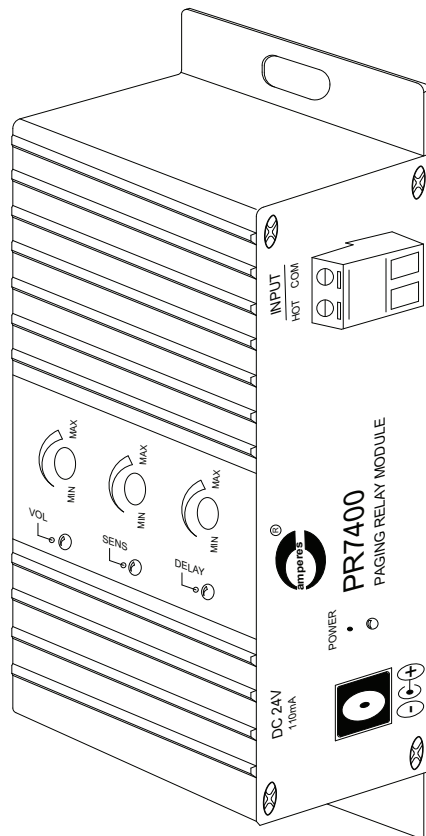




INSTRUCTION MANUAL

PR7400

Paging Overriding Module



Thank you for choosing another quality product from Amperes Electronics.

PR7400 is a new addition to VC / VP category, which is a module for providing a relay contact whenever a paging is in progress, as well as converting the 100V line paging audio to line level, all in a box.

The available functions of the unit shall be :

Relay :

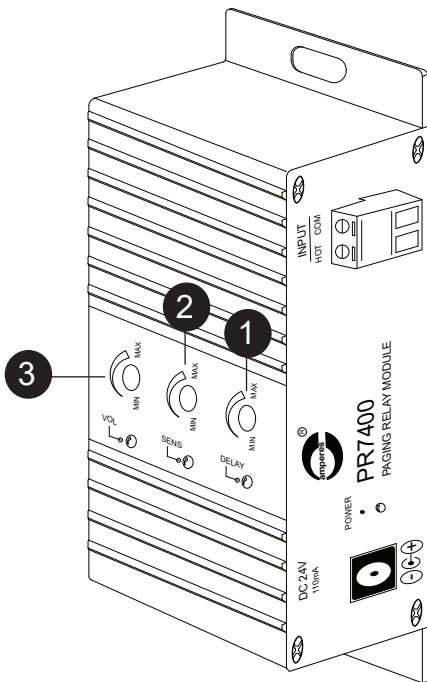
NO and NC relay of 1A contact allows local BGM source overriding, bypass local volume controller to allow central paging to pass through. This is useful during essential paging and whenever 24V DC overriding signal is not available in the cabling works.

100V - Line audio converter:

When it is required that the central paging to be broadcasted to local speakers utilising the local amplifier / system, it provides an audio conversion with balanced line audio.

Parts Identifications

Front View



Left View



Right View



1. DELAY ADJUSTMENT

Adjust the relay contact trigger duration. (Refer relay trigger Delay Adjustment at page 6).

2. SENSITIVITY ADJUSTMENT

Adjust the sensitivity for relay contact trigger whenever central paging is made. (Refer to trigger Sensitivity Adjustment at page 6).

3. VOLUME ADJUSTMENT

Adjust the output volume of line audio (balanced).

4. POWER PORT

24V DC power supply input via barrel jack.

5. 100V INPUT

An input for connection to the 100V line from central system.

6. BALANCED LINE OUTPUT

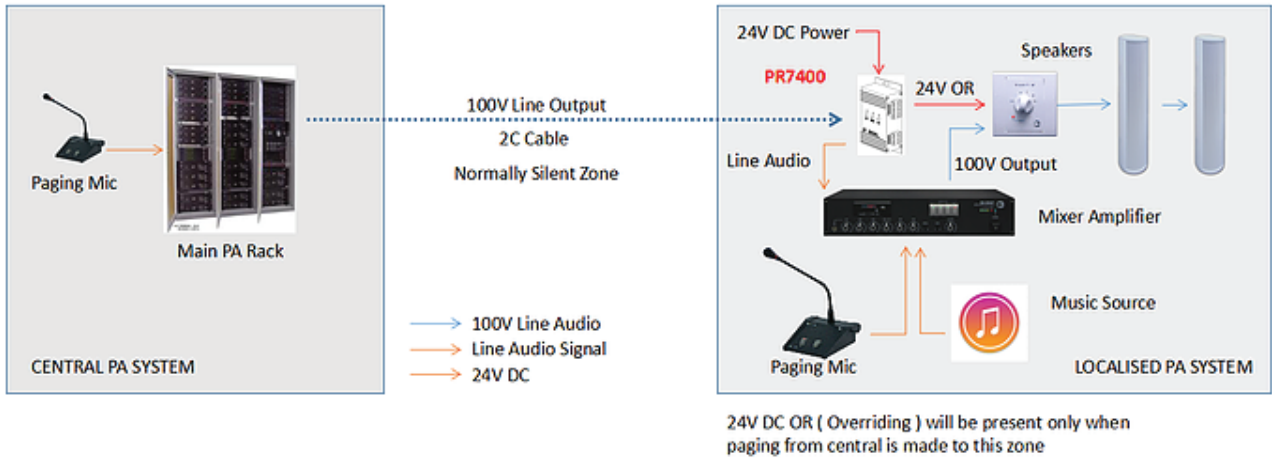
A standard line level output for connection to an amplifier / pre-amp.

7. RELAY CONTACT

Double Pole Double Throw (DPDT) contacts available with 1A rating.

Application Schematic

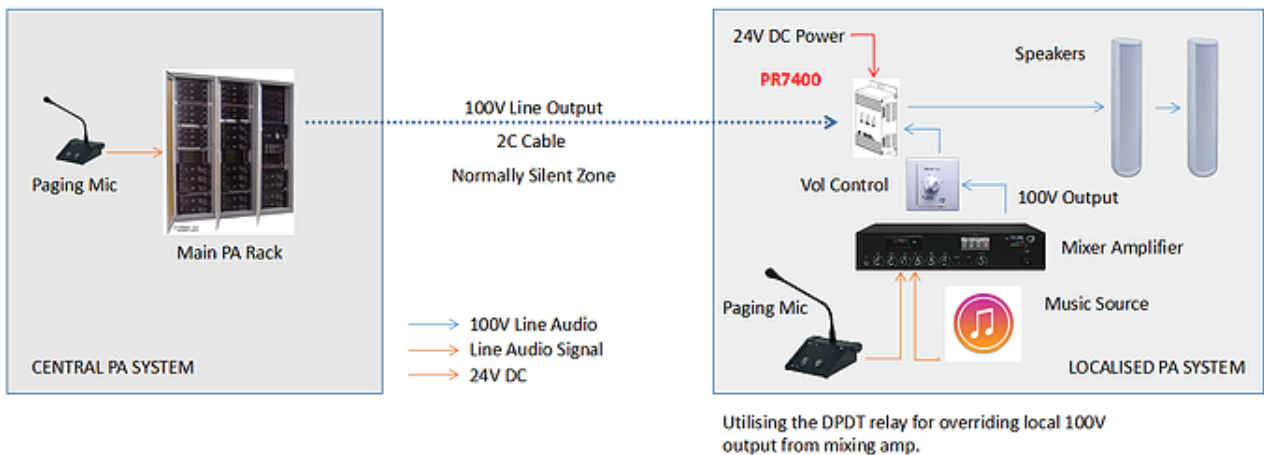
Application Example 1 : Overriding Local BGM Source



Certain zones, such as retail units, restaurants, theaters are normally free from normal paging of central system, and they would have own localized BGM or simple PA.

Only essential paging would pass through the localized speakers. As such, PR7400 would be employed to provide overriding of local volume controller (if available) and inserting line audio to the mixer.

Application Example 2 : Overriding Local Speakers



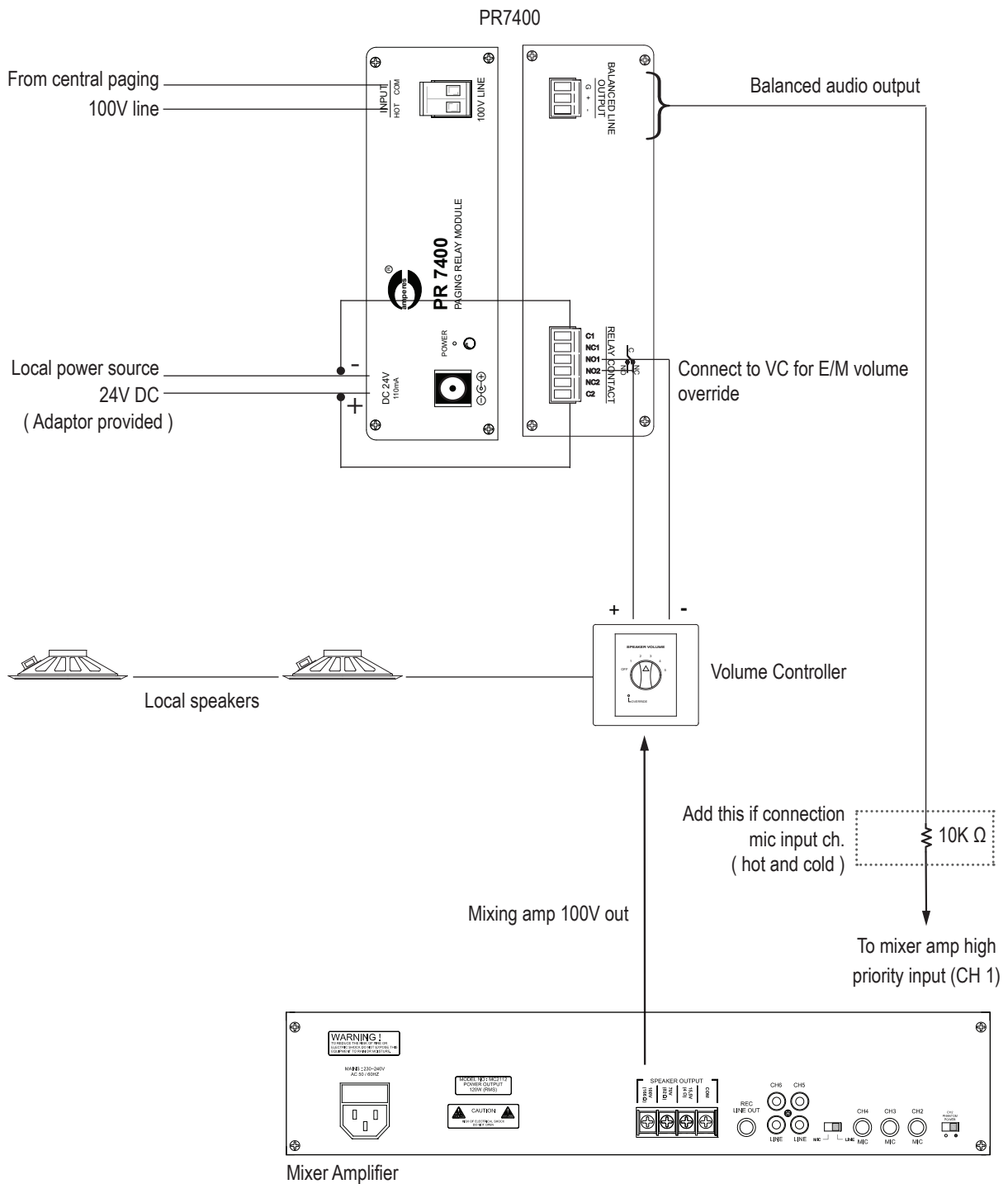
In this example, audio to the speakers is powered from local amplifier.

When required, central paging shall power the local speakers, regardless whether the local amplifier is turned on or off. This shall be a preferred setup and useful for emergency paging.

It is important to consider the load of local speakers and provide adequate power rating of amplifiers at central rack.

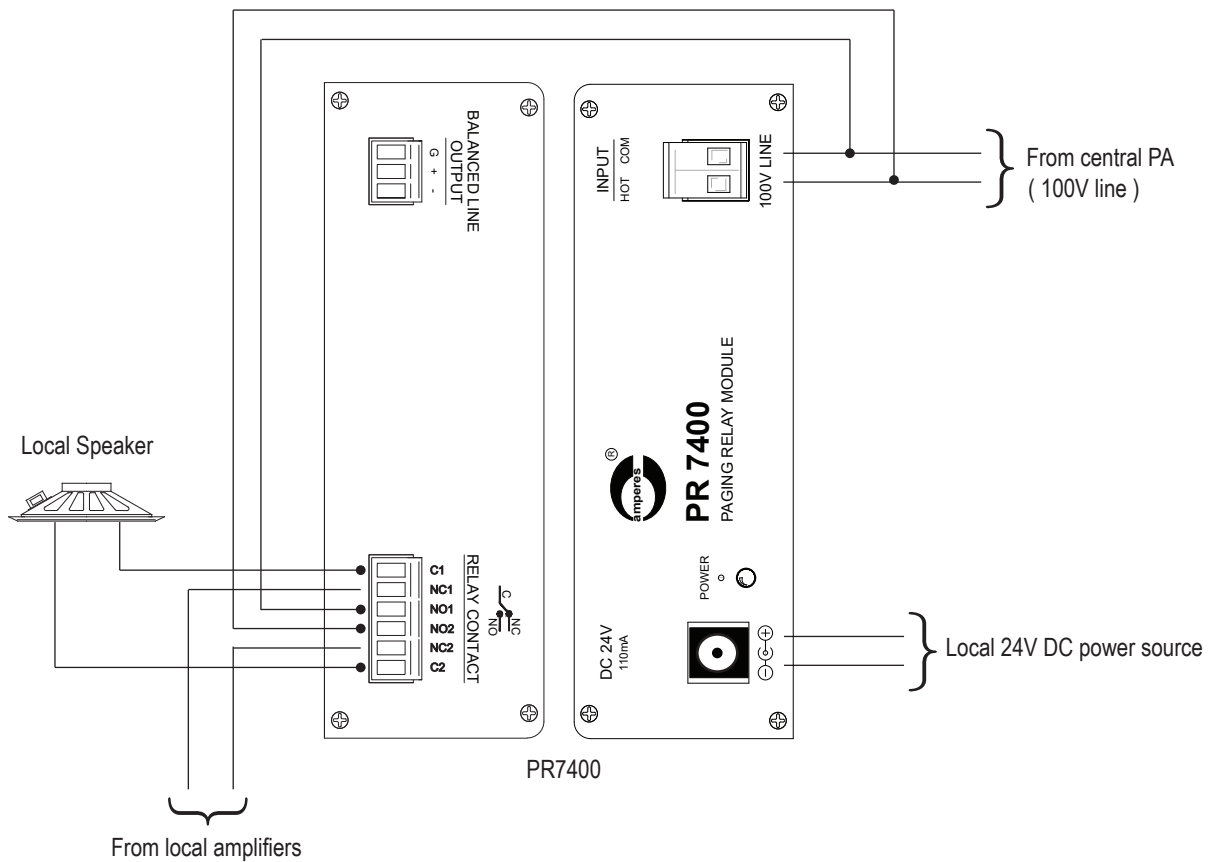
Connecting The Unit

1. Overriding local BGM source (as per application example 1)



Connecting The Unit

2. Overriding local speakers to centralised system (as per application example 2)

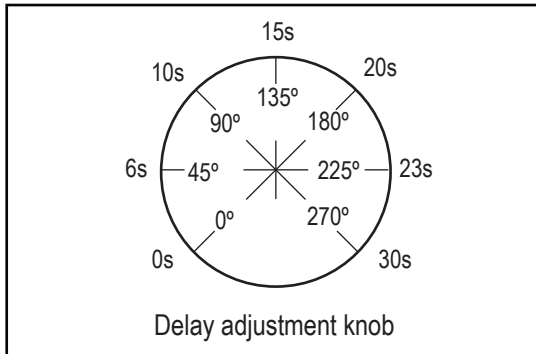


Important Notes:

1. The relay contact rating is 1A, thereby speaker load shall not exceed 100W.
2. Ensure the power amplifier rating at the central rack is adequate to drive the total loads of the local speakers.
3. Local 24V DC (via power adaptor) shall be sourced from essential power outlet. Adding a UPS shall be recommended to ensure the unit is still operating during power outage at the area.

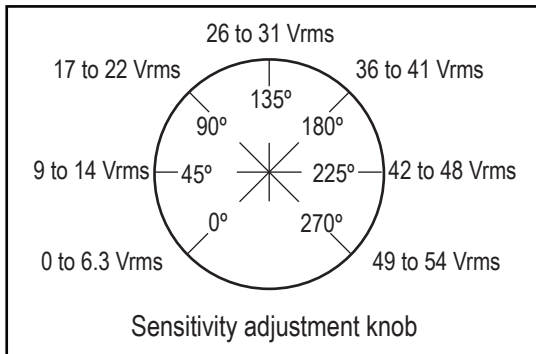
Adjustment of Relay Triggering Duration and Sensitivity

Relay Trigger Delay Adjustment



The relay trigger duration can be adjusted from 5 to 30 seconds each time the relay kicks in. The process shall be repeated upon expiring of each trigger.

Trigger Sensitivity Adjustment



The activation sensitivity refers to the 100V line input level. Nominal minimum audio (at 100V) is 5V, adjust accordingly to avoid triggering by noise but not too high that would cause failure to detect paging signal.

Summary Of Features

- DPDT with NC and NO relay for different output configurations
- 100V to Line audio conversion
- Adjustable detection sensitivity, relay trigger duration
- Adjustable line output volume
- Suitable for remote overriding for installations without 24V DC VC overriding cable
- Modular for flexible placement of unit such as in cabinets, risers, etc

Technical Specifications

Power requirement:	
Voltage	24 DC via local adapter
Consumption	2.1W (standby) 2.5W (operating)
Paging input	50 / 70 / 100V line
Sensitivity threshold	5 - 80V rms
Detection frequency	80 - 5 KHz
Relay	NC and NO (DPDT)
Relay contact	1A
Paging load / rating	100W at 100V
Trigger duration	5 - 18 seconds
Audio output	line balanced
Output level	Mute - 0dB
Freq response	20 - 20 KHz +/-3dB
Isolation to 100V	37.5dB
Indicators	Power, Relay trigger, Audio
Connections (mm)	Detachable Phoenix
Dimensions (mm)	52(W) x 147(H) x 40(D)
Weight	200g (excluding power adaptor)

Note:

The above specifications are correct at time of printing but subjected to changes without prior notice due to product improvements.

Warranty Conditions

Only Amperes Electronics Service Centres are allowed to make warranty repairs : a list of Amperes Electronics Service Centres may be asked for by the purchaser or send directly to Amperes Electronics Sdn Bhd at 70 Jalan Industri PBP 3, Tmn Perindustrian Pusat Bandar Puchong, 47100, Puchong, Selangor, Malaysia or its authorized dealers. This warranty is not valid if repairs are performed by unauthorized personnel or service centres.

This warranty covers only repairs and replacement of defective parts ; cost and risks of transportation as well as removal and installation of the product from the main system are for the account of the purchaser. This warranty shall not extend to the replacement of the unit.

This warranty does not cover damages caused by misuse, neglect, accident of the product as well as using the product with power supply voltage other than shown on the product, or any other power supply source / adaptor not recommended by the manufacturer.

This warranty does not cover damages caused by fire, earthquakes, floods, lightning and every cause not directly related to the unit.

This warranty does not include any indemnity in favor of the purchaser or the dealer for the period out of use of the unit; moreover the warranty does not cover any damages which may be caused to people and things when using the product.

This warranty certificate is valid only for the described product, and is not valid if modifications are made on this certificate or on the identification label applied on the product.

This warranty covers all the material and manufacturing defects and is valid for a period of 36 months from the date of purchase or for a specified period in countries where this is stated by a national law. In this case, the extension is valid only in the country where the product is purchased.

Amperes Electronics Sdn Bhd is not obliged to modify previously manufactured products under warranty if the design changes or improvements are made.

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It is recommended that all services and repairs on this product be carried out by AMPERES ELECTRONICS SDN BHD or its authorized service agents.

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