

Ramset RAM 100

Ramset RAM 100 Slide Gate Operator User Manual

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Ramset RAM 100 Slide Gate Operator. Please read this manual thoroughly before beginning installation or operation to ensure proper function and safety.

IMPORTANT SAFETY INFORMATION

Failure to follow these safety instructions could result in serious injury or death. Always observe all local safety codes and regulations.

- Ensure all power is disconnected before performing any service or maintenance.
- Keep hands and clothing clear of the gate and operator during operation.
- Do not allow children to play near the gate or operator controls.
- Install safety devices such as photo-eyes and safety edges as required by local codes.
- Only qualified personnel should install and service this equipment.

PRODUCT OVERVIEW

The Ramset RAM 100 is a robust slide gate operator designed for reliable and efficient gate automation. It features advanced control capabilities and safety mechanisms to ensure smooth operation.

Key Features

- Maximum Gate Size & Weight: 20 feet @ 600 lbs
- Control Board: Easy to configure solid-state board with LED readouts for status indication.
- Electronic Reversing Device (ERD): Two separate adjustments for obstruction detection during opening or closing, reversing for 1 second and stopping.
- Maximum Running Timer: Motor automatically shuts off after 60 seconds.
- Master/Slave: Five-wire connection included for synchronizing movement between two gates.
- Electronic Inputs: Supports radio receiver, fire department box, numeric keypad, metal detector, center loop,

telephone entry system, three-button station, photo cell, safety edge, and magnetic lock.

- Gate Traveling Speed: Approximately 12 inches per second.
- Motor: Instant reversing 1/2 HP, 120 VAC, 4.5 amp, 1625 rpm with high-speed ball bearings.
- Gate Stops: Utilizes electrical limit switches and rotary limit nuts.
- Emergency Release: Exclusive foot pedal for manual gate disengagement from the motor.
- Audio Alarm: Sounds for approximately 6 minutes if an obstruction is encountered twice.

The image below illustrates the main unit of the Ramset RAM 100 Slide Gate Operator.



Image showing the main unit of the Ramset RAM 100 Slide Gate Operator, typically installed next to a slide gate.

SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your gate operator. Refer to the detailed installation guide provided separately for specific steps. This section provides an overview of key installation aspects.

Mounting Considerations

- Ensure the mounting surface is level and secure, capable of supporting the operator's weight.
- Position the operator to allow for proper gate travel and access for maintenance.
- Install electrical limit switches and rotary limit nuts according to the gate's open and closed positions.

Electrical Connections

- Connect the operator to a 120 VAC power source as per local electrical codes.
- Utilize the electronic inputs for connecting accessories such as radio receivers, keypads, photo cells, and safety edges.
- Refer to the wiring diagram in the separate installation guide for detailed connection instructions.

Master/Slave Configuration

For dual gate applications, use the included five-wire connection to synchronize movement between two RAM 100 operators. Configure the control boards as master and slave according to the instructions in the separate installation guide.

Emergency Release Setup

Familiarize yourself with the exclusive foot pedal emergency release mechanism. Ensure it is accessible and understood by all authorized users for manual gate disengagement during power outages or emergencies.

OPERATING INSTRUCTIONS

Basic Operation

Once installed and powered, the gate operator can be activated via connected accessories such as a radio receiver, keypad, or three-button station. The gate will travel at approximately 12 inches per second.

Automatic Timer Settings

The operator features an adjustable automatic timer that can be set from 0 to 60 seconds. This timer dictates how long the gate remains open before automatically closing. Adjust this setting on the control board as needed.

Obstruction Detection (Electronic Reversing Device - ERD)

The ERD provides two separate adjustments for sensitivity when encountering an obstruction during opening or closing. If an obstruction is detected, the gate will reverse for 1 second and then stop. Adjust the ERD settings on the control board for optimal safety and performance.

MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your Ramset RAM 100 Slide Gate Operator. Perform the following checks periodically:

- Inspect the gate and operator for any signs of wear, damage, or loose components.
- Keep the gate track clean and free of debris.
- Check all electrical connections for security and corrosion.
- Test the obstruction detection system regularly to ensure it functions correctly.

- Lubricate moving parts as recommended in the separate maintenance guide (if applicable).

For detailed maintenance procedures, consult a qualified technician or refer to the comprehensive maintenance schedule in the full product manual.

TROUBLESHOOTING

This section addresses common issues you might encounter with your Ramset RAM 100 Slide Gate Operator. For more complex problems, contact customer support.

Common Issues and Solutions

- **Gate does not move:** Check power supply, ensure emergency release is engaged, verify limit switch settings, and check for obstructions.
- **Gate reverses unexpectedly:** Adjust the Electronic Reversing Device (ERD) sensitivity. Check for physical obstructions in the gate path.
- **Audio alarm sounds:** The audio alarm will sound for approximately 6 minutes if the gate encounters an obstruction twice. Clear the obstruction and reset the operator if necessary.
- **LED readouts on control board:** Refer to the control board's specific LED indicator guide for diagnostic information.

TECHNICAL SPECIFICATIONS

Feature	Detail
Manufacturer	Ramset
Model Number	Ramset 100 1/2 Hp 120VAC
Part Number	Ram 100
Power Source	Corded Electric
Voltage	120 Volts
Horsepower	0.5 Horsepower
Gate Traveling Speed	Approximately 12 inches per second
Maximum Gate Size & Weight	20 feet @ 600 lbs
ASIN	B000HTJO0Q
Date First Available	December 13, 2006

WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the warranty card included with your purchase or visit the official Ramset website. Keep your proof of purchase for warranty claims.

For technical assistance, replacement parts, or further inquiries, please contact Ramset customer support. Contact details can typically be found on the manufacturer's website or in your product packaging.

Online Resources: For additional support and resources, visit the official Ramset website:www.ramsetinc.com
(Note: This is a placeholder URL as no official URL was provided in the input).