

## LM-24D Line Status Display

May 27, 2025

# Line Status Display for Use with Viking LC-6 Line Concentrator

The **LC-6** Line Concentrator has a two position terminal block for connecting one or two optional Viking model **LM-24D** displays.

The **LM-24D** display provide a visual status of all the phones and the telephone line.

The LM-24D displays are useful for personnel using the Fire Floor phone, Machine Room phone, and/or Lobby phones. The LC-6 can power up to three LM-24D displays.



#### **Features**

- Adjustable display viewing angle for desk or wall mounting
- Displays require only a single pair of wires
- User printable extension identification cards
- · Adjustable audio volume
- · Quick installation

## **Applications**

 Monitors the status of Viking LC-6 Line Concentrator to show the status of all ports.

## **Specifications**

**Dimensions:** 7.25" x 4.7" x 1.5" (184mm x

119mm x 38mm)

**Shipping Weight:** 1.3 lbs (0.59 Kg) **Environmental:** 32°F to 90°F (0°C to 32°C) with 5% to 95% non-condensing

humidity

Connections: (1) RJ11 jack

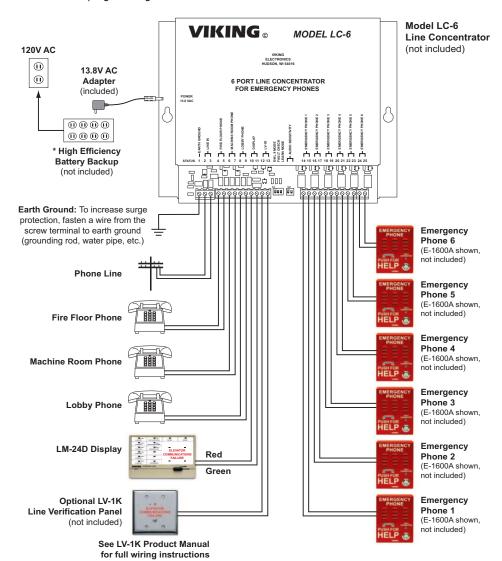
Maximum Display Runs (24 gauge wire):

(1) display: 500 ft (244m) (2) displays: 400 ft (122m) (3) displays: 200 ft (61m)

www.VikingElectronics.com Information: 715-386-8861

#### Installation

**IMPORTANT:** This document should be used in conjunction with the **LC-6** Product Manual for complete installation and programming instructions.



#### \* TRIPP-LITE model INTERNET550U

This specific battery backup is chosen because it runs at a rated 99% efficiency. Battery backups that are not as ef-ficient will waste battery power and not run as long. This TRIPP-LITE model INTERNET550U has been bench tested to run the **LC-6** for more than 4 hours under the worst case condition (all 9 phones, the telephone line and display continuously in use). Other high efficiency battery backups with equal or longer runtime ratings are TRIPP-LITE models: INTERNET550SCR, INTERNET750U, ECO550UPS, ECO650UPS, ECO750UPS, ECO850UPS and AVR750U.

## Operation

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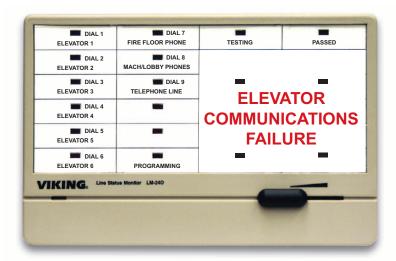
## A. Using the LM-24D with the LC-6

The **LC-6** has a two position terminal block for connecting up to three optional Viking model **LM-24D** displays. The optional displays provide a visual status of all the phones and the telephone line. When in use, the corresponding LED will light steady, and a ringing phone will show as a flashing LED. Emergency phones that are conference bridged into an existing emergency phone conversation, are displayed as a lit LED that winks once every few seconds.

The **LM-24D** displays will also show the testing status during the line verification tests. When all line verification tests pass, the "PASSED" LED will light. If a fault is found, the **LM-24D** displays will flash "ELEVATOR COMMUNICATIONS FAILURE" along with the line(s) that failed, and an audible signal tone will sound. The volume control on the front of the **LM-24D** display can be used to control the volume of the audible signal tone.

The optional **LM-24D** displays are useful for personnel using the Fire Floor phone, Machine Room phone, and/or Lobby phones. The **LC-6** can power up to three **LM-24D** displays. Displays that are run greater than 400 ft (122 m) away may need a Viking model **PS-2** 12VDC power supply added for proper operation. With the power supply added, run lengths of up to 800 ft (244 m) can be achieved

Fill out the LM-24D Identification Card as shown below:



#### **B.** Line Verification Test

In accordance to ASME A17.1, the **LC-6** has the ability to check the incoming telephone line for operability on a daily basis. The lines running from the **LC-6** to each of the Viking **1600A Series** emergency phones will also be tested at this same time.

The LC-6 verifies the telephone line has loop current, and that each of the emergency phones will answer an incoming call. When a fault is detected, an audible and illuminated visual alarm showing "ELEVATOR COMMUNICATIONS FAILURE" will display on both the optional LM-24D displays and the optional LV-1K line verification alarm panel. Once the fault is corrected, the alarm state will clear within two minutes.

## **Related Products**

## Line Verification Panel with Key Switch

ASME A17.1-2013 code requires that "the two-way communications means within the (elevator) car shall include a means to verify operability of the telephone line". When your local municipality adopts this ASME A17.1 code the **LV-1K** can be added to fulfill all requirements for visual and audible signaling when it is determined the telephone line is not functioning.

For more information:

https://vikingelectronics.com/products/lv-1k/



## Warranty

#### IF YOU HAVE A PROBLEM WITH A VIKING PRODUCT, CONTACT VIKING TECHNICAL SUPPORT AT: 715-386-8666

Our Technical Support Department is available for assistance Monday to Friday 8:00am - 5:00pm central time. Before you call, please:

- 1. Know the model number, the serial number, and what software version you have (see serial label).
- 2. Have the Product Manual in front of you.
- 3. It is best if you are on site.

#### RETURNING PRODUCT FOR REPAIR

The following procedure is for equipment that needs repair:

- Customer must contact Viking's Technical Support Department at 715-386-8666 to obtain
  a Return Authorization (RA) number. The customer MUST have a complete description of
  the problem, with all pertinent information regarding the defect, such as options set, conditions, symptoms, methods to duplicate problem, frequency of failure, etc.
- 2. Packing: Return equipment in original box or in proper packing so that damage will not occur while in transit. The original product boxes are not designed for shipping an overpack box is required to prevent damage in transit. Static sensitive equipment such as a circuit board should be in an anti-static bag, sandwiched between foam and individually boxed. All equipment should be wrapped to avoid packing material lodging in or sticking to the equipment. Include ALL parts of the equipment. C.O.D. or freight collect shipments cannot be accepted. Ship cartons prepaid to: VIKING ELECTRONICS

1531 INDUSTRIAL STREET HUDSON, WI 54016

- Return shipping address: Be sure to include your return shipping address inside the box. We cannot ship to a PO Box.
- RA number on carton: In large printing, write the RA number on the outside of each carton being returned.

#### RETURNING PRODUCT FOR EXCHANGE

The following procedure is for equipment that has failed out-of-box (within 10 days of purchase):

- Customer must contact Viking's Technical Support at 715-386-8666 to determine possible causes for the problem. The customer MUST be able to step through recommended tests for diagnosis.
- If the Technical Support Product Specialist determines that the equipment is defective based on the customer's input and troubleshooting, a Return Authorization (RA) number will be issued. This number is valid for fourteen (14) calendar days from the date of issue.
- 3. After obtaining the RA number, return the approved equipment to your distributor. Please reference the RA number on the paperwork being shipped back with the unit(s), and also the outside of the shipping box. The original product boxes are not designed for shipping an overpack box is required to prevent damage in transit. Once your distributor receives the package, they will replace the product over the counter at no charge. The distributor will then return the product to Viking using the same RA number
- The distributor will NOT exchange this product without first obtaining the RA number from you. If you haven't followed the steps listed in 1, 2 and 3, be aware that you will have to pay a restocking charge.

#### TWO YEAR LIMITED WARRANTY

Viking warrants its products to be free from defects in the workmanship or materials, under normal use and service, for a period of two years from the date of purchase from any authorized Viking distributor. If at any time during the warranty period, the product is deemed defective or malfunctions, return the product to Viking Electronics, Inc., 1531 Industrial Street, Hudson, WI., 54016. Customer must contact Viking's Technical Support Department at 715-386-8666 to obtain a Return Authorization (RA) number.

This warranty does not cover any damage to the product due to lightning, over voltage, under voltage, accident, misuse, abuse, negligence or any damage caused by use of the product by the purchaser or others. This warranty does not cover non-EWP products that have been exposed to wet or corrosive environments. This warranty does not cover stainless steel surfaces that have not been properly maintained.

NO OTHÉR WARRANTIES. VIKING MAKES NO WARRANTIES RELATING TO ITS PRODUCTS OTHER THAN AS DESCRIBED ABOVE AND DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

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EXCLUSIVE REMEDY AND LIMITATION OF LIABILITY. WHETHER IN AN ACTION BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR ANY OTHER LEGAL THEORY, ANY LIABILITY OF VIKING SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF THE PRODUCT, OR AT VIKING'S OPTION. REFUND OF THE PURCHASE PRICE AS THE EXCLUSIVE REMEDY AND ANY LIABILITY OF VIKING SHALL BE SO LIMITED.

IT IS EXPRESSLY UNDERSTOOD AND AGREED THAT EACH AND EVERY PROVISION OF THIS AGREEMENT WHICH PROVIDES FOR DISCLAIMER OF WARRANTIES, EXCLUSION OF CONSEQUENTIAL DAMAGES, AND EXCLUSIVE REMEDY AND LIMITATION OF LIABILITY, ARE SEVERABLE FROM ANY OTHER PROVISION AND EACH PROVISION IS A SEPARABLE AND INDEPENDENT ELEMENT OF RISK ALLOCATION AND IS INTENDED TO BE ENFORCED AS SUCH.

#### **Product Support: 715-386-8666**

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