

Telecommunication Peripheral Products
Technical Practice

PA-2A
Paging Amplifier-
Loud Ringer
July 23, 1998

Add Paging and Multiple Line Loud Ringing to Any Phone System



The **PA-2A** provides loud ringing and paging to electronic key systems, 1A2 Key systems, PABX's as well as No-KSU phones and multi-line phones.

Paging is accomplished by connecting the **PA-2A** to a paging port or unused C.O. line input of nearly any phone system.

The **PA-2A** will also generate an adjustable loud warble from up to 6 incoming C.O. lines or from a dry contact closure. An external "night transfer" switch can be added to turn loud ringing on or off in night bell applications.

The **PA-2A** is easy to install and eliminates the installation of multiple bells, relays and paging cards. The unit comes complete with a power supply, amplifier and (1) paging horn.

<http://www.VikingElectronics.com>

[E-mail...Sales@VikingElectronics.com](mailto:Sales@VikingElectronics.com)

Features

- Two watts of paging power
- Sixth line optically coupled for use with fax switches
- Ring sensitivity adjustment
- Can provide background music from an external source
- Paging from an unused trunk or paging port
- Loud ringing
- Provides loud electronic ring for night bell, warehouses, outside yards, etc.
- Output for controlling a 12 volt relay from 1 - 6 ringing lines

Applications

- Amplified loud paging
- Night bell
- Background music
- Loud ringing

Specifications

Power: 120V AC/13.8V AC 1.25A, UL listed adapter provided
Dimensions: 133mm x 89mm x 44mm (5.25" x 3.5" x 1.75")
Shipping Weight: 1.36 kg (3 lbs)
Environmental: 0°C to 32°C (32°F to 90°F) with 5% to 95% non-condensing humidity
Paging Output: 2 watts - powers up to (3) 8 ohm or (16) 45 ohm speakers
Sound Pressure: 110 dB @ 1 meter
Speakers: (1) 25AE 8 ohm paging horn included
Maximum Speaker Run: 91 m (300 ft) maximum 18 AWG
Connections: (2) RJ25 jacks, (1) 5 position screw terminal block

Sales...(715) 386 - 8861

Made in the U.S.A.

Installation/Programming

A. Paging

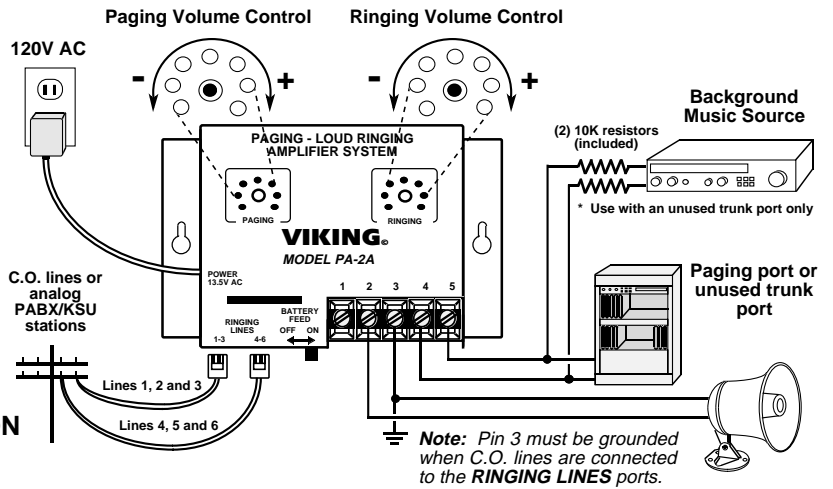
1. Paging Port

- Move the **BATTERY FEED** switch to the **OFF** position
- Connect pins **4** and **5** to the paging port output

Note: Background music can **NOT** be added when interfacing the **PA-2A** to a Paging Port.

2. Trunk/Line Port

- Set the **BATTERY FEED** switch to the **ON** position
- Connect pins **4** and **5** to an unused trunk or line input



B. Loud Ringing/Night Bell

1. Ringing Analog Lines

- Connect lines 1 (R/G), 2 (Y/BK) and 3 (BL/W) to **1-3**.
- Connect lines 4 (R/G), 5 (Y/BK) and 6 (BL/W) to **4-6**.

Note: Line 6 is optically coupled for use with fax switches and analog station ports.

2. Dry Contact Closure (not included)

- Move the **BATTERY FEED** switch to the **ON** position.
- Connect the dry contact closure to pins **1** and **4**.

Note: When using a contact closure for loud ringing, a $.1\mu\text{F}@100\text{V}$ capacitor must be added to terminal 5 in order to interface with a paging port. Contact Product Support at (715) 386-8666.

3. Night Transfer Switch (not included)

A night transfer switch may be used to enable or disable loud ringing.

a. Ringing Analog Lines

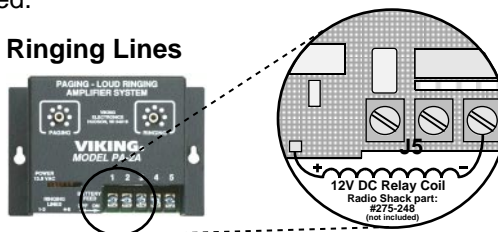
Connect the night transfer switch to terminal pins **1** and **3**. When the switch is on (closed), loud ringing is disabled. When the switch is off (open), loud ringing is enabled.

b. Dry Contact Closures

Interface the night transfer switch in series with the contact closure. When the switch is on (closed), loud ringing is enabled. When the switch is off (open), loud ringing is disabled.

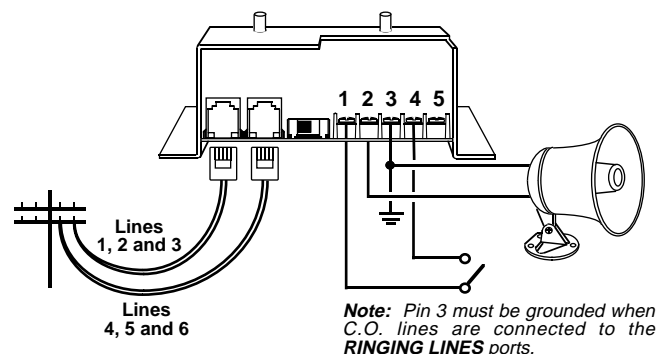
4. Contact Closure From up to 6 Ringing Lines

When a 12V DC relay coil is connected as shown in the diagram, the relay is activated for the duration of each ring.

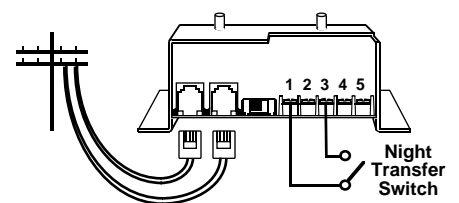


Note: For information on speakers to use, ambient noise levels, and speaker wiring retrieve **Fax Back Document 498**.

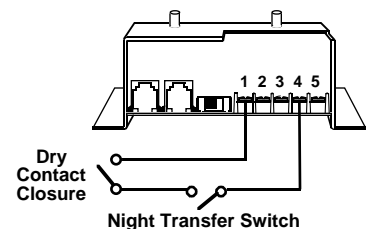
Front View of the PA-2A



Ringling Analog Lines



Dry Contact Closure



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

Fax Back Line...(715) 386-4345

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