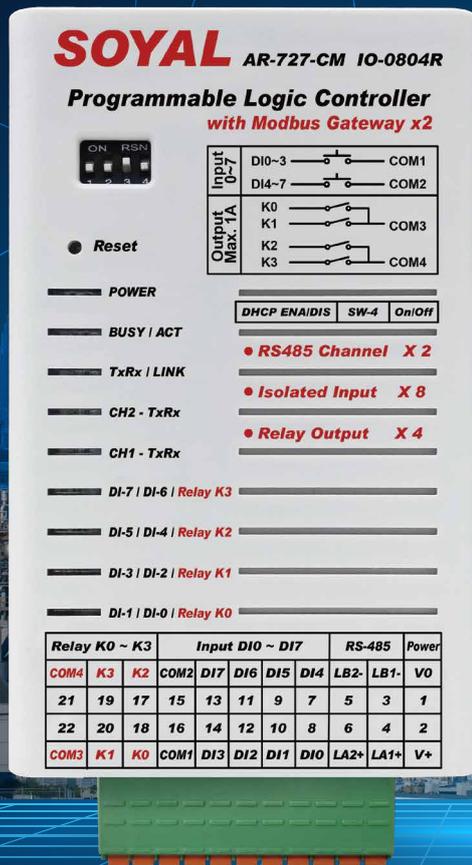


AR-727-CM-IO-0804R/0802R

I/O Serial-to-Network Gateway | 8 input ports, 4(2) output ports



TCP Connection LED Indicator

ACT led indicating TCP connection status for visual check and trouble shooting.

TCP communication port

Supports remote monitoring, data upload, and integration with third-party systems

Surge Protection

Power / RS485: Bi-directional avalanche breakdown device



Features

Supports real-time I/O status change notifications, actively uploading to a remote server

Instantly uploads DI status to the remote server via TCP/IP, with automatic offline emergency handling; when DI status changes, the controller simultaneously uploads the latest DI/DO status to the remote

Provides dual-channel transparent transmission

Enables transparent TCP/IP to RS485 data transmission via CH1 and CH2

Modbus TCP/RTU Gateway bidirectional conversion

Supports bidirectional conversion between Modbus TCP and Modbus RTU; Control Port must be set to X502

Supports fire alarm integration to release door locks

Allows emergency release of electric locks via CH1/CH2 RS-485 controllers

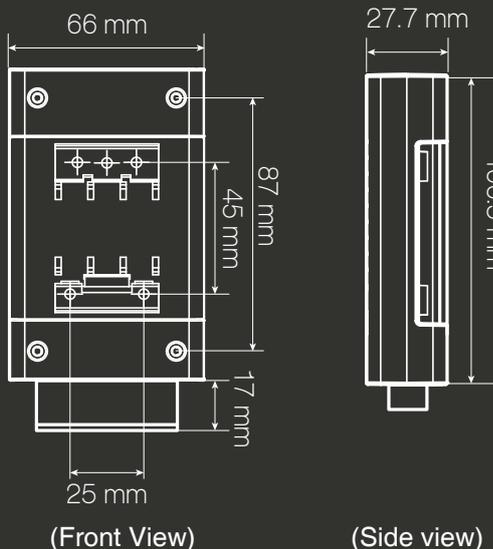
Supports custom TCP-to-Wiegand format (AR-727-CM-IO-0802R)

Supports multiple Wiegand output formats up to 128 bits, usable for SOYAL LPR license plate recognition

SPECIFICATION

Model No.		AR-727-CM-IO-0804R	AR-727-CM-IO-0802R	
Hardware	Interface	Ethernet	10/100 Mbps Base T Ethernet <--> RS485	
		Serial port (CH1/CH2)	RS485 *2 Baud Rate 2400 bps - 115200 bps (By order: RS232, RS232+RS485) Auto detect suppor TCP/Server、TCP/Client、UDP Mode	
		Digital Inputs	8 Digital Input	8 Digital Input
		Digital Outputs	4 Digital Output _Relay Output(Form C) (1A/30VAC, 1A/30VDC)	2 Digital Output _Relay Output (Form C) (1A/30VAC, 1A/30VDC)
		WG port	—	DO-1 is able to simulate WG Data:1, and DO-2 is able to simulate WG Data:0, supporting WG output up to 128 bits. Auto add even and odd parity bit and various format, etc.
	Protocol	ModBus-TCP, ARP, IP, TCP Client, UDP, ICMP, HTTP, DHCP, NetBIOS		
	CPU	ARM 32bit		
	Serial Buffer	1K each channel		
	LED Indicator	Power: Tx/Rx, D.O./D.I		
	Watchdog Function	Yes		
	Surge Suppression	400W peak power dissipation. Clamping time < 1 picosecond (theoretical) Power: bi-directional avalanche breakdown device. RS485 bi-directional avalanche breakdown device.		
	Fuses	Power & RS485 both with PTC Protector		
	Isolation	optical 5 kV		
	Power Supply	12-24 VDC		
	Power Consumption	<2W		
Dimension (mm)	106.5(W)x66(H)x27.7(D)			
Weight (g)	approx. 120			
Software	OS Supported	Windows 7 / 8 / 10, Win Server 2008/2012/2016		
	Network / Device setting	701Server, 701Client, HTTP Web browser		
Enviroment	Operating Temperature	-20°C ~ +70°C		
	Storage Temperature	-40°C to +75°C		
	Operating Humidity	0%~90% (non-condensing)		
	Storage Humidity	0%~95% (non-condensing)		

INSTALLATION(mm)



HOW TO ORDER

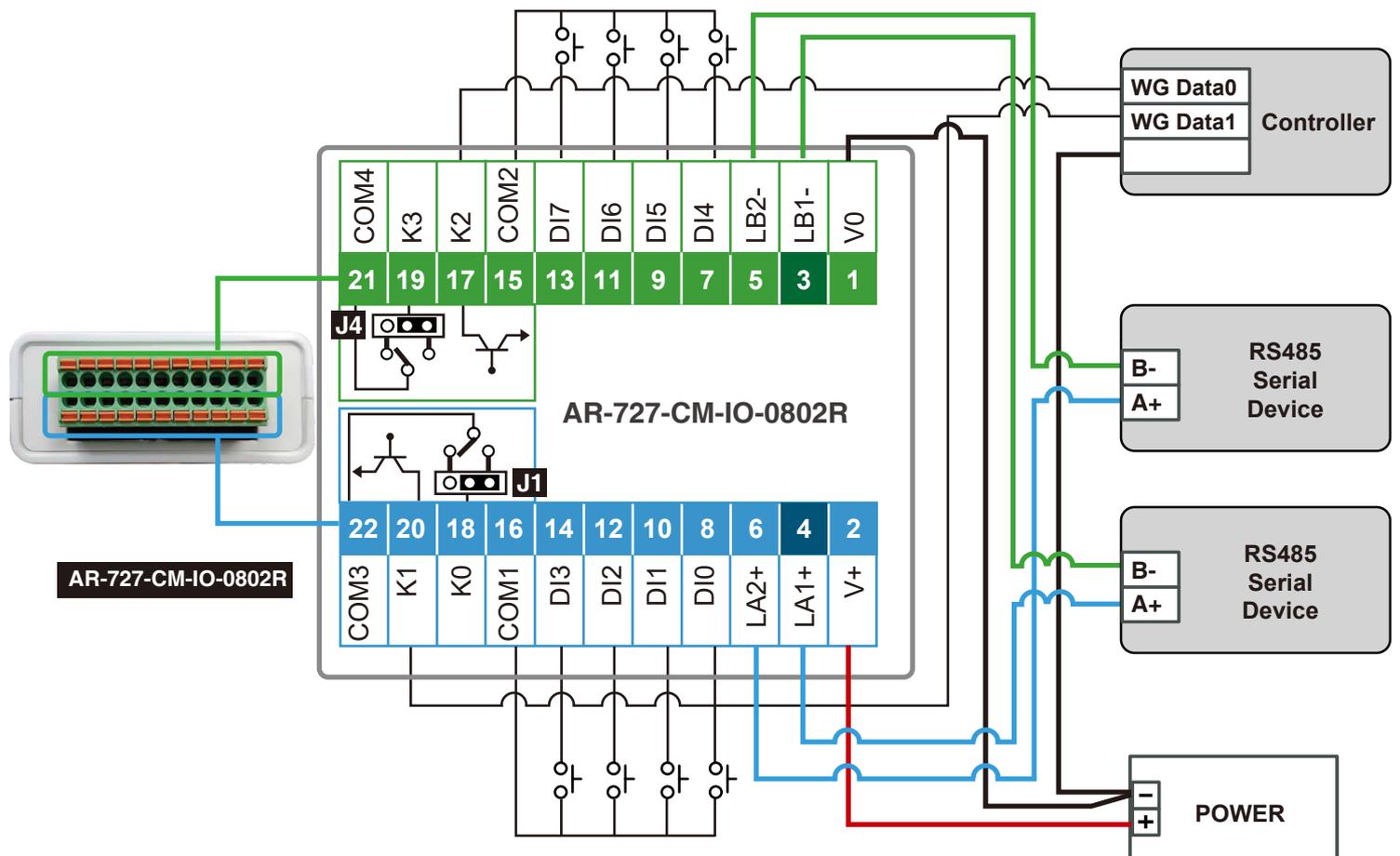
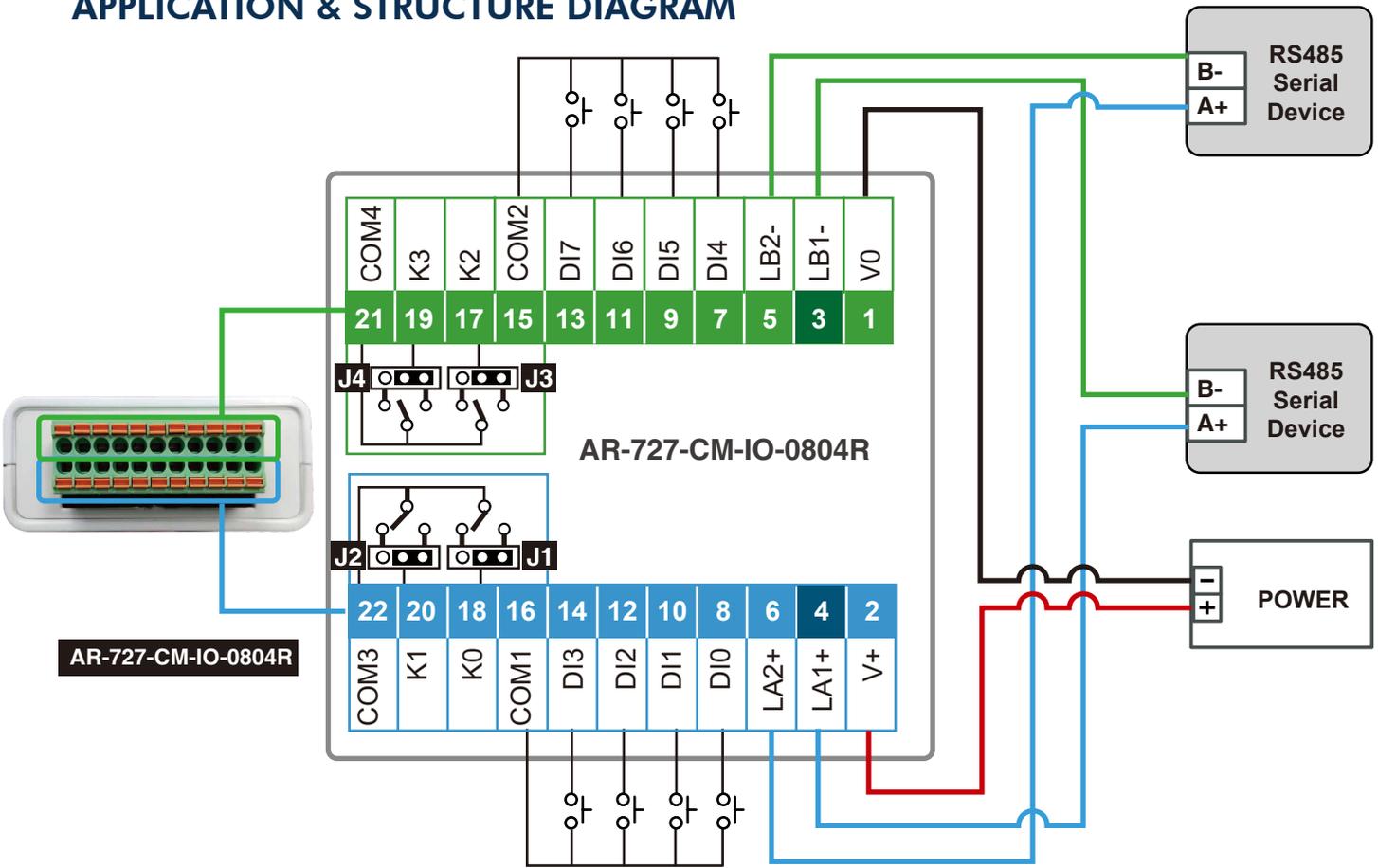
AR-727-CM-IO-XXXXR

Controller Option
IO=I/O Module Series

Input Qty / Output Qty
0804=8 Input & 4 Output
0802=8 Input & 2 Output

Output Type
R=Relay

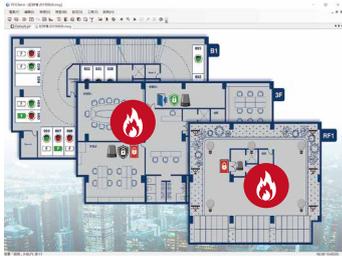
APPLICATION & STRUCTURE DIAGRAM



PERIPHERALS / ACCESSORIES

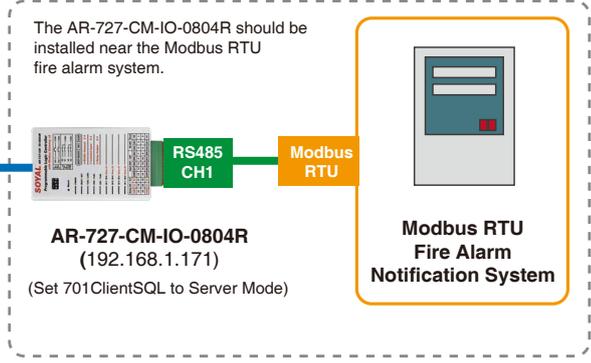
● MODBUS Fire Alarm System

Modbus TCP polling from the monitoring side to remote Modbus RTU alarm devices



Modbus TCP Fire Alarm Monitoring System

(The SCADA software must point to the IP address of the AR-727-CM-IO-0804R. In this example, 192.168.1.171 is used.)

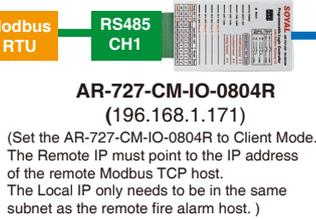


The monitoring host uses Modbus RTU to poll a remote Modbus TCP alarm device



Modbus RTU Fire Alarm Monitoring System

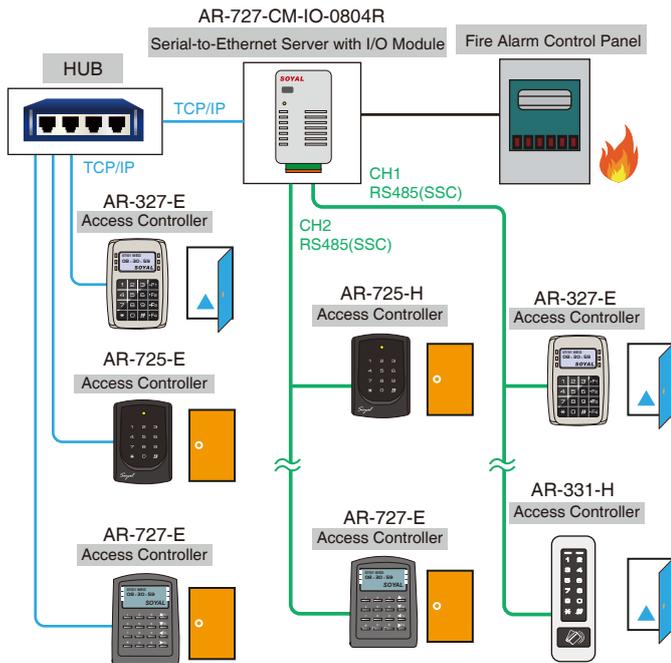
The AR-727-CM-IO-0804R should be installed near the Modbus RTU fire alarm system.



Modbus TCP Fire Alarm Notification System
(IP:196.168.1.41 ; Port : 502)

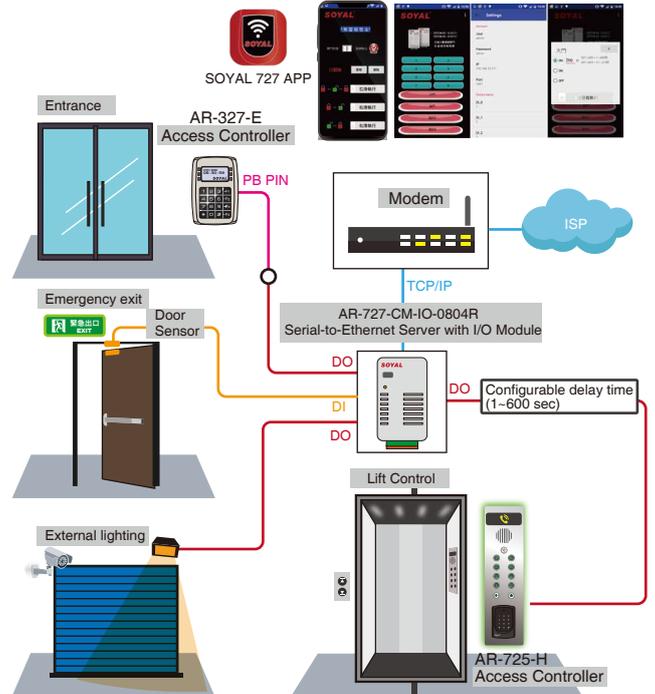
● Fire-Alarm release all doors

Providing various of customized firmware to meet all customer needs, eg. release all doors or specified doors via RS485 or Ethernet once fire-alarm event



● Mobile APP - I/O control lighting, electric lock & door contact status

SOYAL 727APP working with AR-727-CM-IO-0804M module that has built-in 8 digital inputs and 4 digital outputs, each I/O name can be self-defined, showing status of each DI; setting Normal Open/Normal Close of each DO with delay time (0.1~600 seconds) to fulfill smart life style through mobile APP.



More FAQ