

Multi-Door & Large Capacity Control

AR-716-E18

18 Doors Networking 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.

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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

Installation Design

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

Features







Model:

SOYAL













- Support RS485 communication encryption, SSC (Soyal Security Communcation)
- Support RS485 / Ethernet communication interface for networking connection to LAN/ WAN / ADSL : Support communication protocol of TCP/IP · DHCP · ICMP · ARP
- Built-in watchdog that can prevent the device from hang up.
- Support Auto-Arming/Disarm Zone Setting
- Built-in 2 WG Port that be able to connect 2 WG readers
- Support alarm output while devices are disconnected Built-in 4 Digital Input / output; be able to open all door locks in case of
- 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.
- One controller support 16 RS485 readers and one computer can control up to 4064 RS485 readers.
- 63 sets of Time zone / 255 sets of Door Group, be able to set holiday and level . link with other zones.
- Support 16 doors Anti-pass back; be able to assign which door is for entry and which door is for exit.
- Alternative door group selection; common door group or individual
- Support 4 sets of passwords to control devices from readers and Auto-scheduled bell output connected through built-in 4 sets of

SPECIFICATION

User Capacity		15000		
Event Log		11000		
Power Voltage		9-24VDC		
Power Consumption		<2.5W		
	Host	Host Node 1~254		
Communication interface		RS-485	9600bps(N,8,1)	
		Ethernet	10/100M Base T	
	Slave Reader	CH1(RS-485)	8 Readers	
		CH2(RS-485)	8 Readers	
		WG	2 Readers	
DI Input		4+8 (AR-716-IO) Egress / Door State / Fire Input		
DO Output		4+8(AR-716-IO) Door Lock Relay / Alarm Relay		
Communication Redundancy		No		
Anti-Passback		16 Doors		
Door Group		255		
Time Zone		63		
Dimension(mm)		Metal Casing	180(H)x231(W)x62(D)	
		PCB	150(H)x163(W)x20(D)	
Weight(g)		Metal Casing	1840±10	
		PCB	250±10	
Housing Material		Metal		
Others		Support UPS (purchasing external rechargable battery)		
	nent	Operating Temperature	-20°C ~ +65°C	
Environ		Storage Temperature	-25°C to +70°C	
		Operating Humidity	20%~90%	
		Storage Humidity	5%~95%	

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

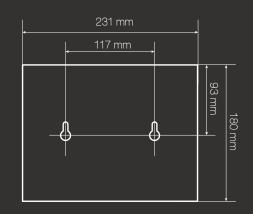
Be able to connect I/O Extension Board for higher security door access control that the door lock can not be unlocked even if the door is forcelly damaged; The built-in 4 Relays can be triggered simultaneously with the door relay of reader for different application such as rolling door control / Indoor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

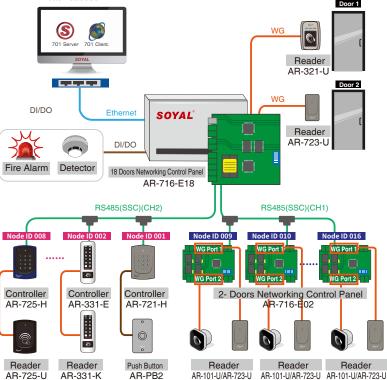




APPLICATION & STRUCTURE DIAGRAM

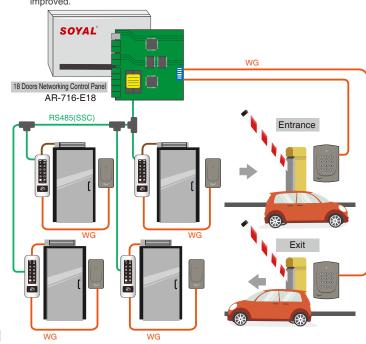
BASIC STRUCTURE FOR MULTI-DOOR CONTROL

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.



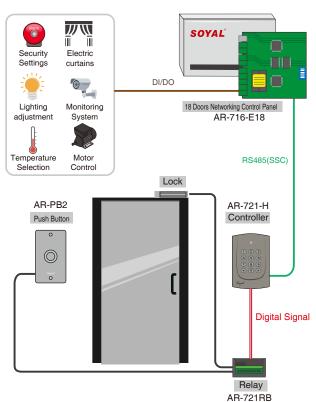
MULTI-ENTRY ANTI-PASS BACK ACCESS IN PARKING

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.



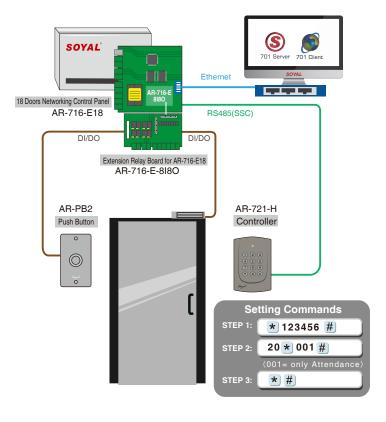
REMOTE CONTROL

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)

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



1 Form C relay with time delay AR-721RB

1 Form C relay AR-821RB



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 Magnetic Lock AR-0600M-270

Electric Strike AR-YS-130NO/AR-YS-131NO

Electric Bolt Lock AR-1207 Series Cabinet Lock AR-1211-P/AR-1213-P



Door Sensor / Alarm/Siren / Burglary Security System

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.



