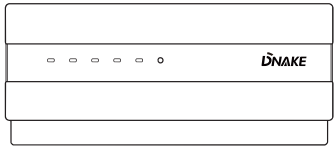
ACCESS
CONTROL

MODEL:

AC-4D-MW



QUICK START GUIDE

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

Package Contents 1

Overview 2

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Troubleshooting 12

Safety Instructions 13

FCC Warning 14

For specific operation instructions, please scan the following QR code to obtain the full version of the User Manual.

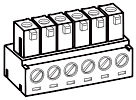
PACKAGE CONTENTS

Please make sure the package contains the following items:

MODEL: AC-4D-MV



AC-4D-MW



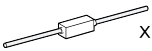
X 16

6-Pin Terminal Block



X 4

2-Pin Terminal Block



X 8

Resistor



Wi-Fi Antenna

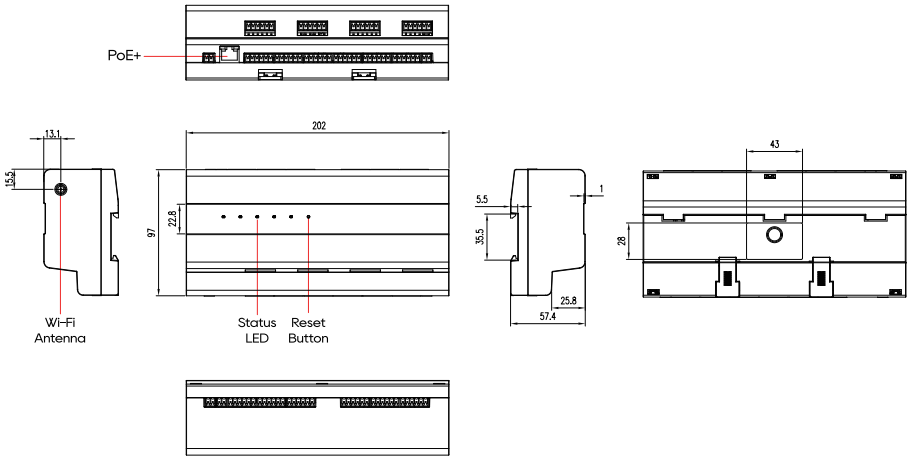


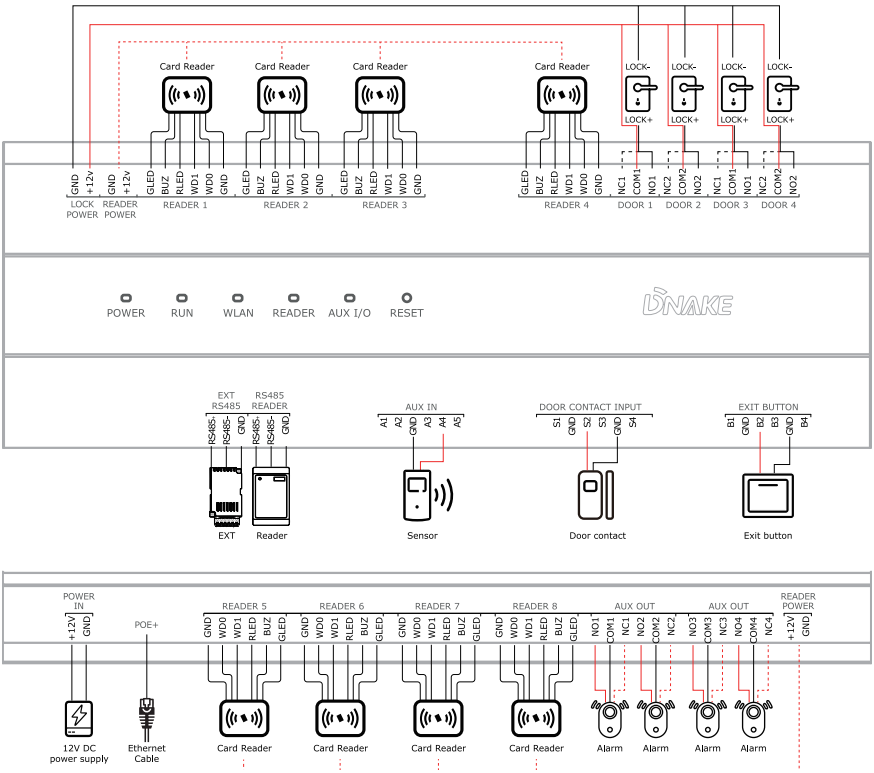
Antenna Connector



Quick Start Guide

OVERVIEW


PoE+
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Status
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1. Status LED

Type	Status	Description
POWER	ON	The device is power on.
RUN	Flashing	The device completed startup and is operating normally.
WLAN	ON	The device connects to Wi-Fi network
READER	Flashing	The device receives signals from the READER interface
AUX I/O	ON	The device receives signals from the AUX I/O interface

2. Interface

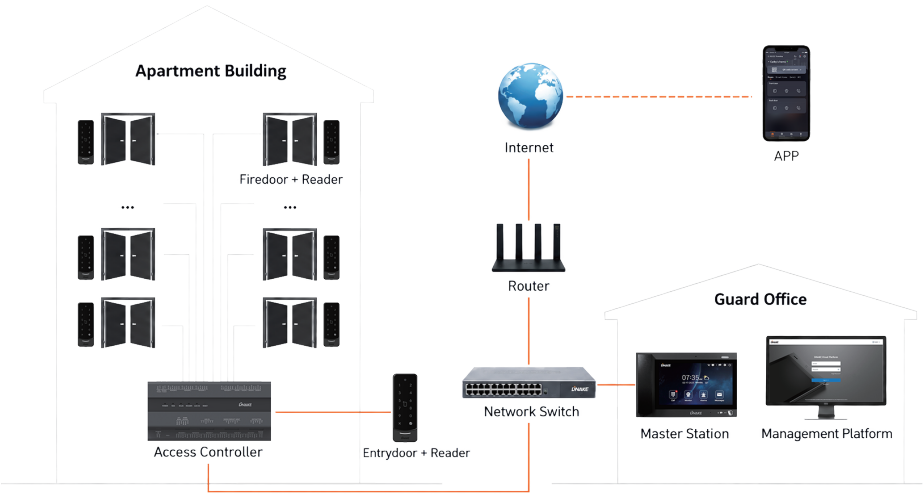
Type	Function	Type	Function
Power In	12 V DC Power Supply	Exit Button	Used to connect to the exit button.
RJ45 (PoE +)	Network Port for Communication and PoE Power Supply	Door Relay	Used to connect the relay to open or close door
RS485 for Reader	Used to connect the card reader	Wiegand Reader	Used to connect the Wiegand card reader
RS485 for Extension	Connect to the Security Relay Module and Elevator Control Module.	Reader Power	Provides 12 V DC power to the reader.
Auxiliary Input	Auxiliary input interface for connecting alarm sensors	Lock Power	Provides 12 V DC power to the reader.
Auxiliary Output	Auxiliary output interface for connecting audible and visual alarm devices.	Door Sensor	Used to connect the door sensor.

Note:

LED Light: Indicates the status of the device power, operation, WLAN, readers, and auxiliary interfaces.

Reset Button: Press the Reset button for 5s to reset the device.

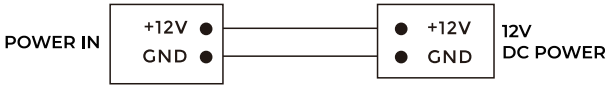
SYSTEM DIAGRAM



DEVICE WIRING

1. Controller Power Input

The power input interface of the device.Connect to a 12V 7A DC power supply.



1.1. 12V DC Power Supply

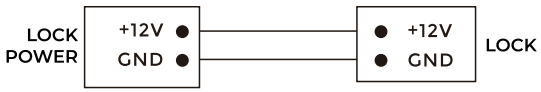
When the access controller powered by a 12 V DC power supply:

- LOCK POWER provides 12 V/4 A to power the locks. The current for a single lock must not exceed 3 A.
- READER POWER provides 12 V/1 A to power the readers. The current for a single reader must not exceed 500 mA.

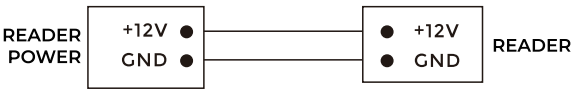
1.2. PoE +

When the access controller is powered by PoE+:

- LOCK POWER provides no power output. The locks must be powered by an external power supply, and the power supply ground must be connected to the access controller ground.

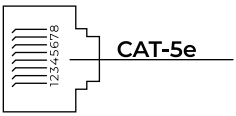


- READER POWER provides 12 V/0.8 A to power the readers. The current for a single reader must not exceed 500 mA.



2. Network Interface

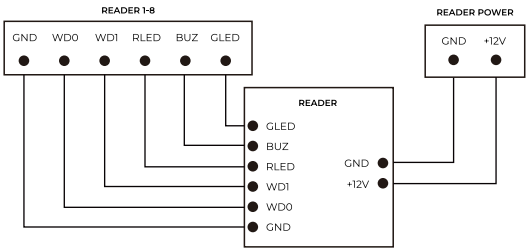
Standard RJ45 interface for connecting the device to other network device through a switch. The interface support PoE+, allowing a PoE+ switch to power the access controller



3. Wiegand Reader Interface

Used to connect external Wiegand readers. The reader are powered by the access controller through the READER POWER interface.

- When the access controller is powered by 12 V DC, READER POWER provides 12 V/ 1 A.
- When the access controller is powered by PoE+, READER POWER provides 12 V/0.8 A.
- The maximum Wiegand signal cable length is 80 m.
- Reader interfaces 1-8 have the same connection method.



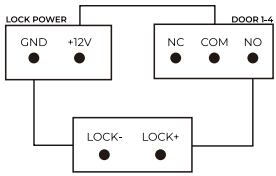
4. Relay Unlock Interface

The electric lock interfaces are shown below. The supported lock types include cathode locks and anode locks/magnetic locks.

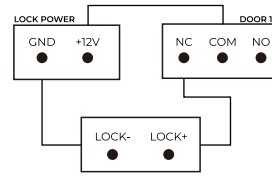
The relay terminals support a maximum load of 3.5 A at 24 V DC for a purely resistive load.

When the lock power cable is less than 100 m, the lock can be powered by the access controller through LOCK POWER, which provides 12 V/4 A. The current for a single lock must not exceed 3 A.

When the lock power cable is longer than 100 m, a external power supply must be used. The external power ground must be connected to the access controller ground.



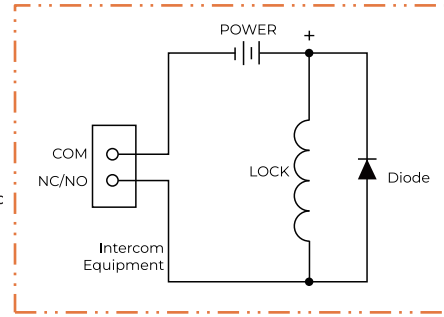
Cathode Lock



Anode Lock

⚠ Warning!

1. When connecting to an inductive load device such as a relay or electromagnetic lock, you are recommended to use a diode 1A/400V (included in the accessories) in anti-parallel with the load device to absorb inductive load voltage peaks. The access control will be better protectec in this way.
2. The load current of the relay cannot be greater than 2A. See attached picture for more details.

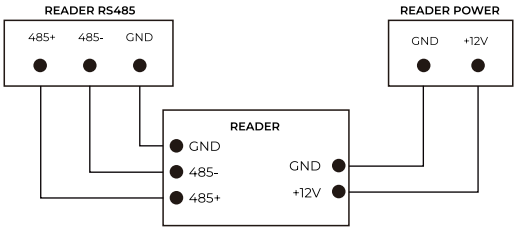


5. RS485 Interface

The RS485 interface include EXT RS485 and READER RS485

5.1. EXT RS485

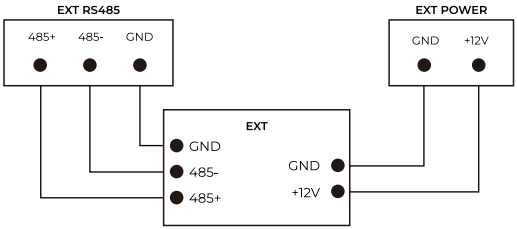
Connects to external expansion modules. The expansion module must be powered by an external power supply, and the power supply ground must be connected to the access controller ground.



5.2. READER S485

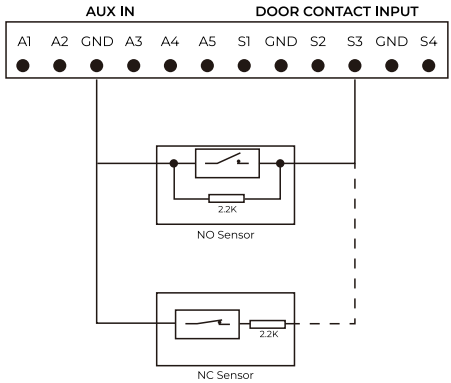
Connects to RS485 reader. The readers are powered by the access controller through the READER POWER interface.

- When the access controller is powered by 12 V DC, READER POWER provides 12 V/ 1 A.
- When the access controller is powered by PoE+, READER POWER provides 12 V/0.8 A.



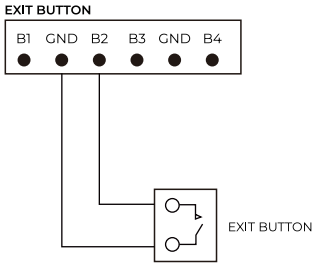
6. Auxiliary Input/Door Contact Interface

The auxiliary input door contact interfaces provide 9 inputs in total. Each input support a normally open (NO) or normally closed (NC) sensor switch.



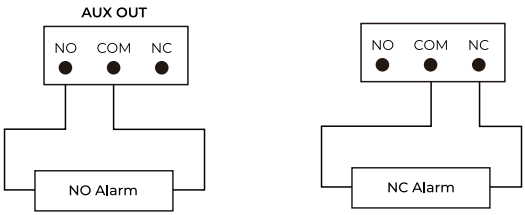
7. Exit Button Interface

The EXIT BUTTON interface supports up to 4 exit buttons.

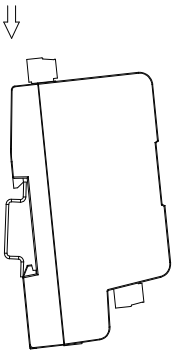


8. Auxiliary Output Interface

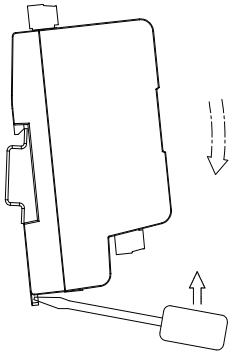
The auxiliary output interfaces provide switching outputs for connecting normally open (NO) or normally closed (NC) alarm devices.



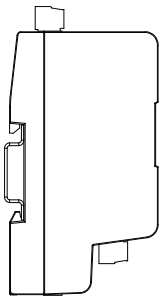
INSTALLATION



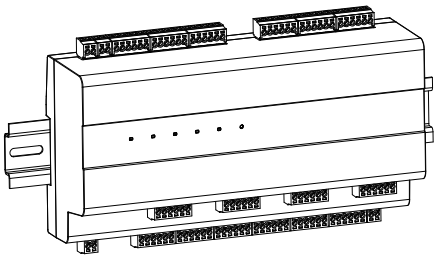
Step1:
Hook the upper clip onto the DIN rail.



Step2:
Lift the spring clip with a flat-head screwdriver and snap the module onto the DIN rail.



Step3:
Installation complete.



TROUBLESHOOTING

The Access Controller cannot start up or power off automatically.

- Check whether it has power-failure, and power it on again

The Access Controller did not get IP address.

- Check if the DHCP is enabled on Access Controller.
- Check whether the router can provide the IP address normally

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The OSDP reader cannot be used.

- Check whether the wiring is correct;
- Check whether OSDP is enabled in the RS485 settings;
- Check whether encryption needs to be enabled;
- If encryption is enabled, check whether the SCBK is entered correctly.

Lock cannot open

- Check lock relay wiring for correct connection.
- Confirm valid user access permission and time schedule.
- Check power supply and hardware status of the lock.

Network failure, cannot access web portal

- Check network cable and RJ45 interface.
- Ensure PC and controller are in the same LAN. Confirm DHCP/IP settings.
- For Wi-Fi-optional model: check Wi-Fi parameters and signal strength.
- Make sure relevant network protocols are not blocked by firewall.

SAFETY INSTRUCTIONS

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 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.

Clean Device Surface

- Clean the device surfaces with soft cloth dipped in some water, and then rub the surface with dry cloth.

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.
- Do not press the screen surface. 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 immediately and contact the customer service center.
- 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.

FCC WARNING

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF exposure statement

This equipment complies with the FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

V1.0
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EASY & SMART INTERCOM SOLUTIONS

DNAKE