SOYAL®

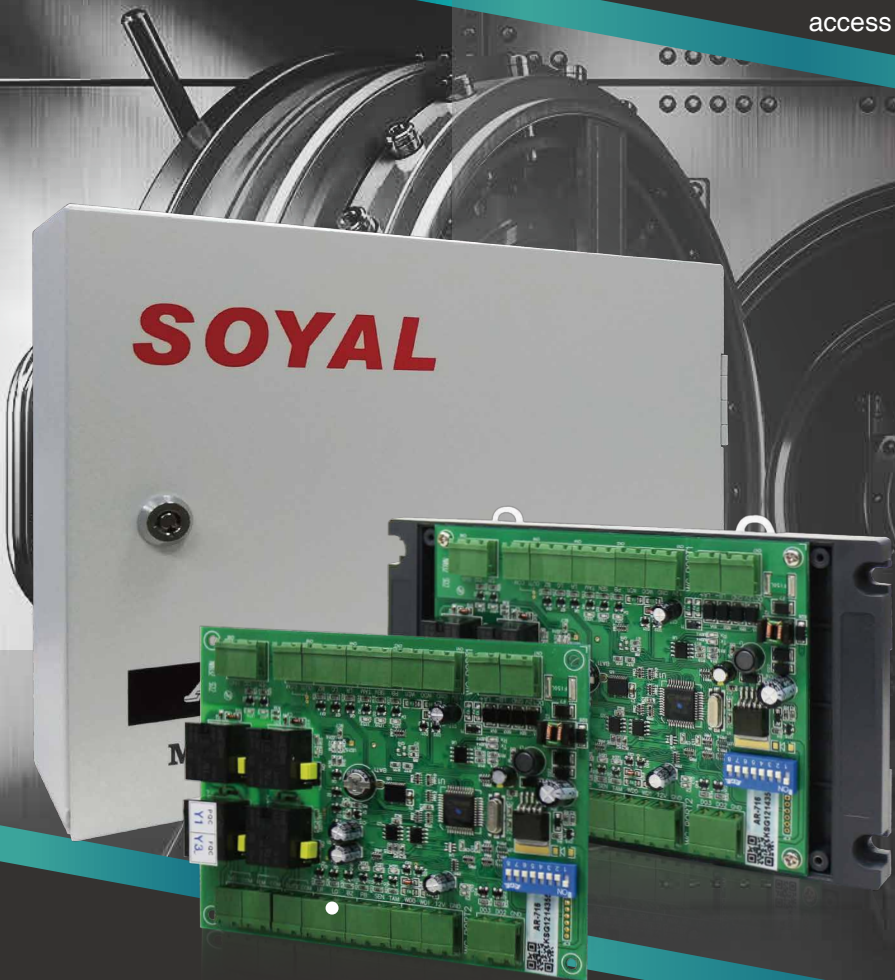## Multi-Door & Large Capacity Control
AR-716-E02
2- Doors Networking Control Panel

Built-in 2 WG input interface that can connect 2 WG slaver readers to complete 2 doors control; Built-in RS485 communication interface can be connected to Multi-door controller to achieve Multi-door and large user capacity access control, solving the shortcomings of WG signal transmission distance limitation.

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.

Security Functions
Built-in multiple sets of DI input for door sensor / exit button and DO for door lock , tamper switch, alarm output.

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

Data Redundancy

Multi-door Anti-passback

Release All Door Locks in Fire event

Multiple LED indicator

Web   Youtube

- Support RS485 communication encryption, SSC (Soyal Security Communcation)
- Built-in RS485 communication interface; Built-in watchdog that can prevent the device from hang up.
- Support 2 sets of Auto-open zone to unlock/lock automatically.
- Built-in 2 WG input interface for 2 WG slaver readers .
- Built-in power and data trasmission LED indicators for convenient debugging and status judgement.
- Support maximum 128 controllers in parallel connection and control

- Support 11 sets of Time zone on networking mode and extend up to 63 Time zone and 255 Door groups when connecting with Multi-door controller; be able to set holiday and level , link with other zones.
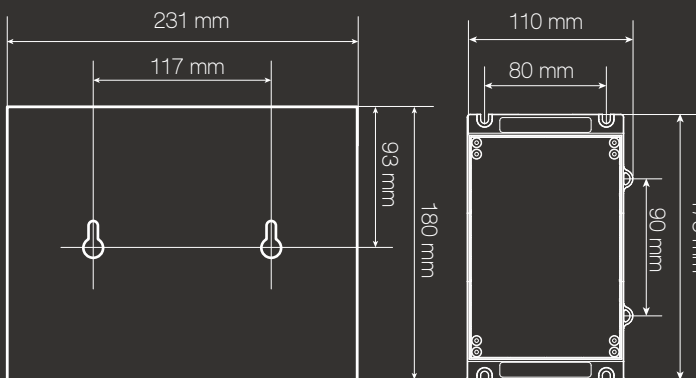- Support 2-doors Anti-passback; be able to assign which door is for entry and which door is for exit.

SPECIFICATION

User Capacity			3000人
Event Log			1456
Power Voltage			9-24VDC
Power Consumption			<3W
Communication interface	Host		Host Node 1~128
			9600bps(N,8,1)
	Slave Reader	WG	2 Readers
DI Input			2 Egress / 2 Door State 2 Tamper Switch / 2 Reserved DI
DO Output			2 Door Lock Relay / 1 Alarm Relay 1 Reserved Relay / 2 Reserved DO
Communication Redundancy			---
Anti-Passback			2 Doors
Door Group			Yes
Time Zone			11
Dimension(mm)	Metal Casing		180(H)x231(W)x62(D)
	Mounting Plate		110(H)x175(W)x32(D)
	PCB		110(H)x175(W)x32(D)
Weight(g)	Metal Casing		1765±10
	Mounting Plate		255±10
	PCB		175±10
Housing Material			Metal/ABS
Others			Support UPS AR-716-TC
Enviroment	Operating Temperature		-20℃ ~ +65℃
	Storage Temperature		-25℃ to +70℃
	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

High Cost-Performance ratio
High C/P ratio controller for dual door control via WG interface; simple and easy to use ,with excellent performance, easy to upgrade and expand (Be able to connected to Multi-door controller through RS485 communcation interfarce.

Multi-door Anti-passback
Support 2-door Anti-pass back when working alone and be expanded to 32-doors Anti-pass back when connected to Multi-door controller;Effectively control the entry of people and vehicles to prevent one card for multi-use in door control or car-parking system. A variety of different functions and applications can effectively achieve as needed.

Security
Built-in RS485 interface that reach 1200 meters communica-tion distance; Built-in 2 WG port that can be connected with 2 WG slaver reader to realize two doors extry and exit by swipping card or pressing PIN code ;Stable performance, fast communication, strong compatibility and separate design using I/O module to open door lock for high security access.

WIEGAND Output Format
Be compatible with WG readers from different brands in multiple card number format in WG 26/32/34/35/37 and so on

In-Field firmware Upgrade
In-field firmware upgrade is available by SOYAL ISP Tools when connecting to computer via RS485 converter provided by SOYAL

INSTALLATION(mm)

231 mm
117 mm
93 mm
180 mm

110 mm
80 mm
90 mm
175 mm

▲ Metal Box   ▲ Plastic Mounting Base

HOW TO ORDER

AR-716-EXX-X-X

Doors No.
02=Dual Doors (WG)
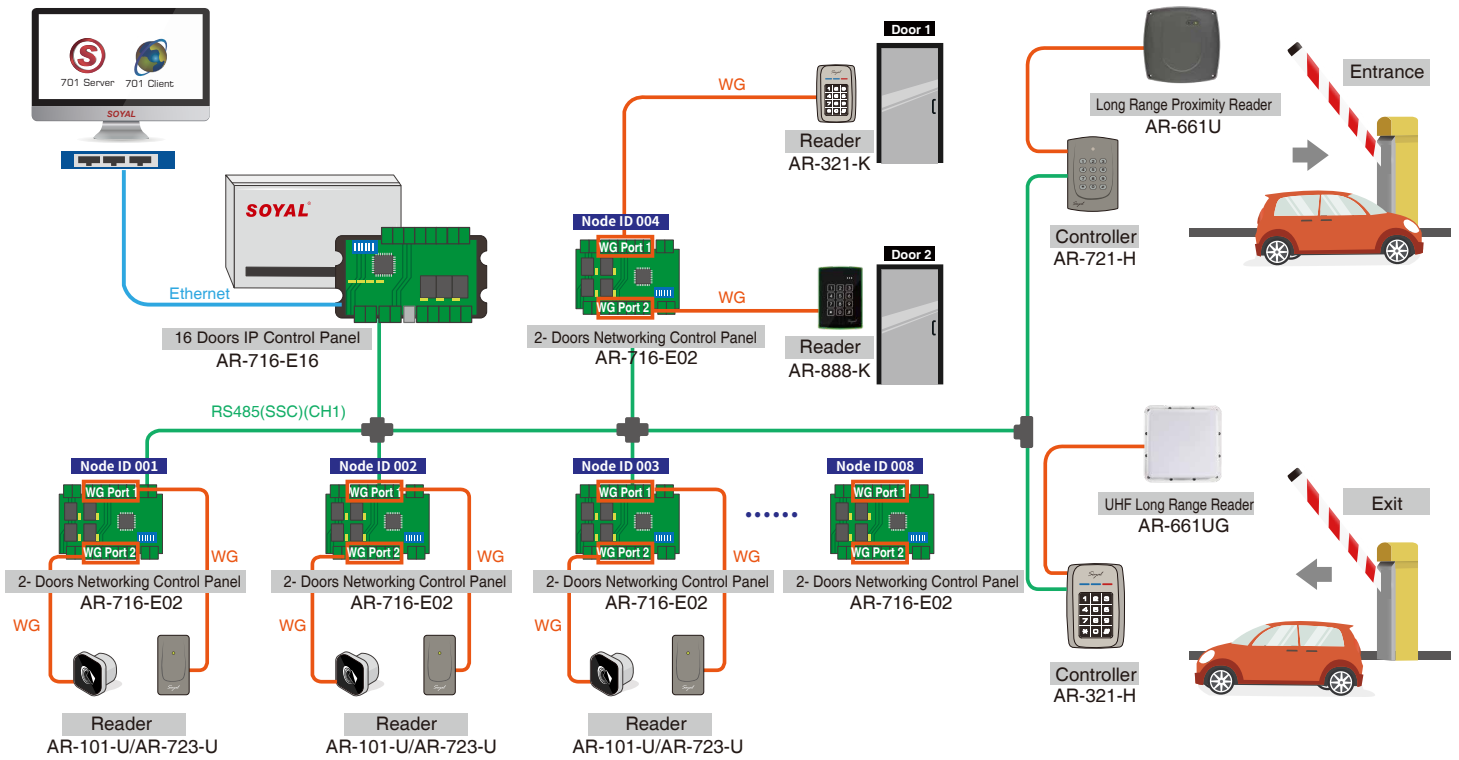**16**=16 Doors (RS485)+ 2 WG
18=18 Doors (RS485)+ 2 WG

Type
N/A=PCB
M=Metal Case
X=Plastic Mounting Base
(AR-716-E18 does not have plastic mounting base option)

Additional Module
A=TCP/IP Module
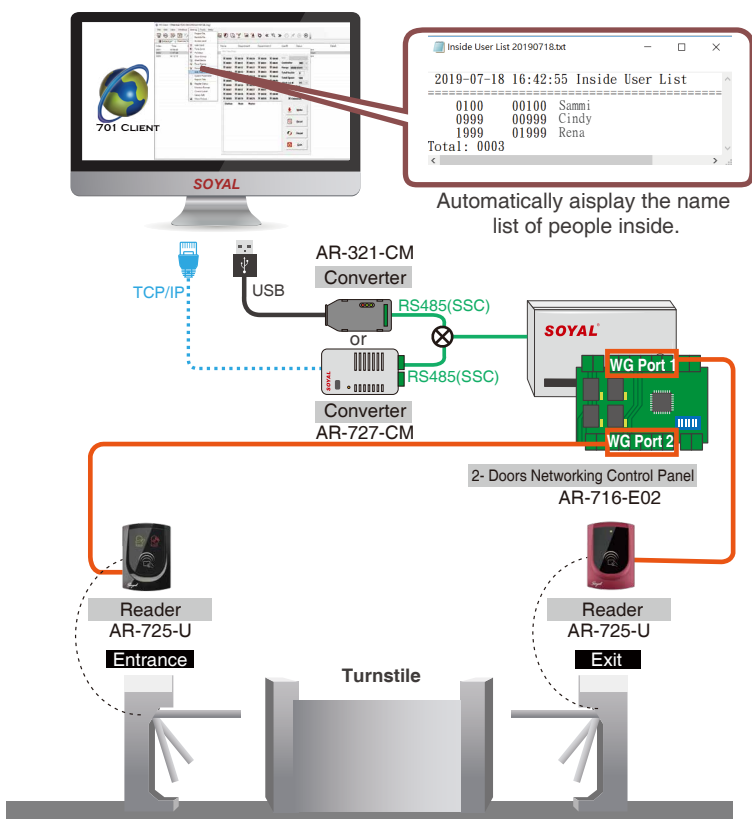
APPLICATION & STRUCTURE DIAGRAM

● BASIC ACCESS CONTROL STRUCTURE

Built-in 2 WG input interface that can connect 2 WG slaver readers to complete 2 doors control and seperate I/O control to realize higher security control that the door lock can not be unlocked even if the door is forcelly damaged and support lift control as well ; Built-in RS485 communication interface can expand to connect with Multi-door controller in parallel connection way for large user capacity and Multi-door Anti-passback access.

701 Server   701 Client

Ethernet

16 Doors IP Control Panel
AR-716-E16

RS485(SSC)(CH1)

Node ID 004
WG Port 1
WG Port 2
2- Doors Networking Control Panel
AR-716-E02

WG
Reader
AR-321-K
Door 1

WG
Reader
AR-888-K
Door 2

Node ID 001
WG Port 1
WG Port 2
2- Doors Networking Control Panel
AR-716-E02
WG

Reader
AR-101-U/AR-723-U

Node ID 002
WG Port 1
WG Port 2
2- Doors Networking Control Panel
AR-716-E02
WG

Reader
AR-101-U/AR-723-U

Node ID 003
WG Port 1
WG Port 2
2- Doors Networking Control Panel
AR-716-E02
WG

Reader
AR-101-U/AR-723-U

Node ID 008
WG Port 1
WG Port 2
2- Doors Networking Control Panel
AR-716-E02

Long Range Proximity Reader
AR-661U
Entrance

Controller
AR-721-H

UHF Long Range Reader
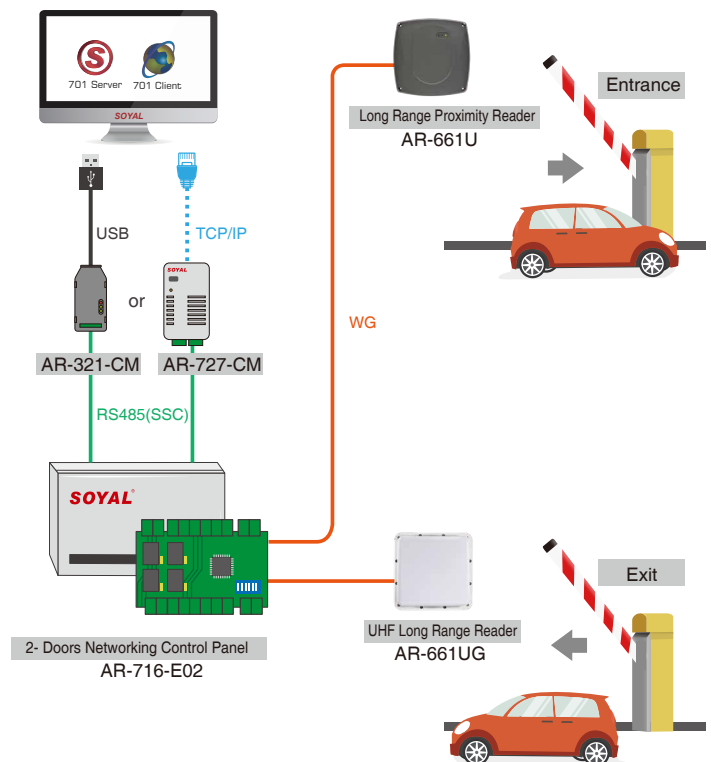AR-661UG
Exit

Controller
AR-321-H

● PERSONNEL ACCESS CONTROL

Built-in 2 WG port that can be connected to two WG readers installed in the entrance and exit of turnstile to effectively control personnel single / double direction access.

701 CLIENT
SOYAL

Inside User List 20190718.txt
2019-07-18 16:42:55 Inside User List
0100   00100   Sammi
0999   00999   Cindy
1999   01999   Rena
Total: 0003

Automatically aisplay the name list of people inside.

TCP/IP   USB
AR-321-CM
Converter
RS485(SSC)
or
RS485(SSC)
Converter
AR-727-CM

WG Port 1
WG Port 2
2- Doors Networking Control Panel
AR-716-E02

Reader
AR-725-U
Entrance

Reader
AR-725-U
Exit

Turnstile

● VEHICLE ENRY / EXIT CONTROL

Built-in 2 WG port that can be connected to two general or long range range WG readers installed in lane entrance and exit area to effectively control vehicles access.

701 Server   701 Client
SOYAL

USB   TCP/IP

or

AR-321-CM   AR-727-CM

RS485(SSC)

SOYAL

2- Doors Networking Control Panel
AR-716-E02

Long Range Proximity Reader
AR-661U
Entrance

WG

UHF Long Range Reader
AR-661UG
Exit

PERIPHERALS / ACCESSORIES

MULTI-DOOR CONTROL SERIES

● Multi-door Control Series

18 Doors Networking Control Panel
AR-716-E18

16 Doors IP Control Panel
AR-716-E16

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

AR-716-E02

Wiegand Fingerprint Controller

Mullion Fingerprint Controller
AR-331-EF

Fingerprint Controller
AR-837-EF9DO
AR-837-EF3DO

NETWORKING

● Software

701 Server 701 Client

UDP Updater

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

Firmware Upgrade
UDP Tools

● Signal/Interface Converter

USB
RS232

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)

Necessary

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

Door Sensor / Alarm/Siren / Burglary Security System

● 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

FAQ

Q: What are the main features and advantange of 2-Door WG Control panel?

A: Built-in 2 WG port that can be connected with 2 WG slaver reader to realize two doors extry and exit and two door interlock ; Built-in RS485 interface that can expand to 32-doors Anti-pass back when connected to Multi-door controller.

Q: How to keep controller and reader running normally when the power failure?

A: Please purchase one UPS Power supply AR-716-TC that can provide power and keep the device running normally the power failure.

RoHS Compliant   SOR   FC   CE   NCC

More FAQ