

ALEKO AR900

ALEKO AR900 Driveway Sliding Gate Opener Instruction Manual

Model: AR900

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ALEKO AR900 Rack Driven Sliding Gate Opener. Please read this manual thoroughly before beginning installation or operation to ensure safe and efficient use of the product. Keep this manual for future reference.

2. PRODUCT OVERVIEW

2.1 What's Included

The ALEKO AR900 Sliding Gate Opener package typically includes the following components:

- 1 x AR900 Sliding Gate Operator Unit
- 1 x Mounting Metal Plate
- 2 x 433MHz RF Hopping Code Remotes
- 13 ft. of Nylon Gear Racks (reinforced with metal insert)
- All necessary installation hardware (bolts, nuts, washers, etc.)
- User Manual



Image: Main components of the ALEKO AR900 Sliding Gate Opener, showing the operator unit, two remote controls, a manual release key, mounting brackets, and various bolts and washers.

2.2 Key Features

- **Gate Capacity:** Can move gates up to 900 lbs. or 30 ft. long.
- **Motor:** 1/2 HP motor with an operating time of 44 seconds.
- **Soft Start and Soft Stop:** Ensures smooth gate operation, reducing wear and tear.
- **Adjustable Auto-Close:** Allows for automatic gate closing after a set time.
- **Electromagnetism Limit Switch:** Provides precise control over gate travel limits.
- **Secure Rolling Code Remotes:** Enhances security against unauthorized access.
- **Obstacle Adjustment:** Features stop/reverse functionality in case of obstruction for safety.
- **Manual Key Release:** Allows for manual gate operation during power loss.
- **Low Noise Operation:** Designed for quiet performance.
- **Waterproof Design:** Built to withstand outdoor conditions.



Image: Visual representation of key features: Easy Installation, Waterproof, Very Safe to Use, Low Noise, DC 24V Motor, and Reliable Quality.

2.3 Product Video Overview

Your browser does not support the video tag.

Video: An official product video from ALEKO Products demonstrating the features and components of the AR900/950NOR Rack Driven Sliding Gate Opener. This video provides a visual guide to the product's capabilities and included items.

3. SAFETY INFORMATION

Always prioritize safety during installation and operation. Failure to follow safety instructions may result in serious injury or property damage.

- Ensure all electrical connections are made by a qualified electrician and comply with local codes.
- Keep children and pets away from the gate area during operation.
- Do not attempt to repair the unit if you are not qualified. Contact customer support.
- Regularly inspect the gate and opener for any signs of wear, damage, or obstruction.
- The gate opener is designed for sliding gates only. Do not use for other applications.

4. INSTALLATION

Proper installation is crucial for the reliable operation of your gate opener. Refer to the detailed diagrams and instructions provided in the included user manual for specific steps.

4.1 Mounting the Operator

Securely mount the gate operator unit on a stable, level concrete pad or suitable foundation using the provided mounting metal plate and hardware. Ensure the unit is positioned correctly relative to the gate and the gear rack.

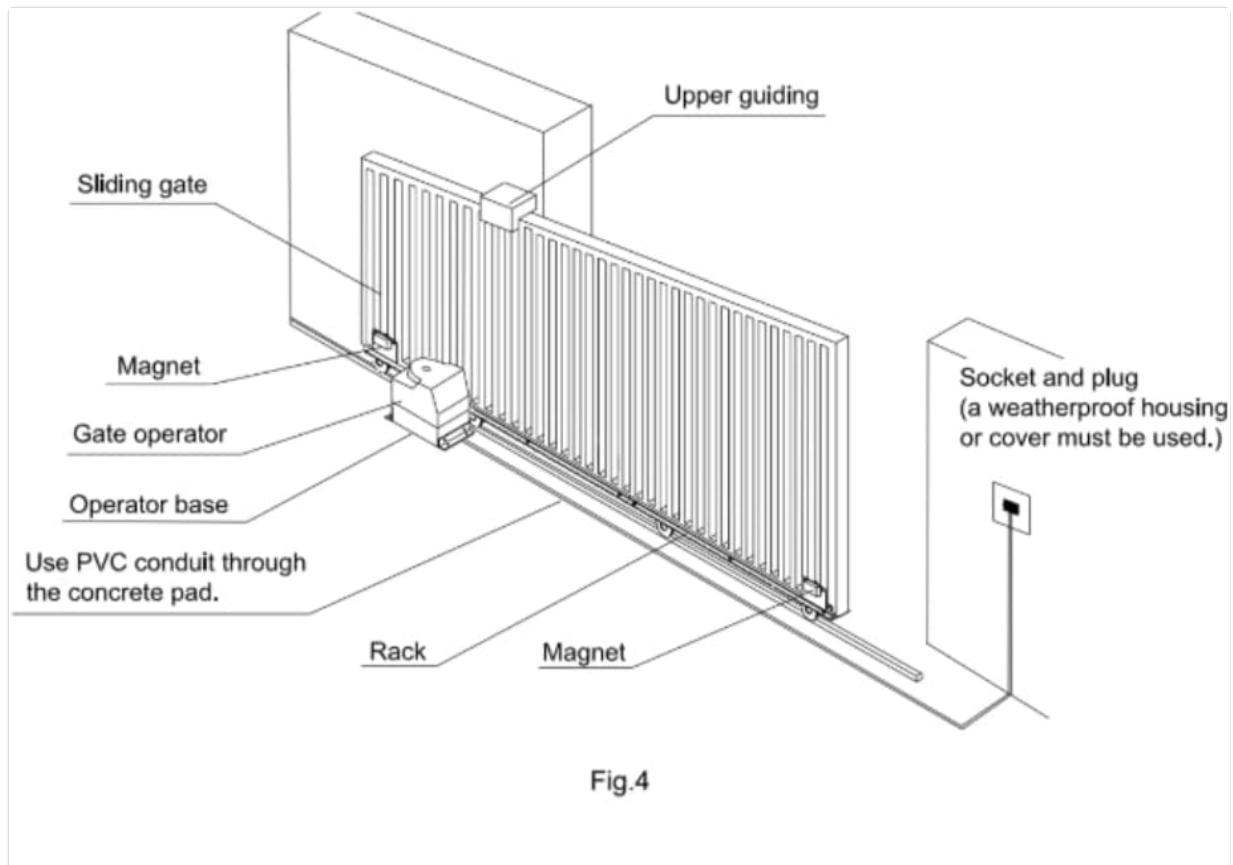


Image: Figure 4, an installation diagram illustrating the placement of the gate operator, gear rack, magnets, and upper guiding for a sliding gate system. It also shows the recommended use of PVC conduit for electrical wiring.

4.2 Attaching the Gear Racks

Attach the nylon gear racks along the bottom edge of your sliding gate. Ensure the racks are level and properly aligned with the operator's drive gear. The gear racks are reinforced with a metal insert for durability.

Sliding Gate Opener

ALEKO®



SOLAR
COMPATIBLE

AR900

PACKAGE

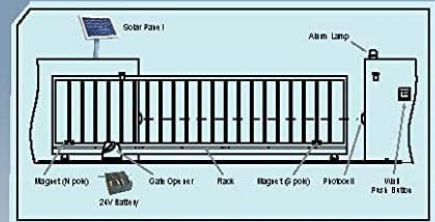
Measurement: 14 x 12 x 12 inch.
Shipping weight: 19.4 Lb



CE EMC RoHS PAHs

Features:

- Soft start and soft stop
- 24V low safety voltage
- Convenient Midway mode
- Built in Adjustable auto-close
- Electromagnetism limit switch
- Secure rolling code for the remote
- Stop/Reverse in case of obstruction
- Intellectualized Soft start and soft stop
- Emergency release key in case of power failure
- Built in Max Motor running time (MRT) for multiple safety protection



Specification:

Motor Power	120 W	24V DC
Gate moving speed:	7 in/sec	17 cm/sec
Max gate weight:	900 Lb	400 Kgs
Environmental conditions:	-13 ~ +122F	-25 ~ +50 °C
Protection class:	IP44	



Optional:

Nylon rack reinforced with steel (NR01)(NR02) (NW01)



Galvanized steel rack/wheel (SR01)(SW01)



Image: A detailed diagram highlighting the features and specifications of the AR900, including a visual of the gear rack and its connection to the gate opener.

4.3 Electrical Connections

Connect the power supply and any optional accessories (e.g., photocells, keypads) according to the wiring diagram in the full manual. Ensure all connections are secure and insulated.

5. SETUP

5.1 Remote Control Pairing

To pair the remote controls with your gate opener, follow the specific instructions in the full user manual.

Typically, this involves pressing a learning button on the control board and then a button on the remote.



Image: Two 433MHz remote controls, which are included with the gate opener for convenient operation.

5.2 Adjusting Limit Switches

The electromagnetism limit switches define the open and closed positions of your gate. Adjust these switches to ensure the gate stops precisely at the desired points without over-traveling or hitting obstacles.

5.3 Auto-Close Settings

The auto-close feature can be configured to automatically close the gate after a user-defined delay. Refer to the control board settings in your manual to enable and adjust this function.

6. OPERATING INSTRUCTIONS

6.1 Using the Remote Control

Press the designated button on your remote control to open or close the gate. A single press typically initiates the movement, and another press can stop it.

6.2 Manual Release in Case of Power Loss

In the event of a power outage, use the provided manual release key to disengage the motor and operate the gate manually. Insert the key into the release mechanism and turn it as indicated to unlock the gate.



Image: A close-up view of the manual key release mechanism on the gate opener, showing the 'RELEASE' label and the keyhole for emergency manual operation.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your gate opener.

- **Cleanliness:** Keep the gear rack and drive gear free from dirt, debris, and ice.
- **Lubrication:** Periodically lubricate moving parts as recommended in the full manual.
- **Inspection:** Check all mounting hardware, electrical connections, and safety features regularly for wear or damage.
- **Battery Check (if applicable):** If using a backup battery system, ensure batteries are charged and in good condition.

8. TROUBLESHOOTING

If you encounter issues with your ALEKO AR900 gate opener, refer to the following common

troubleshooting steps:

Problem	Possible Cause	Solution
Gate does not move	No power, remote battery dead, safety sensor obstructed, manual release engaged.	Check power supply, replace remote battery, clear sensor path, disengage manual release.
Gate stops unexpectedly	Obstruction detected, limit switch issue, motor overheating.	Remove obstruction, check limit switch settings, allow motor to cool.
Remote control not working	Battery dead, remote out of range, remote not paired.	Replace battery, move closer to opener, re-pair remote (see Section 5.1).
Gate opens/closes partially	Limit switches incorrectly set, obstruction.	Adjust limit switches, check for obstructions.

For more complex issues, consult the complete troubleshooting guide in your user manual or contact ALEKO customer support.

9. SPECIFICATIONS

- **Manufacturer:** ALEKO
- **Part Number:** AR900NOR-APE
- **Item Weight:** 18.76 pounds
- **Product Dimensions:** 12 x 15 x 12 inches
- **Item Model Number:** AR900NOR-APE
- **Size:** AR900
- **Power Source:** Corded Electric
- **Included Components:** (1) AR900NOR Sliding Gear Driven Opener ONLY

10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the warranty card included with your product or visit the official ALEKO website. You can also contact ALEKO customer service directly for assistance with installation, operation, or troubleshooting.