YUHANUS YH-G1501-OP22-500-RT

YUHANUS 1200lb Electric Magnetic Lock Kit User Manual

Electromagnetic Door Access System with RFID Keypad, Exit Button, Doorbell, and Remote Control

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your YUHANUS 1200lb Electric Magnetic Lock Kit. This comprehensive access control system is designed to enhance security for various door types, offering multiple entry and exit methods.

2. SAFETY INFORMATION

- **Electrical Safety:** This system operates on 12V DC. Ensure all power connections are made correctly and securely. Disconnect power before performing any installation or maintenance.

- **Professional Installation:** While designed for ease of installation, professional assistance is recommended for complex wiring or if you are unfamiliar with electrical systems.

- **Waterproof Components:** The keypad, exit button, and magnetic lock are waterproof for outdoor use. Ensure all connections are properly sealed to maintain water resistance.

- **Secure Mounting:** Ensure all components, especially the magnetic lock, are securely mounted to prevent accidental detachment or tampering.

3. PACKAGE CONTENTS

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

Image 3.1: Overview of the YUHANUS 1200lb Electric Magnetic Lock Kit components, including the magnetic lock, power supply, RFID keypad, exit button, doorbell, remote control receiver, and remote key fobs.

- 1 x 1200lb Electromagnetic Lock
- 1 x RFID Access Control Keypad
- 1 x Power Supply Unit (AC110V-240V input, DC12V output)
- 1 x Press to Exit Button
- 1 x Doorbell Chime Unit
- 1 x Remote Control Receiver
- 2 x Remote Key Fobs
- 5 x IC Cards (Smart Lock Tags)
- Mounting Hardware and Cables (as required)

4. SETUP AND INSTALLATION

This section outlines the general installation process. Refer to the wiring diagram for specific connections.

4.1 System Overview
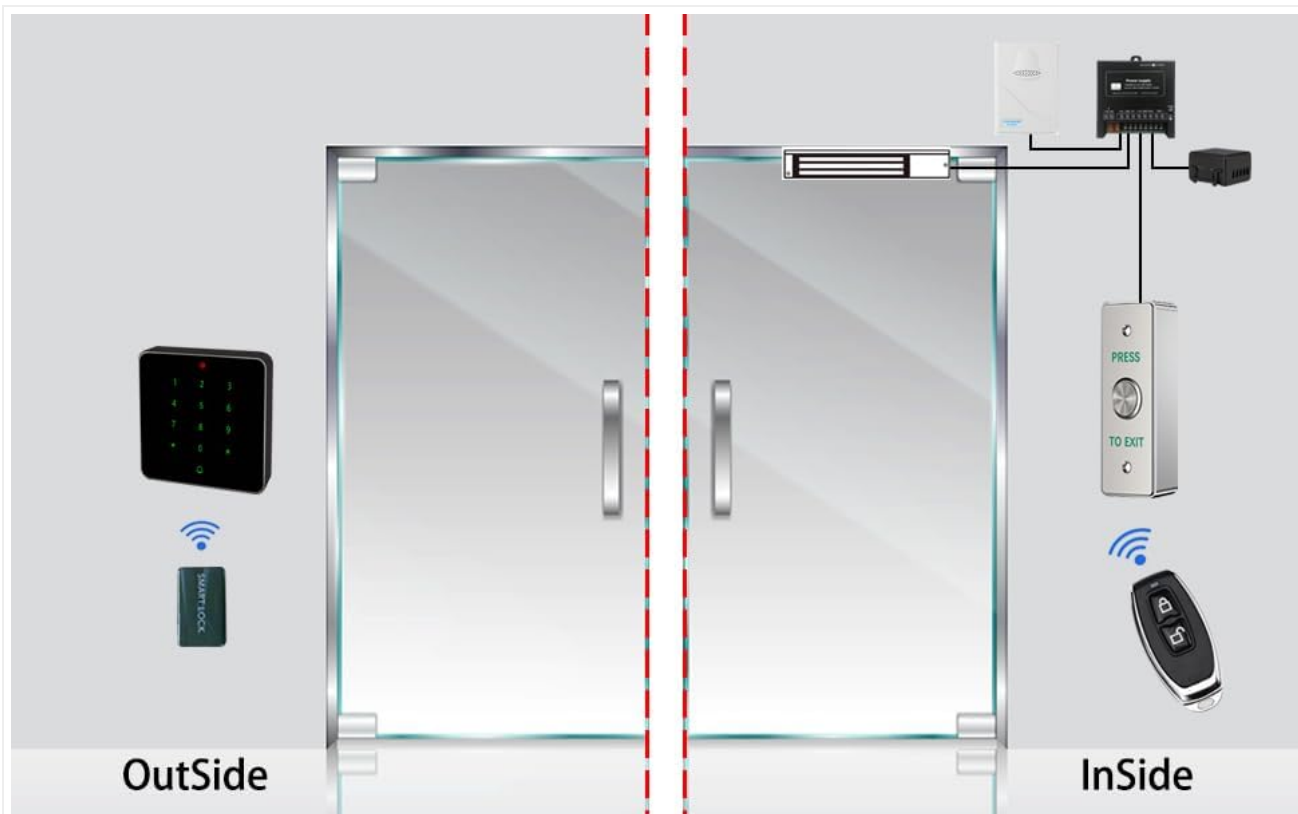
Image 4.1: Diagram illustrating the placement of system components on the outside (keypad, smart lock tags) and inside (magnetic lock, power supply, doorbell, exit button, remote control) of a door.

4.2 Component Installation

1. **Magnetic Lock Installation:**
   Mount the electromagnetic lock on the door frame and the armature plate on the door. Ensure proper alignment for secure locking. Refer to the dimensions for appropriate placement.

Image 4.2: Detailed dimensions of the 1200lb electromagnetic lock and its armature plate, showing measurements in millimeters and inches.

Image 4.3: Example of a magnetic lock installed on a door frame with the armature plate on the door.

2. **RFID Access Control Keypad:**
Install the keypad on the exterior side of the door at a convenient height. It is waterproof for outdoor use.

CTRL+	CTRL-	PUSH	GND	+12V	NC	GND	NO

Image 4.4: Front view of the RFID Access Control Keypad with illuminated numbers and a doorbell icon.

3. **Press to Exit Button:**
   Mount the exit button on the interior side of the door. This button allows for easy egress.

Image 4.5: Dimensions of the 'Press to Exit' button, showing its height, width, and depth in millimeters and inches.

4. **Doorbell Chime Unit:**
   Install the doorbell chime unit indoors, in a location where it can be easily heard.
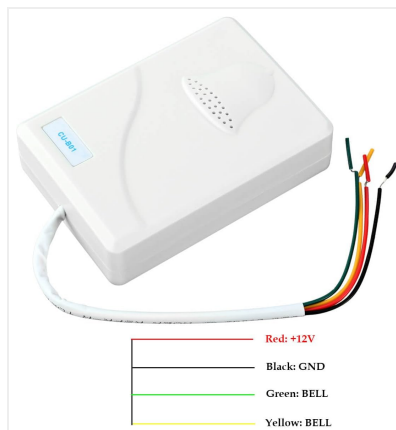
Image 4.6: The doorbell chime unit with its four-wire connection: Red (+12V), Black (GND), Green (BELL), and Yellow (BELL).

5. **Remote Control Receiver:**
   Place the remote control receiver indoors, ensuring it has a clear line of sight or minimal obstruction for optimal remote signal reception.
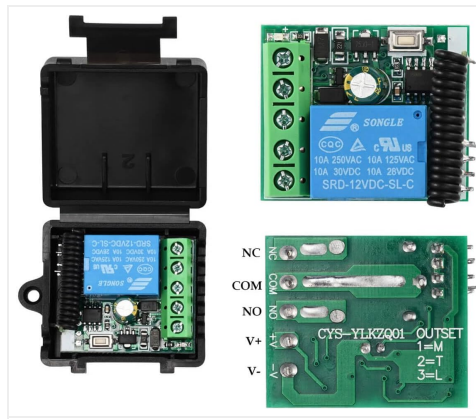
Image 4.7: Internal view of the remote control receiver module, showing the relay, antenna, and terminal blocks for connections (NC, COM, NO, V+, V-).

6. **Power Supply Unit:**

   Mount the power supply unit in a secure, dry, and accessible indoor location. Ensure it is protected from moisture and direct sunlight. **Do not open the power supply cover while connected to AC power.**
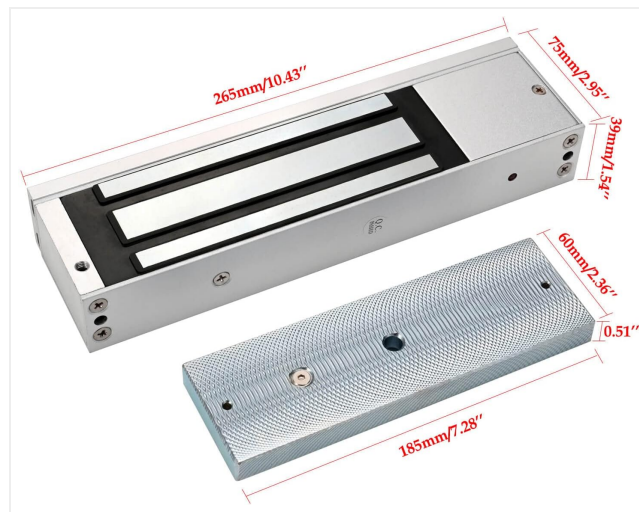
Image 4.8: The power supply unit, indicating input (AC110V-240V) and output (DC12V 4A) terminals, along with connections for N.O., GND, N.C., +12V, PUSH, CTRL+, CTRL-, TIMING, and LED.

4.3 Wiring Diagram

Carefully follow the wiring diagram below to connect all components. Incorrect wiring can damage the system or pose a safety hazard.

Wiring Diagram of the Access Control System
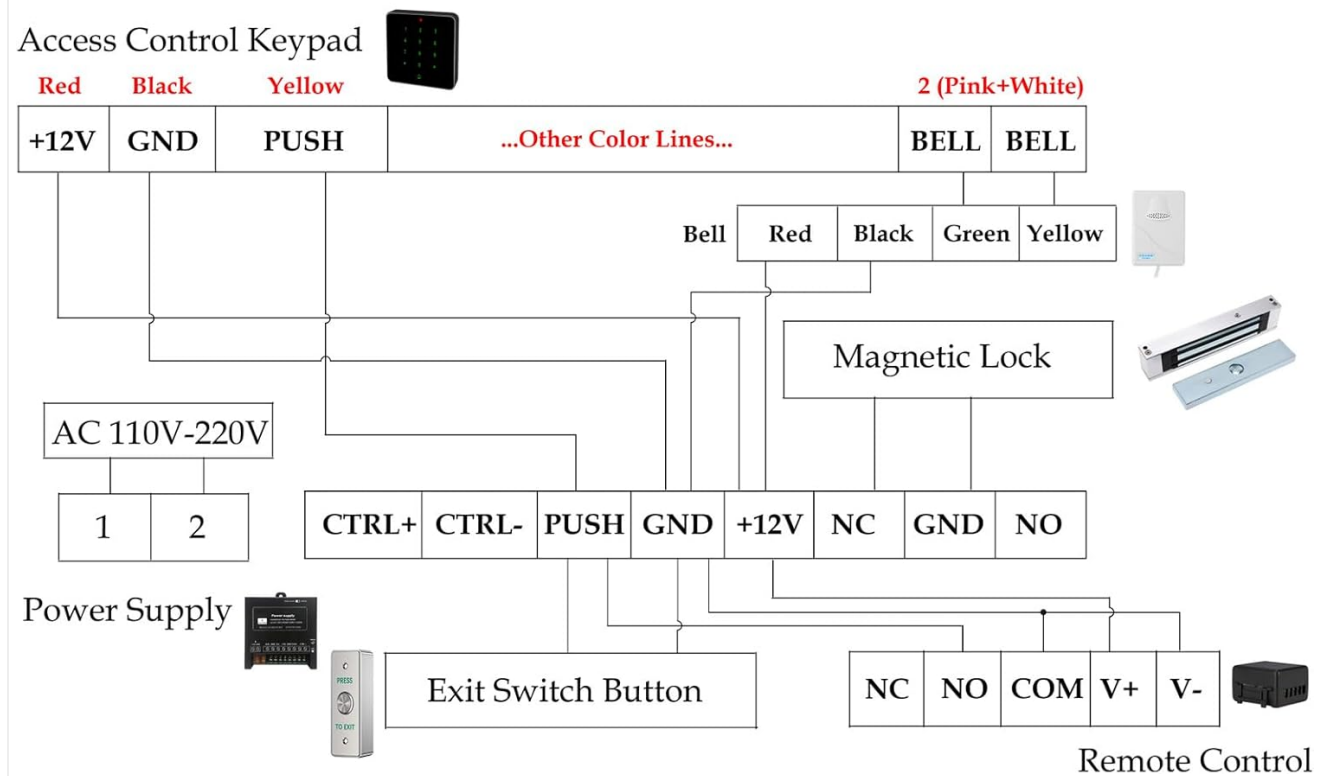
Image 4.9: Detailed wiring diagram showing connections between the access control keypad, power supply, magnetic lock, exit switch button, doorbell, and remote control receiver.

Key Wiring Points:

- Connect the **Access Control Keypad** to the **Power Supply** (+12V, GND, PUSH) and the **Doorbell Chime Unit** (BELL).
- Connect the **Magnetic Lock** to the **Power Supply** (N.O., GND).
- Connect the **Exit Switch Button** to the **Power Supply** (PUSH, GND).
- Connect the **Remote Control Receiver** to the **Power Supply** (V+, V-, NO, COM).
- Ensure AC 110V-220V input is correctly wired to the **Power Supply**.

5. OPERATING INSTRUCTIONS

5.1 Accessing the Door

- **Password Entry:** Enter your programmed password on the RFID keypad, then press '#' to confirm. The lock will disengage for a set period.
- **IC Card Entry:** Present a programmed IC card (smart lock tag) to the RFID keypad. The lock will disengage.
- **Remote Control:** Use the remote key fob to unlock the door from a distance. Press the unlock button on the remote.

5.2 Exiting the Door

- **Press to Exit Button:** Press the 'Press to Exit' button located on the interior side of the door. The lock will disengage, allowing you to exit.

5.3 Doorbell Function

- Visitors can press the doorbell icon on the RFID keypad. The indoor doorbell chime unit will sound, alerting

occupants.

5.4 Programming (Keypad)

Refer to the specific keypad manual for detailed programming instructions for user passwords, IC cards, and system settings. Typically, this involves entering a master code, then specific commands for adding/deleting users or cards.

6. MAINTENANCE

- **Regular Cleaning:** Wipe down the keypad and other external components with a soft, damp cloth. Avoid abrasive cleaners.
- **Connection Checks:** Periodically inspect all wiring connections to ensure they are secure and free from corrosion or damage.
- **Magnetic Lock Alignment:** Ensure the magnetic lock and armature plate remain properly aligned for optimal performance. Adjust if necessary.
- **Power Supply:** Ensure the power supply unit is well-ventilated and free from obstructions.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Lock does not engage/disengage	No power; Loose wiring; Misaligned lock; Faulty component.	Check power supply connection. Verify all wiring according to the diagram. Ensure magnetic lock and armature plate are aligned. Test individual components if possible.
Keypad not responding	No power; Damaged keypad; Incorrect programming.	Check keypad power connection. Re-enter programming mode to verify settings. Replace keypad if damaged.
Remote control not working	Dead battery in remote; Receiver not powered; Remote not paired.	Replace remote battery. Check receiver power and wiring. Follow instructions to pair remote with receiver.
Doorbell not chiming	Loose wiring; Faulty doorbell unit.	Check doorbell wiring connections. Test doorbell unit if possible.
System appears to have no working terminals except main input	Incorrect wiring; Faulty power supply or component.	**Carefully re-check all wiring against the provided diagram.** Ensure each terminal is connected to the correct component. If issues persist, test the power supply output with a multimeter to confirm 12V DC. Consult a professional electrician if unsure.

8. SPECIFICATIONS

Feature	Detail
Brand	YUHANUS
Model Number	YH-G1501-OP22-500-RT
Locking Force	1200lb (Electromagnetic Lock)
Power Source	Wired (AC to DC Power Supply)
Input Voltage (Power Supply)	AC 110V-240V
Output Voltage (Power Supply)	DC 12V (4A)
Connectivity Technology	Wired (Keypad, Lock, Button, Doorbell), Wireless (Remote Control)
Access Methods	Password, IC Card, Remote Control
Keypad Features	Waterproof, Integrated Doorbell Button
Exit Method	Press to Exit Button
Product Dimensions	12 x 7 x 3 inches (Overall Kit Packaging)
Item Weight	11.84 pounds
UPC	769894491164

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact YUHANUS customer service. Keep your purchase receipt for warranty claims.
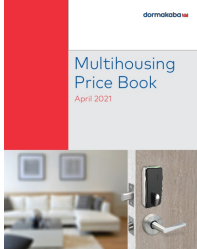
Related Documents - YH-G1501-OP22-500-RT

[Shenzhen YuHan Bluetooth Smart Lock Model Differences - YUHANUS](#)
Details on model differences for Shenzhen YuHan's YUHANUS Bluetooth smart locks, including model numbers YH-D280, YH-D290, YH-D300, YH-D350, YH-D500, YH-D800, YH-ULock-01, YH-BikeLock-01, YH-BikeLock-02. All models share the same circuit and RF module.

[Programming Manual for RFID and Keypad Door Locks](#)
This manual provides detailed instructions for programming and managing RFID and keypad access control door locks. It covers master code settings, adding and removing RFID keys/cards, PIN management, and other essential functions for system setup and operation.

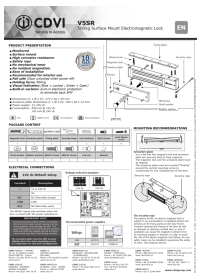|	
	[Saflok RT/RT Plus Installation Instructions](#) This document provides detailed installation instructions for the dormakaba Saflok RT and RT Plus electronic mortise and cylindrical locks. It covers parts lists, tools required, step-by-step installation procedures for various models including ASM, ESM, Autodeadbolt, Mechanical Override, Cylindrical, and Escape Return, along with appendices for specific functions and troubleshooting. It also includes information on recodable cylinders and compliance statements.
	[dormakaba Multihousing Price Book April 2021](#) Comprehensive price book from dormakaba detailing a wide range of access control solutions and hardware for multihousing properties, including Saffire, Nova, Quantum, Ilco, MT, and InSync product lines, along with software and accessories.
	[Danfoss Thermostat Type RT: Technical Data Sheet and Product Overview](#) Comprehensive data sheet for Danfoss Thermostat Type RT, detailing features, technical specifications, types, applications, functions, and ordering information for industrial and marine use. Includes diagrams and selection guides.
	[CDVI V5SR 500 kg Surface Mount Electromagnetic Lock Installation and Maintenance Guide](#) Comprehensive guide for the CDVI V5SR 500 kg surface mount electromagnetic lock, covering product presentation, package contents, electrical connections, mounting recommendations, and maintenance. Includes technical specifications and contact information for CDVI global offices.