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› [Haupowfo Universal 1200lbs Electromagnetic Lock \(Model HP002\) Instruction Manual](#)

Haupowfo HP002

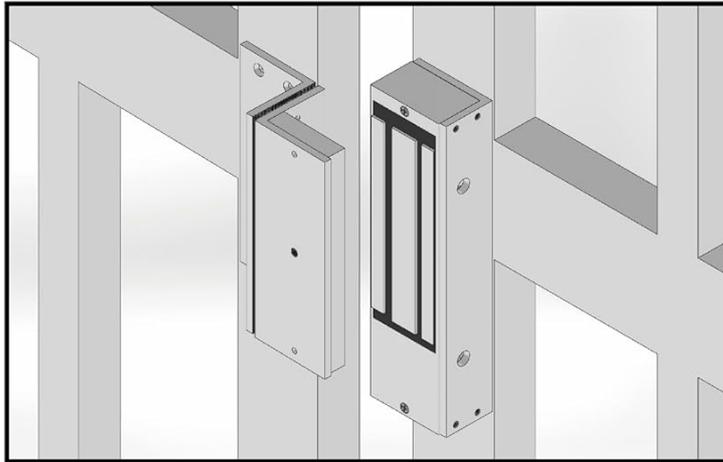
Haupowfo Universal 1200lbs Electromagnetic Lock (Model HP002) Instruction Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Haupowfo Universal 1200lbs Electromagnetic Lock, Model HP002. This heavy-duty, waterproof, fail-safe lock is designed for secure access control systems on gates and doors, offering a robust 1200lbs (550kg) holding force. It is compatible with both 12VDC and 24VDC power systems and various gate openers and access controllers.

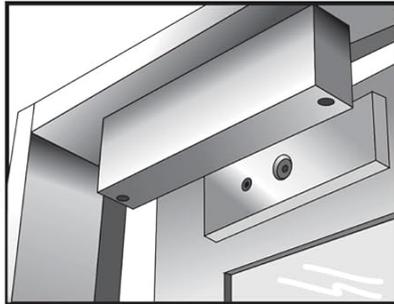
Easy to Install

The maglock kit includes the Z and L brackets makes it's easy to install to both inswing and outswing gate&door.

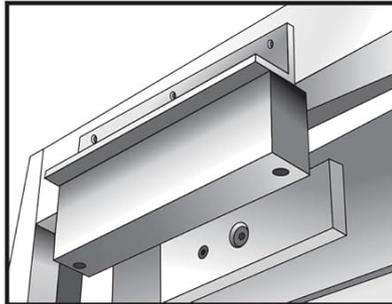


With ZL Bracket,
Outdoor Swing
Gate

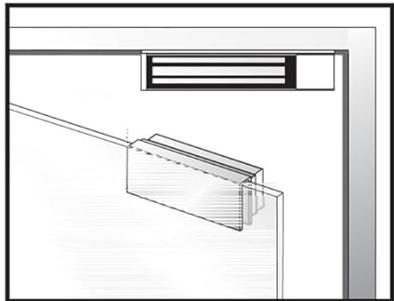
Regular Installation
Without ZL Bracket,
Out-swinging, Door
Frame Wide Enough



With L Bracket,
Without Z Bracket,
Out-swinging
Narrow Door Frames



With Optional U
Bracket, Without
ZL Bracket,
In-swinging,
Glass Door Leaf



With ZL Bracket,
In-swinging
Door Frames

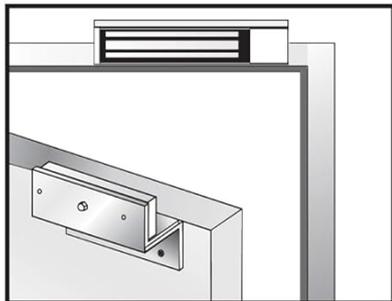


Image 1.1: The Haupowfo Universal 1200lbs Electromagnetic Lock, showcasing its robust design.

2. SAFETY INFORMATION

Please read and understand all safety warnings and instructions before installing or operating this product. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage.

- **Electrical Safety:** Ensure all power is disconnected before performing any wiring or maintenance. All electrical work should be performed by a qualified electrician in accordance with local electrical codes.
- **Strong Magnetic Force:** This lock generates a significant magnetic force (1200lbs holding force). Keep hands and metallic objects clear of the lock and armature plate when power is applied to prevent injury.
- **Installation:** Securely mount the lock and brackets to a stable structure. Improper installation can lead to failure and potential hazards.
- **Waterproof:** While the unit is waterproof, ensure all wiring connections are properly sealed and protected from moisture to prevent short circuits.

3. PACKAGE CONTENTS

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

- 1200lbs Magnetic Lock Unit
- Armature Plate (Iron Plate)
- L Bracket
- Z Bracket
- Optional 12VDC Timer Delay Off Control Relay
- Optional 24VDC Timer Delay Off Control Relay
- Mounting Hardware (screws, washers, etc.) for lock and brackets



Image 3.1: Detailed diagram of all components included in the kit.

4. SETUP AND INSTALLATION

The installation process involves mounting the magnetic lock and armature plate, followed by electrical wiring. The included Z and L brackets provide flexibility for various door and gate configurations.

4.1. Mounting Options

The appropriate bracket configuration depends on your gate or door type (inswing, outswing) and frame width.

- **With ZL Bracket:** Ideal for outdoor swing gates and in-swinging door frames.
- **With L Bracket (without Z Bracket):** Suitable for out-swinging narrow door frames.
- **Regular Installation (without ZL Bracket):** For out-swinging doors with wide enough frames.
- **Optional U Bracket:** For glass door leaves (U bracket not included in standard kit).

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Waterproof 1200lbs. Holding Force Magnetic Door Lock Magnetic Gate Lock



Heavy Duty



Waterproof



Easy to Install



Flexible Power Input
(12V/24VDC)



Image 4.1: Visual guide to different mounting options for inswing and outswing gates/doors using ZL and L brackets.

4.2. Wiring Instructions

The lock supports both 12VDC and 24VDC power inputs. Use the appropriate delay off timer relay controller (12VDC or 24VDC) included in the kit based on your gate opener or access control system's voltage. Connect the wires as indicated in the diagrams below. Ensure correct polarity (Red for positive, Black for negative). The Blue and White wires are typically for control signals from your access control system.

Magnetic Gate Door Lock - Gate Opener Compatibility

Compatible with almost all the popular brands of gate opener operator with a solenoid or magnetic lock control port! Compatible with the 12V/24VDC gate openers even without a lock port!



Image 4.2: Wiring diagrams for 12VDC and 24VDC systems, including connections to the delay off timer relay controllers.

This lock is compatible with most gate openers and door access controllers that have a magnetic lock or solenoid electric lock terminal. The included controller allows use even with gate operators lacking a dedicated lock terminal.

5. OPERATING INSTRUCTIONS

The Haupowfo HP002 is a fail-safe electromagnetic lock, meaning it unlocks when power is removed. This is a critical safety feature, ensuring access in case of power failure.

- **Locking:** When power is supplied to the electromagnetic lock, it creates a strong magnetic field that holds the armature plate, securing the gate or door.
- **Unlocking:** When power is interrupted (e.g., by an access control system, keypad, or remote), the magnetic field dissipates, allowing the gate or door to open.
- **Integration:** Connect the lock to your existing gate opener or access control system. The delay off timer relays can be used to control the unlock duration.

Heavy Duty 1200 Lbs. Magnetic Lock - Easy to Install

The L&Z bracket included in the kit makes that the installation is flexible!

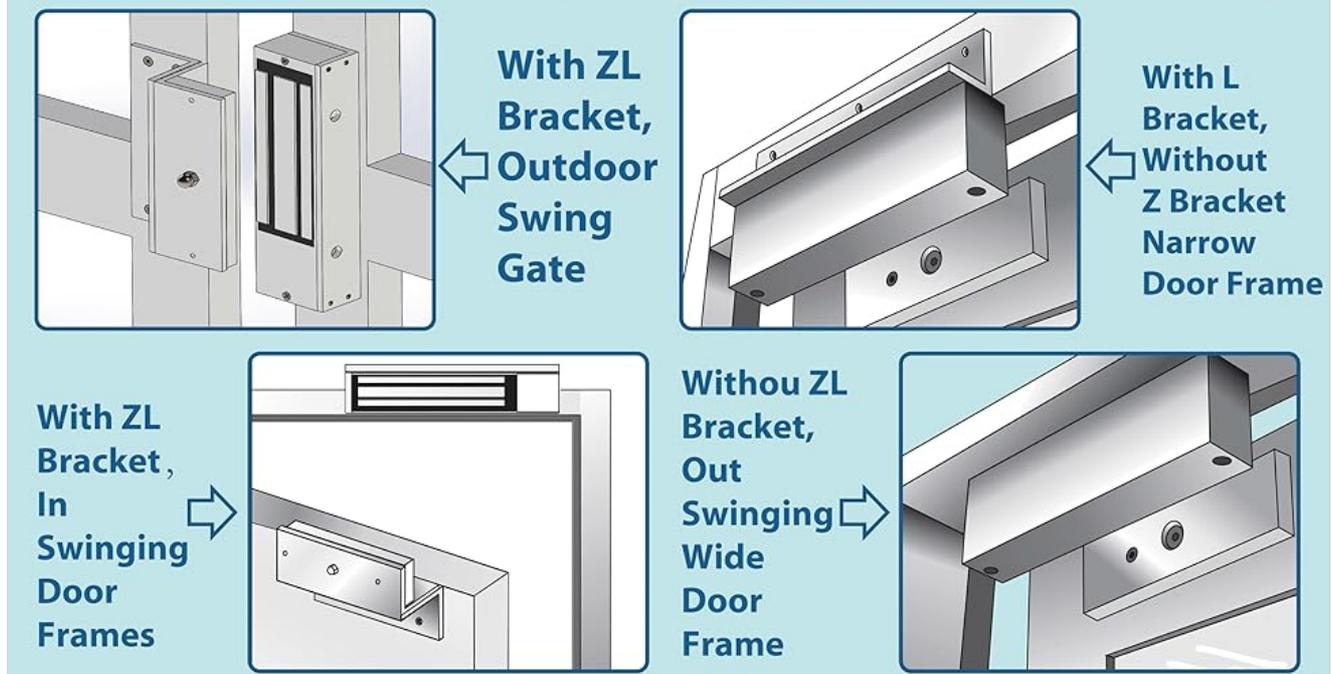


Image 5.1: The magnetic lock ensures a secure, gap-free closure, preventing issues in windy conditions unlike some solenoid locks.

6. MAINTENANCE

The Haupowfo HP002 electromagnetic lock is designed for minimal maintenance due to its waterproof construction and durable materials.

- **Waterproof Design:** All electronic components are sealed in electronic-grade potting epoxy, ensuring reliable function in all weather conditions, making it suitable for outdoor installations.
- **Routine Inspection:** Periodically check the mounting hardware for tightness and ensure the lock and armature plate are free from debris that could impede proper contact.
- **Cleaning:** Clean the surfaces of the lock and armature plate with a soft, damp cloth if necessary. Avoid abrasive cleaners or solvents.

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Heavy Duty Magnetic Door Lock Gate Lock - Multiple Applications



Image 6.1: The waterproof design ensures reliable operation even in wet outdoor environments.

7. TROUBLESHOOTING

If you encounter issues with your electromagnetic lock, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Lock does not engage (no holding force)	No power, incorrect wiring, faulty power supply, lock malfunction.	Check power connections and voltage. Verify wiring against diagrams. Test power supply. If issues persist, contact support.
Weak holding force	Insufficient power, gap between lock and armature, debris on surfaces, misaligned components.	Ensure correct voltage and adequate current. Check for proper alignment and eliminate any gaps. Clean lock and armature surfaces. Tighten mounting hardware.
Lock does not release	Power not cutting off, faulty access control signal, lock malfunction.	Verify that the access control system is correctly cutting power to the lock. Check control signal wiring. As a fail-safe lock, it should release when power is removed.
Intermittent operation	Loose connections, unstable power supply, environmental factors.	Inspect all wiring connections for tightness. Ensure a stable power source. Check for extreme temperature fluctuations or moisture affecting connections.

For complex issues or if troubleshooting steps do not resolve the problem, please contact customer support.

8. SPECIFICATIONS

Feature	Specification
Model Number	HP002
Holding Force	1200 lbs (550 kg)
Input Voltage	12VDC / 24VDC (selectable via relay)
Operation Mode	Fail-Safe (unlocks when power is removed)
Material	Metal (Powder Coated)
Color	Silver
Product Dimensions (Lock)	10"L x 1.67"W x 2.64"H (255mm x 40mm x 67mm)
Item Weight	12.1 pounds
Environmental Rating	Waterproof (suitable for outdoor use)
Included Components	Magnetic Door Lock, Armature Plate, L Bracket, Z Bracket, 12VDC Relay, 24VDC Relay, Mounting Hardware

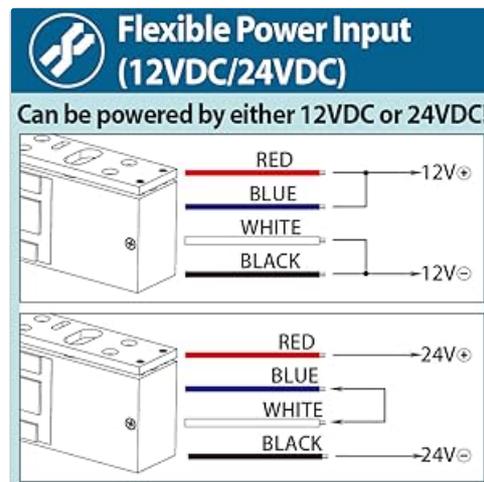


Image 8.1: Dimensional drawings of the lock and brackets for precise installation planning.

9. WARRANTY AND SUPPORT

Specific warranty details may vary by retailer or region. Please refer to your purchase documentation for warranty information.

For technical assistance, wiring diagrams, or any questions regarding your Haupowfo electromagnetic lock, please contact our support team:

Email: haupowfo@outlook.com

When contacting support, please provide your product model (HP002) and a detailed description of the issue.