When used with an analog phone line, the VR-1B will provide “ring” indication, “on the phone” indication and “message waiting” indication for both “stutter dial tone” and standard message waiting voltage. In this application the VR-1B connects directly to tip and ring.

When used with electronic or digital phones, the VR-1B won’t have you guessing which phone is ringing in busy offices. The flashing LED can be seen up to 100 feet away. The VR-1B connects directly to the electronic phone’s speaker.

When used with a headset, you can end those nagging interruptions that occur when associates’ don’t realize you are on the phone because you are using a headset. The VR-1B will flash on and off indicating to everyone that you are on the phone and you are not to be disturbed. The VR-1B installs in the handset/headset jack using an included “T” adapter.

**Features**

- Indicates “ringing”, “on-the-phone” or “message waiting”
- LED visible up to 100 ft (30m)
- Power supply included
- Attractive new compact package
- Connects with a modular cord
- Special “T” adapter provided for handset applications
- Easy to install
- Six different modes of operation for enabling and disabling certain features (DIP switch selectable)
- Wall mount housing: (2) #6x3/4 panhead screws included

**Applications**

- Households
- Call centers
- Telemarketing
- Product support groups
- Office cubicles
- CO based voice messaging
- Purchasing departments
- Sales offices

**Specifications**

- **Power:** 120VAC / 12VDC 500mA, UL listed adapter provided
- **Dimensions:** 3.0” x 4.4” x 1.4” (76mm x 112mm x 36mm)
- **Shipping Weight:** 1.5 lbs (0.68 kg)
- **Environmental:** 32°F to 90°F (0°C to 32°C) with 5% to 95% non-condensing humidity
- **Light:** 0.75” (19mm) red LED
- **Visibility:** 100 ft (30m) typical
- **Message Waiting Voltage:** 90V - 125V
- **Connections:** (1) RJ11 jack,(4) cage clamp screw terminals
If you have a problem with a Viking product, please contact: Viking Technical Support at (715) 386-8666

Our Technical Support Department is available for assistance Monday through Friday 8am - 5pm central time. So that we can give you better service, before you call please:
1. Know the model number, the serial number and what software version you have (see serial label).
2. Have your Technical Practice 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:
1. 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. Static sensitive equipment such as a circuit board should be in an anti-static bag, sandwiched between foam and individual- ly 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
3. Return shipping address: Be sure to include your return shipping address inside the box. We cannot ship to a PO Box.
4. RA number on carton: In large printing, write the R.A. 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):
1. Customer must contact Viking’s Technical Support Department at 715-386-8666 to determine possible causes for the problem. The customer MUST be able to step through recommended tests for diagnosis.
2. 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 R.A. number, return the approved equipment to your distributor, referencing the R.A. number. Your distributor will then replace the product over the counter at no charge. The distributor will then return the product to Viking using the same R.A. number.
4. The distributor will NOT exchange this product without first obtaining the R.A. 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 five 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-EP products that have been exposed to wet or corrosive environments. This warranty does not cover stainless steel surfaces that have not been properly maintained.

FCC REQUIREMENTS

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the side of this equipment is a label that contains, among other information, a product identifier in the format USAAAGW#TXXXXX. If requested, this number must be provided to the telephone company.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive REN’s on a telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the REN’s should not exceed five (5.0). To be certain of the number of devices that may be connected to a telephone line, as deter- mined by the total REN’s, contact the local telephone company. For products approved after July 23, 2001, the REN for each model is assigned by the manufacturer. The REN for this product is 1.0. It is recommended that the customer install an AC surge arrester in the AC outlet to which this device is connected. This is to avoid damaging the equipment caused by local lightning strikes and other electrical surges.

Data compiled with Part 68 of the FCC rules and requirements adopted by the ACTA. In large printing, write the R.A. number on the outside of each carton being returned.

Installation

Modular installation

Internal view of the VR-1B

Hard Wire installation

Internal view of the VR-1B

12V DC Adapter (Included)
(2) #6x3/4 panhead screws (included)
CO Line, Analog Station or VoIP Analog Port
CO Line, Analog Station or VoIP Analog Port

IMPORTANT: Electronic devices are susceptible to lightning and power station electrical surges from both the AC outlet and the telephone line. It is recommended that a surge protector be installed to protect against such surges. Contact Panamax at (800) 472-5555 or Electronic Specialists Inc. at (800) 225-4876.
A. Analog Phones

Connect an analog phone line modular cord into the **VR-1B**’s "LINE IN" jack (or hardwire tip and ring to the screw terminals). Plug the 12V DC power supply into the **VR-1B**’s “12VDC” jack (or hardwire to the screw terminals). The **VR-1B** will flash to indicate ringing, light steady when the phone is off hook, follow the cadence of 90 to 125V message waiting voltage, and give a “stutter” flash if message waiting “stutter” dial tone is detected. The 4 position DIP Switch can be used to enable / disable different features as shown below. An optional “T” adapter can be used for the **VR-1B** to share the modular plug with a phone.

**Internal View of the VR-1B**

```
(2) #6 x 3/4 panhead screws (included)

“Stutter” dial tone detection may require adjusting the sensitivity. Start with this trim pot in the center position.
```

**Applications**

<table>
<thead>
<tr>
<th>Switch 1</th>
<th>Switch 2</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>OFF</td>
<td>Normal Mode (factory setting): The <strong>VR-1B</strong> functions as described above.</td>
</tr>
<tr>
<td>ON</td>
<td>OFF</td>
<td>Both ring detect and 90 to 125V message waiting voltage detect are disabled.</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
<td>Off hook detect is disabled.</td>
</tr>
<tr>
<td>ON</td>
<td>ON</td>
<td>PBX Stutter Dial Tone Detect Only Mode: Interrogates idle line for stutter dial tone every 30 seconds.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Switch  Position</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3     ON</td>
<td>Always-On Mode enabled: Whenever power is applied to the <strong>VR-1B</strong> the red LED will illuminate.</td>
</tr>
<tr>
<td>3     OFF</td>
<td>Normal Mode (factory setting).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Switch  Position</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4     ON</td>
<td>Disable stutter dial tone detect. The <strong>VR-1B</strong> will never interrogate the line for stutter dial tone.</td>
</tr>
<tr>
<td>4     OFF</td>
<td>Stutter dial tone detection functions normally (factory setting).</td>
</tr>
</tbody>
</table>
B. Headsets

Connect the receive pair (typically the inside pair) of an Electronic or Digital phone handset jack, using the special “T” adapter provided, to the “LINE IN” jack (or hardwire to the screw terminals), of the VR-1B. Plug the 12V DC power supply into the VR-1B’s “12VDC” jack (or hardwire to the screw terminals). When audio going to the handset or headset is detected, the VR-1B will flash to show others that you are on the phone.

C. Electronic and Digital Phones

Connect the speaker leads of an Electronic or Digital phone to the “LINE IN” jack (or hardwire to the screw terminals) of the VR-1B as shown below. Plug the 12V DC power supply into the VR-1B’s “12VDC” jack (or hardwire to the screw terminals). The speaker may be disconnected if a resistor of equal value is substituted. The VR-1B will flash to indicate ringing.