

Two-door One-way Access Controller User's Manual

V1.0.0

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Important Safeguards and Warnings

Please read the following safeguards and warnings carefully before using the product in order to avoid damages losses and body injuries. After reading, please well keep this user's manual.

Note:

- Please change user default password after being armed.
- Do not install the device at position exposed to sunlight or in high temperature. Temperature rise in device may cause fire.
- Do not expose the device to lampblack, steam or dust. Otherwise it may cause fire or electric shock.
- The device must be installed on solid and flat surface in order to guarantee safety under load and earthquake. Otherwise, it may cause device to fall off or turnover.
- Do not drop or splash liquids onto the device, and do not place container with full liquid on the device to prevent liquid spilling from entering the device.
- Do not block air vent of the device or ventilation around the device. Otherwise, temperature in device will rise and may cause fire.
- Use the device only within rated input and output range.
- Do not disassemble the device without professional instruction.
- Please transport, use and store the product under appropriate temperature and humidity.

Warning:

- Please use battery properly to avoid fire, explosion and other dangers.
- Please replace used battery with battery of the same type.
- Do not use power line other than the one specified. Please use it properly within rated range. Otherwise, it may cause fire or electric shock.
- Please use power supply matching SELV requirements, and IEC60950-1 Limited Power Source. Power supply shall follow requirements on device label.
- For I-type structure product, connect it to power supply plug with GND protection.
- If you use power plug or appliance coupler as disconnecting device, please maintain the disconnecting device available to be operated all the time.

Special Announcement

- This manual is for reference only, subjected to the actual product.
- All the designs, software and instructions here are subject to change without prior written notice.
- All damaged and losses caused by operation not following instructions in this manual, are borne by the user.
- All trademarks and registered trademarks are the properties of their respective

owners.

- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website for more information.

1 Overview

The two-door one-way access controller is a controlling device which compensates video monitoring and bidirectional talk. It has neat and modern design with strong functionality, suitable for commercial building, corporation property and intelligent community.

It has:

- It adopts slideway and lock installation design for easy installation and repair.
- It integrates alarm, access control, video monitoring, fire alarm and control module input.
- It supports 2 sets of card readers (may set 2 as bidirectional card readers).
- It supports 8 groups of input signal (unlock button *2, door sensor *2, vandal-proof alarm *2, intrusion alarm *2).
- It supports 4 groups of output control (electric lock *2, alarm output *2).
- RS485 port, may extend to connect to lift control module, alarm or household control module. It may connect upper device via RS485.
- FLASH storage capacity is 16M (may extend to 32M), max supports 100,000 card holders and 150,000 records.
- It supports illegal intrusion alarm, unlock overtime alarm, forced card alarm and forced setup. It also supports black-white list and patrol card setup
- It supports setup of card period, password and validity. Guest card in additional has setup of times of use.
- It supports 128 groups of schedules, 128 groups of periods and 128 groups of holiday schedule.
- Data storage during outage, built-in RTC (support DST), online upgrading.

2 Device Appearance

Two-door one-way access controller appearance and dimension are shown in Figure 2- 1 Dimension 1 and Figure 2- 2 Dimension 2. Unit is mm.

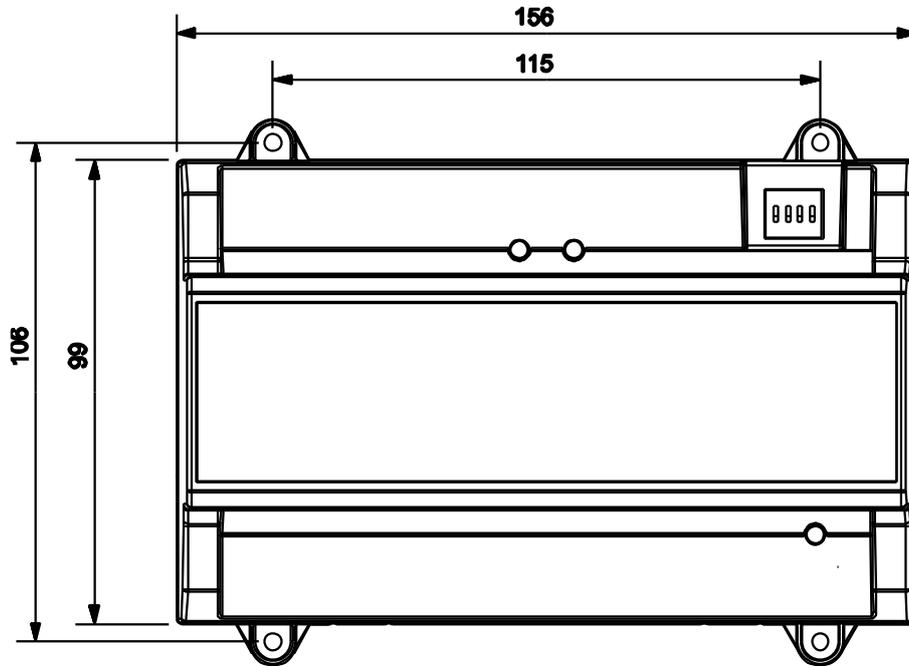


Figure 2- 1 Dimension 1

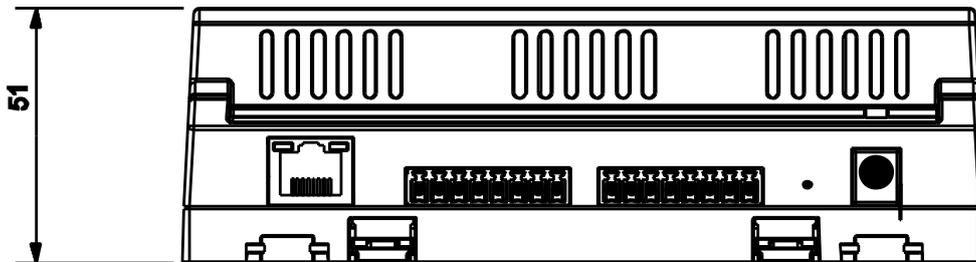


Figure 2- 2 Dimension 2

3 Device Installation and Uninstallation

3.1 Device Installation

You can install the device either:

- Fix it on wall with screw.
- Fix it on wall with bracket.

Installation 1: Fix device on wall with screw as in Figure 3- 1

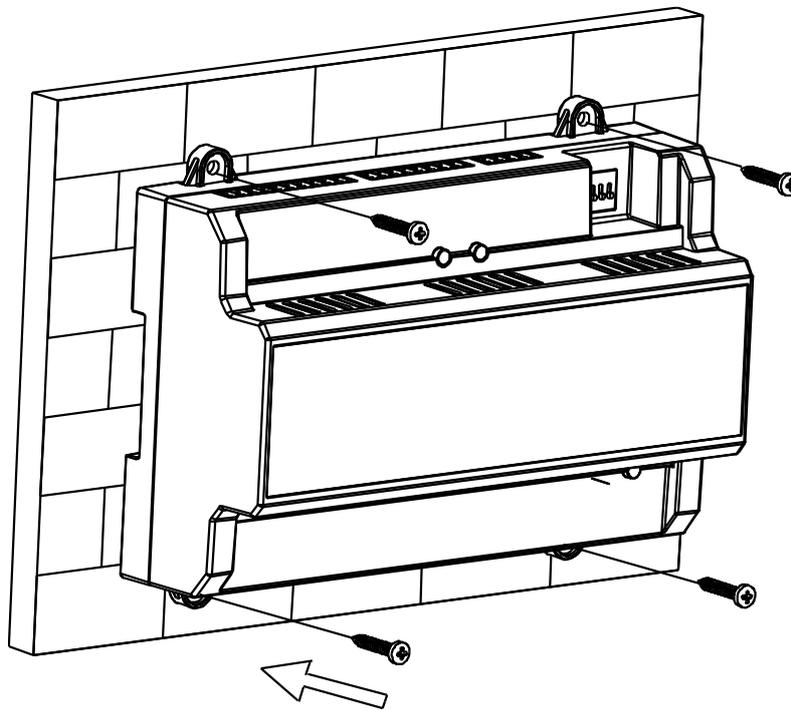


Figure 3- 1

Installation 2: Fix it on wall with bracket as in Figure 3- 2.

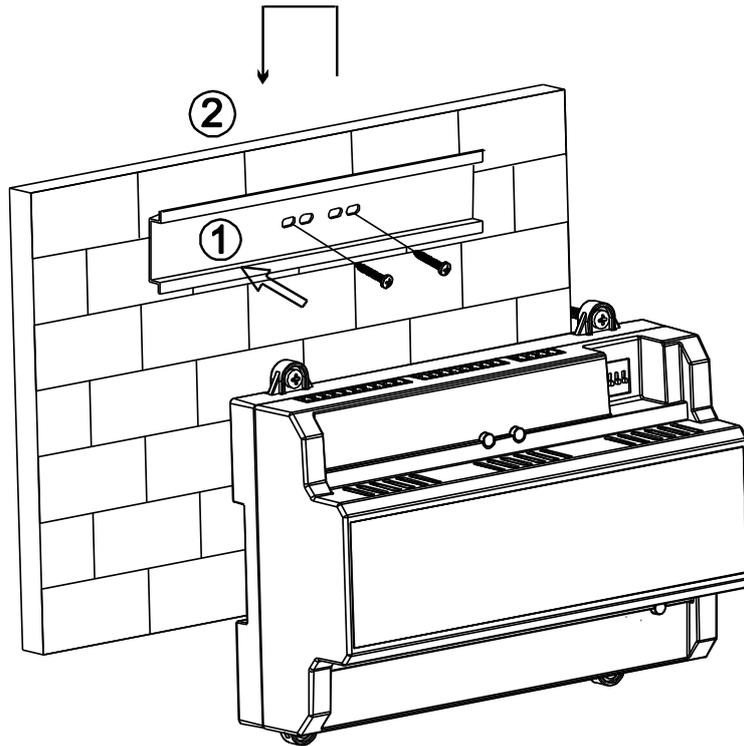


Figure 3- 2

Installation steps:

Step 1. Fix bracket on wall with screw.

Step 2. Fasten the device into slot on bracket and pull device downward until it is in place.

3.2 Device Uninstallation

Uninstallation method for installation 2 is shown in Figure 3- 3.

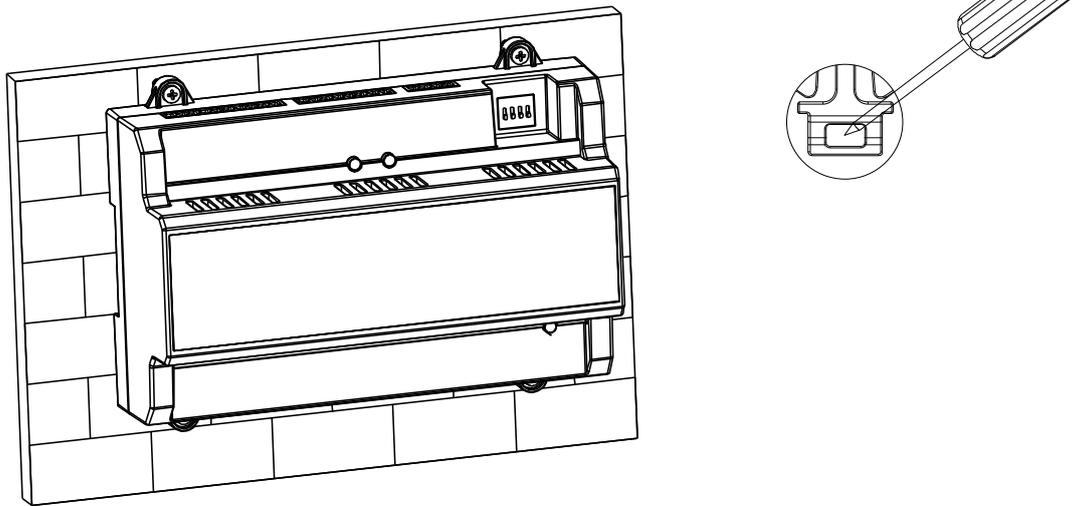


Figure 3- 3

Uninstallation method:

Step 1. Face screwdriver toward the slot and press it to fasten.

Step 2. Do it again for second slot, and you can take the device down.

4 Port

Device ports are illustrated in Figure 4- 1.

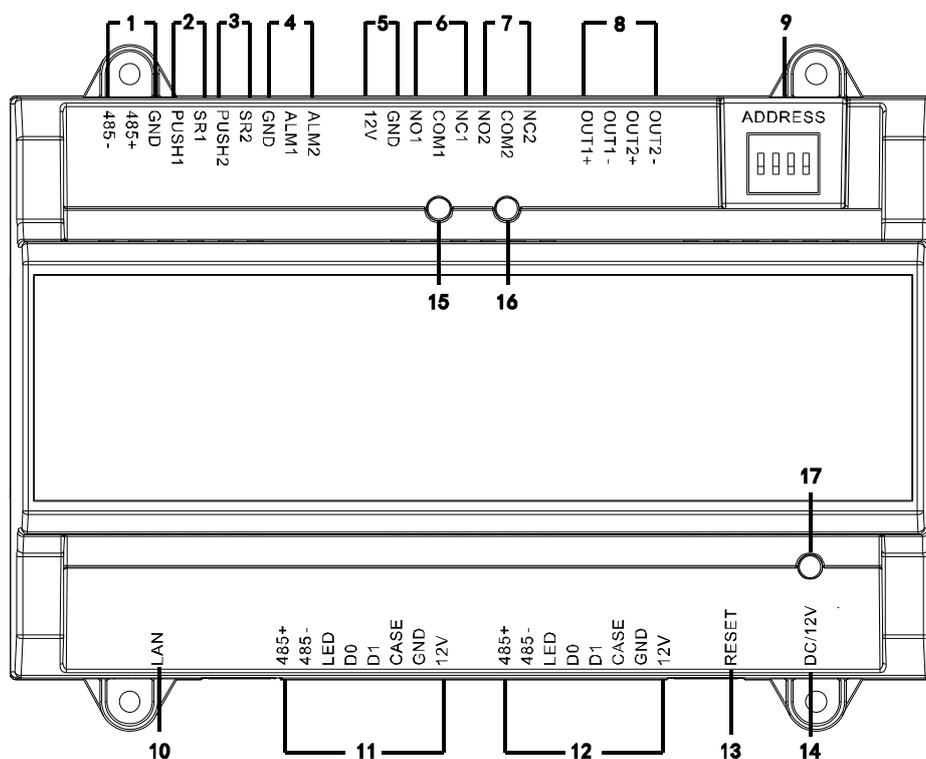


Figure 4- 1

Ports are defined as:

No.	Port	No.	Port
1	RS485 communication	8	Alarm output
2	Unlock+Door sensor (door 1)	9	Dial-up switch
3	Unlock+Door sensor (door 2)	10	TCP/IP, software platform port
4	Alarm input	11	Card reader (door 1)
5	Lock power output	12	Card reader (door 2)
6	Lock control output (door 1)	13	Reset
7	Lock control output (door 2)	14	DC 12V power port

Indicators are defined as:

No.	Note
15	Lock status indicator
16	
17	Power indicator

4.2 Cabling

Cabling ports of No.1 to 7 are shown as Figure 4- 2.

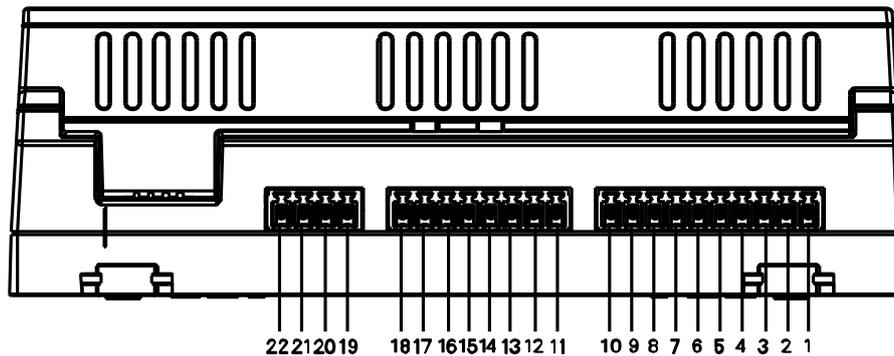


Figure 4- 2

Cabling ports of “RS485 communication” are as follows:

Port	No.	Cabling Port
485 Communication	1	485-
	2	485+
	3	GND

Cabling ports of “Unlock+Door sensor” are as follows:

Port	No.	Cabling Port	Note
Unlock+Door Sensor	4	PUSH1	Unlock button (door 1)
	5	SR1	Door sensor (door 1)
	6	PUSH2	Unlock button (door 2)
	7	SR2	Door sensor input (door 2)
	8	GND	Unlock button and door sensor

Cabling ports of “Alarm Input” are as follows:

Port	No.	Cabling Port	Note
Alarm Input	9	ALM1	Smoke sensor alarm, sound/light alarm and etc.
	10	ALM2	Smoke sensor alarm, sound/light

Port	No.	Cabling Port	Note
			alarm and etc.

Cabling ports of “Lock Control Output” are as follows:

Port	No.	Cabling Port	Note
Lock Control Output	11	12V	Lock power supply
	12	GND	
	13	NO1	Door lock off when outage (door 1)
	14	COM1	Lock power 12V input (door 1)
	15	NC1	Door unlock on when outage (door 1)
	16	NO2	Door lock on when outage (door 2)
	17	COM2	Lock power 12V input (door 2)
	18	NC2	Door unlock on when outage (door 2)

Cabling ports of “Alarm Output” are as follows:

Port	No.	Cabling Port	Note
Output Control	19	OUT1+	No. 1 alarm output
	20	OUT1-	
	21	OUT2+	No. 2 alarm output
	22	OUT2-	

Cabling ports of card reader are shown in Figure 4- 3.

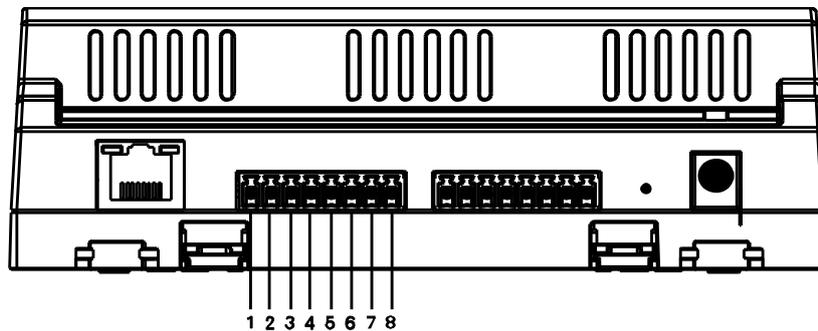


Figure 4- 3

“Door 1 Card Reader” corresponds to ports in the following chart. “Door 2 Card Reader” is similar to “Door 1 Card Reader”.

Port	No.	Cabling Port	Note
Door 1 Card Reader	1	485+	485 card reader
	2	485-	
	3	LED	Wiegand card reader
	4	D0	
	5	D1	
	6	CASE	
	7	GND	Card reader power
	8	12V	

4.3 System Structure

The access controller, lock, card reader and etc. combine a system as in Figure 4- 4.

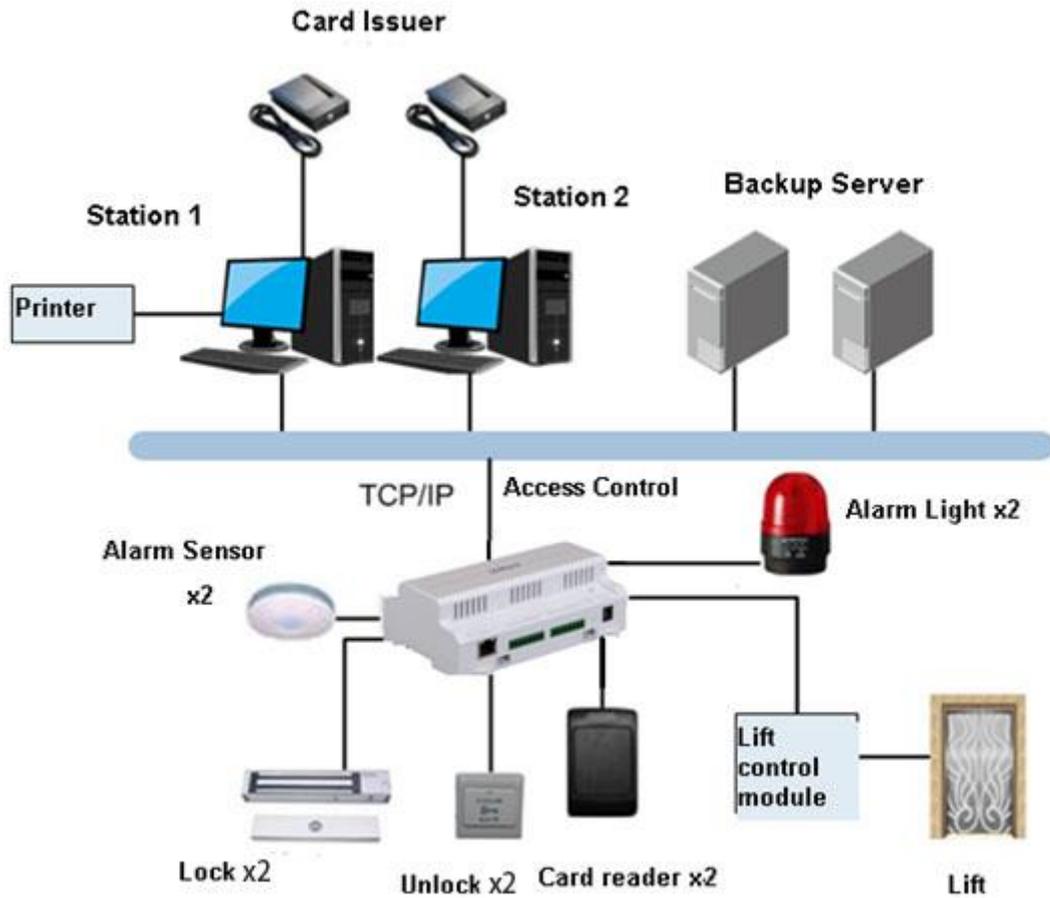


Figure 4- 4

5 Technical Specification

Parameter	Specification
Processor	32 bit ARM processor
Storage Capacity	16M
Max User	100,000
Max Record	150,000
Card Reader Communication Port	Wiegand, RS485
Platform Communication Port	TCP/IP
Input Card Reader Quantity	2 groups
Working Power	Rated power 10-15VDC, rated current 0.75A
Schedule	128
Period	128
Holiday	128
Unlock Mode	Card, card+password, password, card or password, card+fingerprint, fingerprint+password, fingerprint or card or password, by period.
Cross-segment Network	Support
Real-time Monitoring	Support
Alarm Activation	Support
Vandal-proof Alarm	Support
Illegal Intrusion Alarm	Support
Unlock Overtime Alarm	Support
Forced Card and Password Setup	Support
DST and Time Sync	Support
Online Upgrading	Support

Note:

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