Add Paging, Loud Ringing and Background Music to Centrex, PABX’s or Key Systems

The CPA-7B is a cost effective, multi-purpose, telecom paging system. The CPA-7B features a low noise, high fidelity amplifier, providing 6 watts of power for a variety of telecom paging applications. It can also provide background music and night bell/common audible. In addition, multiple units may be daisy-chained for larger paging applications.

Compatible with ringing C.O. lines, Centrex lines and analog PABX/KSU station ports as well as unused trunk inputs, the CPA-7B will also interface directly with standard paging ports. For loud ringing, the CPA-7B generates an adjustable loud warble from a dry contact closure, a ringing C.O. or a ringing analog PABX/KSU station.

The CPA-7B is easy to install and can eliminate the installation of multiple bells, relays and paging cards.

http://www.VikingElectronics.com

Features

- 6 watts of paging power (powers up to (8) 8 ohm horns/speakers)
- Increased audio fidelity with low noise amplifier
- Interfaces with ringing C.O. lines, Centrex lines, paging ports, unused phone system trunk inputs, or ringing analog station ports
- 600 ohm audio output to connect multiple CPA-7B’s for larger paging applications
- (1) 8 ohm 25AE paging horn included
- Day/night switchable for paging/loud ring
- Ringing/alert tone volume adjustment
- Paging volume adjustment
- Selectable ring trip paging and night bell
- Background music is muted during page
- 10 pin cage clamp terminal strip for easier wiring
- Provides “Night Bell” warble tone via contact closure or ringing analog circuit
- Provides page “Alert” tone before paging
- Adjustable ring trip paging time out for auto disconnect
- Audio patch cord provided

Applications

- Paging and loud ringing for Centrex systems
- Paging and loud ringing for phone systems with paging ports, unused analog station ports or unused trunk inputs

Sales...(715) 386 - 8861

Made in the U.S.A.

Specifications

- Power: 120V AC/13.8V AC 1.25 A, UL listed adapter provided
- Amplifier: 6 watts - to power up to (8) 8 ohm speakers (cascadable to drive additional speakers)
- Dimensions: 133 mm x 89 mm x 44 mm (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
- Speakers: (1) 25AE paging horn provided
- Sound Pressure Level: 110dB, 1KHz @ 1m with (1) 25AE Paging Horn (included), each additional horn will drop the output level of all horns by 1dB
- Maximum Speaker Cable Length: 91 m (300 ft) 18 AWG
- Connections: (1) RJ11 jack, (1) 3.5mm (1/8”) audio jack, (1) 2.1mm barrel jack
- Talk Battery Output: 19V DC (loop current 36mA nominal)
A. Ring Trip Paging with or without Night Bell

1. Set the MODE SWITCH to the RING TRIP position.
2. Adjust the RING TRIP TIME OUT POT as required (adjustable from approximately 10 - 25 seconds).
3. Plug a C.O. line, Centrex line or analog PABX/KSU station into the PAGING INPUT PORT.
4. Make a sample page adjusting paging and alert tone volume.
5. With the night transfer switch off (open), the CPA-7B will answer and page, then disconnect on CPC or time out.
6. With the night transfer switch on (closed), the CPA-7B will broadcast a night bell ring (electronic warble tone) during each incoming ring.

Caution: Do NOT connect speakers with a combined parallel impedance of less than 1 ohm. To power more speakers, see Installation/Applications section F.

B. Ring Trip Paging with Night Bell/Common Audible from Contact Closure

1. Set the MODE switch to the RING TRIP position.
2. Adjust the RING TRIP TIME OUT POT as required (adjustable from approximately 10 to 25 seconds).
3. Connect the phone system’s dry contacts to pins 5 and 7 and jumper terminal 6 to 10 as shown below.

Note: Common audible (night bell) takes precedence over ring trip paging.

Caution: Do NOT connect speakers with a combined parallel impedance of less than 1 ohm. To power more speakers, see Installation/Applications section F.

Note: The “Common Audible” contact closure (below) will activate during incoming ring on the phone system’s line inputs (programmable on many systems). Night bell (electronic warble tone) will then be broadcast in cadence with the incoming ring.
C. Paging from an Unused Phone System Trunk Input

1. Set the MODE SWITCH to the TRUNK/PAGING PORT position.
2. Adjust the RING TRIP TIME OUT POT to its maximum (fully clockwise) position.
3. Connect terminal 8 to 5 to provide talk battery on the PAGING INPUT PORT.
4. Connect the unused trunk port to the PAGING INPUT PORT.

Note: If both paging and loud common audible are required, connect the night transfer switch (optional), the phone system common audible dry contacts and jumper terminal 6 to 7 as shown below.

Caution: Do NOT connect speakers with a combined parallel impedance of less than 1 ohm. To power more speakers, see Installation/Applications section F.

D. Paging from a Phone System’s 600 Ohm Paging Port (with page dry contact closure provided)

1. Set the MODE SWITCH to the TRUNK/PAGING PORT position.
2. Adjust the RING TRIP TIME OUT POT to its maximum (fully clockwise) position.
3. Connect the phone system’s paging port to the PAGING INPUT PORT.
4. Connect the phone system’s paging dry contacts to terminals 5 and 7. The contact closure will activate the alert tone for paging and mute the background music.

Note: If both paging and loud common audible are required, wire the night transfer switch (optional) to the phone system’s common audible dry contacts and jumper terminals 9 to 6 as shown below.

Caution: Do NOT connect speakers with a combined parallel impedance of less than 1 ohm. To power more speakers, see Installation/Applications section F.

Note: The “Common Audible” contact closure (below) will activate during incoming ring on the phone system’s line inputs (programmable on many systems). Night bell (electronic warble tone) will then be broadcast in cadence with the incoming ring.

Note: The “Page” contact closure (below) will initiate paging from the phone system’s paging port. The “Common Audible” contact closure (below) will activate during incoming ring on the phone system’s line inputs (programmable on many systems). Night bell (electronic warble tone) will then be broadcast in cadence with the incoming ring.
E. Paging from a Phone System's 600 Ohm Paging Port

1. If the phone system does NOT provide a dry contact closure on “Page”, connect the paging port to the 3.5mm (1/8") music input jack.

2. If loud common audible is required, connect the night transfer switch (optional), the phone system’s common audible dry contacts and jumper terminals 6 to 7 as shown below.

Note: The CPA-7B can NOT provide background music or alert tones in this application.

Caution: Do NOT connect speakers with a combined parallel impedance of less than 1 ohm. To power more speakers, see Installation/Applications section F.

F. Cascading Multiple CPA-7B’s to Drive Additional Speakers

An infinite number of CPA-7B’s may be daisy-chained together to a master CPA-7B to drive additional speakers as required. Only the master CPA-7B should be connected to the paging source, background music, phone system’s dry contact closures, etc. The master CPA-7B controls the paging and ring/alert tone volume for all units. Set paging control volume on all slave units to the maximum position. Connect as shown below.

Note: The “Common Audible” contact closure (below) will activate during incoming ring on the phone system’s line inputs (programmable on many systems). Night bell (electronic warble tone) will then be broadcast in cadence with the incoming ring.

Product Support Line... (715) 386-8666  Fax Back Line... (715) 386-4345

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