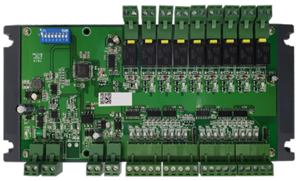
AR-401-IO-1709R

V220615

(This version is compatible for hardware with serial number **AQI06 and after**)

Contents

1. Product



AR-401-IO-1709R

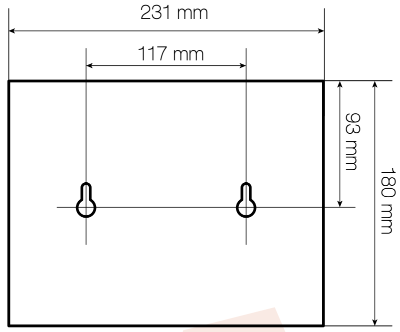
Features

- **Digital Input can be used for either positive trigger or common negative trigger (share one COM point for every 8 DI)**
- Built-in fire alarm input, when access control is in use, automatically release open all linked electric lock to ensure safety of personnel
- RS485 communication, at the same time support Modbus RTU and SOYAL Protocol, suitable for both access control system and industrial control
- Provides a specialized firmware for different applciations, such as standard I/O control, multi-door interlocking, and crowd counting firmware; in which can easily meets various applications
- SCADA control function: Access Control SCADA (701Server/Client) with database system supported.

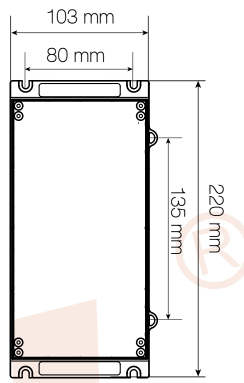
Specification

Interface	Serial port	RS485 X 1 port
	Baud Rate	9600,19200 bps (N,8,1)
Input/Output		17 Digital Input/9 Relay Output (Form C)
Protocol		Modbus, Soyal protocol
LED Indicator		Power,Tx/Rx, D.O./D.I
Watchdog function		Yes
Operating Temperature		-20℃ ~ +70℃
Fuses		Power and RS485 Isolation protection
Noise Isolation		Input optical isolation
Power Supply		9-24 VDC
Power Consumption		<4W
Dimension(mm)		PCB:120(H)x190(W)x20(D) Panel Mounting Base :120(H)x220(W)x30(D)
Weight(g)		455±10(PCB Only)

Installation(mm)

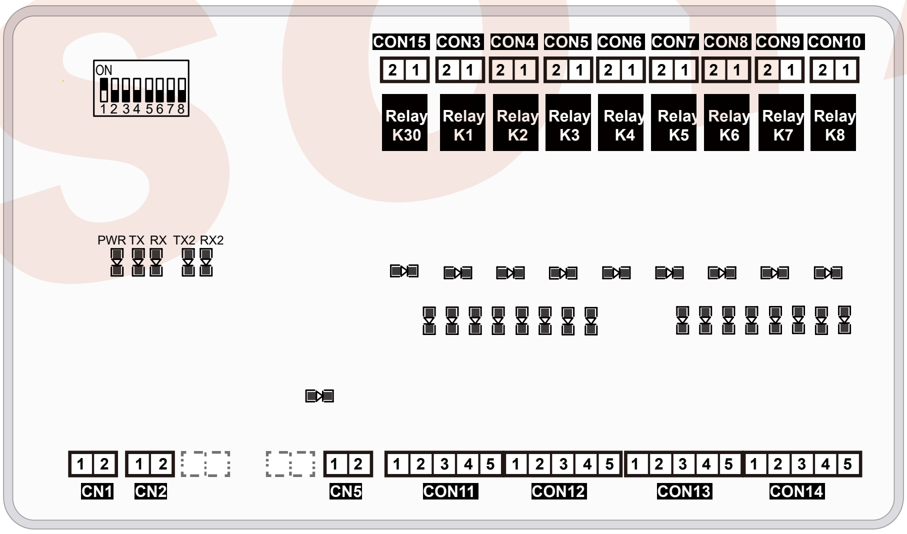


(Metal Case)



(Plastic Mounting Base)

PIN Assignments



※ 701ClientSQL Graphic Animation I/O mapping starts from 00(Physical IO Address DI1 -->Symbol IO Nr.:00, Physical IO Address DI16 -->Symbol IO Nr.:15)

CN1

Function	Pin	Description
Main Power Supply (Single Power Supply Mode) (DC12V/1W)	1	V12
	2	V0

CN2

Function	Pin	Description
External Port 1	1	A+
(RS-485 input)	2	B-

CN5

Function	Pin	Description
Fire Detection Input	1	COM
	2	DI-F

CON3~10

Function	Pin	Description
Relay output K1~K8	1	N.O. or N.C.
	2	COM

CON15

Function	Pin	Description
Relay output K30	1	N.O. or N.C.
(Fire Detection Input)	2	COM

CON11

Function	Pin	Description
DI input	1	DI.1
	2	DI.2
	3	DI.3
	4	DI.4
	5	COM

CON12

Function	Pin	Description
DI input	1	DI.5
	2	DI.6
	3	DI.7
	4	DI.8
	5	COM

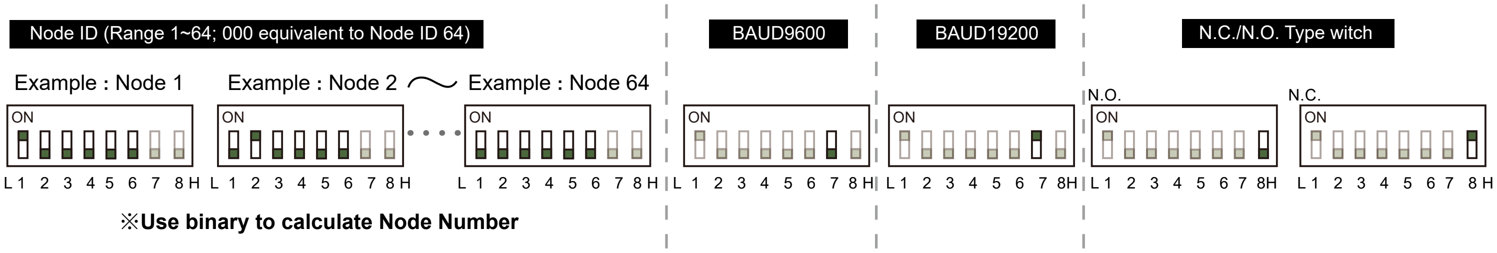
CON13

Function	Pin	Description
DI input	1	DI.9
	2	DI.10
	3	DI.11
	4	DI.12
	5	COM

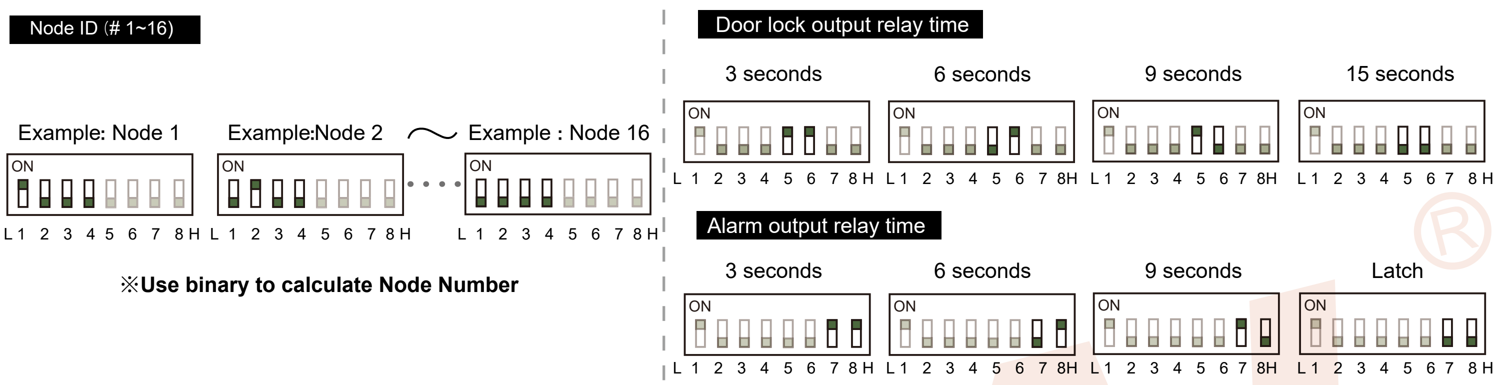
CON14

Function	Pin	Description
DI input	1	DI.13
	2	DI.14
	3	DI.15
	4	DI.16
	5	COM

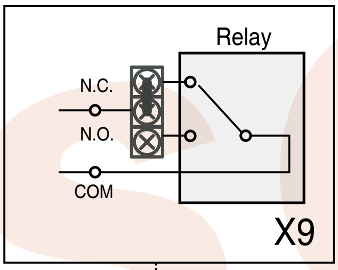
Standard Firmware--DIP Switch Setting

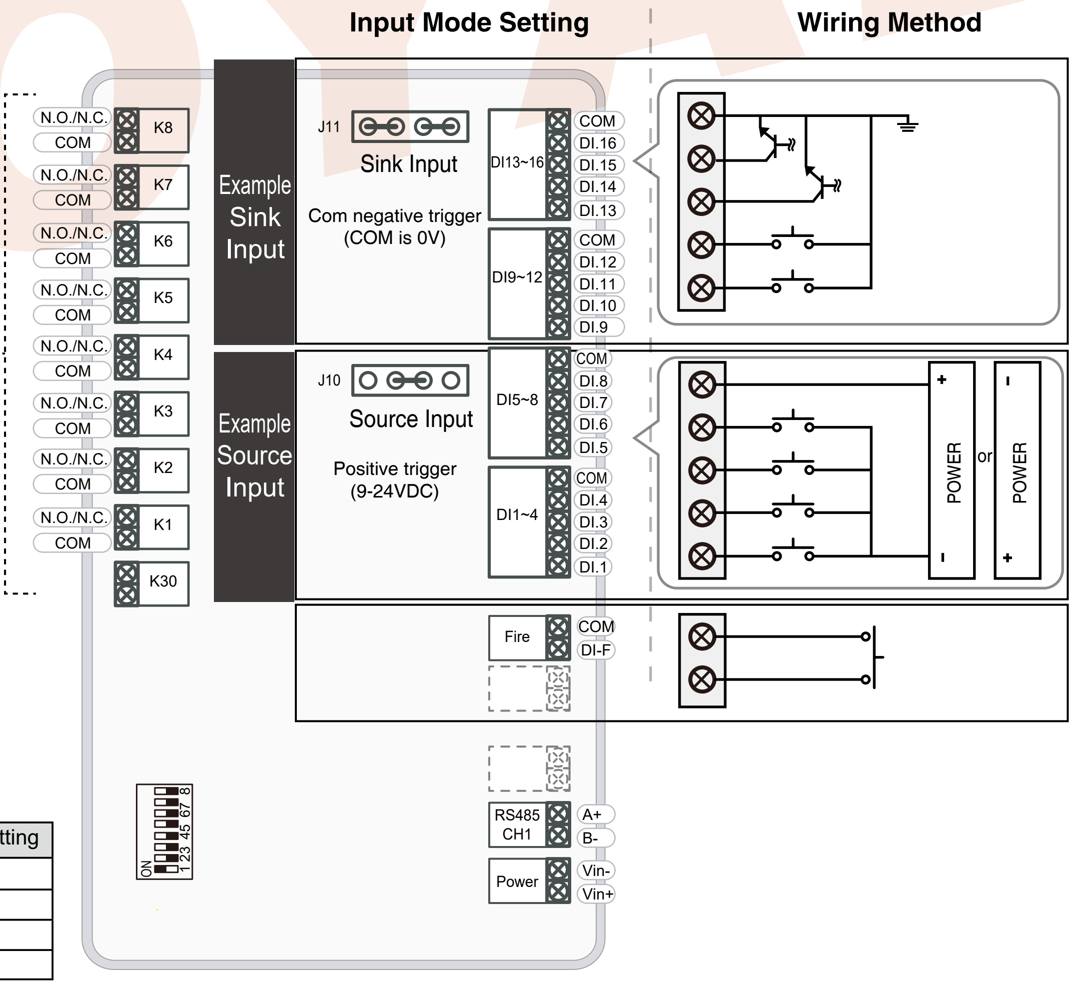


8 Interlock Door Solution--DIP Switch Setting



Wiring Diagram

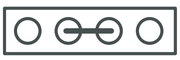




Input Mode Setting(J10/J11):

- **Sink Input(Default):**
  Com negative trigger (COM is 0V)

- **Source Input :**
  Positive trigger (9-24VDC)



D1 Group	Adjusted Inputsetting
DI 1~4	J10
DI 5~8	J10
DI 9~12	J11
DI 13~16	J11