COMMUNICATION & SECURITY SOLUTIONS

**ING** PRODUCT MANUAL

# PI-1A Telecom Paging Interface January 24, 2014

# Interface Your Paging System with Nearly Any Phone System!

Viking's Telecom Paging Interface allows you to provide paging from nearly any phone system instead of from a microphone. You can also provide background music and electronic night bell over the audio system.

The **PI-1A** features a built-in voice activated (VOX) or AC ring activated relay which provides D.P.D.T. contacts for muting background music during paging or to provide an electronic night bell. These contacts are necessary when interfacing with systems such as Panasonic, South Western Bell, Intertel, etc., which do not provide a paging contact closure.

In the event a paging port is not available, the **PI-1A** can provide talk battery to allow connection of the public address system to an unused line/trunk input on the phone system.

# Features

- · Floating 600 ohm output
- Selectable 22V DC talk battery for interfacing with unused phone system line input/trunk ports
- · Paging port interface
- · Ringing analog line input for night bell
- · Contact closure input for night bell
- DPDT normally open and normally closed VOX activated contacts for cutting out background music
- · Adjustable VOX contact time-out
- · Adjustable VOX trigger sensitivity
- · Adjustable ring volume
- Adjustable ring pitch
- Wall mount housing: (2) #6x3/4 panhead screws included

# www.vikingelectronics.com Information: (715) 386-8861



The electronic night bell feature is activated by a standard ringing analog PABX/KSU station circuit or by a common audible contact closure provided by an electronic key system. The ring pitch and volume are adjustable allowing you to differentiate between multiple ringing lines.

## Applications

- Integrate your public address system with nearly any phone system
- · Cut out background music during paging
- Electronic night bell from ringing line or contact closure

Note: The PI-1A is not compatible with ring trip paging applications. See Viking models FXI-1 (DOD# 494), PA-15 (DOD# 486), or RAD-1A (DOD# 410).

## Specifications

Power: 120V AC/12V DC 500mA, UL listed adapter provided

Dimensions: 111mm x 76mm x 36mm (4.38" x 2.97" x 1.38")

Shipping Weight: .48 kg (1.06 lbs)

**Environmental:** 0°C to 32°C (32°F to 90°F) with 5% to 95% non-condensing humidity

Relay Contacts: 30V DC@1A, 110V DC@0.3A, 125V AC @ 0.5A

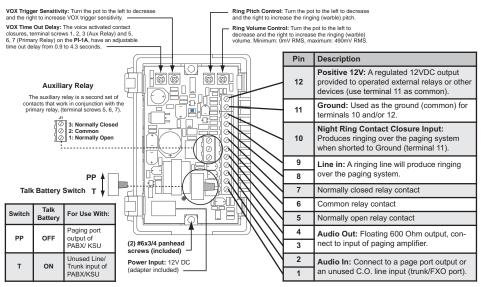
Maximum Ring Output: 0.5V AC RMS no load, 0.4V AC RMS @ 600 ohms

VOX Minimum Audio Signal to Activate Relay: At 1KHz with VOX sensitivity POT set to minimum: -17dbm, with POT set to maximum: -37dbm

VOX Time Out Delay: 0.9 sec min / 4.3 sec max Talk Battery: 22V DC

## **Features Overview**

**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.



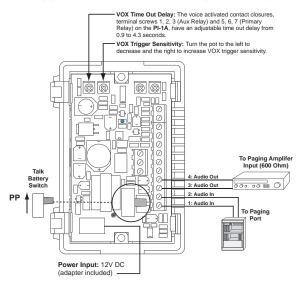
# Installation and Programming

#### A. Paging

#### 1. Paging Port

Step 1.	Move the Talk Battery Switch to the PP position.	
Step 2.	Connect terminals 1 & 2 to the paging port.	
Step 3.	Connect terminals 3 & 4 to a line level input on your amplifier.	

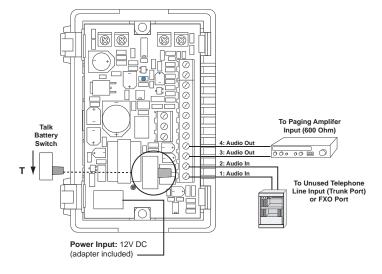
**Note:** The VOX trigger sensitivity will probably not need to be adjusted unless the **PI-1A** is disconnecting in the middle of a page (turn clockwise to increase sensitivity if this is the case) or the **PI-1A** is not disconnecting on periods of silence longer than the VOX time out delay (turn counter clockwise to decrease sensitivity if this is the case).



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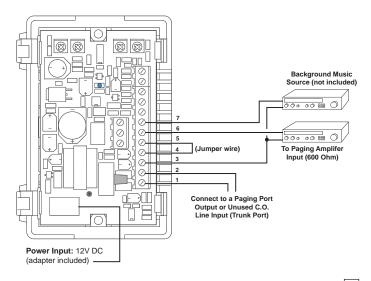
#### 2. Trunk / FXO Port

Step 1.	Move the Talk Battery Switch to the T position.	
Step 2.	Connect terminals 1 & 2 to the trunk/FXO port.	
Step 3.	Connect terminals 3 & 4 to a line level input on your amplifier.	



#### B. Adding Background Music to Your Paging System in All Page Modes

Step 1.	Connect a background music source to terminals 3 & 7.	
Step 2.	Connect a jumper wire between terminals 4 & 5.	
Step 3.	Connect a line level input on your amplifier to terminals 3 & 6.	



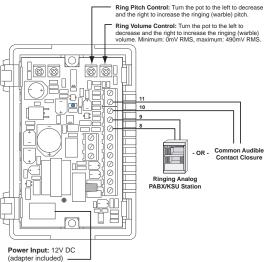
### C. Loud Ringing / Night Bell

#### 1. Ringing Analog Line

Step 1.	Connect terminals 8 & 9 to a ring- ing line, FXS or analog PABX sta- tion.
Step 2.	Adjust the Ring Pitch Control as desired.
Step 3.	Adjust the Ring Volume Control as desired.

#### 2. Dry Contact (Common Audible) Closure from Phone System

Step 1.	Connect terminals 10 & 11 to the common audible dry contact clo- sure.
Step 2.	Adjust the Ring Pitch Control as desired.
Step 3.	Adjust the Ring Volume Control as desired.



Note: Either method may be used.

#### Warranty

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

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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,

Customer music contact vining's recrimical support department at 715-36-3600 to doiant a rectum humorization (req) humorit. (req) humorit in (req) humorit information regarding the defect, such as options set, conditions, symptoms, methods to duplicate problem, frequency of failure, etc.
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 droug backing 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: Wiking Electronics, 1531 Industrial Street, Hudson, WI 54016
Return shiping address: Bes are to include your return shipping address misel the box. We cannot ship ba 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 product is for equipment that has failed out-of-box (within 10 days of purchase): 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 715-386-866 to determine possible accuses 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 (R.A.) number will be issued.

2. The inclusion of the second declination of the experiment of

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 (R.A.) 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.

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#### Product Support: (715) 386-8666

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