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Diginex 1

Diginex HFeng Door Access Control System Kit User Manual

Model: 1

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Diginex HFeng Door Access Control System Kit. This system is designed to provide secure and convenient access management for various environments, utilizing an IP68 waterproof RFID keypad, an electromagnetic lock, a power supply, and RFID keyfobs.

2. PACKAGE CONTENTS

Please verify that all components listed below are included in your package:

- 1 x RFID Access Control Keypad (IP68 Waterproof)
- 1 x 180KG (350lbs) Electromagnetic Electric Magnetic Lock
- 1 x DC12V 3A Power Supply Control Unit
- 1 x Door Exit Button
- 10 x RFID Keyfobs (125KHz)



Figure 2.1: All components included in the Diginex HFeng Door Access Control System Kit. This image displays the RFID keypad, door exit button, electromagnetic lock, power supply control unit, and ten blue RFID keyfobs.

3. PRODUCT SPECIFICATIONS

3.1. RFID Access Controller

- **User Capacity:** 2000 user cards
- **WG Interface:** WG26
- **Working Frequency:** 125KHz
- **Working Voltage:** DC12V
- **Working Temperature:** -35°C to +60°C
- **Verification Method:** RFID card, Password, RFID card + Password
- **Reading Distance:** 0-10cm
- **Waterproof Level:** IP68
- **Backlight:** Blue
- **Dimensions:** 120 x 57 x 20mm

IP68 Waterproof

can be install outdoor

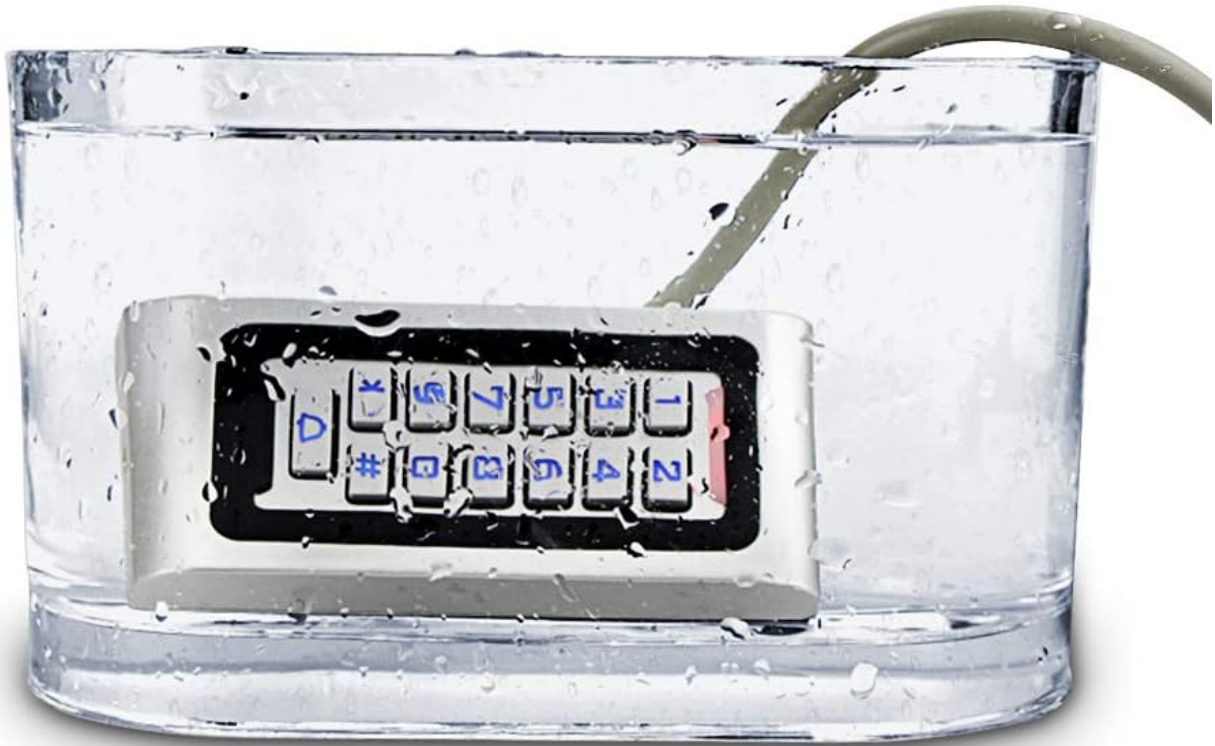


Figure 3.1.1: The RFID keypad demonstrating its IP68 waterproof rating, suitable for outdoor installation.

Support 2000 user cards

unlock with RFID key card, or password, or RFID card+Password



Figure 3.1.2: The RFID keypad supports up to 2000 user cards and allows unlocking via RFID card, password, or a combination of both.

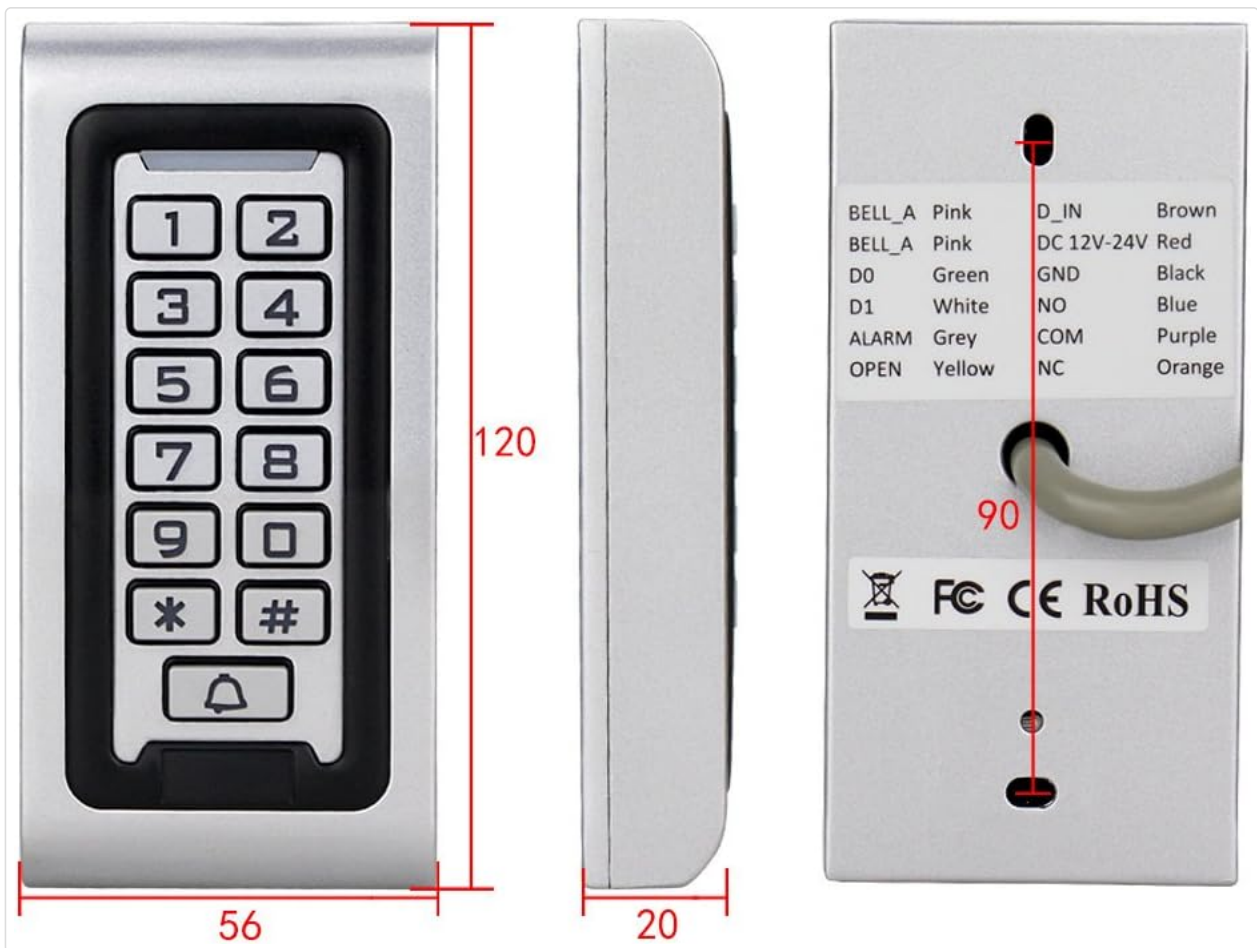
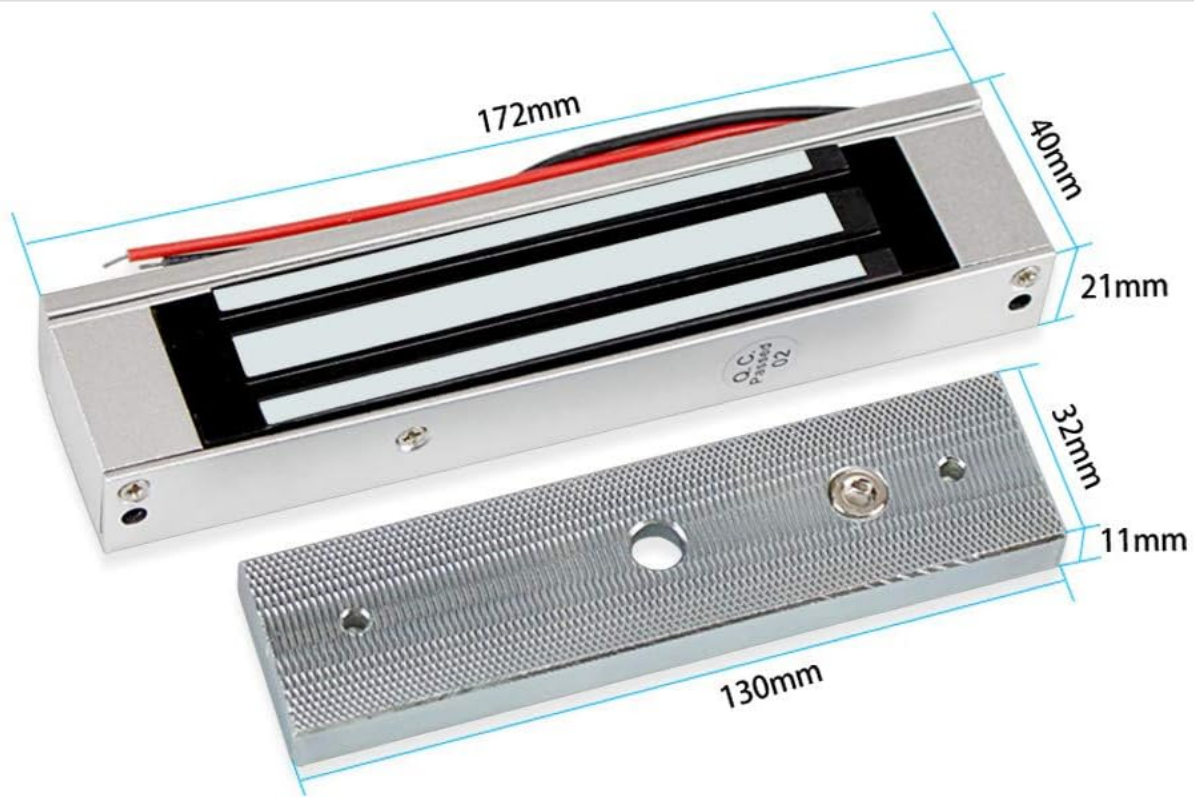


Figure 3.1.3: Detailed dimensions (120mm height, 56mm width, 20mm depth) and the wiring terminal pinout for the RFID Access Controller.

3.2. 180KG Magnetic Lock

- **Material:** Aluminum alloy shell + iron plate
- **Holding Force:** 180KG / 350lbs
- **Working Voltage:** DC12V
- **Working Current:** 380-430mA
- **Humidity:** 0 to 95%
- **Working Temperature:** -10°C to 55°C
- **Working Mode:** Locked when power on, unlocked when power off (Fail-Safe)
- **Waterproof:** Yes, suitable for outdoor installation



Product Specifications

Lock Name: 180KG Normal Installation Model Magnetic Lock

Material: Aluminium Alloy

Working Voltage: DC12V

Working Current: 380-500mA

Working temperature: -20 to 55 Celsius degree

Time of unlock: $\leq 1s$

Holding Force: 60KG/132lbs; 180KG/350lbs;

Function: can be used with building intercom, door access control system

Suitable For: Wooden, metal, security, glass door etc (frameless doors need to work with bracket)

Figure 3.2.1: Dimensions (172mm length, 40mm width, 21mm height for the main body; 130mm length, 32mm width, 11mm height for the armature plate) and specifications for the 180KG Electromagnetic Lock.

3.3. Power Supply Control Unit

- **Material:** Steel
- **Output Power:** 36W
- **Durability Test:** 500,000 times
- **Input Frequency:** 50-60Hz
- **Input Voltage:** 110-260VAC
- **Output Voltage:** DC12V / 3A
- **Working Temperature:** -20°C to +65°C
- **Time Delay:** 0-15 seconds adjustable
- **Dimensions:** 100 x 65 x 32mm



Product Specifications

AC Input Voltage: AC100V–AC220V50HZ
Momentary Current: 5A
Operating Temperature: - 20°C~ + 60°C
Time: 0~30S
Dimension: 140X67X33mm(L/W/H)

Output Voltage: DC12V
Persistent Current: 3.5A
Operating Humidity: $\leq 90\%$
Remote control function: Yes

Figure 3.3.1: The Power Supply Control Unit, showing input (AC110-260V) and output (DC12V 3A) specifications, along with control terminals.

3.4. RFID Keyfobs

- **Working Frequency:** 125KHz
- **Material:** ABS high quality
- **ID:** Each keyfob has a unique ID number
- **Reading Range:** 1-10cm
- **Color:** Blue
- **Quantity:** 10 pieces

3.5. Door Exit Button

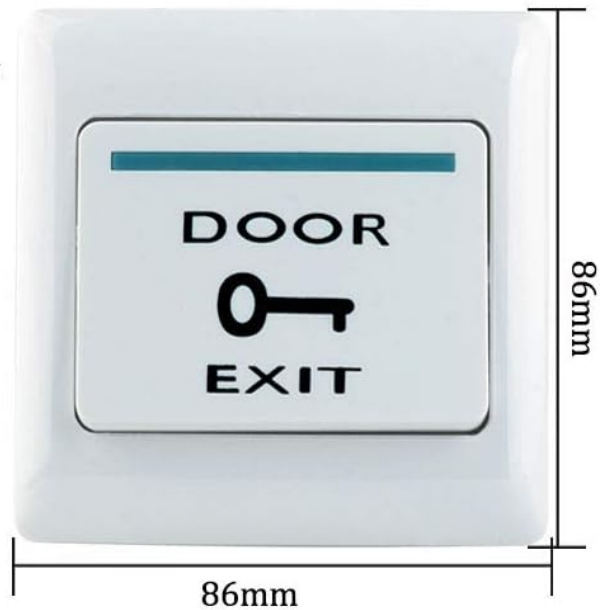
- **Material:** Fireproof plastic / ABS
- **Application:** Home, Office, Hotel, Factory, Store, etc.
- **Durability Test:** 500,000 times
- **Contact Rating:** 3A / 36VDC
- **Input:** 12VDC
- **Output:** NO/NC/COM

- **Working Temperature:** -10°C to +55°C
- **Suitable for Door:** Hollow Door
- **Dimensions:** 86 x 86 x 20mm

Door Exit Button

Product specifications

Material: Hard Plastic
 Maximum Power Rating: 36V DC 3A – 5A output
 Support both NC Mode (Fail Safe Mode) &
 NO Mode (Fail Secure Mode)
 Dimension: 85X85MM (L / W)



Card

Product specifications

125KHz radio frequency induction card, waterproof
 Operating frequency: 125kHz
 Detection range: 3-10cm
 Each card pre programmed a unique identity, is printed on the
 Please Noted: There are 5 color of the RFID keyfobs for optional



Figure 3.5.1: The Door Exit Button with dimensions (86x86mm) and a set of 10 blue RFID Keyfobs.

4. SETUP AND INSTALLATION

This section outlines the general steps for installing the access control system. Professional installation is recommended for optimal performance and safety.

4.1. Wiring Diagram

Carefully follow the wiring diagram provided. Ensure all connections are secure and correctly matched to avoid damage to the system components.

Wiring Diagram

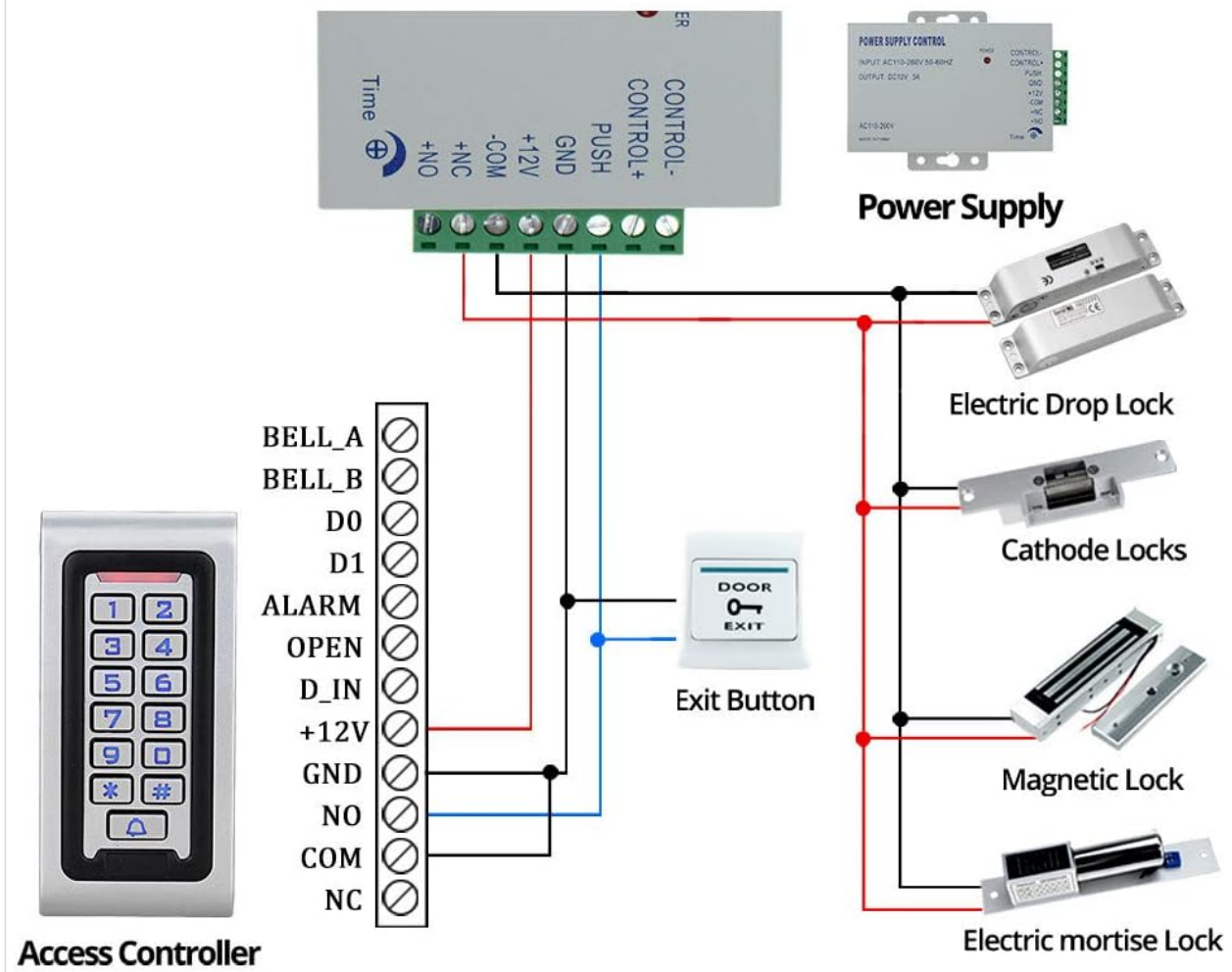


Figure 4.1.1: Comprehensive wiring diagram illustrating connections between the Access Controller, Power Supply, Exit Button, and Magnetic Lock. This diagram shows how to connect the various components for a functional door access system.

Key Wiring Connections:

- **Power Supply to Access Controller:** Connect the DC12V output from the power supply to the +12V and GND terminals on the access controller.
- **Power Supply to Magnetic Lock:** Connect the +12V and GND from the power supply to the magnetic lock. Ensure the lock is connected in a fail-safe configuration (locked when powered).
- **Access Controller to Magnetic Lock:** The access controller's NO/NC/COM outputs connect to the power supply's control inputs (CONTROL+, CONTROL-) to manage the lock's power.
- **Exit Button to Power Supply:** Connect the Exit Button to the PUSH and GND terminals on the power supply.
- **Doorbell (Optional):** If using a doorbell, connect it to the BELL_A and BELL_B terminals on the access controller.

4.2. Physical Installation

1. **Mount the Access Controller:** Choose a suitable location near the door, ensuring it is accessible for users. Secure the keypad to the wall using appropriate screws.
2. **Install the Magnetic Lock:** Mount the electromagnetic lock on the door frame and the armature plate on the door itself, ensuring proper alignment for secure locking. Refer to the lock's specific mounting instructions for details.

3. **Mount the Power Supply:** Install the power supply control unit in a secure, dry location, preferably indoors, away from direct moisture.
4. **Install the Exit Button:** Mount the exit button on the inside of the door, at a convenient height for users to exit.
5. **Connect Wiring:** Route all necessary wires between the components according to the wiring diagram. Ensure all connections are insulated and protected.
6. **Power On:** Once all connections are verified, connect the power supply to the main AC power source.

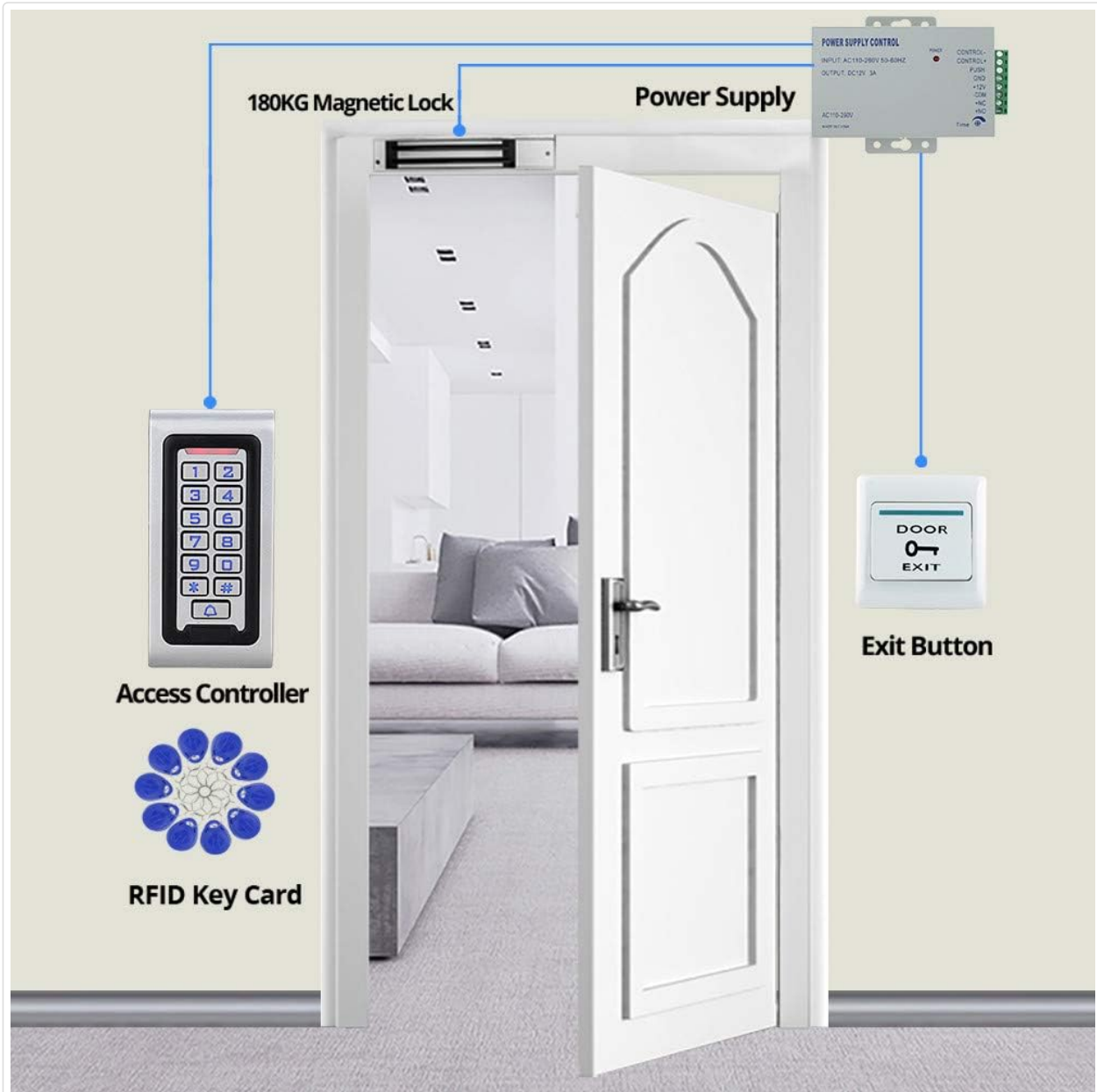


Figure 4.2.1: An illustrative diagram showing the typical placement of the Access Controller, Magnetic Lock, Power Supply, and Exit Button on a door for a complete access control system.

5. OPERATING INSTRUCTIONS

After successful installation and programming, the system is ready for operation.

5.1. Opening the Door

- **Using an RFID Card:** Present a programmed RFID keyfob to the keypad. The lock will disengage for the set delay time.
- **Using a Password:** Enter your programmed user password followed by the '#' key. The lock will

disengage.

- **Using RFID Card + Password:** Present your RFID keyfob, then enter your password followed by the '#' key. The lock will disengage.
- **Exiting:** Press the Door Exit Button from the inside to momentarily unlock the door.

6. PROGRAMMING INSTRUCTIONS

The access controller requires initial programming to set up the master password and add user credentials. Specific programming codes and sequences are essential for proper setup. Please refer to the manufacturer's detailed programming manual for exact codes and steps, as these can vary.

6.1. Entering Programming Mode

Typically, to enter programming mode, you will need to enter a default master code (e.g., *999999# or *123456#) followed by a specific command. The keypad will usually indicate entry into programming mode with a light or sound.

6.2. Changing Master Password

It is highly recommended to change the default master password immediately after installation for security purposes. This usually involves entering programming mode, selecting a 'change master password' option, and then entering the new password twice.

6.3. Adding Users (RFID Cards / Passwords)

To add new users, enter programming mode and select the 'add user' function. You will then be prompted to either present an RFID card or enter a new user password. Each user is assigned a unique ID.

6.4. Deleting Users

To remove users, enter programming mode and select the 'delete user' function. You can typically delete users by their assigned ID number or by presenting their RFID card.

6.5. Adjusting Door Open Time

The power supply unit often allows adjustment of the door open delay time (0-15 seconds). This can usually be set via a potentiometer on the power supply board or through keypad programming commands.

7. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your access control system.

- **Cleaning:** Clean the keypad surface with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- **Wiring Inspection:** Periodically check all wiring connections for signs of wear, corrosion, or looseness. Ensure all connections are secure.
- **Lock Alignment:** Verify that the magnetic lock and armature plate remain properly aligned. Misalignment can reduce holding force.
- **Functionality Test:** Regularly test the system's functionality using RFID cards, passwords, and the exit button to ensure all components are working correctly.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with the access control system.

Problem	Possible Cause	Solution
System does not power on.	No power to the power supply; faulty wiring; power supply failure.	Check AC input to power supply. Verify DC12V output from power supply. Inspect all power connections.
Door does not unlock with valid card/password.	Incorrect programming; card/password not enrolled; faulty lock or keypad connection.	Re-verify programming steps. Ensure card/password is correctly added. Check wiring between keypad, power supply, and lock.
Magnetic lock does not engage/disengage properly.	Misalignment of lock and armature plate; insufficient power; lock failure.	Adjust lock and armature plate for proper alignment. Check DC12V power to the lock. Inspect lock for damage.
Exit button does not work.	Faulty wiring to exit button; button failure.	Check wiring connections for the exit button to the power supply. Test the button for continuity.
Keypad unresponsive or frozen.	Power fluctuation; internal fault.	Disconnect power for 30 seconds, then reconnect. If issue persists, contact support.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact the manufacturer or your point of purchase. Keep your purchase receipt as proof of purchase for warranty claims.