

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) relay which provides DPDT contacts for muting background music during paging. The relay is also activated by AC ring for providing 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.



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.

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) #6 x 3/4 panhead screws included

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-1A** (DOD 494), **PA-15** (DOD 486), or **RAD-1A** (DOD 410).

Specifications

Power: 120V AC/12V DC 500mA, UL listed adapter provided
Dimensions: 4.38" x 2.97" x 1.38" (111mm x 76mm x 36mm)
Shipping Weight: 1.06 lbs (0.48 kg)
Environmental: 32°F to 90°F (0°C to 32°C) 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 second minimum and 4.3 second maximum
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.

VOX Trigger Sensitivity

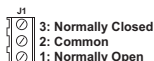
Turn the pot to the left to decrease and the right to increase VOX trigger sensitivity.

VOX Time Out Delay

The voice activated contact closures, terminal screws 1, 2, 3 (Aux Relay) and 5, 6, 7 (Primary Relay) on the PI-1A, have an adjustable time out delay from 0.9 to 4.3 seconds.

Auxiliary Relay

The auxiliary relay is a second set of contacts that work in conjunction with the primary relay (terminal screws 5, 6, 7).

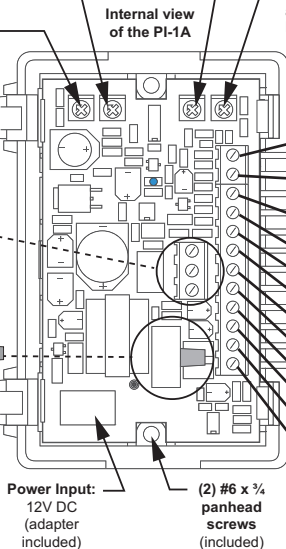


Talk Battery Switch

Switch	Talk Battery	For Use with:
PP	OFF	Paging port output of PABX/ KSU
T	ON	Unused Line/ Trunk input of PABX/KSU

Ring Pitch Control: Turn the pot to the left to decrease and the right to increase the ringing (warble) pitch.

Ring Volume Control: Turn the pot to the left to decrease and the right to increase the ringing (warble) volume. Minimum: 0mV RMS, maximum: 490mV RMS.



Pin	Description
12	Positive 12V: A regulated 12VDC output provided to operated external relays or other devices (use terminal 11 as common).
11	Ground: Used as the ground (common) for terminals 10 and/or 12.
10	Night Ring Contact Closure Input: Produces ringing over the paging system when shorted to Ground (terminal 11).
9	Line in: A ringing line will produce ringing over the paging system.
8	Normally closed relay contact
7	Normally closed relay contact
6	Common relay contact
5	Normally open relay contact
4	Audio Out: Floating 600 Ohm output, connect to input of paging amplifier.
3	Audio Out: Floating 600 Ohm output, connect to input of paging amplifier.
2	Audio In: Connect to a page port output or an unused C.O. line input (trunk/FXO port).
1	Audio In: Connect to a page port output or an unused C.O. line input (trunk/FXO port).

Installation and Programming

A. Paging

1. Paging Port

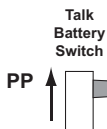
Step 1.	Move the Talk Battery Switch to the PP position.
Step 2.	Connect terminals 1 & 2 to the paging port.
Step 3.	Connect terminals 3 & 4 to line level input on amplifier.

Important: The VOX trigger sensitivity should not need adjusting unless: the PI-1A is disconnecting in the middle of a page (turn clockwise to increase sensitivity if this happens) 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 happens).

VOX Time Out Delay

The voice activated contact closures, terminal screws 1, 2, 3 (Aux Relay) and 5, 6, 7 (Primary Relay) on the PI-1A, have an adjustable time out delay from 0.9 to 4.3 seconds.

Internal view of the PI-1A

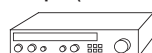


Power Input: 12V DC (adapter included)

VOX Trigger Sensitivity

Turn the pot to the left to decrease and the right to increase VOX trigger sensitivity.

To Paging Amplifier Input (600 Ohm)



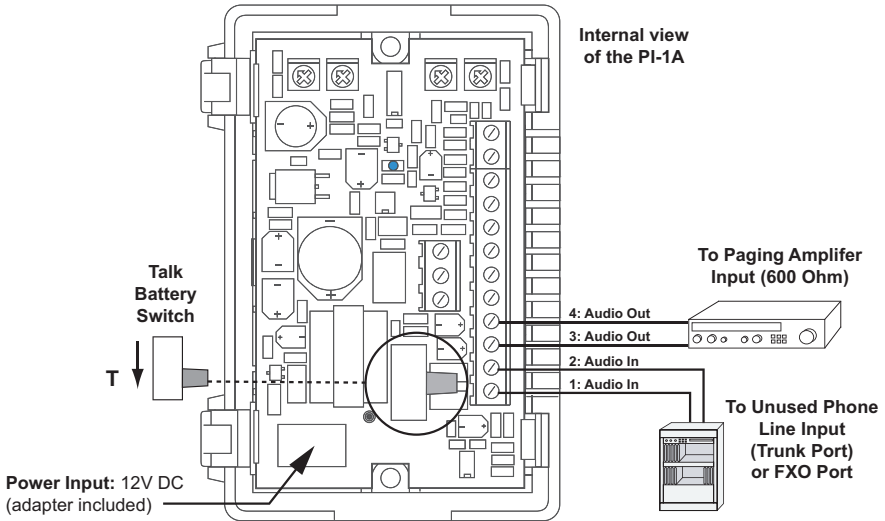
4: Audio Out
3: Audio Out
2: Audio In
1: Audio In

To Paging Port



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.

