

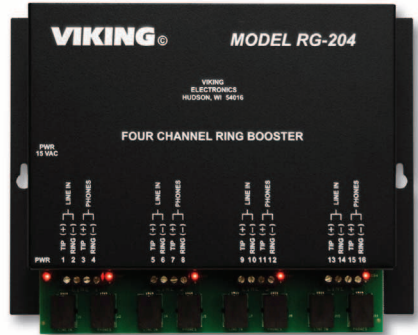
## *Boost the Ringing Power of 4 Analog PABX Stations, FXS Ports, or IP Phone System Analog Ports*

The **RG-204** ring generator is designed to reshape and increase the ringing power of up to 4 analog PABX extensions, FXS ports, IP phone system analog ports, or any other telecom devices which provides ringing.

The **RG-204** duplicates the incoming ring cadence allowing it to be compatible with custom ringing features.

Each line is capable of ringing four 1 REN or eight 0.5 REN telephones and does not affect normal operation of the telephone line or features, such as caller ID, call waiting, hookswitch flash features, CPC signaling, etc.

For larger multi-line applications, use Viking models **RG-212** (12 line) or **RG-224** (24 line). For single line applications, use the



Viking model **RG-4**. The Viking model **RG-10A** may be used for single line higher drive output applications up to 12 REN.

### Features

- True Sine wave ring signal output
- Boosts ring to 4 REN
- Caller ID compatible
- Easy installation
- Compatible with distinctive ringing services
- Will not affect normal line operation
- Reshapes troublesome square wave ringing
- Fax and modem compatible
- Not compatible with pulse dialing

### Applications

- Boosts ringing power of FXS port or IP phone system analog ports that are weak or fail
- Boost ring power on analog PABX / KSU stations that are weak or fail
- Reshapes troublesome distorted ringing signals

### Specifications

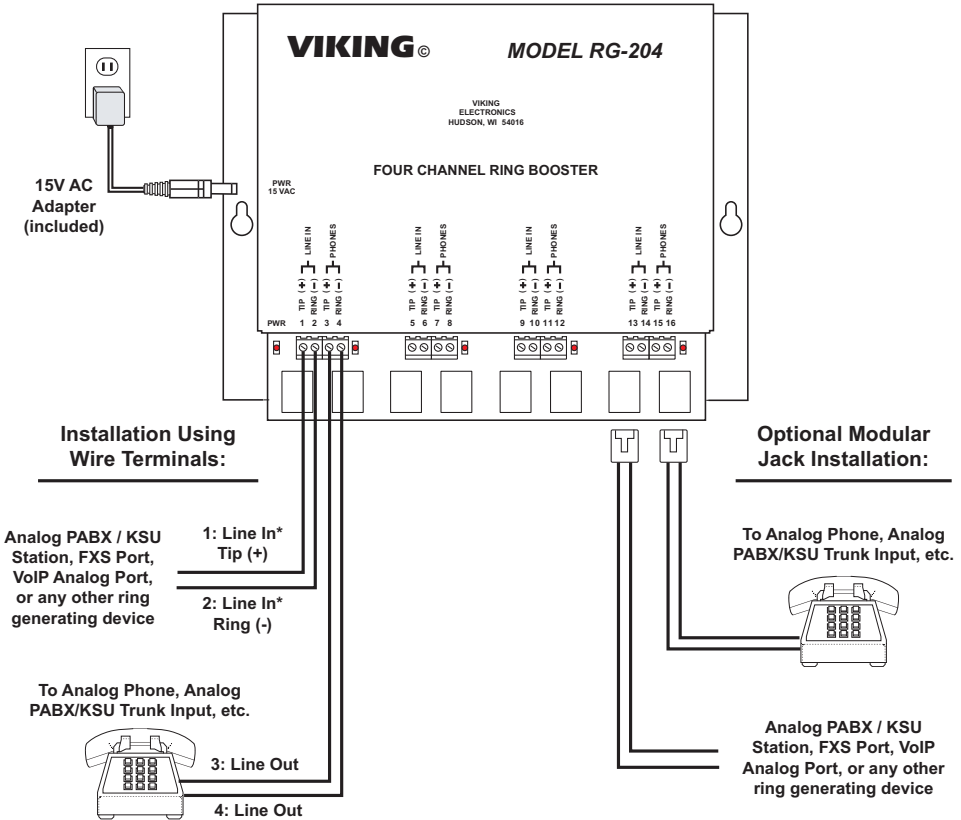
**Power:** 120V AC / 15V AC 2.2A UL listed adapter provided  
**Dimensions:** 8.75" x 6.25" x 1.75" (210mm x 159mm x 45mm)  
**Shipping Weight:** 3.2lbs (1.5kg)  
**Temperature:** 32°F to 90°F (0°C to 32°C)  
**Humidity:** with 5% to 95% non-condensing  
**Incoming Ring Detection:** 20-150 VAC  
**Ring Generator:** 90 VAC nominal, 55 VAC @ 4 REN load  
**Ringwave Shape:** Sine wave  
**Connections:** (8) RJ-14Jacks (16) screw terminals

[www.VikingElectronics.com](http://www.VikingElectronics.com)  
**Information: (715) 386-8861**

## Installation and Wiring



**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.



**\* IMPORTANT:** "LINE IN" is polarity sensitive. If wired in reverse polarity, the RG-204 may trip ringing after the first ring.

## Operation

The **RG-204** has 4 analog line circuits that pass through the unit. When any line is idle, the **RG-204** provides a "copper-thru" path from input to output. Whenever the **RG-204** detects a ringing signal on any incoming line, that output is switched to its dedicated internal sine wave ring generator to ring the phones. In between rings the **RG-204** switches that line back to "copper-thru" so caller-ID may pass through. When the line is answered and in use, the **RG-204** again provides a "copper-thru" path from input to output. There are 4 front panel Channel LEDs showing the status of each of the 4 line circuits. Each LED lights dim showing the line is not ringing and in the "copper-thru" state. The LED will light bright when ringing is being generating. If a ring generator's fault protection circuit engages, that Channel LED will go out. A fault may possibly be reset by momentarily unplugging power to the **RG-204** for a few minutes. Unplugging power to the **RG-204** will not drop any calls, nor disable the ability to make inbound or outbound calls, although inbound ringing will not be boosted.



The **RG-224** ring generator is designed to reshape and increase the ringing power of up to 24 analog PABX extensions, FXS ports, IP phone system analog ports, or any other telecom devices which provides ringing. The **RG-224** duplicates the incoming ring cadence allowing it to be compatible with custom ringing features.

For more information on the **RG-224**, see **DOD 418**.



The **RG-212** ring generator is designed to reshape and increase the ringing power of up to 12 analog PABX extensions, FXS ports, IP phone system analog ports, or any other telecom devices which provides ringing. The **RG-212** duplicates the incoming ring cadence allowing it to be compatible with custom ringing features.

For more information on the **RG-212**, see **DOD 419**.



For more information on the **RG-10A**, see **DOD 420**.

The **RG-10A** high power ring generator is designed to increase the ringing power of a single existing telephone line, PABX extension, or any other telecom device which provides ringing up to 12 REN. The **RG-10A** duplicates the incoming ring frequency and cadence allowing it to be compatible with custom ringing features.



The **RG-4** ring generator is designed to reshape and increase the ringing power of a single existing analog line, PABX extension, FXS port, IP phone system analog port or any other telecom device which provides ringing. The **RG-4** duplicates the incoming ring cadence allowing it to be compatible with custom ringing features.

For more information on the **RG-4**, see **DOD 416**.

# 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:

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. 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**

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 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**):

1. 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.
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 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.
4. **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 OTHER 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.**

**EXCLUSION OF CONSEQUENTIAL DAMAGES.** VIKING SHALL NOT, UNDER ANY CIRCUMSTANCES, BE LIABLE TO PURCHASER, OR ANY OTHER PARTY, FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR EXEMPLARY DAMAGES ARISING OUT OF OR RELATED TO THE SALE OR USE OF THE PRODUCT SOLD HEREUNDER.

**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**

Due to the dynamic nature of the product design, the information contained in this document is subject to change without notice. Viking Electronics, and its affiliates and/or subsidiaries assume no responsibility for errors and omissions contained in this information. Revisions of this document or new editions of it may be issued to incorporate such changes.