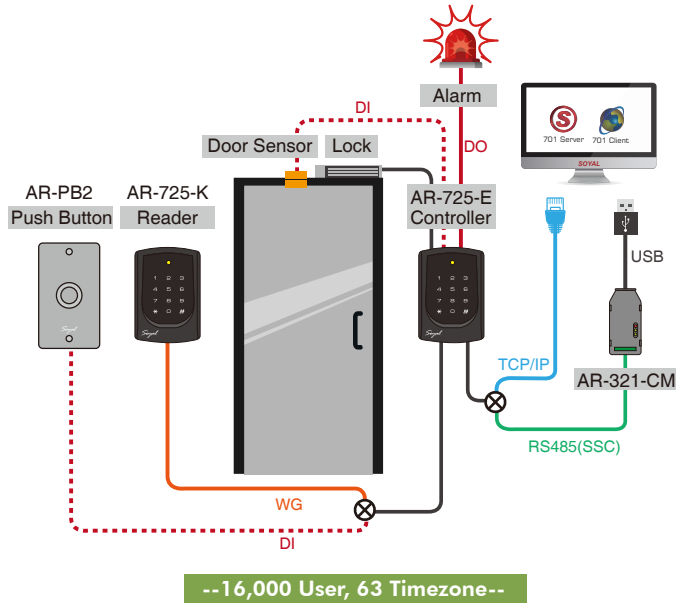M=Metal Housing
(N/A)

Type
1=Standard

Color
1=Silver
2=Gray
B=Black
P=Pearl White

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.
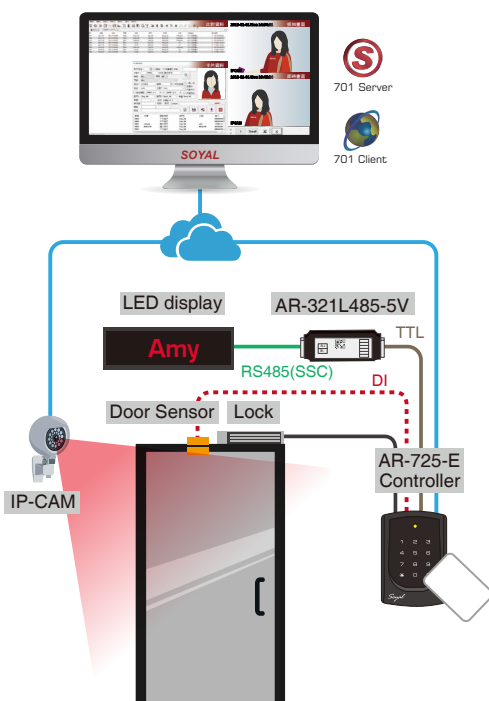
Alarm
DI
DO
Door Sensor | Lock
AR-PB2 | AR-725-K
Push Button | Reader
AR-725-E Controller
701 Server | 701 Client
USB
TCP/IP
AR-321-CM
RS485(SSC)
WG
DI

--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.
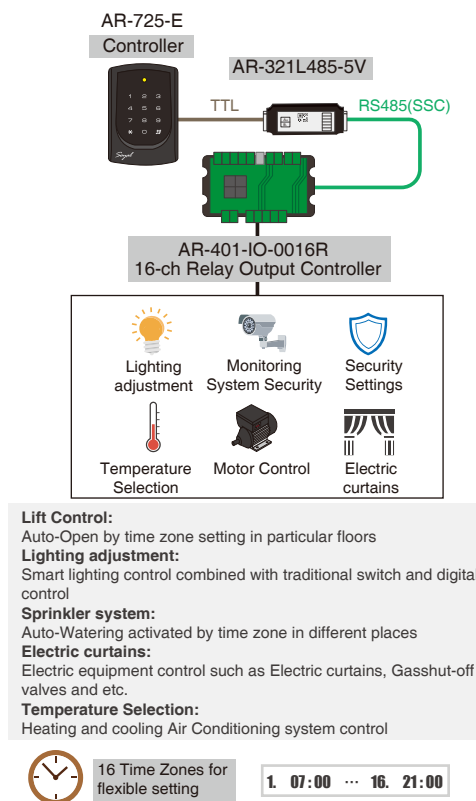
Remote setting by computer, Pad, Smartphone

● 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.
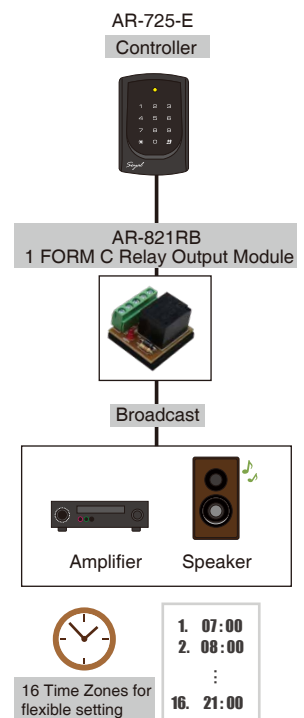
701 Server
701 Client
LED display | AR-321L485-5V
Amy
TTL
RS485(SSC)
DI
Door Sensor | Lock
IP-CAM
AR-725-E Controller

● 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.

AR-725-E Controller
AR-321L485-5V
TTL
RS485(SSC)
AR-401-IO-0016R
16-ch Relay Output Controller

Lighting adjustment | Monitoring System Security | Security Settings
Temperature Selection | Motor Control | Electric curtains

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.

AR-725-E Controller
AR-821RB
1 FORM C Relay Output Module
Broadcast
Amplifier | Speaker

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-725-E

NETWORKING

• Software

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

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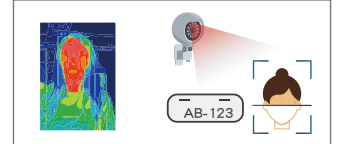AR-727-CM-IO-0804M
(with I/O for Fire Alarm to open all doors)

• 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-270
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

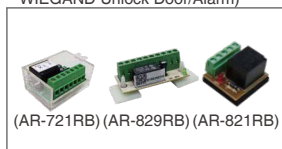### • Illuminate Series

(AR-725-K)   (AR-725-U)

Touch Keypad Proximity Reader
AR-725-K

Proximity Reader
AR-725-U

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

(AR-721RB) (AR-829RB) (AR-821RB)

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

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: What is the difference betweeen SOYAL H Series and E Series Controller?

A: SOYAL access controller classified into two categories in term of specification; H Series and E Series.

SOYAL H Series controller has already include all basic standalone and networking access controller that you need. But E series controller provide what H 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 set the IP address offline without computer for AR-725-E?

A: Besides online setting IP address by computer via the built-in HTTP Web Server, offline setting by keypad is also workable, that suited on site or when IP address is unknown.

- The default IP address: 192.168.1.127
- To edit IP address: for example: 192.168.77.10
  STEP 1. Entering programming mode
  STEP 2. Input 01*0*192168077010# by keypad.

More FAQ