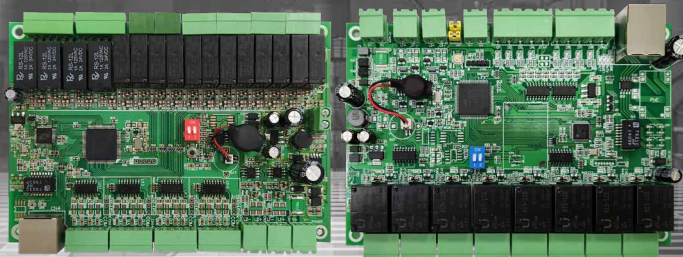


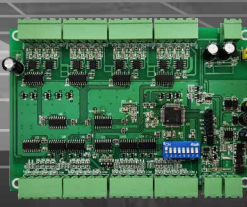
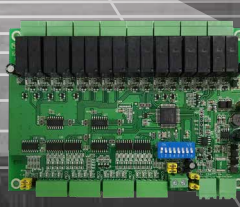
SOYAL[®]

WEB PLC & Expansion I/O Series

Programmable Logic Controller (WEB PLC) /
I/O Expansion Board / Two-Wire Control



◀ Programmable Logic Controller
(WEB PLC)
AR-401-PLC-1616R / AR-401-PLC-0808R
/ AR-727-CM-PLC-0804R



4 Optically Isolated Input
4 MOSFET Output

▲ AR-403-IO-0404P

16-Port Type C Relay Output

▲ AR-401-IO-0016R

16 Optically Isolated Input
8 Type C Relay Output

▲ AR-401-IO-1608R

16 Optically Isolated Input
16 Type A Relay Output

▲ AR-401-IO-1616R

16 Optically Isolated Input
16 MOSFET Output

▲ AR-401-IO-1616M

Latching Power Relay
(with 2 Form A Contacts)

▲ AR-816RB

I/O Expansion Board

- Motor Forward and Reverse Control
- AR-816RB Two-Wire Control Only

Two-Wire Control

Feature

Modbus

Multi-Modbus Protocol Supported

TCP/IP to Wiegand ,TCP/IP to Serial
To get status of on board I/O, Modbus TCP or
Modbus RTU over TCP are supported
Modbus TCP to Modbus RTU Auto Conversion
(Applicable for Ethernet & WIFI)



IoT Application

Wide applications in IoT monitoring,
Factory Automation or remote monitoring
equipment.



Cloud-based web programming, no need to purchase an HMI

Built-in HTTP server allows direct
programming through a web page using
a browser,eliminating the need for a
human-machine interface.



Multi-Function Ethernet Networking Server

Two RS485 port for ModBus RTU over TCP or
HEX to connect I/O module or SOYAL Access
Control for releasing all doors when fire alarm.
(AR-401-IO-0808R-U2)



Diversity of Timer Output

Output type: Counter / Timer
Timers: It features 8 timers
Counters: It possesses 32 edge-triggered
counters



SCADA Software Supported

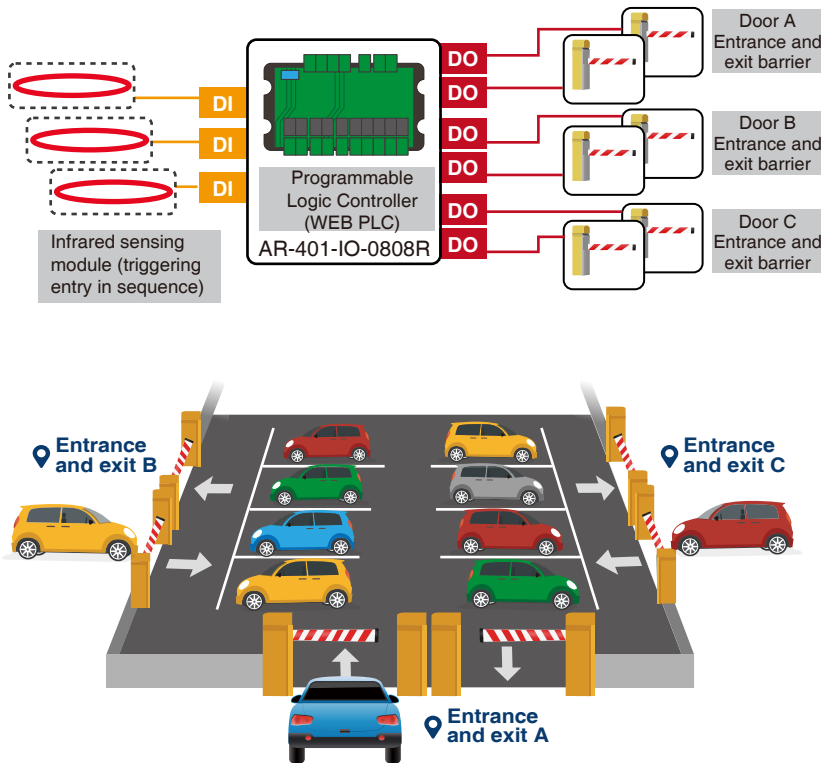
701Server/701Client support SCADA
and Data-Based System.

Model no.			AR-401-IO-0016R	AR-401-IO-1616R	AR-401-IO-1616M	AR-401-IO-1608R	AR-403-IO-0202M-IR	AR-403-IO-0404M	AR-403-IO-0404P
Protocol			Modbus RTU, Soyal						
Interface		Serial port	RS485 X1,Baud Rate 9600 bps - 19200 bps(N,8,1)				RS485 X1,Baud Rate 9600 bps(N,8,1)		
I/O	Input	Digital Input	—	—	—	—	X2	X4	—
		Optocoupling	—	X16	X16	X16	—	—	
	Output	MOSFet Output	—	—	X16	—	X2	X4	X4
		Relay Output	16 Form C 30VDC/1A ,125VAC/0.3A	16 Form A 250VAC /30VDC/4A	—	8 Form C 250VAC /30VDC/10A	—	—	—
		Infrared	—	—	—	—		—	—
	I/O POWER		—	Standalone	Standalone	Built-in isolation	—	—	Standalone
Power Voltage			12-24 VDC						
Power Consumption			<4W				<1W		
Surge Suppression			400W peak power dissipation. Clamping time < 1 picosecond (theoretical) Power: bi-directional avalanche breakdown device. RS485 bi-directional avalanche breakdown device.						
Power Fuse			Power & RS485 both with PTC Protector						
Dimension	PCB	100(H)x147(W)x20(D)					60(H)x43(W)x20(D)		
	Panel Mounting Base	102(H)x175(W)x30(D)							
	Metal Box	180(H)x231(W)x62(D)							
Net weight(g)	PCB	approx.100	approx.138	approx.76	approx.100	approx.31			
	Panel Mounting Base	approx.182	approx.221	approx.158	approx.182				
	Metal Box	approx.1760	approx.1760	approx.1760	approx.1760				
Operating Temperature			-20℃ ~ +70℃						

APPLICATION & STRUCTURE DIAGRAM

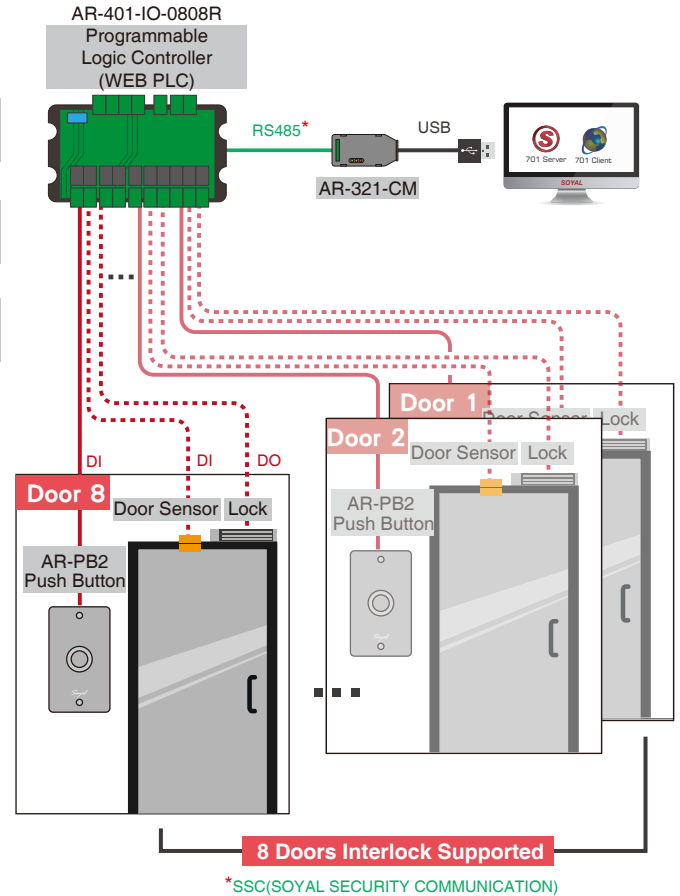
• The application of multiple entrances and full parking spaces in a parking lot.

Using the AR-401-IO-0808R WEB PLC logic function allows multiple entrances and exits of a parking lot to queue vehicles in sequence based on their arrival time when the parking lot is full.



• Interactive logic control application

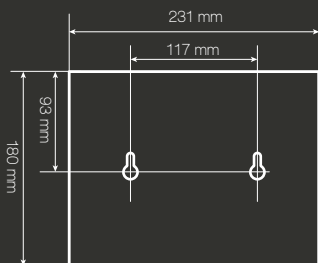
Customized logic control for various need, eg. 8 doors Interlock in clean room & Fire escape direction guide & Auto-unlock



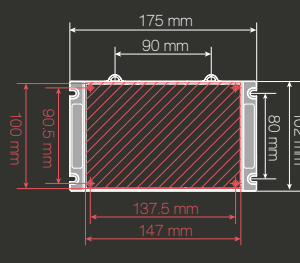
*SSC(SOYAL SECURITY COMMUNICATION)

INSTALLATION(mm)

AR-401-PLC-1616R / AR-401-PLC-0808R / AR-401-IO-0016R
AR-401-IO-1616R / AR-401-IO-1616M / AR-401-IO-1608R



Metal Box (Front View)



DIN Rail Mount (Panel Mounting Base) PCB

HOW TO ORDER

AR-401-XXX-XXXXR-XX-X-X

類型

PLC= WEB PLC
I/O= I/O Expansion Board

Input Qty / Output Qty

0016=16 Output
0808= 8 Input & 8 Output
1608=16 Input & 8 Output

Output Type

R=Relay

Additional Features

N/A=No Additional Features
R=RTC

Additional Module

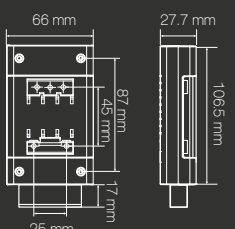
N/A=No Additional Module
P=POE Features

Type

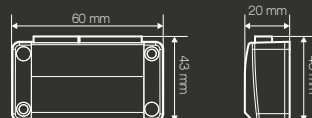
N/A=PCB
M=Metal Case
X=Plastic Mounting Base

AR-727-CM-PLC-0804R

AR-403 Series



(Front View) (Side View)



(Front View) (Side View)

AR-403-IO-XXXXM-XX

Input Qty / Output Qty

0001=1 Output
0202=2 Input & 2 Output
0404=4 Input & 4 Output

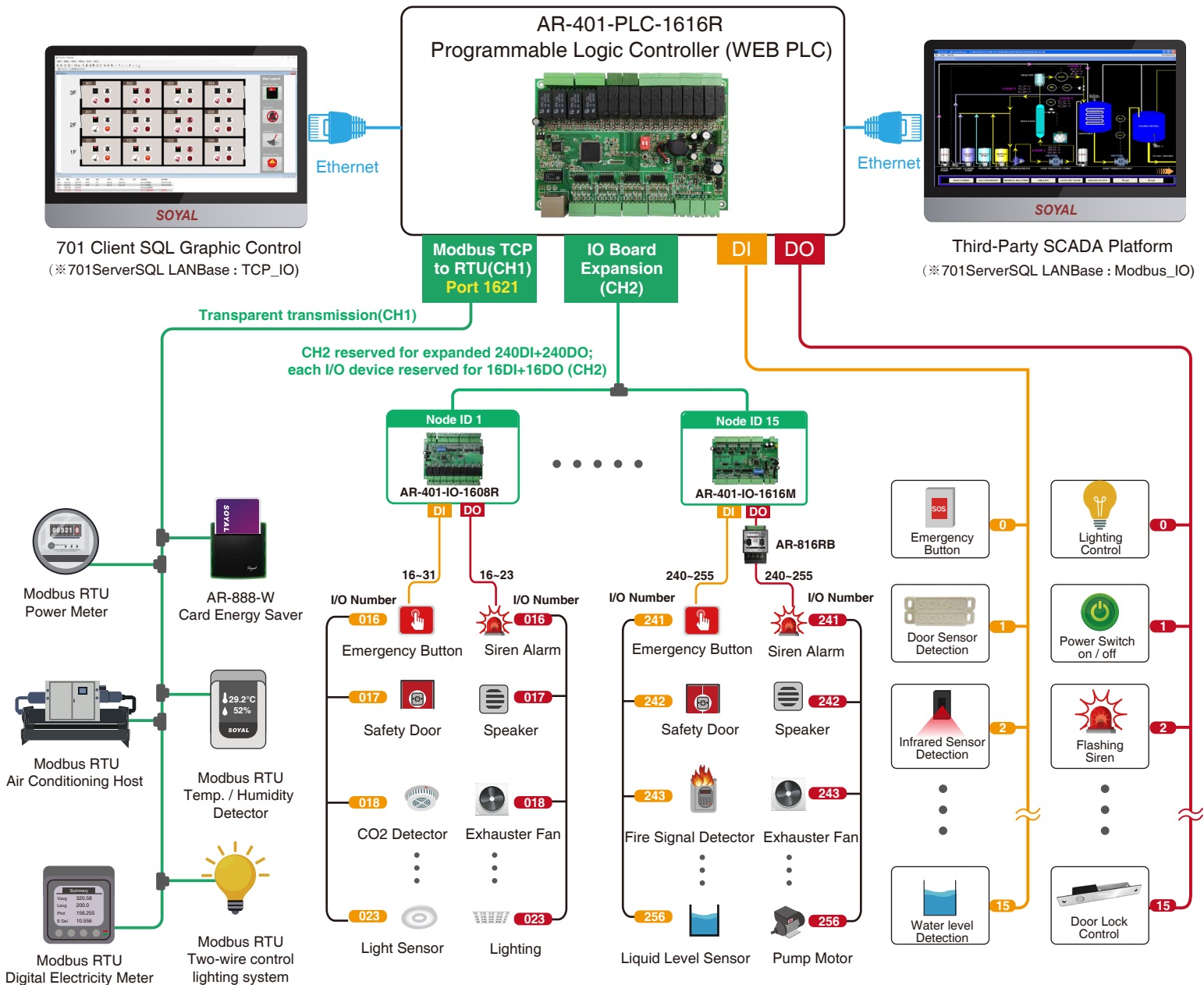
Output Type

M=Mosfet

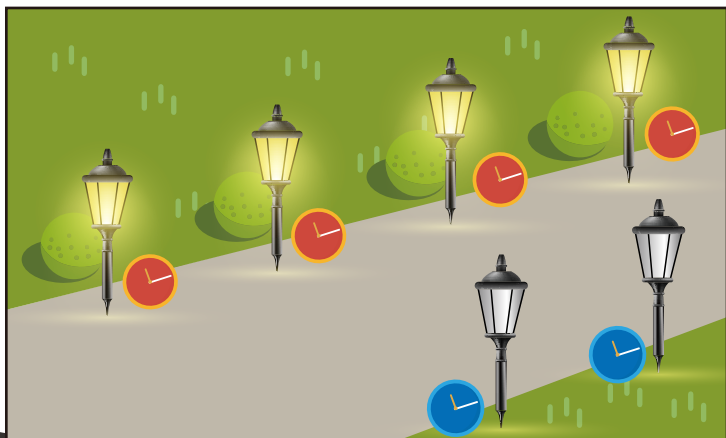
Additional Features

N/A=No Additional Features
IR=1 Infrared Output

PERIPHERALS / ACCESSORIES

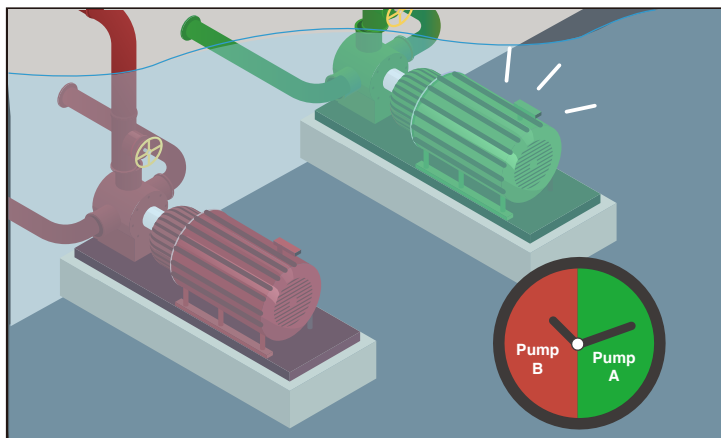


Automatic Scheduling of Landscape Lights in Communities/Parks



Control of Alternating Operation of Deepwater Motors

Through the WEB PLC scheduling function, it is possible to accurately calculate the operating hours of the motors, enabling timely replacement of running motors and thereby extending the service life of the motors.



More FAQ