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 techsupporting 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

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PRODUCT FEATURE

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

TECHNICAL PARAMETER

Power Supply: PoE or DC 12V/0.3A power supply

Standby Power: 4 W

Max Power (NC): 7 W

Mini Power (NO): 1 W

Relay: 16 Channels

Working Temperature: -10°C to +55°C

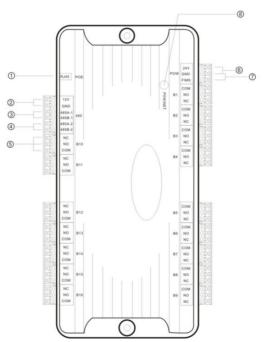
Storage Temperature: -40°C to +70°C

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

Installation: Rail mounting

OVERVIEW

50.0



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

WEB SETTING

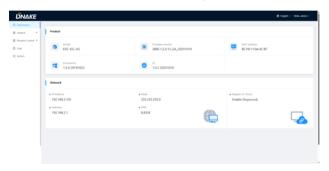
Connect Elevator Control and PC to a network switch in the same LAN. You can enter the IP address of Elevator Control in the web browser search bar and log in with the default account (admin) and password (123456). This is where you can configure the device.

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.



Model:	Model of the device;
Firmware	Firmware version of the device;
Version:	
MAC	MAC address of the device;
Address:	
Framework:	Framework of the device;
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	The status of device registers to
Cloud:	cloud.

2. General

2.1 General > Basic



Register to Cloud: It is used to configure the device to register to the cloud server;

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).

2.1 General > Time

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



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;
Daylight-saving	Enable to set DST;
Time:	
Start Time:	The beginning of DST;

End Time:	The ending of DST;
Offset Time:	The default value is 60 minutes.

2.1 General > Network

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



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.



Function	Description
	COM/NO (Normally Open): When
	receiving the corresponding trigger
Use	command, the normally-open (NO) relay
Contacts	will activate.
	• COM/NC (Normally Closed): When
	receiving the corresponding trigger

	command, the normally-closed (NC) relay
	will activate
	Sets how floor buttons are activated.
	Manually: After getting floor access, the
Type	user must press the floor button
Туре	manually.
	Automatically: The floor button lights
	up automatically after authorization.
	Defines how relay ports are linked.
	Floor: Relay actions are linked to floor
	numbers.
Use	Apartment: Relay actions are linked to
Use	apartment numbers.
	Example: Port 1 linked to Floors 1–10
	means anyone living on these floors will
	trigger Relay 1 when using a card.
Lift	Sate how long the aleyster access remains
Release	Sets how long the elevator access remains valid after card verification.
Time	Range: 0–9999s (Default: 5s).
(Card)	hange. 0-33338 (Deidult. 38).
Lift	Sets how long the elevator access remains
Release	valid after an intercom or door station

Time	trigger.
(Intercom)	Range: 0–9999s (Default: 5s).
	When enabled, all relays reverse state
-	after power on.
Energies	This helps ensure safe operation—e.g., in
All Relays	COM/NO mode, the relay acts as NC
(FailSafe)	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	Works the same as in EVRC mode. Choose
Contacts	based on the type of elevator signal required.
	Defines which elevator call buttons are
	connected.
	Up: Controls only the UP call buttons.
Turna	• Up and Down: Controls both UP and DOWN
Type:	buttons.
	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.
Dalau	Duration the relay stays active when
Relay	triggered. Range: 10–9999ms (Default:
Time:	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

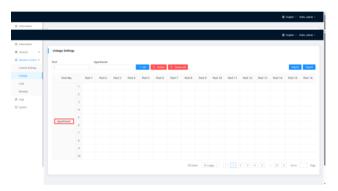
Card Display Mode: Hexadecimal/Decimal



3.2 Elevator Control > Control Setting

The Linkage 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.
	• 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).
	Defines how the relay is linked:
	• Floor: Used when the linkage 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
Llas (Flass /	floors can access the 1st floor.
Use (Floor /	Apartment: Used when the linkage is
Apartment)	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.
	Apartment number: 1–99999
	Floor number: -200 to 200
	Click Add to associate the apartment/floor
Add	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 > Card

It is used to manage user cards locally or view the card from cloud. Each registered card



corresponds to an apartment, and can be used to trigger elevator access.

Item	Description
Add	Enter Apartment No. (APT) and read the card,
	then click Add to register a new card.
Delete	Click the Card No., then click Delete to remove a
	card.
Delete All	Click to remove all registered cards after
	confirmation.
	Supports batch import and export in CSV format.
Import /	Import: Select a local CSV file and upload it.
Export	Existing data will be updated; new data will be
	added.

3.3 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.

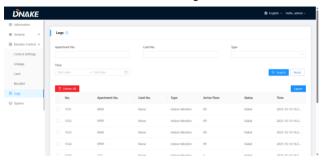
Delete	Enter APT, then click Delete to remove it
	from the blocklist. Once removed, the
	apartment's cards regain normal access.
Delete All	Click to remove all blocklist entries after
	confirmation.
Import / Export	Supports batch import and export in CSV
	format. • Import: Select a local CSV file to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

Note:

If apartment **201** is in the blacklist, 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.



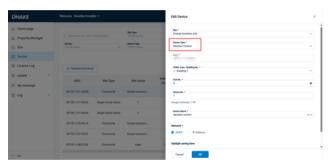


Backup & Restore:	Backup all setting and restore
	settings;
Upgrade:	Upgrade equipment;
Reset:	Reset to factory settings;
Reboot:	Reboot the device;
Packet Capture:	Capturing packets can help
	developers reproduce positioning
	problems;
Logs:	Device logs.
Remote Access:	Allow remote access the web via
	Dnake cloud platform.

CLOUD SETTING

1. Add elevator control to cloud

Enter the device mac address then choose the device type, then add the elevator control to cloud.

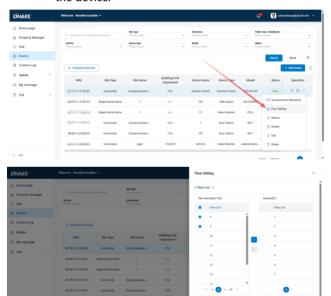


2. Floor Setting

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.

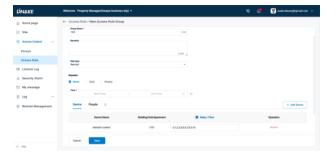


3. Add Elevator Control Device to Access Rule

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

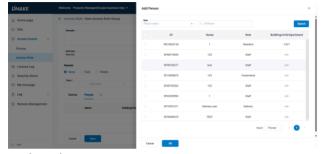


Once added, the Relay/Floor field will display a building dropdown list — this is only available for elevator control devices, while other devices will continue to show the relay list.



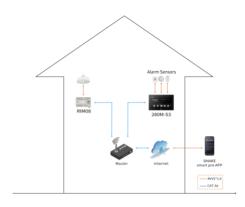
4. Binding Residents/Person to Access Rules

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



that rule.

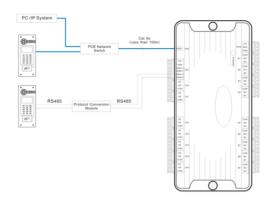




DEVICE WIRING

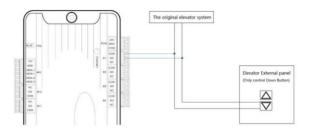
1. Connect to Door station

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

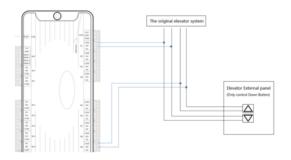


2. Connect to Elevator---EVDC

Working mode: Control Down Button.

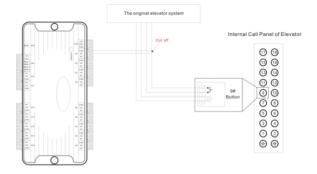


Working mode: Control UP & Down Buttons

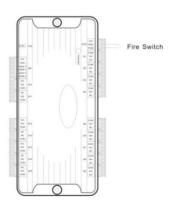


3. Connect to Elevator---EVRC

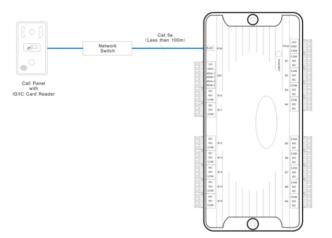
Working mode: Connect to the elevator button.



4. Connect to Fire Switch

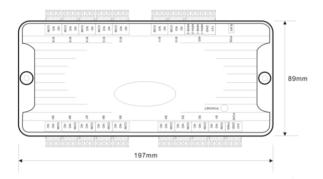


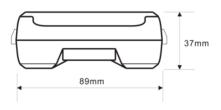
5. Connect to ID/IC Card Reader



INSTALLATION

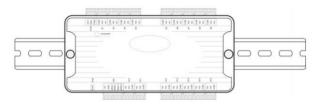
1. Dimension





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 flopover 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.

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