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MENGQI-CONTROL 4 door panel RFID-no strike

MENGQI-CONTROL TCP/IP 4-Door Access Control Panel Kit with Electric Strike Locks User Manual

Brand: MENGQI-CONTROL | **Model:** 4 door panel RFID-no strike

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your MENGQI-CONTROL TCP/IP 4-Door Access Control Panel Kit. This system is designed to manage access for up to four doors, offering secure entry via RFID cards, keychains, or remote smartphone application control. It supports comprehensive user management, access logs, and time-based access rules.

For optimal performance and safety, please read this manual thoroughly before installation and use. Keep this manual for future reference.

2. Package Contents

Verify that all components listed below are included in your package:

- 1 x 4-Door Wiegand Access Controller Board
- 1 x Power Supply Box (110-240V input, 5A output)
- 1 x RFID Enroll USB Reader
- 4 x RFID Readers
- 4 x Electric Strike Fail Secure NO Mode Locks
- 50 x RFID Keychains
- 50 x RFID Cards
- 1 x CD (Software, User Manual, Wiring Diagram, Video Guide)



Figure 2.1: Overview of the MENGQI-CONTROL 4-Door Access Control Kit components.

3. Specifications

Feature	Specification
Brand	MENGQI-CONTROL
Model Number	4 door panel RFID-no strike
Color	Black
Power Source	Corded Electric
Voltage	110-240V AC input (Power Supply Box)
Connectivity Technology	Wired (TCP/IP Network)

Feature	Specification
Compatible Devices	Smartphone (iPhone, Android), Windows PC (Win7/8/10/11)
Control Method	App, RFID Card/Keychain, Password
Sensor Technology	RFID
Proximity Range	5-10 cm
Response Speed	Less than 0.2 seconds
User Capacity	Up to 20,000 users
Log Capacity	Up to 100,000 event logs
Software Database Support	Access & SQL Server
Installation Method	Screw-In
Item Weight	10 pounds (approx.)

4. Setup and Installation

Careful installation is crucial for the proper functioning of your access control system. Refer to the included CD for detailed video guides and wiring diagrams.

4.1 Components Overview

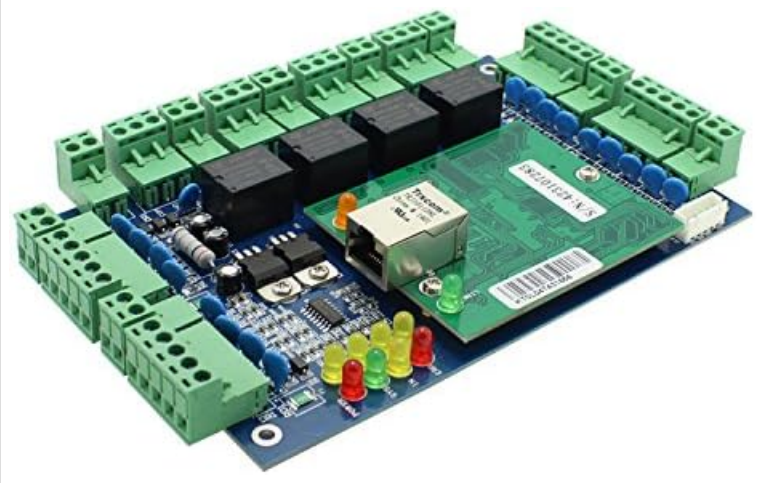


Figure 4.1: The 4-door Wiegand Access Controller Board. This board manages all access points and communicates with the software.



Figure 4.2: Exterior view of the power supply box, which houses the control board and provides stable power to the system.

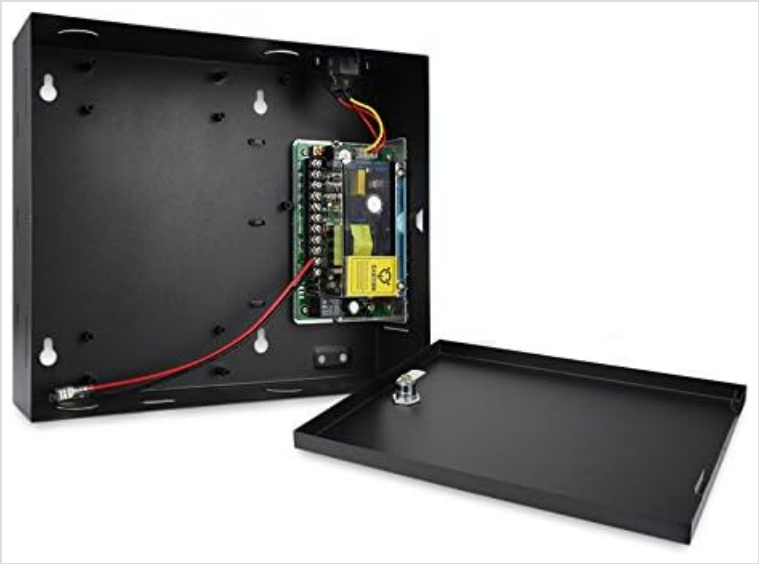


Figure 4.3: Interior view of the power supply box, showing the power board and space for the controller board.



Figure 4.4: Electric Strike Fail Secure NO Mode Lock. This lock requires power to secure the door and unlocks when power is removed.



Figure 4.5: RFID Reader with approximate dimensions (101mm x 43mm).



Figure 4.6: USB Enroll Reader for registering RFID cards and keychains with the system software.

4.2 Wiring and Connections

The system uses TCP/IP for network communication. Connect the access controller board to your network via an Ethernet cable. Power is supplied by the included power supply box. Each RFID reader and electric strike lock connects directly to the control board.

- **Power Connection:** Connect the power supply box to a 110-240V AC source. Ensure the control board receives stable 12V DC power from the power supply box.
- **Network Connection:** Connect an Ethernet cable from your network router/switch to the RJ45 port on the control board.
- **RFID Readers:** Connect each RFID reader to its designated Wiegand input on the control board. Pay close attention to the data lines (Data0, Data1), power (12V), and ground (GND) connections.

- **Electric Strike Locks:** Connect each electric strike lock to its corresponding relay output on the control board. Ensure correct wiring for Fail Secure (NO Mode) operation, where the lock is open when power is off and closed when power is applied.
- **Exit Buttons:** Connect exit buttons to the designated terminals for each door to allow egress from the secured area.

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Video 4.1: Detailed wiring and connection guide for the 4-door strike lock access control system. This video provides visual instructions for connecting all components.

4.3 Software Installation and Configuration

Install the provided software from the CD onto a Windows PC (Win7/Win8/Win10/Win11, 32 & 64 bit supported). The software allows for system configuration, user management, and access log review.

- **Software Setup:** Follow the on-screen instructions to install the access control software.
- **Device Discovery:** Use the software to discover and connect to the access control panel via TCP/IP.
- **User Registration:** Use the USB Enroll Reader to register RFID cards and keychains. Assign each user to specific doors and define their access schedules.
- **Time Zone and System Settings:** Configure the system time, time zones, and other general settings.

5. Operating Instructions

The MENGQI-CONTROL system offers multiple ways to manage and control door access.

5.1 Accessing Doors

- **RFID Card/Keychain:** Present a registered RFID card or keychain to the RFID reader. The door will unlock if access is authorized.
- **Password:** If the RFID reader includes a keypad, enter your assigned password followed by '#' (or as per specific reader instructions) to unlock the door.
- **Exit:** To exit a secured area, turn the lock handle or knob, or press the designated exit button.

5.2 Smartphone Application Control

The system supports remote door opening via a smartphone application (available for iPhone and Android).

- **App Download:** Download the official MENGQI-CONTROL access control app from your device's app store.
- **Device Pairing:** Follow the in-app instructions to pair your smartphone with the access control system.
- **Remote Unlock:** Use the app interface to remotely unlock specific doors. This function works even if you are in a different location.
- **App Features:** The app may also allow for basic system monitoring and settings adjustments.

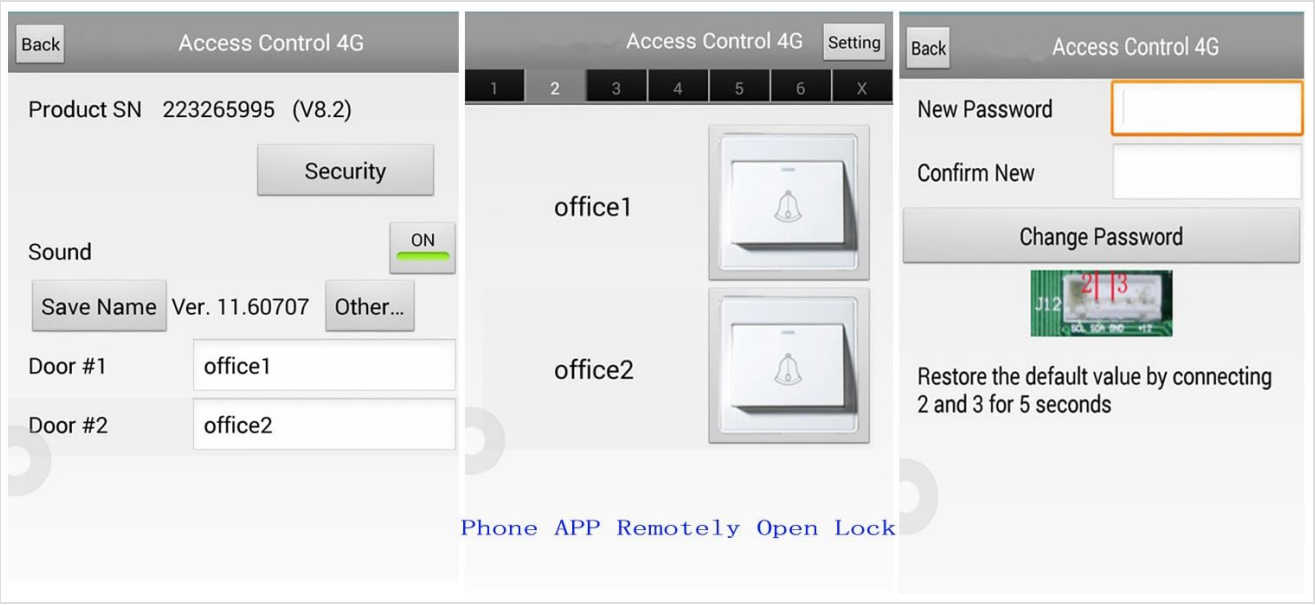


Figure 5.1: Screenshots of the smartphone application interface, demonstrating remote door opening and basic settings.

5.3 Advanced Features

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Video 5.1: Overview of system features and advanced functions, including detailed access control capabilities.

- **Time-Based Access:** Configure specific timeframes during which users can access certain doors (e.g., Monday-Friday, 9:00 AM - 6:00 PM).
- **Auto Open/Close:** Set doors to automatically open or close at pre-defined times on specific days.
- **Entry Records:** The system stores up to 100,000 entry and exit logs, which can be reviewed, checked, and exported via the software.
- **Multi-Swipe Function:** Configure doors to require multiple swipes (e.g., 4 swipes) to open and close, useful for specific operational needs.

6. Maintenance

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

- **Cleaning:** Keep RFID readers and the control panel free from dust and debris. Use a soft, dry cloth for cleaning. Avoid abrasive cleaners or solvents.
- **Cable Inspection:** Periodically inspect all wiring for signs of wear, damage, or loose connections. Ensure all cables are securely fastened.
- **Software Updates:** Check for and install any available software updates to ensure optimal performance and security.
- **Backup Data:** Regularly back up your user database and access logs to prevent data loss.
- **Power Supply Check:** Ensure the power supply box is well-ventilated and operating within normal temperature ranges.

7. Troubleshooting

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

7.1 Common Issues and Solutions

- **Door Not Unlocking:**
  - **Check Power:** Ensure the control panel and electric strike lock are receiving power.
  - **RFID Card/Keychain:** Verify the card/keychain is registered and authorized for that door and time.
  - **Wiring:** Inspect the wiring between the control board and the lock/reader for loose connections or damage.
  - **Lock Mechanism:** Check the physical electric strike lock for any obstructions or mechanical failures.
- **RFID Reader Not Responding:**
  - **Power:** Ensure the reader is powered.
  - **Wiring:** Check the Wiegand data lines (Data0, Data1) and power connections to the control board.
  - **Interference:** Ensure no strong electromagnetic interference is affecting the reader.
- **Software Cannot Connect to Panel:**
  - **Network Connection:** Verify the Ethernet cable is securely connected to both the control board and the network.
  - **IP Address:** Ensure the control panel has a valid IP address and is on the same network as the PC running the software. Check firewall settings.
  - **Power Cycle:** Try power cycling the control panel and the PC.
- **Remote App Not Working:**
  - **Internet Connection:** Ensure both your smartphone and the access control system (via its network connection) have active internet access.
  - **App Login:** Verify you are logged into the app with the correct credentials.
  - **System Status:** Check the control panel's status via the PC software to ensure it's online and functioning correctly.

8. Warranty and Support

MENGQI-CONTROL is committed to providing reliable products and customer satisfaction.

- **Warranty:** Please refer to the product packaging or the official MENGQI-CONTROL website for specific warranty terms and conditions.
- **Technical Support:** For any technical assistance, installation queries, or troubleshooting not covered in this manual, please contact MENGQI-CONTROL customer support. Live support is available to assist you with setup and operation.
- **Contact Information:** Refer to the contact details provided on the product packaging or the MENGQI-CONTROL official website.

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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