

VIKING LV-1K

Viking Electronics LV-1K Line Verification Panel Instruction Manual

1. PRODUCT OVERVIEW

The Viking Electronics LV-1K is a specialized Line Verification Panel designed to meet the requirements of the ASME A17.1-2010 code. This code mandates that two-way communication systems within elevator cars must include a mechanism to verify the operability of the telephone line. The LV-1K provides visual and audible signaling when the elevator phone line is determined to be non-functional, ensuring compliance with safety standards.

This panel integrates multiple functionalities into a single unit, offering a comprehensive solution for elevator communication line monitoring.

2. KEY FEATURES

- **ASME A17.1-2010 Code Compliance:** Specifically designed to fulfill the requirements for verifying elevator telephone line operability.
- **Visual and Audible Signaling:** Provides clear indications when the telephone line is not functioning correctly.
- **Integrated Functionality:** Combines multiple essential features into one compact panel.
- **Key Switch Operation:** Incorporates a key switch for controlled access and operation.

3. INSTALLATION

3.1 Unpacking and Inspection

Carefully unpack the LV-1K unit and inspect it for any signs of damage that may have occurred during shipping. Report any damage to your supplier immediately.

3.2 Mounting

The LV-1K should be mounted in a secure, accessible location, typically within the elevator machine room or control panel, where its indicators are visible and audible signals can be heard. Ensure adequate ventilation and protection from environmental factors such as excessive moisture or dust.



Figure 1: Front view of the Viking LV-1K Line Verification Panel. This image displays the panel's enclosure, indicators, and the integrated key switching, which are essential for its operation and compliance with safety standards.

3.3 Wiring

Connect the LV-1K to the elevator communication line and power source according to the detailed wiring diagrams provided in the separate installation guide. Ensure all connections are secure and comply with local electrical codes. Professional installation is recommended.

4. OPERATION

The LV-1K continuously monitors the operability of the elevator telephone line. When the system detects that the line is not functioning as required by ASME A17.1-2010, it will activate both visual and audible indicators.

- **Visual Indication:** A dedicated indicator light on the panel will illuminate to signal a line fault.
- **Audible Alarm:** An audible alert will sound to draw attention to the line malfunction.

The key switch provides a means to acknowledge or reset the alarm, or to perform diagnostic checks as specified in the full technical documentation.

5. MAINTENANCE

To ensure the continued reliable operation of your LV-1K Line Verification Panel, regular maintenance is recommended.

- **Periodic Inspection:** Visually inspect the unit and its connections for any signs of wear, damage, or loose wiring at least annually.
- **Cleaning:** Keep the panel clean and free of dust and debris. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Functional Testing:** Periodically test the line verification function as per local regulations and the full product manual to ensure indicators and alarms are working correctly.

6. TROUBLESHOOTING

If the LV-1K panel indicates a line fault, follow these basic troubleshooting steps:

- **Verify Power:** Ensure the unit is receiving adequate power. Check power connections and fuses if applicable.
- **Check Line Connections:** Inspect all telephone line connections to the LV-1K for looseness or damage.
- **Consult Elevator Technician:** If the fault persists, contact a qualified elevator technician to diagnose the elevator communication line and associated equipment.
- **Contact Viking Technical Support:** For further assistance, refer to the contact information provided in the full product documentation.

7. SPECIFICATIONS

Model Number	LV-1K
Product Dimensions	10 x 5 x 6 inches
Item Weight	1.6 pounds
Manufacturer	Viking Components
Date First Available	April 23, 2014

8. SAFETY INFORMATION

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, please refer to the Proposition 65 warnings.

9. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the documentation included with your product or visit the official Viking Electronics website. Technical support is available through Viking Electronics customer service channels.