

Multi-Door & Large Capacity Control

AR-716-E16

16 Doors IP Control Panel

It is used in large-scale access control architecture for personnel entry and exit control and parking lot access management; RS-485 or TCP / IPcommunication interface can be selected forming a network loop; Bulit-in Wiegand input port to be able to connect with various types of WG readers. 000

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Communication Module

Built-in RS485 or optional TCP/IP communication interface for networking connection and management setting on Computer.

Time Management

Built-ine RTC (Real Time Clock) for accurate date and time calucation and built-in watchdog that can prevent the device from hang up.

Large-scale Architecture

Each controller can connect up to 16 units of RS485 reader and 2 units of WG reader for Multi-door Entry / Exit access control; each RS485 reader can be connected to one WG reader to entry and exit using Card / PIN , or be able to connected to one push button for exit; it also support to connect 16 units of 2-WG door controller AR-716-E02 for 32 doors control solving the shortcomings of WG signal transmission distance limitation.

Support UPS

Be able to connect one UPS Power supply AR-716-TC-P to keep the device running during power outage to enhance system safety



Installation Design

Complied with Industrial standard and locking design; Quick-release terminal design for wiring, convenient for installation and maintenance

Features





















- Each unit support 16 RS485 reader, 2 Wiegand Reader (WG Port), 3 relay output, 5 digital input include fire alarm release all doors.
- Support RS485 / Ethernet communication interface for networking connection to LAN/ WAN / ADSL; Support communication protocol of TCP/IP, DHCP, ICMP, ARP
- Built-in HTTP WEB Server to remotely access control management through WEB browsers
- Support Auto-Arming/Disarm Zone Setting
- Support alarm output while devices are disconnected
- Support 14+2 doors anti-passback; be able to assign which door is for entry and which door is for exit and trigger Alarm output when Anti-pass back error; Anti-pass back status can be automatically reset by time zone setting.

- Built-in power and data trasmission LED indicators for convenient debugging and status judgement.
- Support communication encryption SSC (Soyal Security Communication)
- 63 sets of time zone / 255 sets of door group, be able to set holiday and level, linked to other zones
- Built-in power, signal transmission indicators, watchdog to prevent hanging up, alarm output when devices disconnect, two Wiegand input ports, multi-door anti-passback setting and time zone auto reset
- Alternative door group selection: common door group or individual door aroup

SPECIFICATION

Interface	Host	RS-485	RS485 : 9600bps(N,8,1)
		TCP/IP	TCP/IP: 10/100M Base T
	Slave Reader	CH1(RS-485)	8 Readers
		CH2(RS-485)	8 Readers(Node ID 1, 2 and WG Port 0, 1 share the same Door Number)
		WG	2 Readers(WG Port 0, 1 and Node ID 1, 2 share the same Door Number)

			2 snare the same Door Number)	
Door N	Numbers	16-32		
User Capacity		16,000 (Default value) / 32,000 / 65,000		
Event Log		32000		
DI/ DO	DI	Built-in	Engress X2 / Fire Alarm input X1 Reserved DI X1	
	DO / Relay Output	Built-in	Door Lock Relay X2 / Alarm Relay X1 Reserved RO X1	
Watchdog Function		Standard		
Power Supply		9-24 VDC		
Power Consumption		<3W		
Communication Redundancy		Host port		
Anti-Passback		16Doors		
Door Group		Yes		
Time Zone		63		
Others		Support UPS AR-716-TC		
Dimension (mm)		PCB	100(H)x147(W)x20(D)	
		With Plastic Mounting Bas	ne 103(H)x175(W)x32(D)	
		With Metal Casing	180(H)x231(W)x62(D)	
		PCB	164±10	
Net W	eight (g)	With Plastic Mounting Bas	se 244±10	
		With Metal Casing	1754±10	
		Operating Temperature	-20°C ~ +70°C	
Environment		Storage Temperature	-40°C ~ +75°C	
⊏nviro	mment	Operating Humidity	0%~90%(non-condensing)	
		Storage Humidity	0%~95%(non-condensing)	
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WHAT WE OFFER



Built-in power and data trasmission LED indicators for convenient debugging and status judgement

Release All Door Locks in Fire event

Built-in DI Fire alarm contact that can be connected with fire alarm input detector; All door locks can be released in case of Fire or emergency accident occurs

Multi-door Anti-passback

It is capable of accomplishing up to 14+2 Entry & Exit management in door control or car-parking system; Effectively control the entry of people and vehicles to prevent one card for multi-use. A variety of different functions and applications can effectively achieve as needed.

Communication Redundancy

Support Dual Communication interface RS485 and TCP/IP; While one of interface is failed, another interface can be worked as backup to make the system runing.

Expansion I/O Control

Be able to connect I/O Extension Board for higher security door access control that the door lock can not be unlocked even if the door is forcelly damaged and support lift control as well

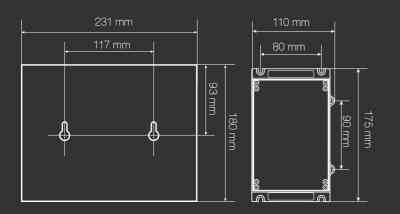
Communication Redundancy

Support Dual Communication interface RS485 and TCP/IP; While one of interface is failed, another interface can be worked as backup to make the system runing.

Parameters Setting and Sending message to Remote Server via Broswer

All parameters, user data can be managed by IP browser without software installation in PC; two Message Listening Ports can actively send out Event Logs to assigned Server for other security system such as CCTV, Fire Alarm to integrate.

INSTALLATION(mm)



HOW TO ORDER

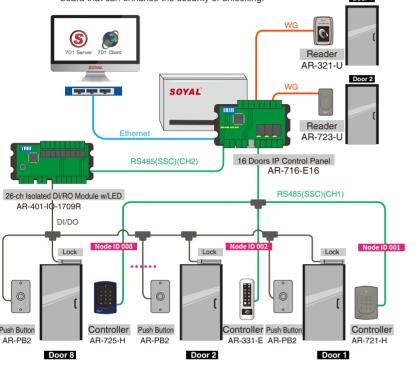




APPLICATION & STRUCTURE DIAGRAM

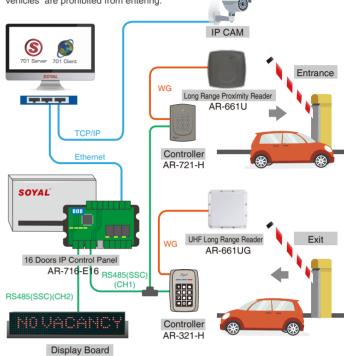
ENHANCE THE SECURITY OF UNLOCKING UNDER MULTI-DOOR CONTROL STRUCTURE

One Multi-door controller can connect many different types of RS485 readers and WG readers for Multi-door access control and Single / Global Anti-pass back access. Door lock can be connected via the relay of the extensional I/O board that can enhance the security of unlocking.



SHARING PARKING SPACE SOLUTION

- Installing RFID long range reader at the entry of Parking lots; when the vehicle is coming and the E-tag on vehicle is detected by RFID reader; the reader will
- determined if the tag is valid to open the barrier for access or invalid to deny.
 Status Display: Anti-passback error, No Vacancy and invalid card.
 Multi-vehicles share Multi parking spaces; when the spaces are full, other vehicles are prohibited from entering.

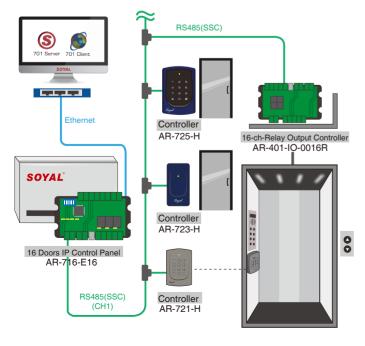


CENTRALIZED LIFT CONTROL STRUCTURE

One Multi-door controller AR-716-E16 can manage up to 16000 users and 14 lifts with up to 64 floors in each lift by connecting maximum 14 units of RS485 readers and 56 units of lift controller AR-401-RO16 through its two RS485 channel CH1 and CH2.

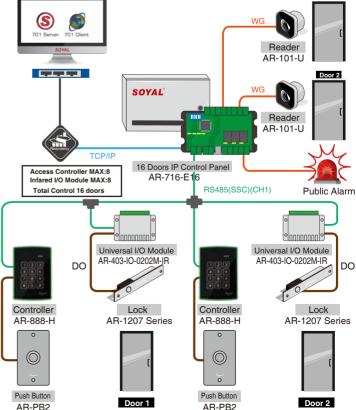
Installing Multi-door controller in Center Control Room connecting with computer allow the manager to easily set up parameters and edit user floors card at any time.

The lift control panel installed in the equipment room on top of the building is more convenient for inspection and maintenance.



REMOTE I/O MODULE CONTROL

Multi-door controller suppport to connect I/O Extension Board for higher security door access control ,in which the door lock can not be unlocked even if the door is forcelly damaged



PERIPHERALS / ACCESSORIES

EXPANSION I/O CONTROL

Expansion I/O Control



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



Uninterruptible Power Supply AR-716-TC-P

WG Reader



Proximity Reader AR-723-U



Proximity Reader AR-101-U/ AR-101-PBI



Proximity Reader AR-321-U



Proximity Reader



AR-721-K



Proximity Reader AR-725-K



Proximity Reader AR-888-K/U

Necessarv



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



1 Form C relay with

time delay AR-721RB 1 Form C relay AR-821RB

• External Relay Output (Digital Security Relay / Arming / Duress / Alarm)



2 Form C relay AR-829RB

NETWORKING

Software



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

Firmware Upgrade UDP Tools

701 Server & 701 Client

Signal/Interface Converter



USB to RS485 AR-321-CM **BS232 to BS485** 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)

Networking Module DMOD-NETMA-2

RS485 Controller



H Series Access Controller AR-723-H / AR-321-H / AR-721-H



E Series Access Controller AR-327-E / AR-727-E

Multi-door Control Series



2 Doors Networking **Control Panel** AR-716-E02

Input/Output



Locks



Door Sensor / Alarm/Siren

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

FAQ

Q: What is the difference of card capacity between Multi-door controller AR-716-E18 and AR-716-E16?

- The default card capacity of AR-716-E16 is 16383 and can be also changed to 32000 or 65000 as needed; the event log capacity is 32000.
- Q: How to keep controller and reader running normally when the power failure?
 - Please purchase one UPS Power supply AR-716-TC that can provide power and keep the device running normally the power



