Quick Start Guide

C2-260 Access Control Panel

Version: 1.1

1. Cautions

⚠ **Please note the following cautions. Mis-operation may lead to any injury or equipment failure:**

1. Do not power the system before installation is complete.
2. All peripheral devices must be grounded.
3. The conduits of wires under relay must be matched with metaled conduits, other wires can use PVC conduits.
4. It is strongly recommended that the length of the exposed part of any connection cable should not be longer than 4 mm. Professional clamping tools may be used to avoid unintentional contact of exposed wires to avoid short-circuit or communication failure.
5. It is recommended that the card readers and the buttons should be installed at a height of 1.4m-1.5m above ground.
6. It is recommended to use the power supply for the control panel, and external power supply for each lock.
7. The appliance shall be installed and wired in accordance with the national electrical code and by qualified personnel only.

Description of normal working state:

Connect the system to the power supply. If the system works properly, the POWER indicator (red) is lit constantly and the RUN indicator (green) flashes.
COMM indicator (Yellow): It flashes when the system is communicating with other devices (e.g., PC). When the indicator is flashing rapidly it indicates data transmission. When the indicator is flashing slowly, it indicates real-time monitoring status.
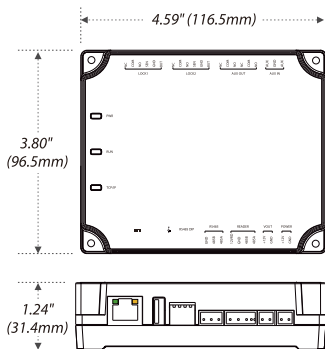
Valve regulated lead-acid battery:

- Constant voltage charge voltage regulation Cycle use: 14.5V to 14.9V(25)
- Standby use: 13.6V to 13.8V(25)
- Capacity: 12V, 7.2Ah/20hr
- Initial current: less than 2.88A
- Battery Type: LC-RA127R2T1

Cautions:

- Do not charge in a gas tight container
- Do not attempt to disassemble the battery
- Do not short the battery terminals
- Flush with water at once if contact is made with electrolyte (Acid).
- Do not incinerate

2. Product Dimension

C2-260

4.59" (116.5mm)

3.80" (96.5mm)

1.24" (31.4mm)

Aux485/WR485

1.97" (50.0mm)

1.57" (40.0mm)

2.26" (57.5mm)

+12V
GND
485B
485A

AUX1
GND
AUX2
AUX3
GND
AUX4

0.67" (17.0mm)

C2-260 Package

Power Indicator   Mounting Holes   Cable Conduit
(Punch Hole for cables)

Heat Dissipation Hole

C2-260 Panel

Aux485

Power Supply

14.35" (364.6mm)

12.99" (330.0mm)

2.98" (75.7mm)
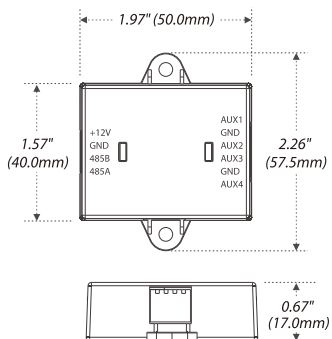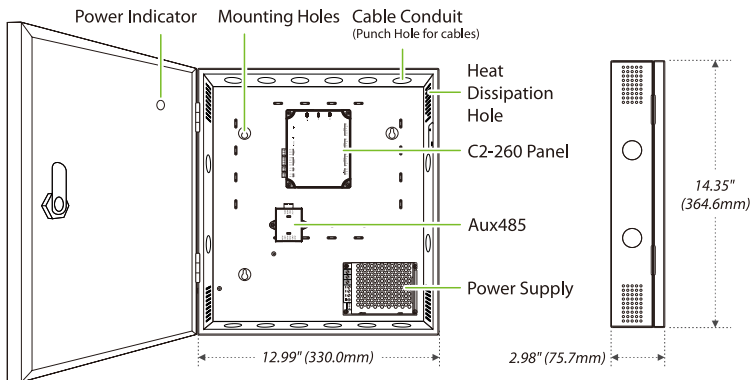
## 3. Installation of Metal Enclosure on the wall

1. According to the mounting holes position of the metal enclosure. Drill three mounting holes in a suitable spot on the wall and make sure it is about 114 inches (2.9m) above the ground, which can be adjusted according to actual needs. Take care to leave at least 3.937 inches (100 mm) on the left side of the metal enclosure.
2. Place the Anchors in the mounting holes.
3. Then fix the metal enclosure with the self-tapping screws as shown below.

Percussion Drill

❶

90°

Anchor

❷

Screw

❸

Height
114"(2.9m)
(adjustable)

Finished
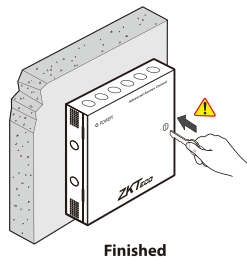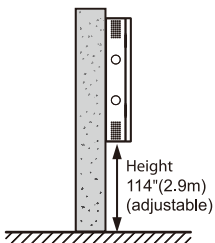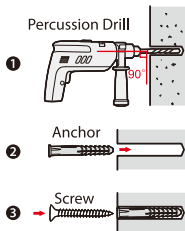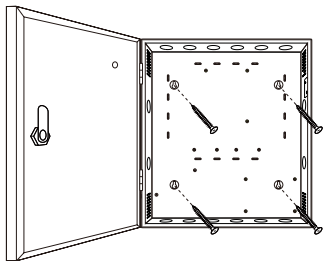
Note: The metal enclosure is equipped with an tamper alarm switch. When it is working normally, please keep the enclosure closed.
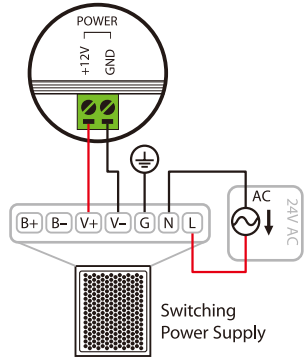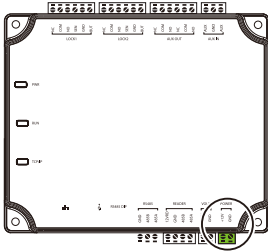
4. Controller System Installation
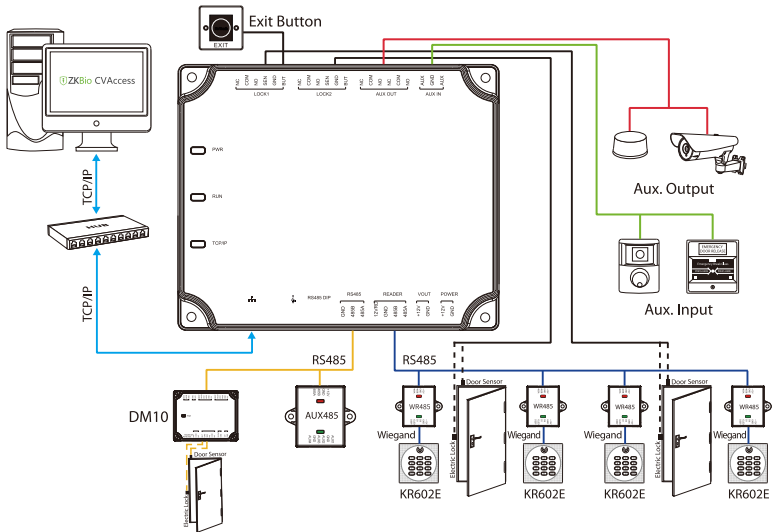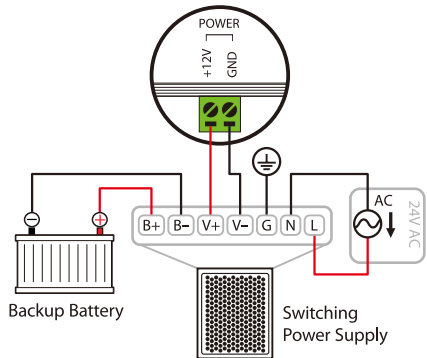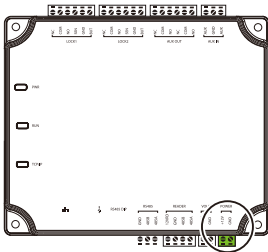

Notes:

1. The auxiliary input can connect to infrared body detectors, fire alarms, or smoke detectors, etc.

2. The auxiliary output can connect to alarms, cameras or doorbells, etc.

3. PC RS485 indicates the RS485 cable is connected to the DM10/AUX485 through this port. The RS485 Reader port can be connected externally to the RS485 reader.

4. Restore factory setting: The 4th switch of the DIP switch is OFF by default. When it is moved up and down thrice within 5 seconds and finally repositioned to OFF, the factory settings are restored after the access control panel is restarted, and the IP address restores to the default (192.168.1.201) as well.

5. The terminals above are set through the relevant access control software. Please see the respective software manual for further details.

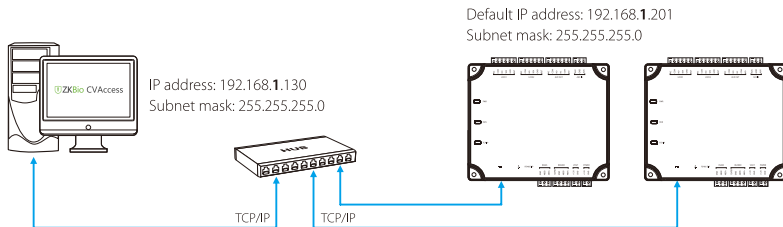# 5. Power Connection

❖ Without Backup Battery

POWER
+12V GND

B+ B− V+ V− G N L

AC 24V AC

Switching
Power Supply

❖ With Backup Battery

POWER
+12V GND

B+ B− V+ V− G N L

AC 24V AC

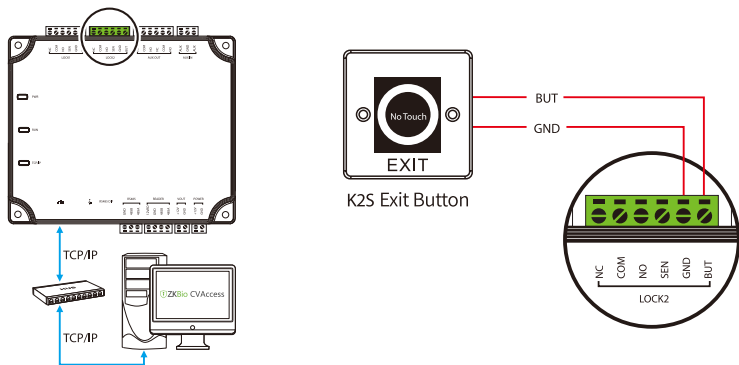Backup Battery

Switching
Power Supply

6. Ethernet Connection

Establish the connection between the device and the software using an Ethernet cable. An illustrative example is provided below:

Default IP address: 192.168.**1**.201
Subnet mask: 255.255.255.0

IP address: 192.168.**1**.130
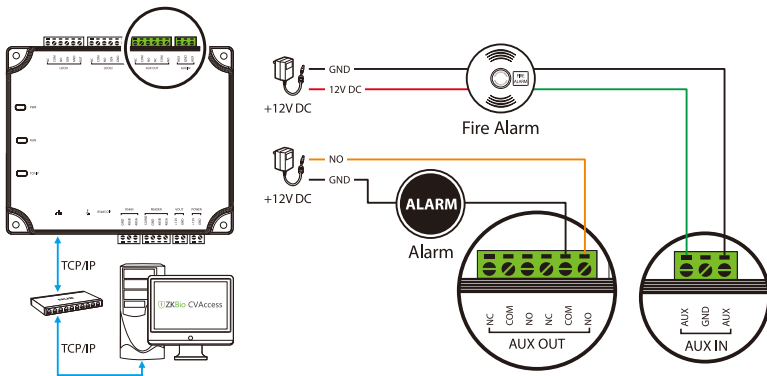Subnet mask: 255.255.255.0

TCP/IP   TCP/IP

Note: In LAN, IP addresses of the server (PC) and the device must be in the same network segment when connecting to the software.

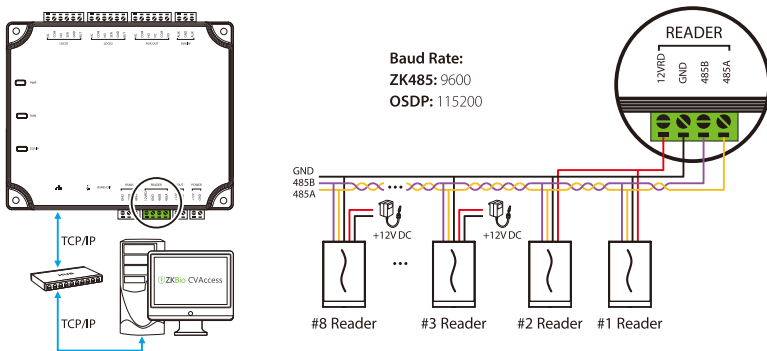## 7. Exit Button Connection

TCP/IP

TCP/IP

BUT

GND

EXIT

K2S Exit Button

NC   COM   NO   SEN   GND   BUT

LOCK2

8. Auxiliary Input & Output Connection

+12V DC	GND		
	12V DC		Fire Alarm

+12V DC — NO
+12V DC — GND

ALARM

Alarm

AUX OUT
NC COM NO NC COM NO

AUX IN
AUX GND AUX

TCP/IP

ZKBio CVAccess

TCP/IP

9. RS485 Reader Connection

Baud Rate:
ZK485: 9600
OSDP: 115200

READER
12VRD GND 485B 485A

GND
485B
485A

+12V DC   +12V DC

#8 Reader   #3 Reader   #2 Reader   #1 Reader

TCP/IP

ZKBio CVAccess

TCP/IP

Controller Supported RS485 Reader Models:

Reader Model	485 Unencrypted	485 Encryption
ProID101/102/103/104	✓	✗
ProID20/30BEMD-RS	✓	✗
KR900 Series	✓	✓

Remarks:

1. ✓ means connectable, ✗ means not connectable.
2. In 485 communication encryption mode, the ProID100/KR900 reader supports tamper alarm function. When the reader is illegal tampering, it will send a tamper signal to the controller via 485, and the controller will report to the software to form a tamper alarm event. Users can configure the alarm linkage on the software side and connect the alarm to the auxiliary output. Encryption is turned on on the software side via the **Access > Access Device > Reader > Encrypt** path.
3. It's recommended to connect maximum four readers to one C2-260.
4. A single RS485 reader interface can supply a maximum of 750 mA (12V) current. So the entire current consumption should be less than the max value when the readers share the power with the panel.

Setting the RS485 Address:

RS485 reader connection: Set the RS485 address (device number) of the reader by DIP switch or software.
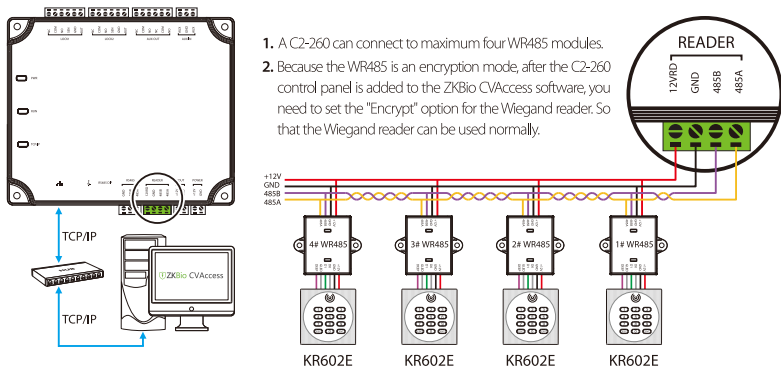
RS485 address / Control Panel	1	2	3	4
C2-260	#1Door IN	#1Door OUT	#2Door IN	#2Door OUT

Important Notes:

1. RS485 communication wires should be a shielded twisted pair cable and adopt bus cascade topology.
2. A single RS485 bus can connect up to **63** access control panels, but preferably **32** is recommended maximum.
3. To eliminate signal attenuation in communication cables and suppress interference, if the bus is longer than 200 meters, set the number **8** DIP switch to the **ON** position.

10. Wiegand Reader Connection

The Control panel supports the connection of Wiegand reader via WR485 module. The wiring is shown in the figure below.

1. A C2-260 can connect to maximum four WR485 modules.

2. Because the WR485 is an encryption mode, after the C2-260 control panel is added to the ZKBio CVAccess software, you need to set the "Encrypt" option for the Wiegand reader. So that the Wiegand reader can be used normally.

Controller Supported Wiegand reader Models:

Reader Model	Wiegand26/34	Wiegand66
KR100/101/102E/M	✓	✗
KR200/201/202E/M	✓	✗
KR310	✓	✗
KR500E/501M/502E/M/503E	✓	✗
KR600/601/602E/M	✓	✗
KR610/611/612E	✓	✗
KR610/611/612D	✓	✓
KR610/611/612DL	✓	✓
ProID10/20/30/40 E/M	✓	✗
ProID10/20/30/40 D	✓	✓
ProID20/30BEMD-RS	✓	✓
KR900 Series	✓	✓

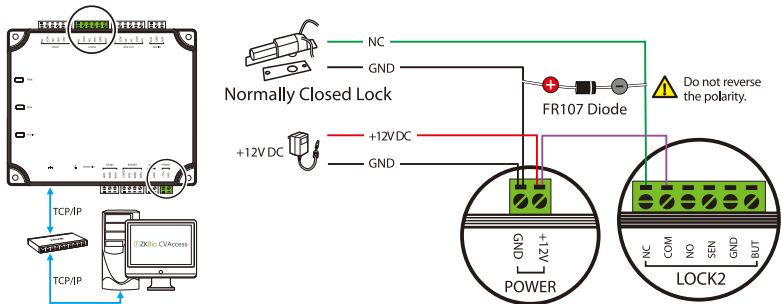**Remarks:** ✓ means connectable, ✗ means not connectable.

11. Lock Relay Connection

The system supports both **Normally Opened Lock** and **Normally Closed Lock**. The **NO Lock** (Normally Opened when powered) is connected with '**NO**' and '**COM**' terminals, and the **NC Lock** (Normally Closed when powered) is connected with '**NC**' and '**COM**' terminals. The power can be shared with the lock or can be used separately for the lock, as shown in the example with NC Lock below.
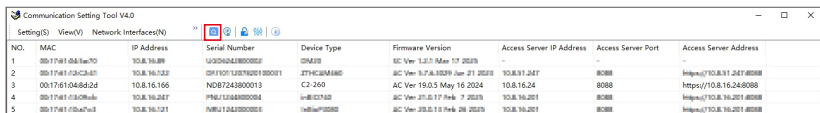
❖ **Device not sharing power with the lock**

+12V DC
+12V DC
GND

⚠ Maximum 30V 2A input.

FR107 Diode

⚠ Do not reverse the polarity.

GND
NC

Normally Closed Lock

COM

NC COM NO SEN GND BUT
LOCK2

TCP/IP
ZKBio CVAccess
TCP/IP
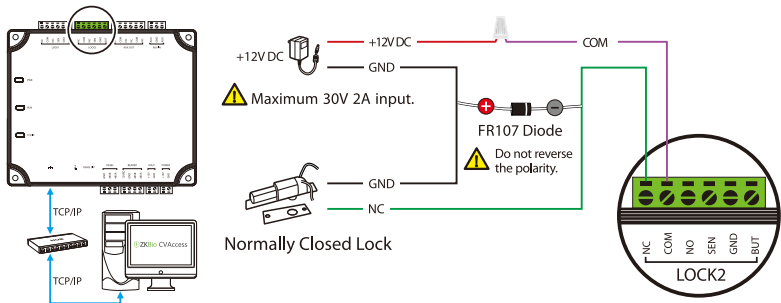
❖ **Device sharing power with the lock**

NC
GND

Normally Closed Lock

+12V DC
+12V DC
GND

FR107 Diode

⚠ Do not reverse the polarity.

GND +12V
POWER

NC COM NO SEN GND BUT
LOCK2

TCP/IP
ZKBio CVAccess
TCP/IP

12. Connect to ZKBio CVAccess Software

1. Search for Devices
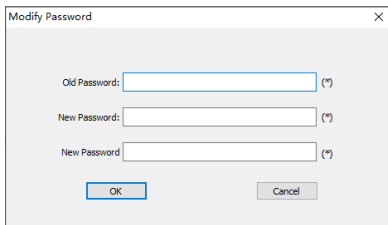
Search for devices using the **DeviceSettingTool_V4.0** search tool. Click the 🔍 icon to search for devices.

2. Change Communication Password

Select the searched device and click the 🔓 icon to change the communication password. For the first time to change the password, the default communication password is **Zk@123**, and the new password is a combination of 2~6 digit alphabetic characters. **Note:** If the communication password is forgotten, the device can be reset to its factory settings, and the password will automatically revert to the default value.
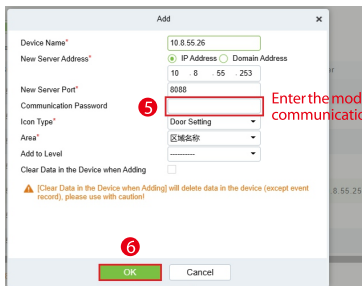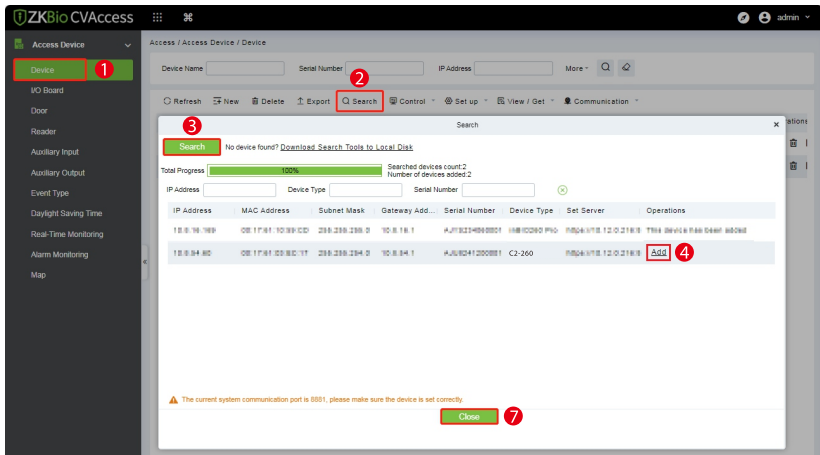

3. Add Device on the Software

1. Click [**Access**] > [**Device Management**] > [**Device**] > [**Search**], to open the Search interface in the software.
2. Click [**Search**], and it will prompt Searching…….
3. After searching, the list and total number of access controllers will be displayed.
4. Click [**Add**] in operation column, a new window will pop-up. Enter the communication password, select Icon type, Area, and Add to Level from each dropdown and click [**OK**] to add the device.

5. Click [**Personnel**] > [**Person**] > [**New**] to register users in the software.

6. Add users to access levels.

7. Click [**Access**] > [**Device Management**] > [**Device**] > [**Control**] > [**Synchronize All Data to Devices**].

For more details, please refer to the ZKBio CVAccess User Manual.

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