

## Locknetics MG600

# Locknetics MG600 Mag Lock User Manual

Model: MG600

## INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of the Locknetics MG600 Mag Lock. The MG600 is a robust magnetic lock designed to provide secure access control with a powerful 600-pound holding force. It is suitable for various security applications requiring reliable locking mechanisms.

## PRODUCT OVERVIEW

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Image: The Locknetics MG600 Mag Lock (top) and its corresponding armature plate (bottom). The main unit is a silver rectangular electromagnet with black magnetic strips and the 'LOCKNETICS' logo. The armature plate is a solid silver metal bar designed to attach to the door or gate.

The Locknetics MG600 Mag Lock system consists of two primary components: the electromagnet unit and the armature plate. When power is applied to the electromagnet, it creates a magnetic field that attracts the armature plate, securing the door or gate. Removing power releases the lock.

## SETUP AND INSTALLATION

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### Safety Precautions

- Ensure power is disconnected before beginning installation.
- Wear appropriate safety gear, including eye protection.
- Consult local electrical codes and regulations.

### Tools Required

- Drill
- Screwdriver set
- Measuring tape and pencil
- Wire strippers and crimpers
- Mounting hardware (screws, bolts, brackets - typically included)

## Installation Steps

1. **Determine Mounting Location:** Choose a suitable location on the door frame (for the electromagnet) and the door itself (for the armature plate) that allows for proper alignment and secure attachment. Ensure the surfaces are flat and strong enough to support the lock's holding force.
2. **Mount the Electromagnet:** Secure the main electromagnet unit to the door frame using the provided mounting screws or bolts. Ensure it is level and firmly attached. The side with the magnetic face should align with where the armature plate will be.
3. **Mount the Armature Plate:** Attach the armature plate to the door. It should be positioned directly opposite the electromagnet unit when the door is closed. Use the provided hardware, ensuring the plate can pivot slightly if necessary to achieve full contact with the electromagnet.
4. **Wiring:** Connect the power supply (12V DC or 24V DC) to the electromagnet unit. Refer to the wiring diagram provided with your specific unit for correct polarity. Ensure all connections are secure and insulated.
5. **Test Operation:** Once installation and wiring are complete, apply power to the system. The lock should engage, holding the door securely. Disconnect power, and the lock should release, allowing the door to open.

## OPERATING INSTRUCTIONS

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The Locknetics MG600 Mag Lock operates on a simple principle:

- **To Lock:** Apply 12V DC or 24V DC power to the electromagnet unit. The magnetic field will activate, attracting the armature plate and securing the door or gate.
- **To Unlock:** Disconnect the power supply to the electromagnet unit. The magnetic field will dissipate, releasing the armature plate and allowing the door or gate to open freely.

This lock is typically integrated into an access control system, where power is controlled by a keypad, card reader, or other security device.

## MAINTENANCE

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Regular maintenance ensures optimal performance and longevity of your MG600 Mag Lock:

- **Cleaning:** Periodically wipe down the surfaces of both the electromagnet and the armature plate with a clean, dry cloth. Ensure no debris or dust accumulates on the magnetic faces, as this can reduce holding force.

- **Check Connections:** Annually inspect all wiring connections to ensure they are secure and free from corrosion. Loose connections can lead to intermittent operation or reduced performance.
- **Inspect for Wear:** Check the mounting hardware and the lock components for any signs of wear, damage, or misalignment. Address any issues promptly to prevent operational failures.
- **Lubrication:** No lubrication is required for the magnetic lock itself.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Lock not holding (door not securing)	<ul style="list-style-type: none"> <li>• No power or incorrect voltage.</li> <li>• Loose or faulty wiring.</li> <li>• Misalignment between electromagnet and armature plate.</li> <li>• Debris on magnetic faces.</li> <li>• Damaged electromagnet or armature plate.</li> </ul>	<ul style="list-style-type: none"> <li>• Verify power supply (12V DC or 24V DC) and connections.</li> <li>• Check all wiring for secure connections and continuity.</li> <li>• Adjust mounting to ensure perfect alignment and full contact.</li> <li>• Clean magnetic faces thoroughly.</li> <li>• Inspect for physical damage; replace if necessary.</li> </ul>
Lock not releasing (door remains secured)	<ul style="list-style-type: none"> <li>• Power not disconnecting.</li> <li>• Faulty release mechanism in access control system.</li> <li>• Residual magnetism (rare).</li> </ul>	<ul style="list-style-type: none"> <li>• Check power supply and ensure it completely cuts off when commanded.</li> <li>• Test the access control system's release output.</li> <li>• Ensure proper demagnetization circuit (if applicable) is functioning.</li> </ul>
Reduced holding force	<ul style="list-style-type: none"> <li>• Dirty magnetic faces.</li> <li>• Improper alignment.</li> <li>• Insufficient power supply.</li> </ul>	<ul style="list-style-type: none"> <li>• Clean magnetic surfaces.</li> <li>• Re-align the electromagnet and armature plate.</li> <li>• Verify power supply voltage and current output.</li> </ul>

## TECHNICAL SPECIFICATIONS

- **Model:** MG600
- **Holding Force:** 600 pounds
- **Voltage:** 12V DC / 24V DC (selectable/auto-sensing)
- **Material:** Metal, Plastic components
- **Color:** Silver

- **Package Dimensions:** Approximately 11.25 x 4 x 1.75 inches
- **Item Weight:** Approximately 5.0 pounds
- **Recommended Use:** Heavy-duty security for various access control applications.

## WARRANTY INFORMATION

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The Locknetics MG600 Mag Lock is covered by the manufacturer's standard warranty. Please refer to the warranty card included with your product or visit the official Locknetics website for detailed terms and conditions regarding coverage, duration, and claims procedures.

## CUSTOMER SUPPORT

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For technical assistance, troubleshooting beyond this manual, or inquiries regarding your Locknetics MG600 Mag Lock, please contact Locknetics customer support. Contact information can typically be found on the product packaging or the official Locknetics website.