

Telecommunication Peripheral Products  
**Technical Practice**

**LM-12W**  
Wall Mounted  
Status Display  
January 19, 1998

## Provide Large, Easy to Read, Line or Message Status to Multiple Users

The **LM-12W** works in conjunction with Viking's **TMS-12A** Call Sequencer, **MLC-24** Message Lamp Controller or the **LM-24M** Line Status Monitor to provide large, easy to read, line status or message display.

Each **LM-12W** is equipped to display 12 stations and is housed in an attractive black painted frame. The large numbers can be seen only when turned on and are visible from over 30 feet away. Two **LM-12W**'s can be daisy chained to provide up to 24 stations of line or message status.



Sold by:



<http://www.VikingElectronics.com>

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### Features

- Large, red numbers with high intensity red back lighting
- Metal frame with a durable textured, black powder paint finish
- 600 ohm common audible output jack
- Relay output jack for triggering an external alarm device in cadence with the 600 ohm common audible output signal
- Daisy chain (2) LM-12W's to cover up to 24 stations (optional lens kit required for stations 13-24)
- Wall mountable
- **VR-1A** jack provided for additional on-hold alert when used in conjunction with a **TMS-12A** Call Sequencer (**TMS-12A** requires special software)

**Made in the U.S.A.**

### Applications

- Installations where multiple receptionist's are located in one general area.
- Provides incoming call status when used with a **TMS-12A\*** Call Sequencer
- Provides message waiting information when used with a **MLC-24\*** Message Lamp Controller
- Provides line or extension status when used with a **LM-24M\*** Line Status Monitor

\* **Note:** Two **LM-12W**'s are required when monitoring more than 12 lines

**Sales...(715) 386 - 8861**

### Specifications

**Power:** 120V AC/13.8V AC 1.25A UL listed adapter provided  
**Dimensions:** 102mm x 305mm x 53mm (4" x 12" x 2.1")  
**Shipping Weight:** 1.1 kg (2.5 lbs)  
**Environmental:** 0°C to 32°C (32°F to 90°F) with 5% to 95% non-condensing humidity  
**Connections:** (3) RJ14 jacks, (1) 3.5mm (1/8") audio jack  
**Display Digits:** 18mm (.7") tall with high intensity red back lighting  
**Visibility:** Approximately 9.1m (30 ft)  
**Mounting:** Wall mountable with (2) key hole mounting slots

# Installation

## Power Input

**Data Communications Input** - Input from primary **LM-12W**, **TMS-12A**, **LM-24M**, or **MLC-24**. Connect using a six wire RJ25 (3 line) modular cord.

**40 Pin Display Chip** - Factory installed in the **Z2A** socket to drive lines 1 - 12. Install in socket **Z2B** to drive lines 13 - 24.

**Common Audible Relay Enable** - Place the shunt on the left two pins to enable the common audible relay.

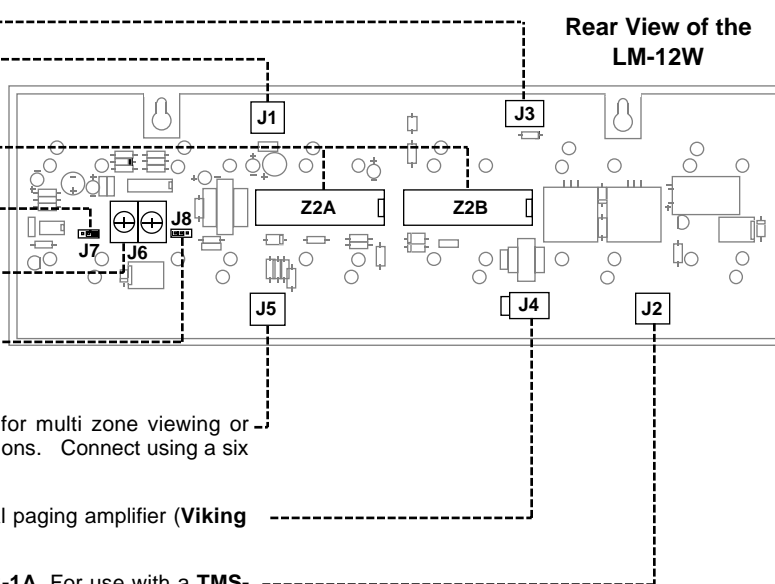
**Common Audible Relay Output** - N/O or N/C contact which activates in cadence with 600 OHM common audible.

**N/O or N/C Common Audible Relay** - Place the shunt on the left two pins for N/C relay output or place on the right two pins for N/O relay output.

**Power and Data Output** - Daisy chain additional **LM-12W**'s for multi zone viewing or connect to a second **LM-12W** to display line status on up to 24 stations. Connect using a six wire RJ25 (3 line) modular cord.

**600 Ohm Common Audible Output** - Connect to an optional paging amplifier (Viking models **M2W**, **PA-2A**, or **CPA-7A**).

**VR-1A Communications Output** - Connect to an optional **VR-1A**. For use with a **TMS-12A** only. Connect using a four wire RJ14 (2 line) modular cord.



## A. Connecting to a TMS-12A

Connect the V/BN wire pair from the **TMS-12A**'s (Fax Back Document 070) 25 pair cable to the red and green (center) pair of the **LM-12W**'s data communications input jack **J1** (see diagram above).

## B. Connecting to a LM-24M

Connect the red and green wire pair from the **LM-24M** (Fax Back Document 670) "COM" connector to the red and green (center) pair of the **LM-12W**'s data communications input jack **J1**. An additional **LM-12W** will be required to display lines 13-24 (see section F).

## C. Connecting to a MLC-24

Connect the red and green wire pair from the **MLC-24** (Fax Back Document 675) "COM" connector to the red and green (center) pair of the **LM-12W**'s data communications input jack **J1**. An additional **LM-12W** will be required to display lines 13-24 (see section F). **Note:** This modular cord must be a two wire (single line) cord only. Do not use a four or six wire.

## D. Connecting an Optional VR-1A

A **VR-1A** Visual Status Indicator (Fax Back Document 695) can be connected to **J2** on the **LM-12W**. The **VR-1A** will light to indicate one or more lines have exceeded the "On Hold" alarm timer on the **TMS-12A**.

## E. Connecting a Second LM-12W to Display up to 24 Stations (Requires LM-12W lens kit)

1. Power down the unit and disconnect all cables.
2. Remove the four button head screws using the hex key provided, making sure to hold the PCB in place.
3. Remove the PCB, foam, and the 1- 12 numbered lens.
4. Install the lens numbered 13-24 and reassemble.
5. Remove the 40 pin driver chip from socket **Z2A** and insert it in socket **Z2B** paying close attention not to bend legs or to insert the chip in the wrong direction. The chip should face in the same direction as **Z2A** (see diagram above).
6. Connect the output (**J5**) of the primary **LM-12W** (lines 1 - 12) to the input (**J1**) of the secondary **LM-12W** (lines 13 - 24) with a 3 line modular cord (**RJ25**) if the distance is less than 6 feet between the displays. If the distance is more than 6 feet, use a 2 line modular cord (**RJ14**) and plug a separate power supply into **J3**.

**Product Support Line...(715) 386-8666**

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