# Four-Door Access Controller User's Manual

**V1.0.0**

# Table of Contents

# Important Safeguards and Warnings

Please read the following safeguards and warnings carefully before using the product in order to avoid damages and losses.

Note:

- Do not expose the device to lampblack, steam or dust. Otherwise it may cause fire or electric shock.
- 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 humid environment. Otherwise it may cause fire.
- 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 place the device on carpet or quilt.
- Do not block air vent of the device or ventilation around the device. Otherwise, temperature in device will rise and may cause fire.
- Do not place any object on the device.
- Do not disassemble the device without professional instruction.

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. Otherwise, it may cause fire or electric shock.

# Special Announcement

- This manual is for reference only.
- All the designs and software here are subject to change without prior written notice.
- 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 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:
- Industrial professional design with lock and hinge. It max load-bearing is 80kg under good vandal-proof design.
- It integrates alarm, access control, video monitoring, fire alarm and control module input.
- It supports 4 sets of card readers.
- It supports 9 groups of input signal (unlock button *4 , door sensor *4, intrusion alarm *1).
- It supports 5 groups of output control (electric lock *4, alarm *1).
- 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 vandal-proof alarm, 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

Access controller appearance and dimension are shown in Figure 2- 1 Dimension 1 and Figure 2- 2 Dimension 2. Unit is mm.
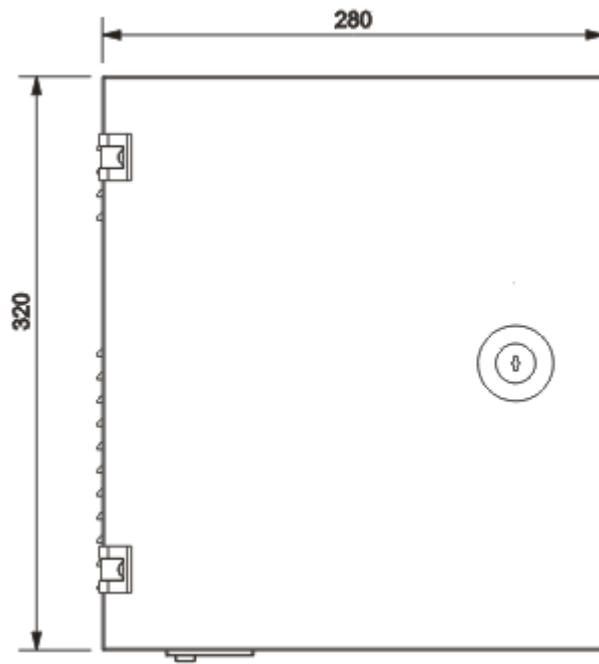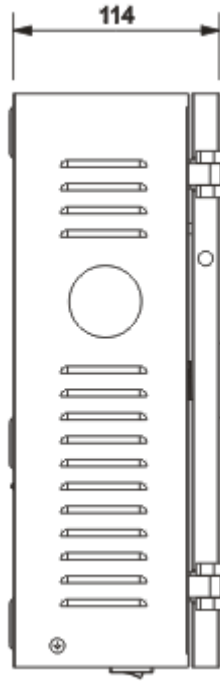


Figure 2- 1 Dimension 1

Figure 2- 2 Dimension 2

# 3 Device Installation
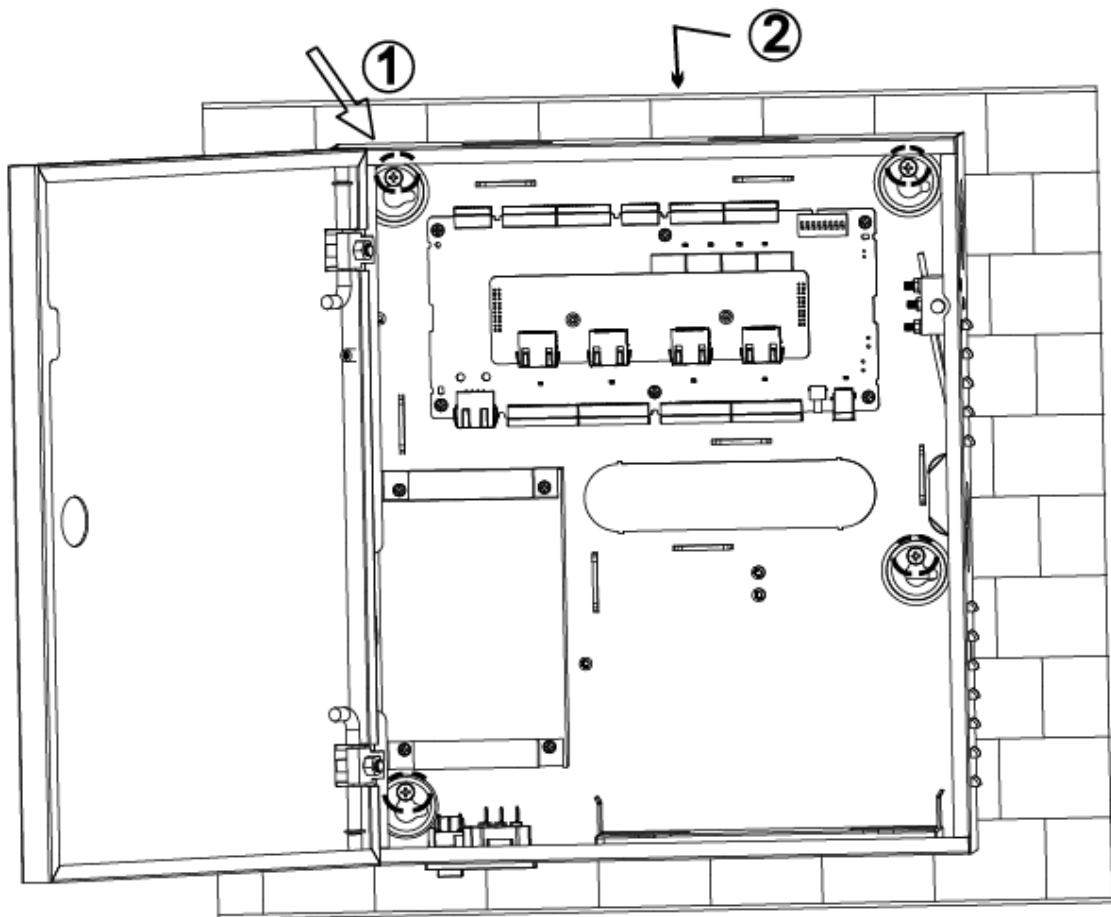
Device installation is shown in Figure 3- 1.



Figure 3- 1

Installation steps:

Step 1.   Fix screw via expansion bolt to hang the device on wall according to the distance of holes at rear of device.

Step 2.   Via screw fixed on wall to hang the device on wall.

# 4 System Cabling and Structure

## 4.1 Cabling

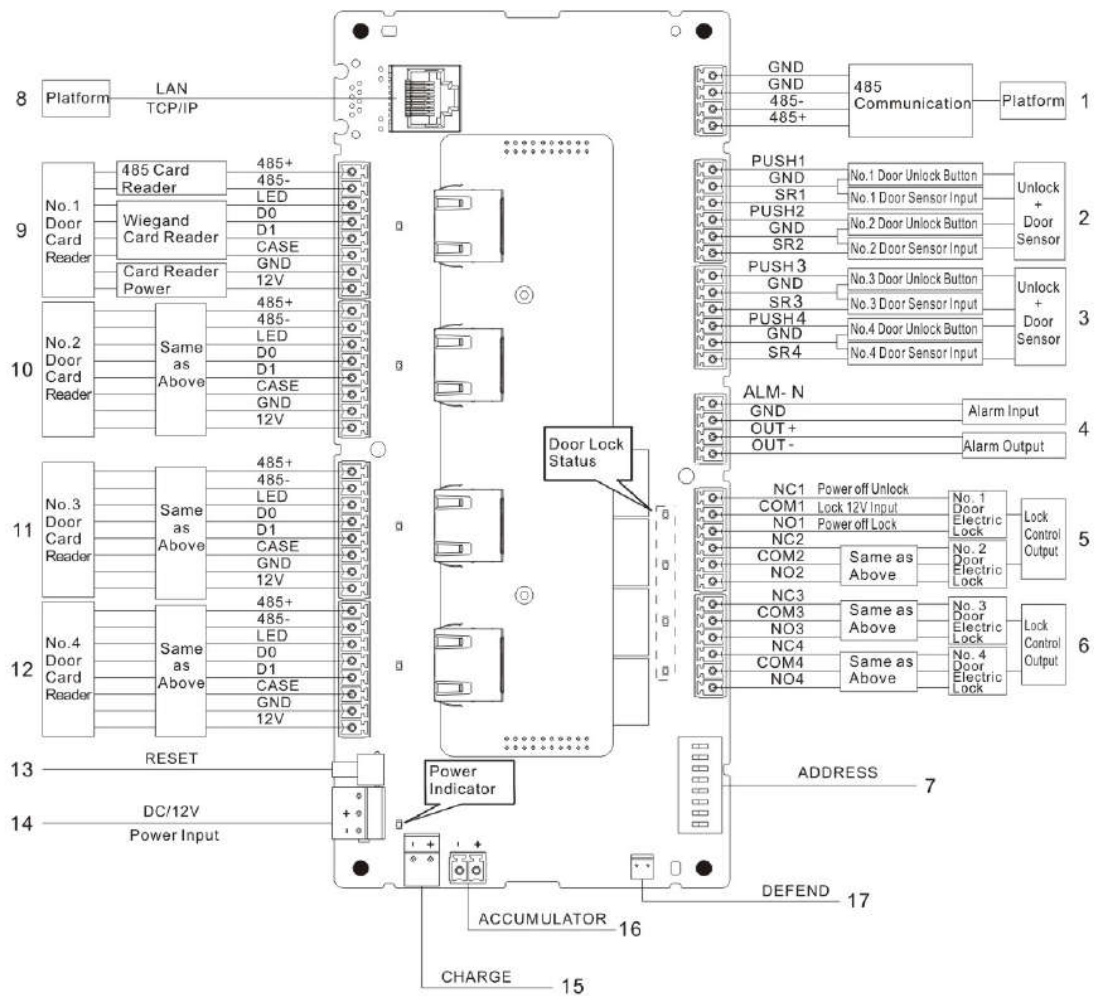Device cabling is shown in Figure 4- 1.



Figure 4- 1

## 4.2 Structure

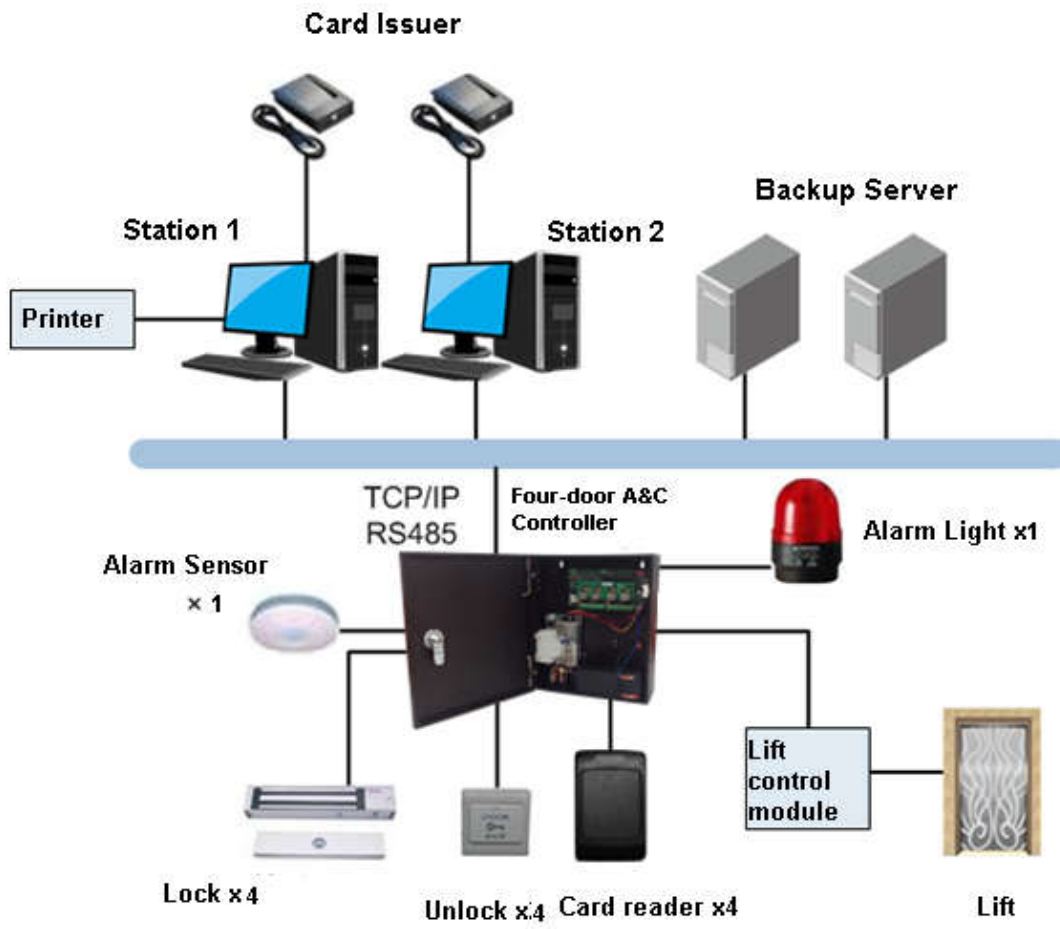Access controller, lock, card reader and etc. combine a system as in Figure 4- 2.

Figure 4- 2

# 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, RS485 |
| Input Card Reader Quantity | 4 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 |
| Dual-door Lock | 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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