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LIAMOS MK1102/230V

LIAMOS MK1102/230V Dual Swing Gate Opener User Manual

Model: MK1102/230V

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the LIAMOS MK1102/230V Dual Swing Gate Opener. This system is designed for automating dual swing gates, supporting up to 300kgs per leaf. It features AC power input with provisions for battery backup (battery not included) in case of power failure. Please read this manual thoroughly before installation and operation to ensure safe and efficient use of the product.



Figure 1.1: Complete LIAMOS MK1102/230V Dual Swing Gate Opener Kit, including two swing arms, control box, remote controls, and various mounting hardware.

2. Safety Information

Adherence to safety guidelines is crucial for preventing injury and damage. Always observe the following precautions:

- Ensure all electrical connections are made by a qualified electrician and comply with local electrical codes.
- Disconnect power before performing any maintenance or service.
- Keep hands, feet, and clothing clear of the gate and opener mechanisms during operation.
- Do not allow children to play with or operate the gate opener controls.
- Install warning signs (included) in visible locations to alert others of automatic gate operation.
- Regularly inspect the gate and opener for signs of wear, damage, or obstruction.
- In case of power failure, use the emergency release key to manually operate the gate.
- The system features a stop/reverse function in case of obstruction during gate opening/closing. However, always exercise caution.

3. Package Contents

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

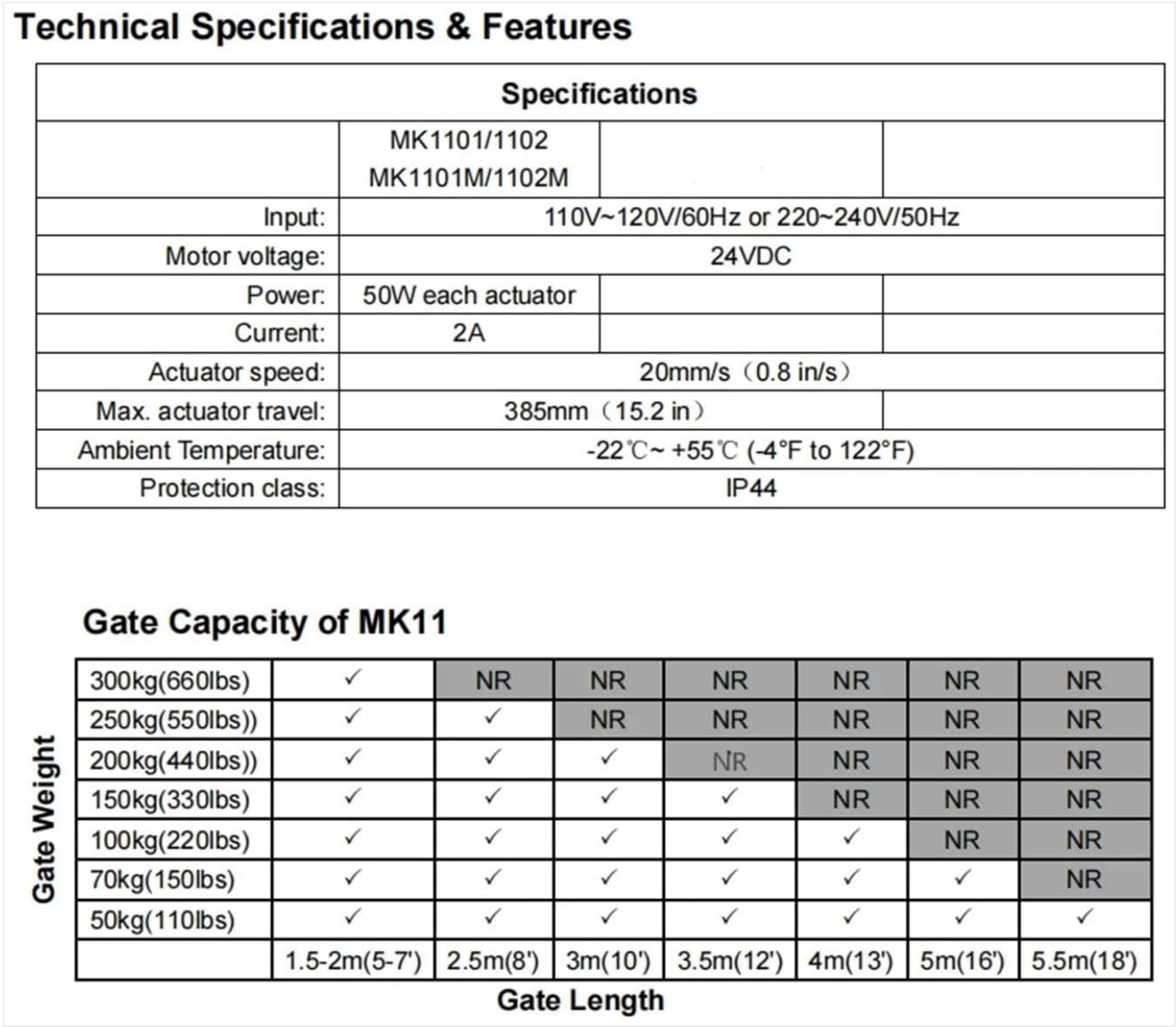


Figure 3.1: Detailed breakdown of included components and mounting hardware.

- 2 x Swing Arms (Gate Opener, MK1102/1302 model)
- 1 x Control Box
- 2 x Remote Controllers (CE Remote Control)
- 2 x Manual Release Keys
- 4 x Warning Signs
- 4 x Post Brackets
- 2 x Post Pivot Brackets
- 2 x Gate Brackets
- Mounting Hardware Kit (various bolts, nuts, washers, clevis pins, hairpin clip)
- Installation Manual (this document)

4. Specifications

Key technical specifications for the MK1102/230V Dual Swing Gate Opener:



Technical Specifications & Features

Specifications			
	MK1101/1102 MK1101M/1102M		
Input:	110V~120V/60Hz or 220~240V/50Hz		
Motor voltage:	24VDC		
Power:	50W each actuator		
Current:	2A		
Actuator speed:	20mm/s（0.8 in/s）		
Max. actuator travel:	385mm（15.2 in）		
Ambient Temperature:	-22℃~ +55℃ (-4°F to 122°F)		
Protection class:	IP44		

Gate Capacity of MK11

Gate Weight	1.5-2m(5-7')	2.5m(8')	3m(10')	3.5m(12')	4m(13')	5m(16')	5.5m(18')
300kg(660lbs)	✓	NR	NR	NR	NR	NR	NR
250kg(550lbs))	✓	✓	NR	NR	NR	NR	NR
200kg(440lbs))	✓	✓	✓	NR	NR	NR	NR
150kg(330lbs)	✓	✓	✓	✓	NR	NR	NR
100kg(220lbs)	✓	✓	✓	✓	✓	NR	NR
70kg(150lbs)	✓	✓	✓	✓	✓	✓	NR
50kg(110lbs)	✓	✓	✓	✓	✓	✓	✓

Gate Length

Figure 4.1: Technical Specifications and Features.

Feature	Specification
Model	MK1102/230V
Input Voltage	220~240V/50Hz (AC Powered)
Motor Voltage	24VDC
Power (each actuator)	50W
Current	2A
Actuator Speed	20mm/s (0.8 in/s)
Max. Actuator Travel	385mm (15.2 in)
Ambient Temperature	-22°C ~ +55°C (-4°F to 122°F)
Protection Class	IP44

Feature	Specification
Max Gate Weight (per leaf)	300kgs (660lbs)
Item Weight	10 Grams (Note: This seems to be for a small component, not the full kit. Refer to shipping weight for full kit.)
Assembly Required	Yes
Color	Silver



Figure 4.2: Actuator Dimensions (Extended and Retracted).

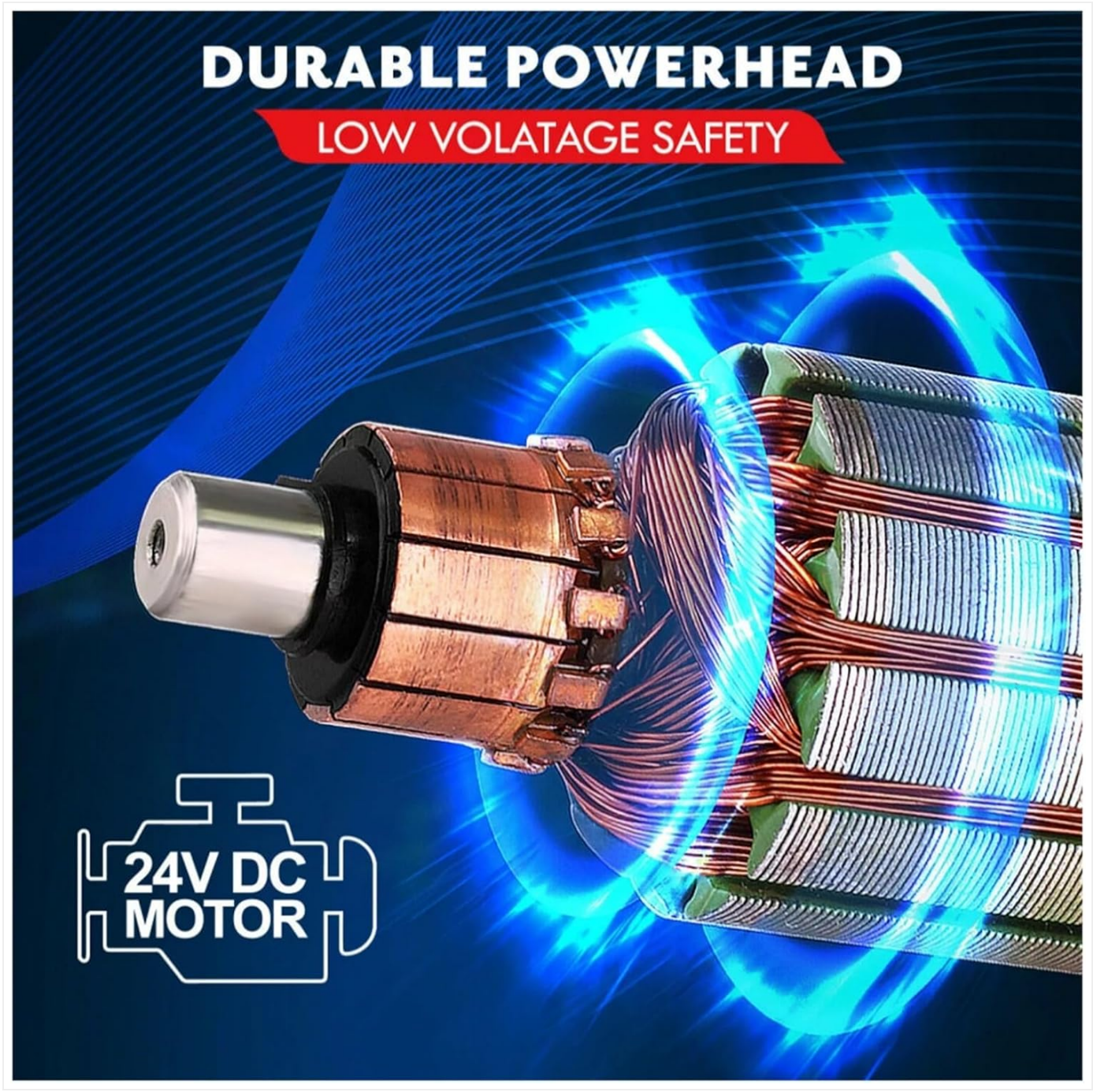


Figure 4.3: Durable 24V DC Motor Powerhead.

5. Setup and Installation

This section outlines the general steps for installing your dual swing gate opener. Detailed diagrams and specific measurements should be referenced from the separate installation guide provided with the product. Professional installation is recommended.

1. **Site Preparation:** Ensure the gate posts and gate leaves are structurally sound and can support the weight and forces of the opener. Clear any obstructions from the gate's path.
2. **Mounting Actuators:**
    - Attach the post brackets to the gate posts using appropriate fasteners.
    - Attach the gate brackets to the gate leaves.
    - Mount the two swing arms (actuators) to the installed brackets, ensuring they are level and aligned for smooth operation. Refer to the dimensions in Figure 4.2 for proper placement.

3. **Control Box Installation:** Mount the control box in a secure, weather-protected location near the gate, ensuring easy access for wiring and adjustments.
4. **Electrical Wiring:**
    - Connect the 230V AC main power supply to the control box.
    - Wire the two actuators to the control box according to the wiring diagram in the detailed installation manual.
    - If using a backup battery (not included), connect it to the designated terminals in the control box.
    - Connect any optional accessories such as safety beams, keypads, or intercoms.
5. **Limit Switch Adjustment:** The system features reliable electromagnetism limits. Adjust these limits to define the fully open and fully closed positions for both gate leaves. This is crucial for proper operation and safety.
6. **Remote Control Pairing:** Follow the instructions in the control box manual to pair the included remote controllers with the system.
7. **Final Checks:** Before initial operation, manually check that the gate moves freely without obstruction. Ensure all connections are secure and all safety devices are functioning.



Figure 5.1: Example of an installed dual swing gate opener system.

6. Operating Instructions

The LIAMOS MK1102/230V gate opener offers various operational features for convenience and safety.

6.1. Basic Operation

- **Opening/Closing:** Press the designated button on the remote control to initiate gate movement. The gate will perform a soft start and soft stop for smooth operation.
- **Stopping:** Press the remote button again during gate movement to stop the gate at any point.
- **Emergency Release:** In case of power failure or system malfunction, insert the manual release key into the actuator and turn it to disengage the motor, allowing the gate to be opened or closed manually.

6.2. Advanced Features

- **Dual/Single Gate Running Mode:** The control box allows configuration for either dual gate operation (both leaves open/close simultaneously) or single gate operation (one leaf opens/closes for pedestrian access). Refer to the control box manual for mode selection.
- **Adjustable Opening/Closing Interval:** The interval between the master and slave gate can be adjusted, allowing one gate to start moving slightly before or after the other.
- **Obstruction Detection:** The system is designed to stop or reverse if an obstruction is detected during gate opening or closing, enhancing safety.
- **Adjustable Auto-Close:** The built-in auto-close feature can be configured to automatically close the gate after a set period of time once it has opened.
- **Digital Display:** The control box features a digital display that indicates the current running situation and provides access to the setting menu for various parameters.
- **Max Motor Running Time (MRT):** The maximum motor running time is adjustable, providing multiple safety protections by preventing the motor from running indefinitely if an issue occurs.

7. Maintenance

Regular maintenance ensures the longevity and reliable operation of your gate opener. Perform these checks periodically:

- **Cleanliness:** Keep the gate opener arms, control box, and surrounding area free from dirt, debris, and vegetation.
- **Lubrication:** Periodically lubricate moving parts of the gate and the opener arms as recommended in the detailed installation manual.
- **Hardware Check:** Inspect all mounting bolts, screws, and connections for tightness. Tighten any loose fasteners.
- **Cable Inspection:** Check all electrical cables for signs of wear, fraying, or damage. Replace damaged cables immediately.
- **Safety Feature Test:** Regularly test the obstruction detection feature and ensure safety beams (if installed) are functioning correctly.
- **Battery Backup (if applicable):** If a backup battery is installed, check its charge and condition periodically.

8. Troubleshooting

This section addresses common issues you might encounter. For more complex problems, contact technical support.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Gate does not respond to remote.	Dead remote battery; remote not paired; power outage; control box issue.	Replace remote battery; re-pair remote; check main power supply; check control box display for error codes.
Gate opens partially or stops unexpectedly.	Obstruction; incorrect limit switch setting; low power.	Clear obstructions; re-adjust limit switches; check power supply and connections.
Gate reverses during closing.	Obstruction detected; safety beam blocked or misaligned.	Remove obstruction; check and align safety beams.
Gate operates slowly or with difficulty.	Lack of lubrication; worn components; gate hinges stiff.	Lubricate gate hinges and opener parts; inspect for worn parts; ensure gate moves freely manually.
Control box display shows an error.	Specific system fault.	Refer to the control box manual for specific error code meanings and solutions.

9. Warranty and Support

For warranty information, please refer to the documentation provided at the time of purchase or contact the manufacturer directly. For technical support, inquiries, or assistance with parts, please use the contact information below:

Manufacturer: LIAMOS
Contact Person: Miranda Wang
Phone: +86 18969009139
Email: mirandaw@sanfordtools.com

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Details

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