

Title:	How to set up lift controller to work with intercom system	Version:	V2.0	Date:	25/11/2019
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Preparation - For the purpose of this document, the following products were used:

1. Latest iVMS-4200 version (V3.1 and up)

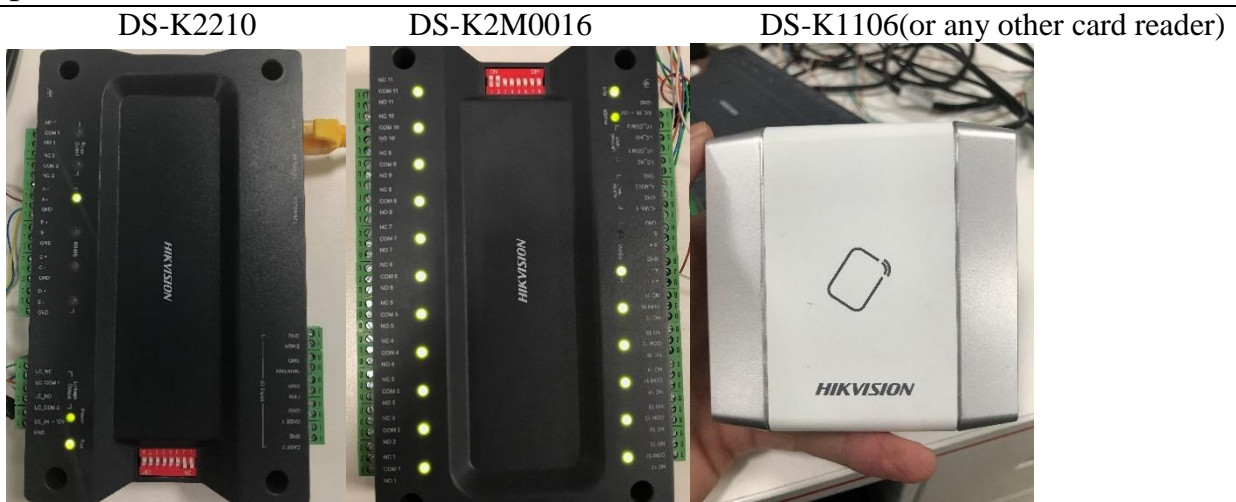
Download link: <https://www.hikvision.com/au-en/Support/Downloads/Client-Software>

2. 1 master lift control and 1 distributed lift control: DS-K2210, DS-K2M0016A

3. 1 GEN 2 door station and 1 indoor station.

4. 1 HIKVISION card reader connecting to the master lift control via Wiegand or RS485 (only when you need card reader in the system)

5. Set up the indoor station to connect to the door station



Indoor station



Door station

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How to set up lift controller to work with intercom system

1. DIP Switch configuration



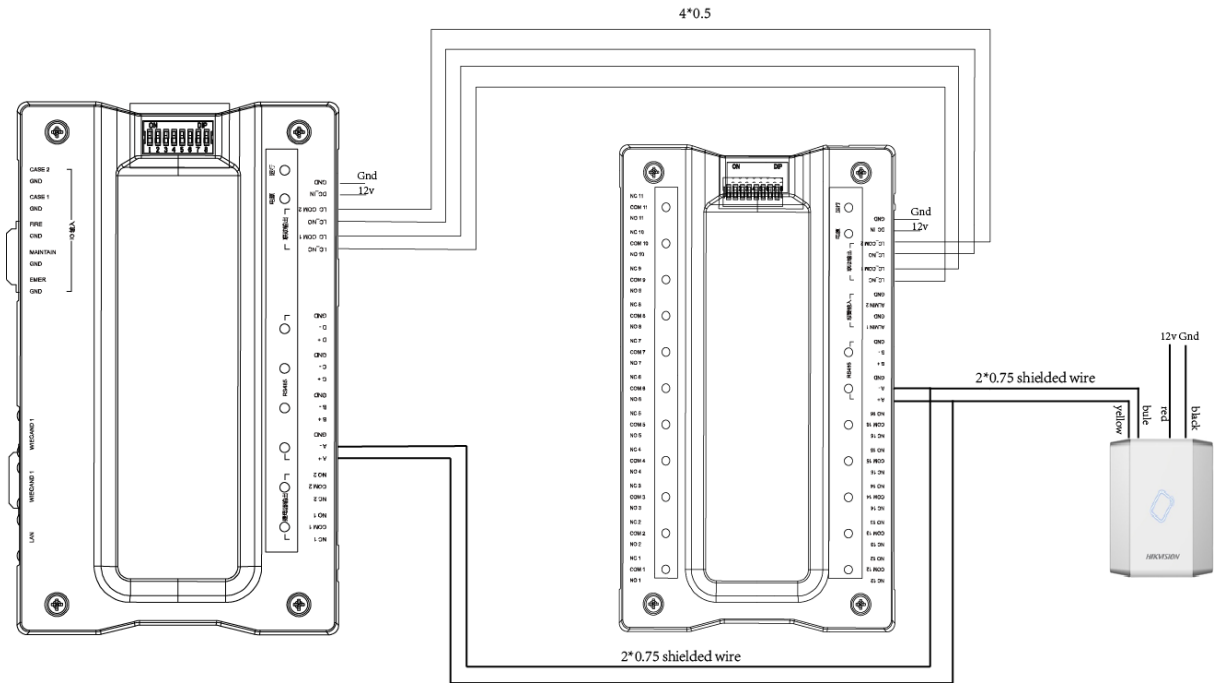
- 1) The DIP switch of the card reader should be decimal 1 or 2. (E.g. 10000000)
The DIP switch of the main lift controller (DS-K2210) could be 00000000
The DIP switch of distributed lift controller (DS-K2M0016A) is decimal 3-10.
All devices use binary dialing codes. (E.g. 11000000)

DIP Switch status for distributed lift control	Decimal	The corresponding floor
1100 0000	3	1-16
0010 0000	4	17-32
1010 0000	5	33-48
0110 0000	6	49-64
1110 0000	7	65-80
0001 0000	8	81-96
1001 0000	9	97-112
0101 0000	10	113-128

2. Wiring

- 1) Master lift control RS-485 A+ connects to distributed lift control RS-485 A+ as well as card reader RS485A
Master lift control RS-485 A- connects to distributed lift control RS-485 A- as well as card reader RS485B
Master lift control LC_NC connects to distributed lift control LC_NC
Master lift control LC_COM connects to distributed lift control LC_COM
Master lift control LC_NO connects to distributed lift control LC_NO
Master lift control LC_COM2 connects to distributed lift control LC_COM2

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3. Configuration

- 1) Open iVMS-4200 and activate lift controller in “Device Management”

Refresh Every 60s.

Total (4) Filter

IP	Device Model	Fir...	Security ...	P...	Enhance...	S...	Boot Time	Added	Support ...	Hik-Conn...	Operation	
<input checked="" type="checkbox"/>	192.0.0.64	DS-K2210	V1....	Inactive	8...	N/A	D...	2019-11-25 11:2...	No	N/A	N/A	⊕ 🔗
<input type="checkbox"/>	192.0.0.65	DS-KD8003-IME1/EU	V2....	Active	8...	N/A	D...	2019-11-25 10:4...	Yes	N/A	N/A	⊕ 🔗
<input type="checkbox"/>	192.0.0.64	DS-KH6320-WTE1	V2....	Active	8...	N/A	D...	2019-11-25 10:2...	Yes	N/A	N/A	⊕ 🔗
<input type="checkbox"/>	10.199.40.119	DS-PWA32-HSR	V1....	Active	8...	N/A	D...	2019-06-19 07:0...	No	N/A	N/A	⊕ 🔗

Activate

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2) Add the lift controller to client.

The screenshot shows the Hikvision software interface. At the top, there are navigation buttons: '+ Add', 'Q Online Device', 'X Delete', 'QR Code', 'Upgrade(0)', and 'Refresh'. Below this is a table with columns: Name, Connection T..., Network Param..., Device Type, Serial No., Security Level, Resource Us..., and Firmware Upgrade. The table contains three rows: 'indoor', 'outdoor', and 'outdoor2'. The 'outdoor2' row is highlighted. An 'Add' dialog box is open in the foreground, with fields for Name (Lift controller), IP Address (192.0.0.99), Port (8000), User Name (admin), and Password (masked). There are checkboxes for 'Synchronize Time' (unchecked) and 'Import to Group' (checked). A note at the bottom of the dialog says: 'Set the device name as the group name and add all the channels connected to the device to the group.' There are 'Add' and 'Cancel' buttons at the bottom right of the dialog.

- 3) Click remote configuration of **the door station** and set up the lift control for the door station.
 - Lift NO"1". If there is more than 1 master lift control in the system, we need to distribute different lift NO to different master lift control. One door station can add up to 4 master lift control
 - Lift control type "DS-K2210"
 - Interface type "Network Interface"
 - Enable or not "Yes"
 - Server IP address is the IP address of the master lift controller. Server port should be 8000.
 - User name "admin"
 - Password is the one you used for activating the lift control
 - Save once done

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Remote Configuration

The screenshot displays the 'Remote Configuration' interface. On the left is a navigation menu with categories: System, Intercom, Network, Video Display, and CCD. Under 'Intercom', 'Access and Elevator Control' is highlighted with a red box. The main content area is titled 'Configuring the Door and Ladder Parameters' and is divided into two sections: 'Access Control' and 'Elevator Control'. The 'Access Control' section includes a checkbox for 'Upload Alarm for Not-Closed Door', a 'Door No.' dropdown set to '1', a 'Door-unlocked Duration' input field set to '15', a 'Door Name' input field, and a checkbox for 'Encrypt Card'. A 'Save' button is located below these fields. The 'Elevator Control' section, also highlighted with a red box, includes an 'Elevator No.' dropdown set to '1', an 'Elevator Type' dropdown set to 'DS-K2210', a 'Negative Floor' input field set to '0', an 'Interface Type' dropdown set to 'Network Interface' (with a tip: 'All elevators should use the same interface type.'), an 'Enable Or Not' dropdown set to 'No', a 'Server IP Address' input field set to '192.0.0.99', a 'Server Port' input field set to '8000', a 'User Name' input field set to 'admin', and a 'Password' input field with masked characters. A 'Save' button is located at the bottom of this section.

- 4) Setup an indoor station to connect to the door station
- 5) Click remote configuration of the **indoor station**. Setup the floor NO for the indoor station (the example below is shown as NO 2)

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Remote Configuration

The screenshot displays the Hikvision remote configuration interface. On the left, a navigation menu is shown with 'ID Configuration' under the 'Intercom' section highlighted with a red box. The main content area is titled 'Configuring the Room Numbers' and shows a 'Device No. Configuration' form. The form includes a 'Device Type' dropdown menu set to 'Indoor Station', a 'Room No.' text input field containing '205', and a 'Floor No.' text input field containing '2'. A 'Save' button is located at the bottom of the form.

6) Now when you unlock the door from the indoor station, it will trigger relay output 2 in the distributed lift control

4. Set up the activation time for each relay output of the distributed lift control.

1) We need to setup the activation time for each relay output of the distributed lift control. Click “Access Control” tab in iVMS-4200

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Access Control Monitoring Time & Attendance Maintenance and Management

Video Application



Main View



Remote Playback



Data Retrieval



Report



AI Dashboard

Access Control



Person



Access Control



Monitoring



Time & Attendance

General Application



E-map



Event Center

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2) Click “Advanced Function”, device parameters, and choose the lift controller.

The screenshot displays the iVMS-4200 software interface. The top navigation bar includes 'Access Control', 'Monitoring', 'Time & Attendance', 'Maintenance and Management', and 'Event'. The left sidebar shows 'Device Parameters' selected under 'Advanced Function'. The main area shows a tree view with 'indoor' expanded to 'Lift controller', where 'Floor1' is highlighted. The right panel, titled 'Door Information', contains the following configuration fields:

- Name: Floor1
- Door Contact: Normally Closed
- Exit Button Type: Normally Open
- Floor Relay Action Time: 5 Seco
- Door Left Open Timeout Alarm: 30 Seco
- Super Password: [Empty field]

Buttons for 'OK' and 'Advanced' are located at the bottom of the configuration panel.

3) Click any floor under “lift control”. Floor 1 used as an example below

- If the master lift control is using firmware V1.0.0, then the floor relay action time is the relay output activation time
- If the master lift control is using firmware V1.0.1, then the lift control delay time is the relay output activation time

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Search

- ▶ indoor
- ▼ Lift controller
 - Floor1**
 - Floor2
 - Floor3
 - Floor4
 - Floor5
 - Floor6
 - Floor7
 - Floor8
 - Floor9
 - Floor10
 - Floor11
 - Floor12

Door Information

Name

Door Contact

Exit Button Type

Floor Relay Action Time Seconds

Door Left Open Timeout Alarm Seconds

Super Password

OK **Advanced**

Relay is triggered by swiping card.

Door Information

Name

Door Contact

Exit Button Type

Floor Relay Action Time Seconds

Door Left Open Timeout Alarm Seconds

Super Password

OK **Advanced**

1. Click advanced

Relay is triggered by indoor station unlocking the door.

Door Information

Extended Open Duration s

Duress Code

Dismiss Code

Elevator Control Delay Time min

OK **Cancel**

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5. Enroll users to the system

- 1) Click the “Person” tab in iVMS-4200

iVMS-4200

Access Control Monitoring Time & Attendance Maintenance and Management

Video Application

- Main View
- Remote Playback
- Data Retrieval
- Report
- AI Dashboard

Access Control

- Person**
- Access Control
- Monitoring
- Time & Attendance

General Application

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2) Add an organization first, add a user and input user information.

1. Create organization

2. Create person

Index	Name	Person ID	Card No.	Valid or Not	Fingerprint	Card	Face
1	Frank	1	0758505045	Not Expired	0	1	0

3) Select a card reader which is connected to the master lift control. Now select “Read” to read the card number and save the information after the card details are displayed

1. Click edit

2. Add a card

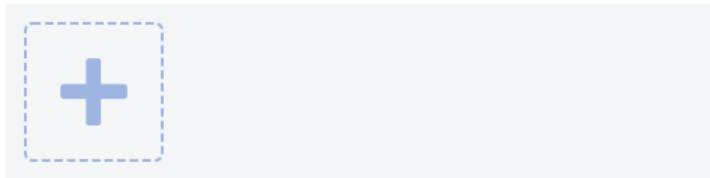
3. Use card reader to read the card number or type the card number.

4) Go to the “Resident Information” and link on indoor station. And click ‘Apply Now

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Fingerprint



Access Control

Resident Information

Bind Device

Room

Data Synchronization

Data is changed. Click Apply Now to apply the updated data to the devices.Or you can apply it to devices later in Permission interface.

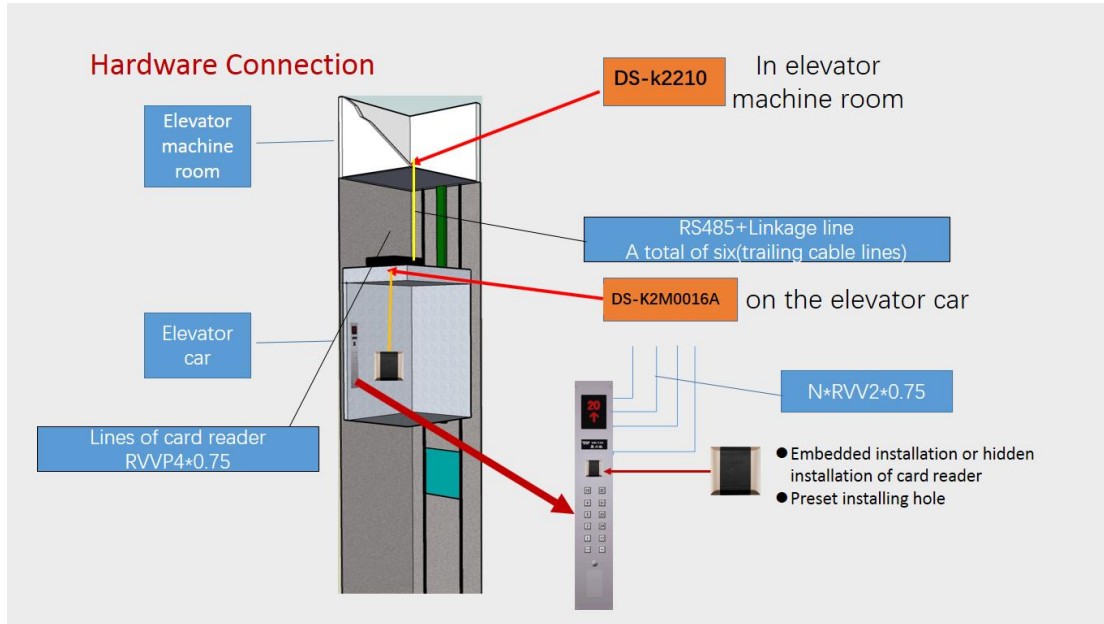
- 5) Now when you badge the card in the card reader which is connected to the lift controller, it will trigger the related relay output on distributed lift controller



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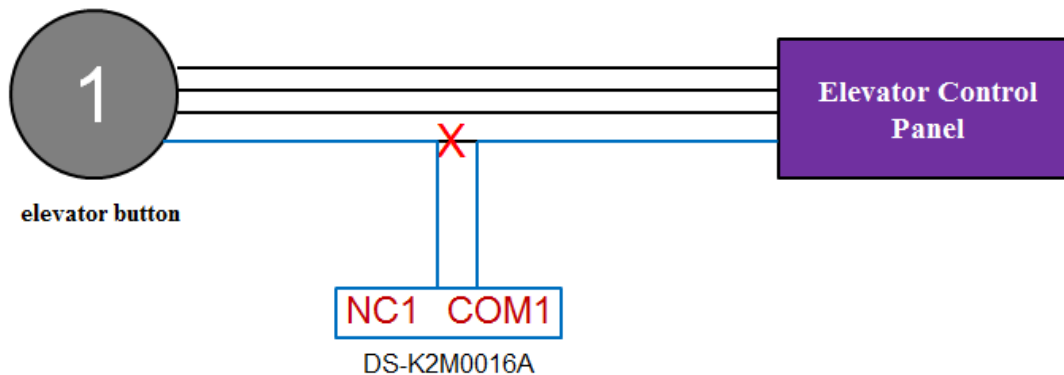
6. Installation

1) Controller installation diagram



2) Principle:

(The DIP switch of distributed lift controller (DS-K2M0016A) is decimal 3-10) : We control the buttons in the lift, by connecting NC (normally closed) and COM (common) into the button circuit. If the permission is verified, the relay will action and you can press the corresponding level button. The reason for connecting normally closed is that in the normal state the relay coil is energized and the relay contact are open. When the relay output is triggered, the relay contacts will close and allow the relevant button to be pressed. The advantage of this circuit is that it will allow the button to be pressed if the power supply fails and is unable to power the relay coil.

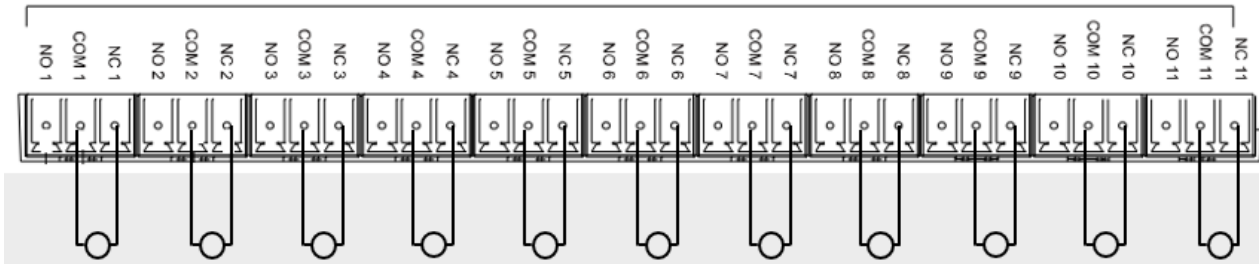


After the authentication is passed, the relay closes and the button enables

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Connect the relay output to the corresponding button

Relay connection



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