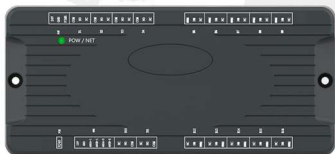


DNAKE



User Manual

DNAKE EVC-ICC-A5



REMARK

Please follow the user manual for correct installation and testing. If there is any doubt please call our tech-supporting and customer center.

Our company applies ourselves to reformation and innovation of our products. No extra notice for any change. The illustration shown here is only for reference. If there is any difference, please take the actual product as the standard.

The product and batteries must be handled separately from household waste. When the product reaches the end of service life and needs to be discarded, please contact the local administrative department and put it in the designated collection points in order to avoid the damage to the environment and human health caused by any disposal. We encourage recycling and reusing the material resources.

CATALOG

PRODUCT FEATURE	1
TECHNICAL PARAMETER	2
OVERVIEW	3
WEB SETTING.....	5
CLOUD SETTING.....	25
SYSTEM DIAGRAM.....	35
DEVICE WIRING	36
INSTALLATION.....	40
SAFETY INSTRUCTION	42

PRODUCT FEATURE

1. PoE or DC 24V/0.3A power supply.
2. Allows manual or automatic floor button activation based on user access.
3. Adjustable relay duration and release time for card or intercom triggers.
4. Enables floor authorization linkage to efficiently manage visitor and resident access.
5. Supports fail-safe configurations.

TECHNICAL PARAMETER

Power Supply: PoE or DC 24V/0.3A power supply

Standby Power: 4 W

Max Power (NC): 7 W

Mini Power (NO): 1 W

Relay: 16 Channels

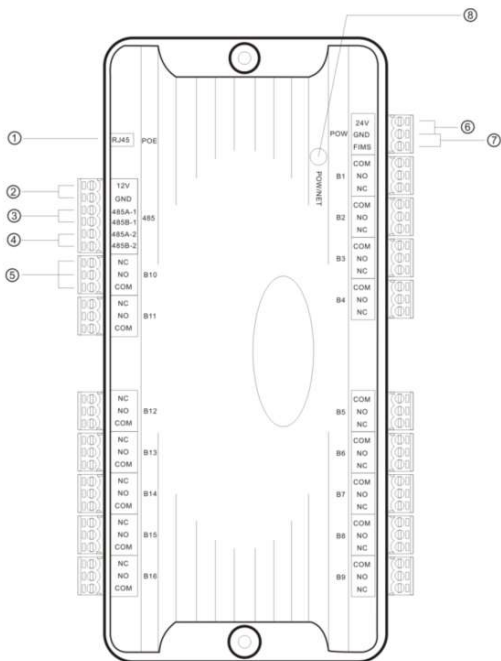
Working Temperature: -40°C to +55°C

Storage Temperature: -40°C to +70°C

Working Humidity: 10% to 90% (non-condensing)

Installation: Rail mounting

OVERVIEW

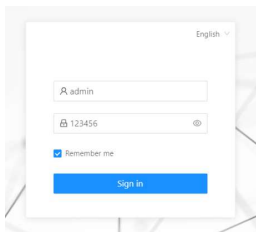


No	Function	No	Function
①	Network Port for Communication and POE Power Supply	⑤	B1~B16,16-channels relay for controlling elevator key pane
②	DC 12V power supply for RS485 reader	⑥	24VDC power supply
③	RS485+ & RS485-, Used to connect the card reader	⑦	Fire Switch
④	RS485+ & RS485-, Used for communication with DNAKE outdoor panel or access control	⑧	Indicator Red: Power supply Green: Communicating

WEB SETTING

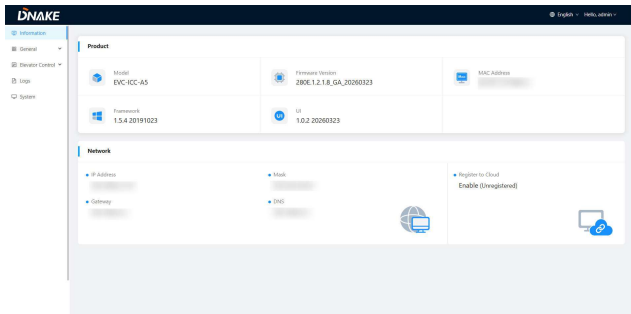
Connect Elevator Control and PC to a network switch in the same LAN. You can enter the IP address of Elevator Control in the web browser search bar and log in with the default account (admin) and password (123456). This is where you can configure the device.

For getting the IP address, you can search by DNAKE Remote Upgrade Tool which is installed in the same LAN with the devices.



1. Information

When you first log in to the web interface, you can find basic information displayed in this web.



Product	Model:	Model of the device;
	Firmware Version:	Firmware version of the device;
	MAC Address:	MAC address of the device;
	Framework:	Framework of the device;
	UI	UI version of the device
Network	IP Address:	Current IP address of the device;
	Mask:	Subnet mask of the device;
	Gateway:	Gateway of the device;
	DNS:	Domain Name Server of the device;

	Register to Cloud:	The status of device registers to cloud.
--	--------------------	--

2. General

2.1. General > Basic

The screenshot shows the Dnake web interface. On the left is a navigation menu with categories: Information, General, Basic, Time, Network, Password, and a dropdown for 'Euler Center'. The main content area is divided into two sections: 'Device Manager Server' and 'Device'. In the 'Device Manager Server' section, the 'Register to Cloud' toggle is turned on, and the 'Node' is set to 'Default Node (Connected)'. In the 'Device' section, the 'Automatic deployment' toggle is turned on. Below this are several input fields: 'Site ID', 'Device Name' (with a character count of 8/18), 'Building No.', 'Shelf No.', and 'Device No.', each with a dropdown arrow on the left. A 'Save' button is located at the bottom of the 'Device' section.

Device Manager Server	Register to Cloud:	It is used to configure the device to register to the cloud server;
Device	Site ID:	It is used to configure the device to automatically connect to the specified site of the cloud platform;
	Device Name:	The name of device;

	Building No:	Number of the building (Range: 1-999);
	Unit No:	Number of the unit (Range: 1-99);
	Device No.	Number of the device (Range: 1-99).

2.2. General > Time

Time of the device can be configured. Daylight Saving Time is also supported.

Time	Auto (Time):	Enable to synchronize computer time;
------	--------------	--------------------------------------

	Date&Time:	Date and time can be set manually;
	NTP URL:	Network Time Protocol (NTP) is a protocol used to synchronize computer time;
	Time Zone:	A region that observes a uniform standard time;
DST	Daylight-saving Time:	Enable to set DST;
	Start Time:	The beginning of DST;
	End Time:	The ending of DST;
	Offset Time:	The default value is 60 minutes.

2.3. General > Network

The device network can be set to either DHCP or a static IP address.

- Information
- General
- Basic
- Time
- Network
- Firewall
- Slave Control
- Logs
- System

Network

DHCP

* IP Address

192 . 168 . 2 . 101

* Mask

255 . 255 . 255 . 0

* Gateway

192 . 168 . 2 . 1

* DNS

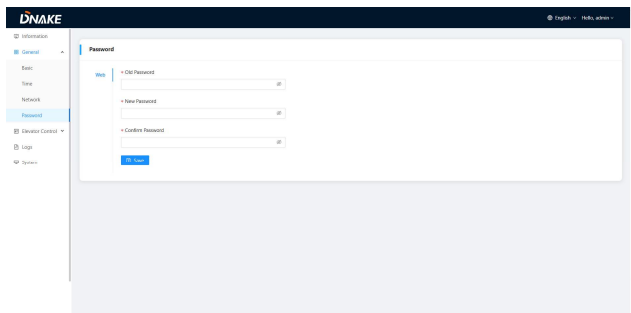
0 . 0 . 0 . 0

Save

Network	DHCP:	Enable DHCP (Dynamic Host Configuration Protocol) to dynamically distribute network configuration parameters;
	IP Address:	Configure Static IP address to manually distribute network configuration parameters;
	Mask:	Subnet mask;
	Gateway:	A component that is part of two networks, which use different protocols;
	DNS:	Domain Name Server of the device;

2.1 General > Network

The System password is for the administrator to log in settings on the device while the Web password is for the administrator to log in settings on the web. The default password for both of them is 123456.



3. Elevator Control

3.1. Elevator Control > Control Setting

The module supports two elevator control modes: EVRC and EVDC.

1. EVRC :

Used to connect to the elevator's relay control

board or floor buttons.

It mainly controls which floor button can be pressed or automatically lit after a user is verified (e.g., by card or door station).

Example: When a resident swipes a card at the door station, the system allows access only to that resident's floor in the elevator.

The screenshot shows the DNAKE web interface. The top navigation bar includes 'Information', 'General', 'Elevator Config.', 'Control Settings', 'Public Settings', 'User', 'Device', 'Log', and 'System'. The 'Control Settings' section is active, showing 'Elevator Settings' and 'Card' configuration options.

Elevator Settings

- Elevator Mode: DDC
- Use Contacts: COM/NC
- Type: Manually
- Use: Apartment
- US Release Time (and): 5 seconds
- US Release Time (important): 100 seconds
- Emergency Release (Call):

Card

- Card Display Mode: Disabled

Function	Description
Use Contacts	<ul style="list-style-type: none">• COM/NO (Normally Open): When receiving the corresponding trigger command, the normally-open (NO) relay will activate.• COM/NC (Normally Closed): When

	receiving the corresponding trigger command, the normally-closed (NC) relay will activate
Type	Sets how floor buttons are activated. <ul style="list-style-type: none"> • Manually: After getting floor access, the user must press the floor button manually. • Automatically: The floor button lights up automatically after authorization.
Use	Defines how relay ports are linked. <ul style="list-style-type: none"> • Floor: Relay actions are linked to floor numbers. • Apartment: Relay actions are linked to apartment numbers. <p>Example: Port 1 linked to Floors 1–10 means anyone living on these floors will trigger Relay 1 when using a card.</p>
Lift Release Time (Card)	Sets how long the elevator access remains valid after card verification. Range: 0–9999s (Default: 5s).
Lift Release Time (Intercom)	Sets how long the elevator access remains valid after an intercom or door station trigger. Range: 0–9999s (Default: 5s).
Energies All Relays (Fail Safe)	When enabled, all relays reverse state after power on. This helps ensure safe operation—e.g., in COM/NO mode, the relay acts as NC when

	power is on. When power is lost, relays return to normal.
--	---

2. EVDC :

Used to connect to the up or down elevator call buttons on each floor.

It mainly controls calling the elevator to a certain floor after a user is verified.

Example: When a resident presses “Call Elevator” on the indoor monitor, the EVDC module triggers the corresponding floor’s “Up” or “Down” button automatically.

Function	Description
Use Contacts	Works the same as in EVRC mode. Choose based on the type of elevator signal required.
Type:	<p>Defines which elevator call buttons are connected.</p> <ul style="list-style-type: none"> • Up: Controls only the UP call buttons. • Up and Down: Controls both UP and DOWN buttons. <p>Example: In “Up and Down” mode, Port 1–8 connect to DOWN buttons, and Port 9–16 connect to UP buttons of the same floors.</p>

Relay Time:	Duration the relay stays active when triggered. Range: 10-9999ms (Default: 500ms).
Use:	Defines how each relay port is linked to a floor or apartment, same as in EVRC mode. Example: Linking Port 2 to Floor 5 means when a user on Floor 5 calls the elevator, Relay 2 will activate.

Note: When the door station is unlocked, the system can automatically call the elevator to the floor where the door station is located.

For example, if the door station is on the ground floor, the elevator will automatically move to the ground floor after the door is opened.

3. Card

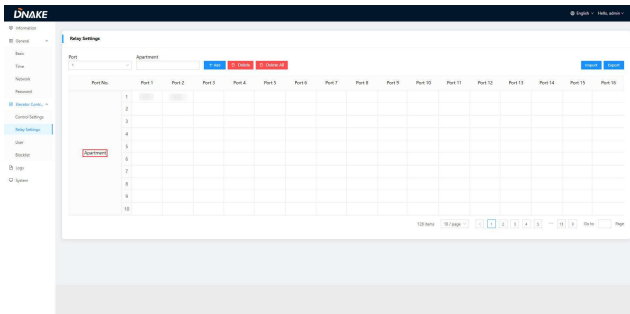
Card Display Mode: Hexadecimal/Decimal

The screenshot shows a settings panel titled 'Card'. Below the title, there is a label 'Card Display Mode' with a help icon. A dropdown menu is open, showing 'Hexadecimal' as the selected option. Below the dropdown is a blue 'Save' button with a floppy disk icon.

3.2. Elevator Control > Relay Settings

The Relay Setting function allows the system to associate a specific relay port with certain floors or apartments.

When a user gains access permission (for example, by card reader or door station), the corresponding relay will be triggered automatically to press the elevator floor button.



Item	Description
Port	Select the relay port to be configured. <ul style="list-style-type: none">• In Manual Mode, ports 1–ports 16 control up to 16 floors/apartment.• In Automatic Mode, ports 1–ports 8 control up to 8 floors apartment (ports 1–

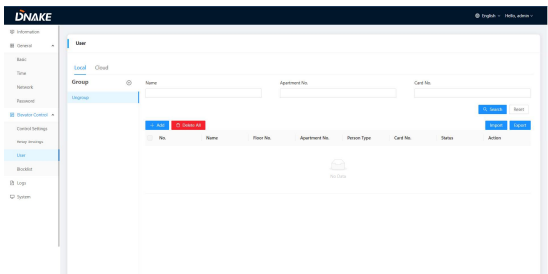
	ports 8 for relay control, ports 9–ports 16 for lighting the button).
Use (Floor / Apartment)	<p>Defines how the relay is linked:</p> <ul style="list-style-type: none"> • Floor: Used when the Relay Setting is based on floor numbers. For example, if Port 1 is connected to the 1st floor and 128 floors are linked, all residents from those 128 floors can access the 1st floor. • Apartment: Used when the linkage is based on specific apartment numbers. For example, if apartment 101 is linked to Port 1 and Port 1 controls the 1st floor, only apartment 101 can access the 1st floor. <p>Apartment number: 1-99999 Floor number: -200 to 200</p>
Add	Click Add to associate the apartment/floor with the selected port. Each port can link up to 128 apartments/floors.
Delete	Select a port and enter an apartment/floor to remove its linkage.
Delete All	Remove all existing linkage data after confirmation.
Import/Export	Import or export linkage data quick configuration.

Note:

If Port 1 is linked with floors 1–10, when any resident from floor 1–10 swipes their card, Relay 1

will be triggered to press the elevator button for that floor automatically.

3.3. Elevator Control > User



It is used to manage user locally or view the user from cloud. Each registered user corresponds to an apartment, and can be used to trigger elevator access. If the user wants to control the elevator using a QR code or password, an DNAKE AC02C or DNAKE AC02 must be used as the reader.

Item	Description
Add	Add new user
Delete	Click the user No., then click Delete to remove a user.

Delete All	Click to remove all registered user after confirmation.
Import / Export	Supports batch import and export in CSV format. • Import: Select a local CSV file and upload it. Existing data will be updated; new data will be added.

Add User: Enter the User ID, then input the Name and Apartment No. You can also set the number of allowed entries for the user. On the right side, select the Person Type (Resident, Visitor, or Staff), If Staff is selected, it must be associated with the floor/room number that has been configured in Relay Setting, and choose the PIN Mode (Random PIN or APT + PIN). Finally, you can add a card and PIN, Effective Time is optional.

Add
✕

Status:

* User ID:

* Name:

* Apartment No.:

Number of Passes:

Person Type:

PIN Mode:

APT No. + PIN

Card No.: Read

+ Add Card No.

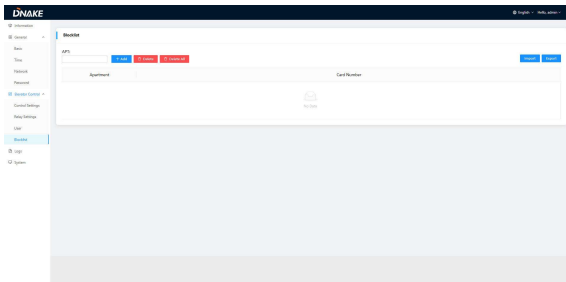
Effective Time:

Cancel OK

3.4. Elevator Control > Blocklist

The blocklist is used to block specific apartments from using elevator access.

Any cards registered under a blocklisted apartment will not be able to trigger elevator permissions.



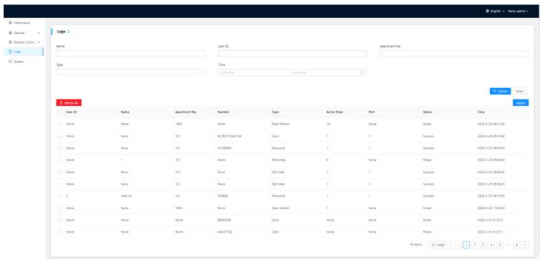
Item	Description
Add	Enter APT, then click Add to add the apartment to the blocklist. Up to 60 apartments can be added to the blocklist.
Delete	Enter APT, then click Delete to remove it from the blocklist. Once removed, the apartment's cards regain normal access.
Delete All	Click to remove all blocklist entries after confirmation.
Import / Export	Supports batch import and export in CSV format. • Import: Select a local CSV file to upload.

Note:

If apartment **201** is in the blocklist, none of the cards registered under apartment **201** will be able to call or access the elevator.

4. Logs

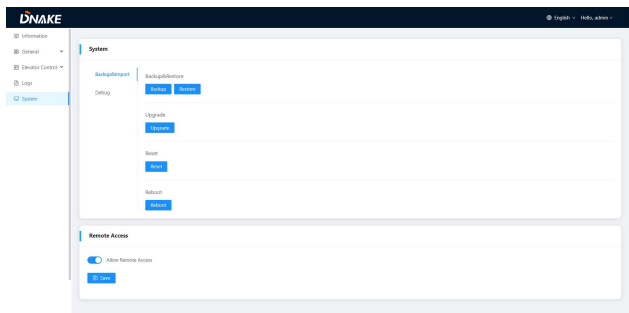
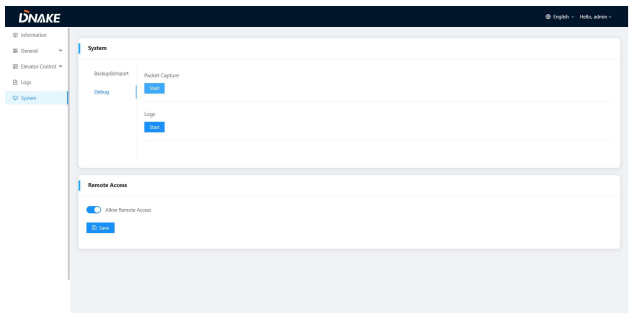
It is used to view the elevator logs of the device



Search:	Fill in text inputs to search;
Reset:	Click reset to clear words in text inputs;
Delete All:	Delete all data on the chart;
Export:	Export all data on the chart;

5. System

The system column is designed for data backup and restore, firmware upgrade, factory default, device reboot, packet capture, logs capture and Remote Access.



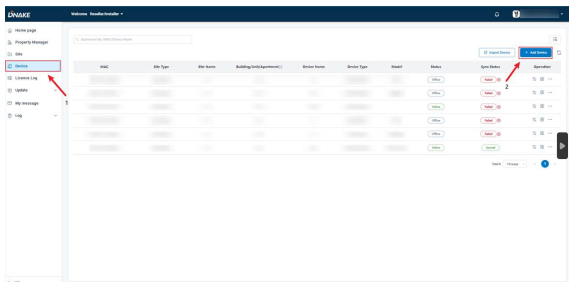
System	Backup & Restore:	Backup all setting and restore settings;
	Upgrade:	Upgrade equipment;
	Reset:	Reset to factory settings;

	Reboot:	Reboot the device;
	Packet Capture:	Capturing packets can help developers reproduce positioning problems;
	Logs:	Device logs.
Remote Access	Remote Access:	Allow remote access the web via Dnake cloud platform.

CLOUD SETTING

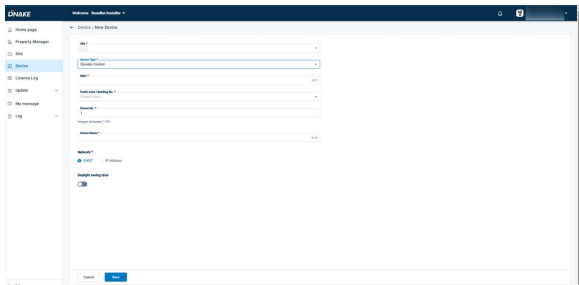
1. Add Elevator Control to Cloud

- ◆ Step 1: Log in with a Reseller/Installer account, go to the Device section, and click Add Device.



- ◆ Step 2: After entering the device addition page, select the Site, then choose Elevator Control as the Device Type, enter the device MAC address, select the corresponding Public Area/Building No., and input the Device No. and Device Name. Finally, select the Network, and you can

also enable or disable DST (Daylight Saving Time) on this page.



2. Floor Setting

This function defines which floors the elevator control device can reach in the building.

- The available floor range is **-9 to 99** (including 0).
- **Floor 1** is selected by default and can be unchecked if needed.

- Selected floors represent the accessible floors for the device.

The screenshot shows the DNAME web interface with a table of devices. A red arrow points to the 'Access Device Webserver' menu item for an elevator control device.

MAC	Site Type	Site Name	Building/Unit /Apartment	Device Name	Device Type	Model	Status	Operation
BCFB1101A85B	Community	Eorpe business ...	1/D-	elevator control	Elevator Control	IPC-KC-A5	Online	<ul style="list-style-type: none"> Access Device Webserver Floor Setting Reboot Details Edit Delete
BCFB1101585A	Single-Family Home	1	-/-	123	Villa Station	S212/FP03	Offline	
BCFB1101D644	Single-Family Home	1	-/-	111	Indoor Monitor	E216	Offline	
BCFB11004D74	Community	Eorpe business ...	1/D-	1	Door Station	S817	Offline	
BCFB1101F8F5	Community	Eorpe business ...	1/D-	123	Door Station	S817	Offline	
BCFB110B0C9F	Community	roger	1/S/2221	A81616	Indoor Monitor	Android Indoo...	Offline	

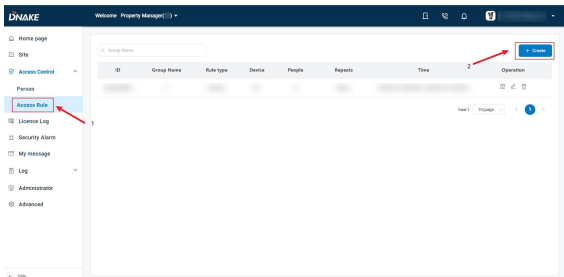
The screenshot shows the DNAME web interface with the 'Floor Setting' dialog box open. The 'Floor List' is selected, and floors 8, 9, 10, 11, 12, 13, 14, and 15 are listed. The 'Selected(7)' list shows floors 1, 2, 3, 4, 5, 6, and 7.

MAC	Site Type	Site Name	Building/Unit /Apartment
BCFB1101A85B	Community	Eorpe business ...	1/D-
BCFB1101585A	Single-Family Home	1	-/-
BCFB1101D644	Single-Family Home	1	-/-
BCFB11004D74	Community	Eorpe business ...	1/D-
BCFB1101F8F5	Community	Eorpe business ...	1/D-
BCFB110B0C9F	Community	roger	1/S/2221

3. Add Elevator Control Device to Access Rule

After the elevator control device is connected to the cloud, it can be added to an Access Rule.

- ◆ Step 1: Log in with the Property Manager account and click Create on the Access Rule page.



- ◆ Step 2: After entering the page, input the Group Name, select the Rule Type, then choose the Repeat mode, set the start and end time, add the corresponding devices, and finally click Save to confirm.

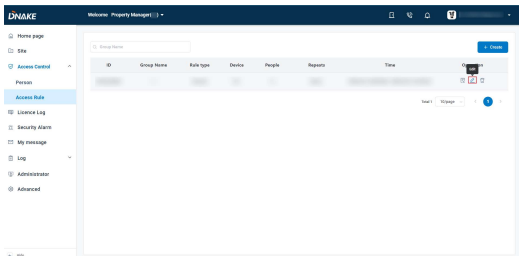
The screenshot shows the 'New Access Rule Group' configuration page in the DINAKE Property Manager. The interface includes a sidebar with navigation options like 'Home page', 'Site', 'Access Control', 'Person', 'Licence Log', 'Security Alarm', 'My message', 'Log', 'Administrator', and 'Advanced'. The main content area is titled 'Basic Information' and contains several input fields: 'Group Name' with a search icon, 'Period' with a dropdown menu, and 'Range' with a dropdown menu. Below this is the 'Reports' section with radio buttons for 'Hour' (selected), 'Daily', and 'Weekly'. The 'Time' section has 'Start Time' and 'End Time' dropdowns. At the bottom, there is a table with columns: 'Device Name', 'Building/Unit/Apartment', 'Relay / Floor', and 'Operation'. A '+ Add Device' button is located to the right of the table. At the very bottom of the form are 'Cancel' and 'Save' buttons.

Once added, the Relay/Floor field will display a building dropdown list — this is only available for elevator control devices, while other devices will continue to show the relay list.

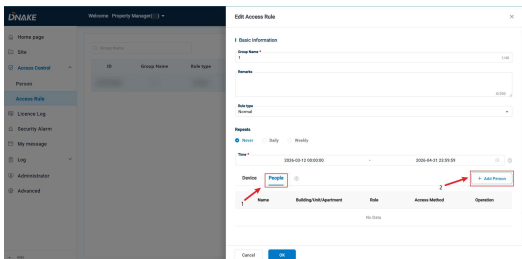
4. Binding Residents/Person to Access Rules

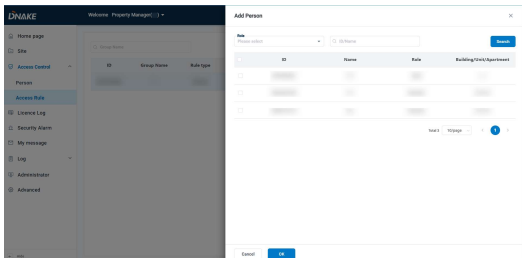
When a resident or person is added to an Access Rule, they automatically gain access to the floors defined in that rule.

- ◆ Step 1: Click the Edit button in the Operation column.



◆ Step 2: After entering the Edit page, click People, then select Add Person.

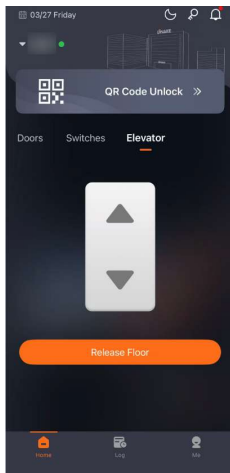




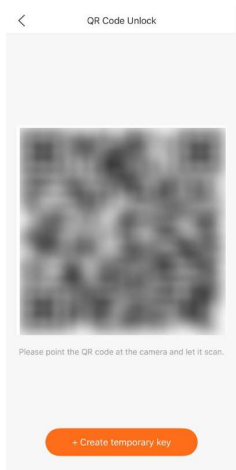
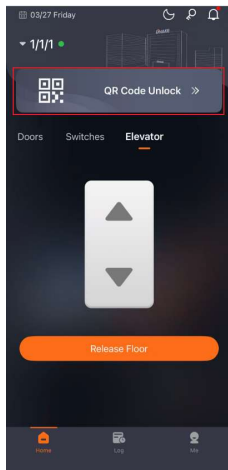
5. Smart Pro APP Control

After the device is successfully registered to the cloud, the elevator can be controlled on the Elevator page of the DNAKE Smart Pro, including selecting floors and releasing floors. When used with DNAKE AC02C or DNAKE AC02 devices, elevator control can also be achieved via QR code, temporary QR code, or temporary PIN code.

1. Press the Up or Down button on the screen to call the elevator, and click Release Floor to release the selected floor.



2. Click the QR Code Unlock page to enter the QR code interface.



3. Click Create Temporary Key at the bottom to generate a temporary key, Enter the user's name and select the Door Station to be accessed, choose the Mode (Only Once, Daily, or Weekly), set the Each Door Count, define the start and end time, and finally choose whether to Generate PIN .

< QR Code Unlock



Please point the QR code at the camera and let it scan.

+ Create temporary key

< Create temporary key

*Name Please enter the name

*Door Station >

Mode Only once >

*Each Door Count 1 >

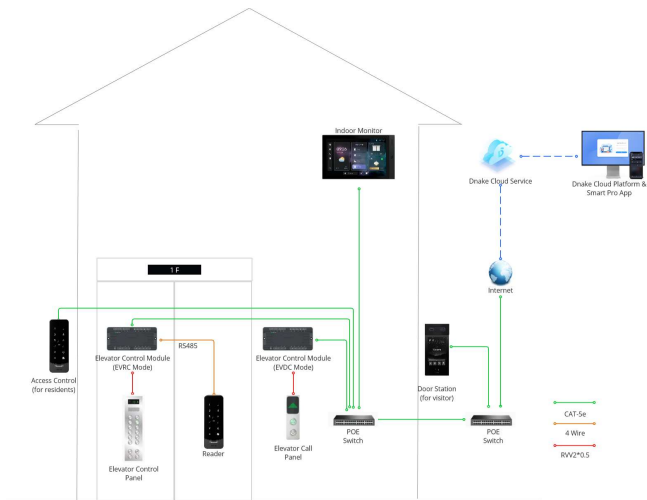
*Start Time >

*End Time >

Generate PIN

Submit

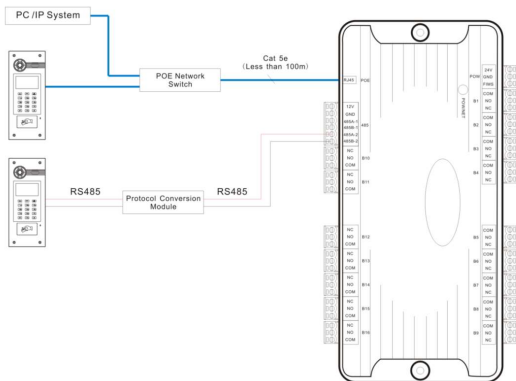
SYSTEM DIAGRAM



DEVICE WIRING

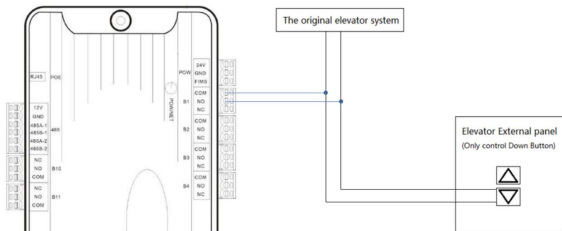
1. Connect to Door station

Support connects the door station via network or connects the door station as an IP reader.

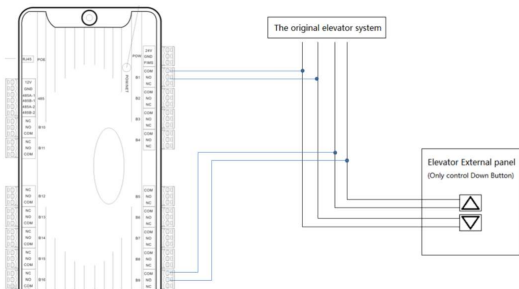


2. Connect to Elevator---EVDC

Working mode: Control Down Button.

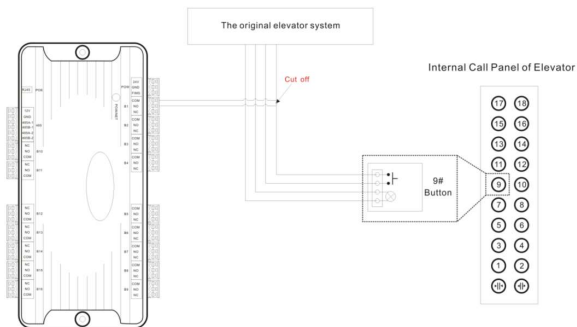


Working mode: Control UP & Down Buttons

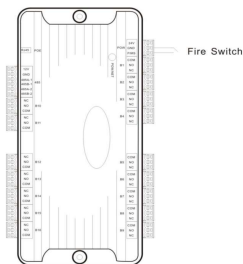


3. Connect to Elevator---EVRC

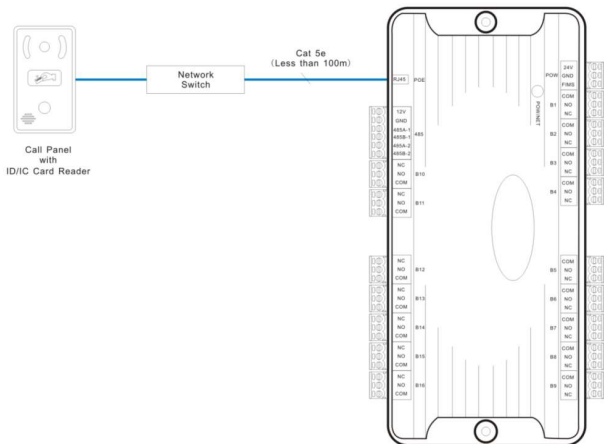
Working mode: Connect to the elevator button.



4. Connect to Fire Switch

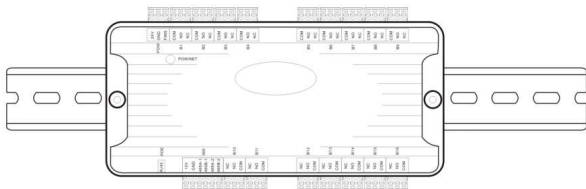


5. Connect to ID/IC Card Reader



2. Installation

DIN Rail installation



SAFETY INSTRUCTION

In order to protect you and others from harm or your device from damage, please read the following information before using the device.

- Do not torque too much.
- Do not install the device in the following places:
- Do not install the device in high-temperature and moist environment or the area close to magnetic field, such as the electric generator, transformer or magnet.
- Do not place the device near the heating products such as electric heater or the fluid container.
- Do not place the device in the sun or near the heat source, which might cause discoloration or deformation of the device.
- Do not install the device in an unstable position to avoid the property losses or personal injury caused by the falling of device.

Guard against electric shock, fire and explosion:

- Do not use damaged power cord, plug or loose outlet.

- Do not touch the power cord with wet hand or unplug the power cord by pulling.
- Do not bend or damage the power cord.
- Do not touch the device with wet hand.
- Do not make the power supply slip or cause the impact.
- Do not use the power supply without the manufacturer's approval.
- Do not have the liquids such as water go into the device.

Other Tips

- In order to prevent damage to the paint layer or the case, please do not expose the device to chemical products, such as the diluent, gasoline, alcohol, insect-resist agents, opacifying agent and insecticide.
- Do not knock on the device with hard objects.
- Overexertion might cause flopper or damage to the device.
- Please be careful when standing up from the area under the device.
- Do not disassemble, repair or modify the device at your own discretion.

- The arbitrary modification is not covered under warranty. When any repair required, please contact the customer service center.
- If there is abnormal sound, smell or fume in the device, please unplug the power cord and the devices connected to the module immediately and contact the customer service center.
- When the device isn't used for a long time, you can remove the power on device, and make sure all the devices (Including the AC IN interface) connected to the module are power off.
- When the device isn't used for a long time, the adaptor and memory card can be removed and placed in dry environment.
- When moving, please hand over the manual to new tenant for proper usage of the device.



**EASY & SMART
INTERCOM SOLUTIONS**

DNAKE