

Intelligent Elevator Control Module User Manual



Index

1.General	3
2.Standard Specification	3
3.Functions	4
4.Dimensions	5
5.Installation	5
6.Wiring Diagram	6
7. Quick use steps	9
8.Parameter Settings	11
8.1 Main	11
8.2 Network	11
8.3 Device	12
8.4 Settings	12
8.4.1 EVRC mode	13
8.4.2 EVDC mode(Type: only control Down Button of elevator)	17
8.4.3 EVDC mode(Type: control UP & Down Buttons of elevator)	18
8.5 Card	20
8.6 Logout	22
9.System Connection	22

1.General

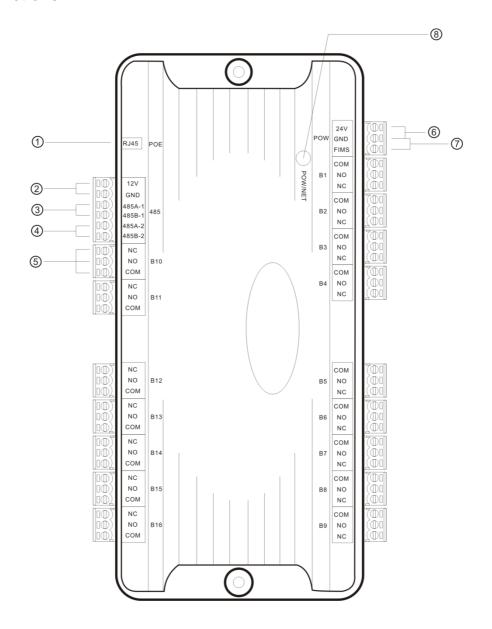
The elevator is one of the main tools for people in vertical moving. The wide use of the elevator system brings people a lot of convenience and benefits. In most cases, when using the elevator, it's short of measures in safety management and intelligence as well as personal access and permission management.

With POE power supply, the equipment uses TCP/IP to communicate and establish system network. It supports network expansion and elevator call permission control by elevator cab button. (Two 485 interfaces are available for extending card interface and communication interface. It identifies the users through IC/ID card and the password, then gives the access permissions. It communicates data and configures the network through 485 bus.)

2.Standard Specification

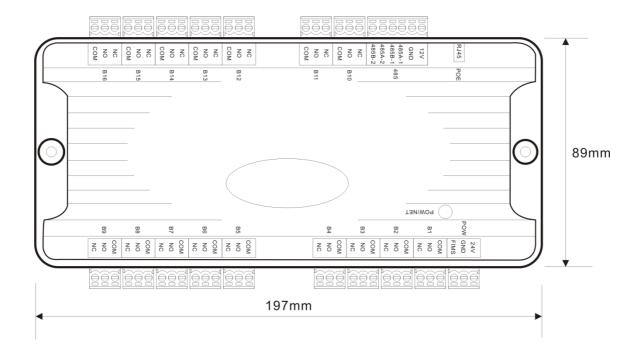
Channels	16
Parameter Storage	Operation Parameters are stored by EEPROM for more than 10 years
Enclosure	IP30
Weight	0.5 Kg
Dimensions	197mm(L)*89mm(W)*37mm(H)
Ambient Temperature	-40 °€+70 °C
Ambient Humidity	20% to 93%
Power Supply	POE(Optional 24VDC)
Communication	RS485*2 & TCP/IP
Control Method	Relay(1A 120VAC;1A 24VDC)
Firmware Upgrade	USB/Ethernet
Remote Management	Yes
Network	Ethernet (10/100Base-T) RJ-45
RS485 Communication	2 channels
Standby Consumption	4W
Max Consumption (NC)	7W
Mini Consumption (NO)	1W

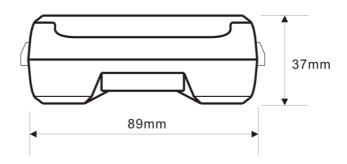
3.Functions



No.	Function	No.	Function		
0	Network Port for Communication and	6	B1~B16,16-channels relay for		
1	POE Power Supply	(5)	controlling elevator key panel		
2	Reserved (12VDC power supply)		Reserved (24VDC power supply)		
	RS485+ & RS485-,Used to connect ID/IC		Fire Switch		
3	card reader	7			
	RS485+ & RS485-, Used for		Indicator		
4	communication with DNAKE outdoor	8	Red: power supply(always on)		
	panel or computer serial port		Green: communicating(flashing)		

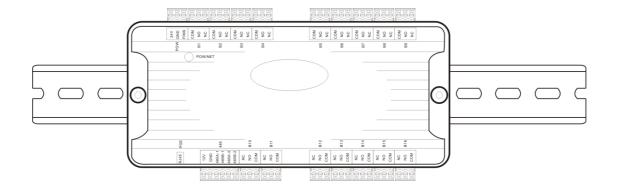
4.Dimensions





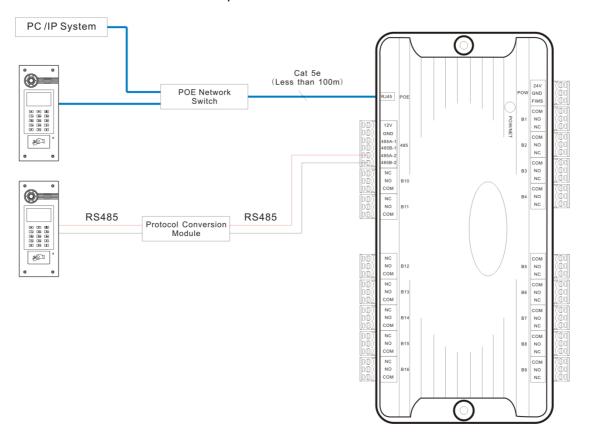
5.Installation

DIN rail installation

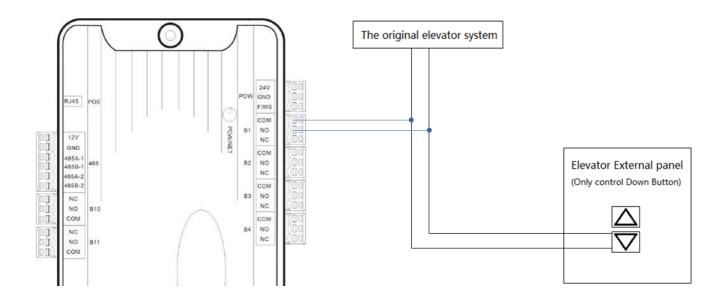


6.Wiring Diagram

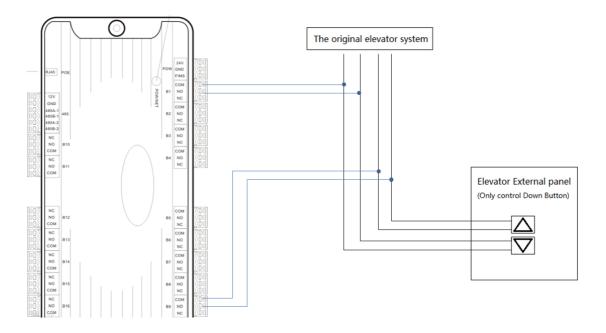
Connect to Outdoor Panel or Computer



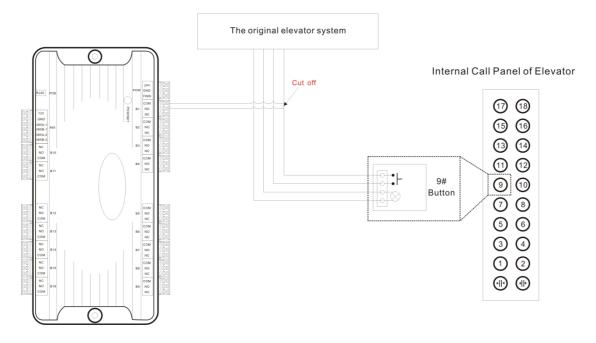
Connect to Elevator
Working mode:EVDC (Control Down Button)



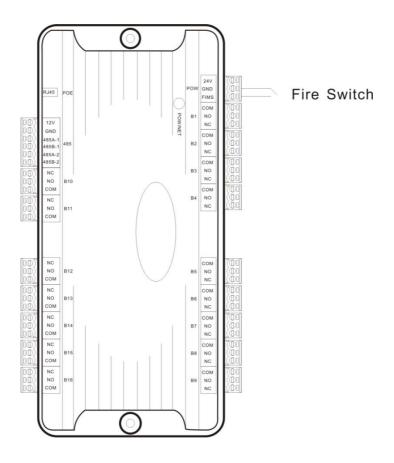
Working mode:EVDC (Control UP & Down Buttons)



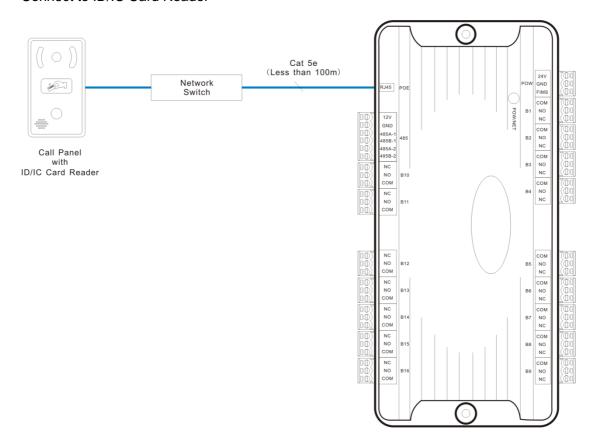
Working mode:EVRC



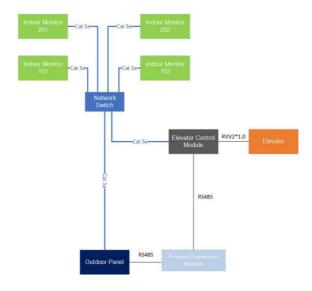
Fire Switch



Connect to ID/IC Card Reader



7. Quick use steps



Working logic:

Unlock from the indoor monitor(or click "call elevator" icon).

Monitor will sends command to Outdoor panel,then Outdoor panel sends command to EVC IP Relay Module via network(or RS485 command at the same time);then the corresponding relay will be triggered.

Step 1:

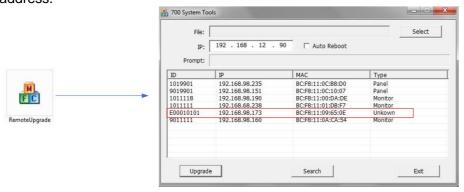
Connect the EVC ip relay module and PC to network switch.



Step 2:

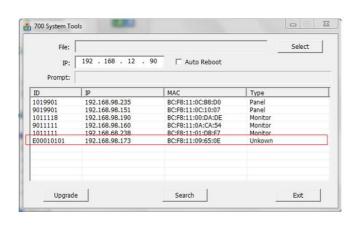
Use our Search Tool to find IP address of EVC module

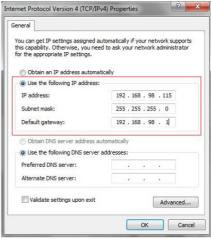
The ID number is Exxxx for the EVC module. You can query the device ID, Mac address and IP address.



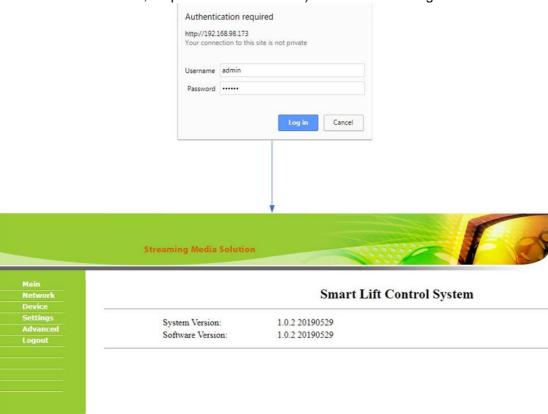
Step 3:

Change the local IP address of the PC on the same network segment according to the IP address of the device.





Step 4: Input the IP address of EVC to the browser, then input the user name and password(the default name is "admin",the password is "123456") to into the following interface:



8. Parameter Settings

8.1 Main

The system and software information:



8.2 Network



Network Settings:

DHCP: enable / disable DHCP function

IP: IP address should be unique in the same network

Mask: according to the actual network situation

Gateway: according to the actual network situation

DNS: according to the actual network situation

Click the submit button to complete parameter modification:

8.3 Device



Lift control device settings:

Build: Building number of EVC (the same with the outdoor panel which is used

together.),range 1~999

Riser: Unit number of EVC,range 0~99

Device Address: range 0~98

Click the submit button to complete parameter modification:

8.4 Settings



Lift control Settings:

Mode: Working mode EVRC or EVDC

EVRC: Usually used to control the internal call panel of elevator

Use contacts: Choose the type of contacts

Type:Control down and up key of lift's external call panel, or only control down key of lift's external call panel

Relay time: The default time is 500ms, which is used to stimulate the time of pressing up and down key.

EVDC:Usually used to control the external panel of elevator

Select the EVRC/EVDC mode and click the submit button, the corresponding parameter setting interface will appear.

Use contacts: Choose the type of contacts

Type:Control Automatically or Control Manually

Use:Configure the settings based on Floor and Apartment

Lift release time (card): The duration of triggering with card

Lift release time (intercom): The duration of triggering via intercom

Energise all relays(FailSafe):if you want the relay status to be opposite when power it,enable it,if not,leave it alone. (Usage: On EVRC mode of the elevator module, when you enable this option, you can use the NC port of the relays as an NO port to connect the Floor buttons inside the elevator. In this way, the module in the case of failure or power will not affect the normal use of the elevator.)

8.4.1 EVRC mode

Lift release time (card): 0~9999 (default 5s)seconds

Lift release time (intercom):0~9999 (default 1s)seconds

use Contacts COM/NO:When receiving the corresponding trigger command, the normally-open (NO) relay will activate.

use Contacts COM/NC: When receiving the corresponding trigger command, the normally-closed (NC) relay will activate.

Type:Control Automatically or Control Manually

Use: Configure the settings based on Floor and Apartment

Energise all relays(FailSafe):

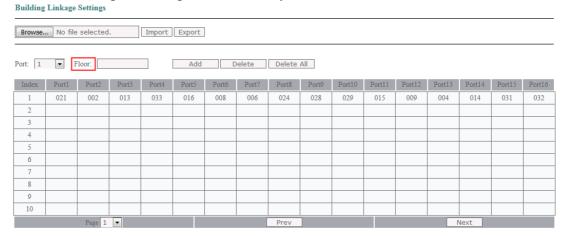
When EVC enables this function, all relays are in the **opposite state**.

When EVC is Powered on with this function enabled, all relays are in the opposite state. use Contacts COM/NO:When receiving the corresponding trigger command, the normally-closed (NC) relay will activate.

use Contacts COM/NC:When receiving the corresponding trigger command, the normally-open (NO) relay will activate.

The relay will be restored to its original state after Power OFF.

If "Use" at "Settings" is configured as "Floor", you will see "Advanced" as follow:



If "Use" at "Settings" is configured as "Apartment", you will see "Advanced" as follow: Building Linkage Settings

Browse.	No file	selected	l	Import	Export]										
Port: 1	▼	Apartment				Add	Delete	De	lete All							
Index	Port1	Port2	Port3	Port4	Port5	Port6	Port7	Port8	Port9	Port10	Port11	Port12	Port13	Port14	Port15	Port16
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
		Page 1	▼				[Prev						Vext		

When "Type" is configured as "Automatic", the table will display as follow. In this configuration, the two relays at lift controller will be triggered at the same time, B1 and B9, B2 and B10, B3 and B11... will be triggered in pairs at the same time.

Index	Port1	Port2	Port3	Port4	Port5	Port6	Port7	Port8
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
	Page 1			Prev			Next	

Select button: Setting Upload File Path

Import: After setting the file path, click Import to upload the file.Only support ".csv" format file.

Α	В	С	D	E	F	G	H	I	J	K	L	M	N	0	Р	Q
	Port1		Port3	Port4	Port5	Port6	Port7	Port8	Port9		Port11				Port15	
	1															
	2															
	3															
	1															
	5															
	õ															
	7															
	9															
1																
1	2															
1	3															
1	1															
1	5															
1	2															
1 1 1 1 1 1	7															
1	1															
1	5															

Export: Export configuration file (.csv) **Port**: Select port 1~16(B1~B16)

Floor/Apartment: Support 1 to 4 digits that is the same as the indoor monitor's room

number .

For Example:

Indoor Monitor

IP Address: 192.168.98.190

Building Number: 1

Unit: 1 **Room**: 101 Device: 0

Room No Settings

Build:	1
Unit:	1
Room:	101
Device:	0
Sync:	123456
Server:	192.168.12.40
Password:	123456
Submit	

Outdoor Panel:

IP Address: 192.168.98.54

Building: 1

Unit: 1

Device Settings

BuildNo: UnitNo:	1	
No.:	1	
Sys passwd:	•••••	
Panel mode:	Unit Panel	¥
Language:	English	₹
Volume:	3	₹
Video:	1280x720	۳
Forward:	One by one	₹
Dial Mode:	Normal	₹
Submit		

EVC Module:

IP Address:192.168.98.231

Building:1 Riser(Unit):1

Lift control device settings

Build:	1
Riser:	1
Device Address:	1
Submit	

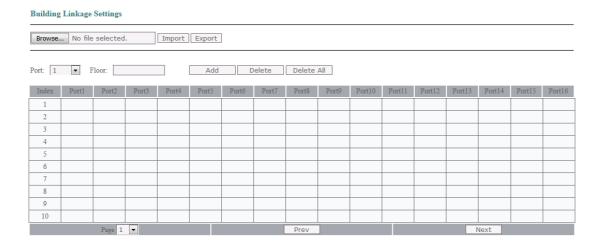
Calling room number 101 from the outdoor panel. When indoor monitor unlocks the door, when "Type" is configured as "Manual", the EVC relay Port1 (B1) normally-open contact will work, and visitors can press the floor button he want to visit, in this example, he will have access to press floor 1; When "Type" is configured as "Automatic", the EVC relay Port1 (B1) and Port9 (B9) normally-open contact will work at the same time, vistors no need to do any operation.

Permit button: Permission to open the floor where the indoor monitor is located



8.4.2 EVDC mode(Type: only control Down Button of elevator)





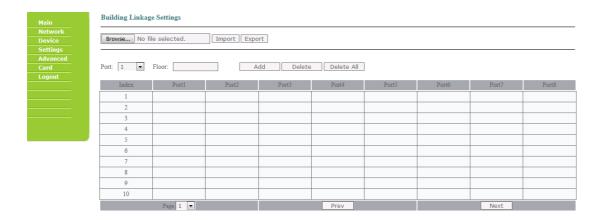
Parameter settings are the same as EVRC.

Click indoor monitor Elevator icon(only Down button enable), the EVC relay Port1 (B1) normally-open contact will work.



8.4.3 EVDC mode(Type: control UP & Down Buttons of elevator)





Parameter settings are the same as EVRC.

Click indoor monitor Elevator icon(Down button), the EVC relay Port1 (B1) normally-open contact will work.

Click indoor monitor Elevator icon(UP button), the EVC relay Port9 (B9) normally-open contact will work.

Note:

Port 1(B1) corresponds to port 9(B9)

Port 2(B2) corresponds to port 10(B10)

Port 3(B3) corresponds to port 11(B11)

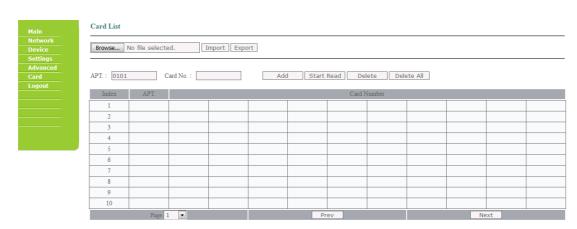
Port 4(B4) corresponds to port 12(B12)

Port 5(B5) corresponds to port 13(B13)

Port 6(B6) corresponds to port 14(B14)



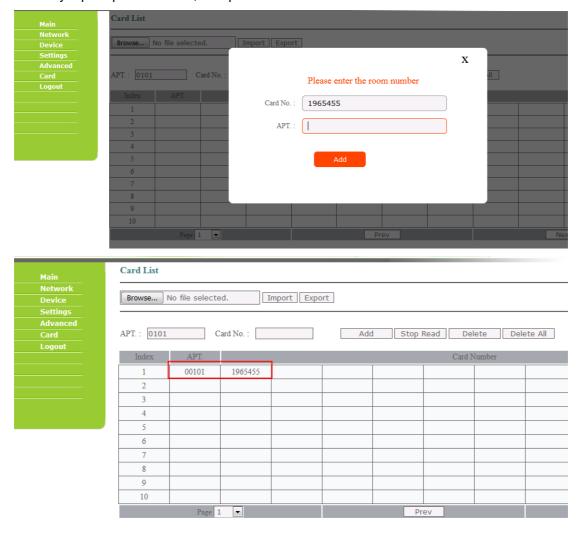
8.5 Card



The controller supports to connect with a card reader via RS485 to realize that the residents can swipe their fobs at lift car to call the lift/elevator, and the controller will provide access to the floor where the fobs are bound with.

You can Export and Import the card list here, and also Add the fobs/cards here manually and automatically.

If you want to Add the fobs/cards automatically,pls make sure the controller and card reader is connected correctly,and then press "Start read" to start reading card No.,swipe the fob/card above card reader,a card adding interface will come out automatically,you can only input apartment No.,then press "Add" to add this card to the card list.



Note:1. The card list only works at "EVRC" mode.

2.Make sure the RS485 port is existing at the controller, because some old version doesnot support RS485 now, because some components are not patched before.

8.6 Logout



9.System Connection

