

Multi-Door & Large Capacity Control

AR-716-E18

IP-Based Multi-Door Control Panel (18 Doors)

Designed for large access control structure, large user capacity control and parking lot access management



Communication Redundancy

Support TCP/IP and RS485. When TCP/IP disconnects, deputy RS485 communication automatically works to maintain normal communication

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

Can connect Wiegand/RS485 reader and flexibly adjust accessible door quantity. With AR-716-E02, can connect Wiegand controller for 32 doors, at the same time solve Wiegand limited transmission distance

Support Uniterrupable Power Supply

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, 4 relay output, 4 digital input include fire alarm release all doors, and additional 818O extension I/O module is available
- Support RS485 / Ethernet communication interface for networking connection to LAN/ WAN / ADSL; Support communication protocol of TCP/IP, DHCP, ICMP, ARP
- 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

- Built-in power and data trasmission LED indicators for convenient debugging and status judgement.
- Support 4 sets of passwords to control devices from readers and Auto-scheduled bell output connected through built-in 4 sets of Relay
- 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 group

SPECIFICATION

Interface	Host	RS-485or TCP/IP	RS485 : 9600bps or TCP/IP : 10/100M Base T (External Module)
	Slave Reader	CH1(RS-485)	8 Readers
		CH2(RS-485)	8 Readers
		WG	2 Readers
Door Numbers			18
User (Capacity		15000
Event	Log		11000
DI/ DO	DI	Built-in	Engress X2 / Fire Alarm input X1 Reserved DI X1
		External I/O extension board (AR-716-E-8I8O)	8
	DO / Relay Output	Built-in	Door Lock Relay X2 / Alarm Relay X1 Reserved RO X1
		External I/O extension board (AR-716-E-8I8O)	8
Watchdog Function		Standard	
Power Supply		9-24 VDC	
Power Consumption		<2.5W	
Communication Redundancy		NO	
Anti-Passback		16Doors	
Door Group		255	
Time Zone		63	
Others		Support UPS (purchasing external rechargable battery)	
Dimension (mm)		PCB	180(H)x231(W)x62(D)
		With Metal Casing	150(H)x163(W)x20(D)
Net Weight (g)		PCB	250±10
		With Metal Casing	1840±10
Environment -		Operating Temperature	-20°C ~ +70°C
		Storage Temperature	-40°C ~ +75°C
		Operating Humidity	0%~90%(non-condensing)
		Storage Humidity	0%~95%(non-condensing)

WHAT WE OFFER



Built-in LED Indicator

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 16 Entry & Exit management in door control or car-parking system.



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

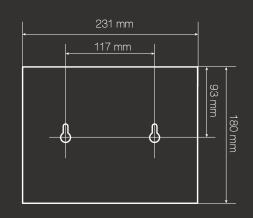
Be able to connect I/O Extension Board for higher security door access control that the door lock can not be unlocked even if the door is forcelly damaged; The built-in 4 Relays can be triggered simultaneously with the door relay of reader for different application such as rolling door control / Indoor lighting control / Air condition Control



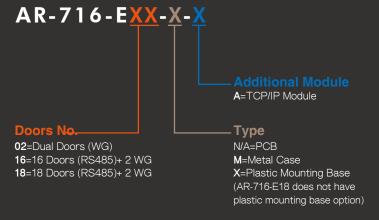
Auto-Scheduled Bell Output

Be able to set 12 sets of Anto-bell time zone; connect bell output / broadcast system via 4 built-in relay on controller itself.

INSTALLATION(mm)



HOW TO ORDER

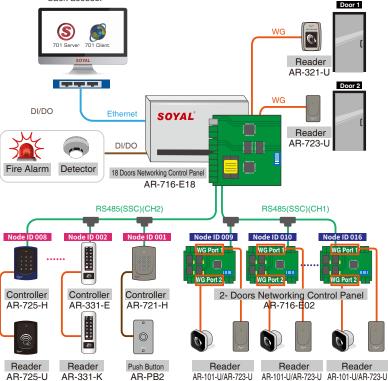




APPLICATION & STRUCTURE DIAGRAM

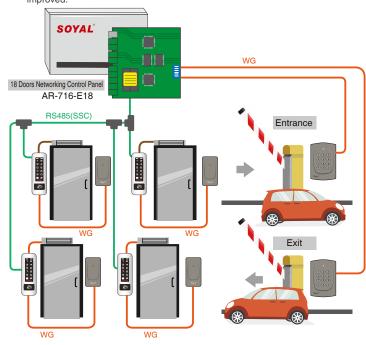
BASIC STRUCTURE FOR MULTI-DOOR CONTROL

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.



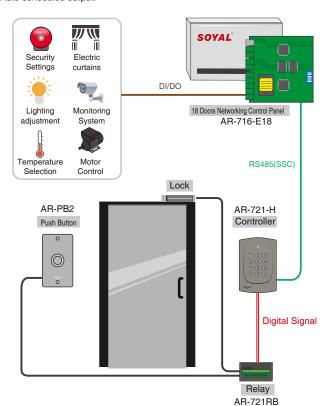
MULTI-ENTRY ANTI-PASS BACK ACCESS IN PARKING

In order to Anti-trailing from other cars or prevent one card to use for different users, Anti-pass back function of Multi-door controller is widely used in Parking managment system. After Anti-pass back is enable on User card and RS485 readers / WG readers, the same card must be swipped both on Entry and also Exit. that can prevent other car from trailing and the safety in Parking is greatly improved.



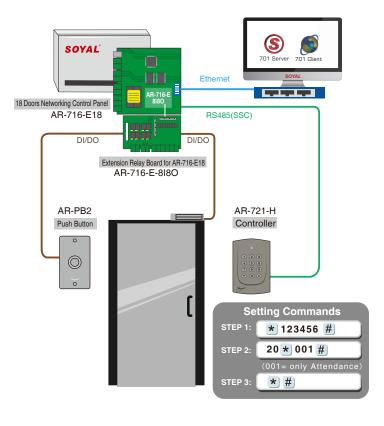
REMOTE CONTROL

Multi-door controller is built-in 4 sets of DI/DO; 4 relays can be assigned relay numbers to trigger operated by keypad reader for different application such as lighting control , Electric curtain control , Air condition Control and Auto-scheduled output.



ENHANCE ACCESS CONTROL SECURITY SYSTEM

Multi-door controller can connect one I/O Extension Board AR-716-8I8O that directly connect with Door lock and Exit button for higher security door access control; Even if the door is forcelly damaged, the door lock can not be unlocked



PERIPHERALS / ACCESSORIES

EXPANSION I/O CONTROL

Expansion I/O Control



Extension Relay Board for AR-716-E18

AR-716-E-8I8O



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-721-K



Proximity Reader AR-321-U



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**

701 Server & 701 Client

Signal/Interface Converter



USB to RS485 AR-321-CM RS232 to RS485 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)



Firmware Upgrade

ISP Tools

Ethernet Module for AR-716-E18 AR-727i-V3

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 / Burglary Security System

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

FAQ

Q: How to receive Alarm event when RS485 reader Q: How to keep controller and reader running connected under Multi-door controller is disconnected?

Enable the function option " On K2 While Reader Off Line " on AR-716-E18 Parameters setting menu of 701Server software; then connect alarm output or SIM device via Relay K2, offline evnt can be real-time sent to mobile phone via SMS devices or send via E-mail

normally when the power failure?

AR-716-E18 support UPS function but need to purchase one external rechargable battery that can provide power and keep the device running normally when the power failure.



