

VIKING K2

Viking K2 Sliding Gate Opener User Manual

Model: K2 - New Generation

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Viking K2 Sliding Gate Opener. The K2 is a residential slide gate operator designed for reliable performance, featuring advanced control technology and safety compliance.



Image 1: The Viking K2 Sliding Gate Operator, showing both the external casing and the internal control board and motor assembly.

2. SAFETY INFORMATION

WARNING: Read and understand all instructions before installation and operation. Failure to follow these instructions may result in serious injury or property damage.

- The Viking K2 operator complies with UL325-2016 safety standards.
- A monitored safety photocell is **required** for operation to prevent accidental crushing or entrapment. This photocell is included with your unit.
- Ensure all safety devices are properly installed and tested before operating the gate.
- Keep hands and clothing clear of the gate and operator at all times.
- Do not allow children to play near the gate or operate the controls.



Image 2: Internal view of the Viking K2 Sliding Gate Opener, highlighting the motor and control board, alongside a separate safety photocell unit.

3. PRODUCT FEATURES

- **VFlex Control Board:** Features on-board diagnostics LCD display for easy setup and troubleshooting.
- **Digital Limits Setup:** Simple push-button digital limit configuration.

- **Built-in Heater:** Ensures reliable operation in various climates.
- **High Gate Capacity:** Supports gates up to 700 lbs. and 30 feet in length.
- **Battery Backup System:** Provides continuous operation during power failures. Includes two 12 DC batteries.
- **Solar Energy Efficient:** Compatible with 24 AC/DC solar power systems for low voltage installations.
- **Safety Compliance:** ETL and UL listed, meeting UL325-2016 standards.
- **Convenient Access:** Easy fuse access and LED status indicators for incoming high voltage.
- **Operational Voltage:** 24 DC.
- **Main Power Source:** 115 / 230 AC Single Phase.
- **Max Operating Speed:** 12 inches per second.

4. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Viking K2 Sliding Gate Operator unit
- Safety Photocell (monitored, UL325-2016 compliant)
- Two 12 DC backup batteries
- Installation hardware (refer to separate hardware list in packaging)
- User Manual (this document)

5. SETUP AND INSTALLATION

Installation of the Viking K2 Sliding Gate Opener requires electrical and mechanical expertise. If you are not qualified, seek assistance from a professional installer.

5.1 Site Preparation

- Ensure the gate track is level and clear of obstructions.
- Verify the gate moves freely by hand before installing the operator.

5.2 Mounting the Operator

- Mount the operator on a stable, level concrete pad or equivalent foundation.
- Ensure proper alignment with the gate rack.

5.3 Electrical Connections

- Connect the main power source (115 / 230 AC Single Phase) to the designated terminals on the VFlex control board.
- Install the two 12 DC backup batteries, ensuring correct polarity.
- For solar installations, connect the 24 AC/DC solar power system to the appropriate terminals.
- **Safety Photocell:** Connect the included monitored safety photocell according to the wiring diagram provided in the full installation manual. The gate operator will not function without this safety device properly connected.

5.4 Digital Limits Setup

- Refer to the VFlex control board's LCD display and push-button interface for setting the gate's open and close limits.

- Follow the on-screen prompts for precise limit adjustment.

6. OPERATING INSTRUCTIONS

Once installed and configured, the Viking K2 Sliding Gate Opener can be operated via various access control devices (e.g., remote controls, keypads, loop detectors) connected to the VFlex control board.

- **Opening/Closing:** Activate the gate using your chosen access device. The gate will move to its programmed open or close limit.
- **Safety Reversal:** If the safety photocell beam is interrupted during closing, the gate will stop and reverse to the open position.
- **Power Failure Operation:** The built-in battery backup system will automatically engage during a power outage, allowing for continued gate operation.
- **Manual Release:** In case of complete system failure, refer to the full installation manual for instructions on how to manually disengage the gate operator to move the gate by hand.

7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your gate opener.

- **Monthly:** Inspect the gate for proper movement, ensuring no binding or excessive friction. Check all safety devices, including the photocell, for proper function.
- **Quarterly:** Clean the gate track and operator area. Check electrical connections for corrosion or looseness. Test the battery backup system by disconnecting main power and operating the gate.
- **Annually:** Have a qualified technician inspect the entire system, including motor, gearbox, and control board, for wear and tear.

8. TROUBLESHOOTING

This section provides solutions to common issues. For complex problems, contact technical support.

- **Gate Not Moving:**
 - Check main power supply and circuit breaker.
 - Verify the safety photocell is aligned and not obstructed. The VFlex display may show an error code.
 - Check battery connections and charge level.
- **Gate Stops Mid-Cycle:**
 - Inspect the gate path for obstructions.
 - Check for excessive friction in the gate's movement.
 - Review VFlex display for diagnostic messages.
- **Remote Control Not Working:**
 - Replace remote control batteries.
 - Ensure the remote is programmed correctly to the operator.

9. SPECIFICATIONS

Feature	Specification
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Manufacturer	Viking Access
Model Number	K2 - New Generation
Part Number	k-2
Item Weight	98 pounds
Horsepower	0.5 Horsepower
Operational Voltage	24 DC
Main Power Source	115 / 230 AC Single Phase
Battery Backup	100 Full Continuous Duty Cycle (700 lbs)
Solar Compatible	24 AC/DC
Batteries Included	Two 12 DC batteries
Max Gate Capacity	700 lbs. / 30 feet
Max Operating Speed	12 inches per Second
Safety Compliance	UL325-2016, ETL Listed

10. WARRANTY AND SUPPORT

The Viking K2 Sliding Gate Opener comes with a **5-Year Residential Warranty**. For warranty claims or technical assistance, please contact Viking Access customer support. Keep your proof of purchase for warranty validation. For further support, visit the official Viking Access website or contact their customer service department.