

Sje-Rhombus 1009923

Sje-Rhombus 1009923 Level Alarm System Instruction Manual

Model: 1009923

INTRODUCTION

The Sje-Rhombus 1009923 Level Alarm System is designed to monitor liquid levels in various applications such as lift pump chambers, sump pump basins, holding tanks, and sewage systems. This system provides an audible and visual alert when a potentially threatening liquid level condition is detected, ensuring timely awareness and intervention. The alarm features automatic reset capabilities and is suitable for both indoor and outdoor use.

SAFETY INFORMATION

WARNING: Electrical shock hazard. Disconnect power before installing or servicing this unit. All electrical work should be performed by a qualified electrician and comply with local and national electrical codes. Ensure the alarm system is installed on a separate circuit from the pump circuit to maintain functionality even if the pump circuit fails.

PACKAGE CONTENTS

- (1) Sje-Rhombus 1009923 Level Alarm Unit
- (1) SignalMaster High-Level (normally open) Control Switch with 15 feet of cable
- Mounting Clamp for float switch

SETUP AND INSTALLATION

1. **Mounting the Alarm Unit:** Select a suitable location for the alarm unit, ensuring it is easily accessible and visible. The enclosure meets Type 3R water-tight standards, allowing for indoor or outdoor installation. Secure the unit firmly to a wall or flat surface using appropriate fasteners (not included).

2. Installing the Float Switch:

- Attach the SignalMaster high-level control switch to the mounting clamp.
- Position the float switch within the tank or basin at the desired high-level alarm point. Ensure the float can move freely without obstruction.
- Route the 15-foot cable from the float switch to the alarm unit, protecting it from damage.

3. Electrical Connection:

- Connect the alarm unit to a dedicated 120 VAC, 50/60 Hz power supply.
- Connect the SignalMaster float switch cable to the designated terminals within the alarm unit as per the wiring diagram provided inside the unit's enclosure.
- Verify all connections are secure and properly insulated.

4. Initial Power-Up: Once all connections are made, apply power to the alarm system. The "power on" light on the switch will illuminate, indicating the unit is receiving power.



Figure 1: Sje-Rhombus 1009923 Level Alarm system. This image displays the Sje-Rhombus 1009923 Level Alarm system, including the main alarm panel and the connected SignalMaster high-level control switch. The alarm panel features indicator lights and control buttons, while the float switch is designed for liquid level detection.

OPERATING INSTRUCTIONS

1. **Normal Operation:** When liquid levels are within acceptable limits, the alarm remains silent, and the red beacon is off. The "power on" light indicates the system is active.
2. **Alarm Condition:** If the liquid level rises to the point where the SignalMaster float switch activates, the alarm horn will sound at 85 decibels (at 10 feet), and the red beacon will illuminate.
3. **Silencing the Horn:** To silence the audible alarm, press the "Horn Silence" switch on the alarm panel. The horn will cease, but the red beacon will remain illuminated until the liquid level returns to a safe state.
4. **Automatic Reset:** Once the liquid level drops below the alarm point and the float switch deactivates, the alarm system will automatically reset. The red beacon will turn off, and the system will return to normal monitoring mode.
5. **Alarm Test:** To test the alarm functionality, press the "Alarm Test" switch on the panel. This will activate both the horn and the red beacon momentarily, confirming the system is operational.

MAINTENANCE

Regular maintenance ensures the reliable operation of your Sje-Rhombus Level Alarm System.

- **Monthly Inspection:** Visually inspect the alarm unit and float switch for any signs of damage, corrosion, or debris accumulation.
- **Float Switch Cleaning:** In applications with high solids or viscous liquids, periodically clean the float switch to ensure it moves freely and does not stick. Disconnect power before cleaning.
- **Functionality Test:** Perform the "Alarm Test" function monthly to confirm the horn and beacon are working correctly.
- **Wiring Check:** Annually, inspect all electrical connections for tightness and integrity.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Alarm horn does not sound.	No power; horn silence switch engaged; faulty horn; wiring issue.	Check power supply and "power on" light. Ensure horn silence switch is not engaged. Test alarm. Inspect wiring.
Red beacon does not illuminate.	No power; faulty beacon; wiring issue.	Check power supply. Test alarm. Inspect wiring.
Alarm does not reset automatically.	Liquid level still high; float switch stuck or faulty; wiring issue.	Verify liquid level has dropped. Inspect float switch for free movement and debris. Check float switch wiring.
"Power on" light is off.	No power to the unit.	Check circuit breaker and power outlet. Ensure power cord is securely plugged in.

If troubleshooting steps do not resolve the issue, contact Sje-Rhombus customer support.

SPECIFICATIONS

- **Model:** 1009923

- **Voltage:** 120 VAC, 50/60 Hz
- **Current Rating:** 5A (implied by product title, though not explicitly in description for the alarm itself, but typical for such devices)
- **Enclosure:** Type 3R water-tight (indoor/outdoor use)
- **Alarm Horn:** 85 decibels at 10 feet
- **Beacon:** UL listed, Type 4x
- **Float Switch:** SignalMaster high-level (normally open)
- **Float Dimensions:** 2.74" diameter x 4.83" length
- **Float Switch Cable Length:** 15 feet
- **Test/Silence Switch Certification:** IP66 and IP68
- **Certifications:** UL listed, CSA certified
- **Mounting Type:** Wall Mount
- **Power Source:** Corded Electric
- **Item Weight:** Approximately 0.01 ounces (Note: This seems unusually low for the entire unit, likely refers to a component or is an error in source data.)

WARRANTY INFORMATION

The Sje-Rhombus 1009923 Level Alarm System comes with a **Five-year limited warranty**. For detailed terms and conditions, please refer to the warranty documentation included with your product or contact Sje-Rhombus customer support.

CUSTOMER SUPPORT

For technical assistance, replacement parts, or warranty claims, please contact Sje-Rhombus customer support directly. Refer to the contact information provided on the product packaging or the official Sje-Rhombus website.