

Product Guide**A 4037** Phase5 40 Watt 100V Public Address Amplifier**A 4037** Phase5 40 Watt 100V Public Address Amplifier**Overview**

Designed to meet the requirements of medium sized professional public address installations, delivering an output power of 40W RMS. Frequency response extends from 60Hz to 15kHz at a total harmonic distortion (THD) of less than 0.5%. Features include, VOX muting, three balanced XLR microphone inputs, three line RCA inputs, bass and treble controls, enabling a diversity of installation applications, including schools, public halls, workshops and sporting complexes. Inbuilt VOX muting allows input 1 (mic or line) to mute inputs 2-3 and input 2 (mic or line) to mute input 3.

Powered from 240V AC mains or 24V DC permitting battery backup operation during mains power failure. Output is 100V line only. All units feature thermal overload shutdown to protect the amplifier if a speaker fault condition develops.

A 4573 Alert/evac option board

When fitted, generates pre chime, bell, alert and evacuation tones. The alert tone can function continuously, or switch to evac tone after a preset time delay (adjustable 30 seconds to 4.5 minutes). Simply connects to the amplifier internally via the cable provided.

A 4373 Digital remote volume option board

When fitted and used in conjunction with A 2280B wallplate to provide remote volume level adjustment. Ideal for situations where the amplifier is located in a remote rack.

Key Features

- ✓ Australian made
- ✓ 10 year manufacturer warranty with local product support
- ✓ 3 balanced microphone inputs
- ✓ Phantom power on mic inputs
- ✓ 3 line inputs
- ✓ 19" rack mount kit included
- ✓ VOX muting
- ✓ Tape output RCA sockets
- ✓ Bass and treble tone controls
- ✓ 100V line output
- ✓ 240V AC or 24V DC operation
- ✓ Built in short circuit protection
- ✓ Optional evac module available
- ✓ Optional remote volume module

About Redback® Public Address Products

Redback® products are proudly designed, engineered and manufactured in Australia.

Each unit is covered by a comprehensive 10 year parts and labour warranty. Redback® offers rock solid reliability from over 40 years experience in the commercial sound industry. Redback® offer locally available servicing and parts, plus the ability to offer feedback direct to the manufacturer.

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Rear Panel



1	240V AC input	6	Remote volume input	10	RCA stereo input (line 2)
2	100V line terminals	7	RCA stereo tape out	11	XLR 3 pin balanced (mic 2)
3	DC blade fuse	8	RCA stereo input (line 3)	12	RCA stereo input (line 1)
4	A 4573 expansion port	9	XLR 3 pin balanced (mic 3)	13	XLR 3 pin balanced (mic 1)
5	24V DC input				

Specifications

Electrical

Power Output:	40 watts RMS
Distortion:	< 0.5% @ 1kHz
Signal to Noise Ratio:	Typically 75dB below rated output. All inputs
Mic inputs:	50Hz - 10kHz, -3dB
Line inputs:	60Hz - 15kHz, -3dB
Output line:	100V
Mic 1-3:	3mV
Line inputs 1	-3: 300mV
Current Draw:	220mA Standby, 3A Full @ 24V DC
Protection:	1A AC fuse and 4A DC fuse
Power supply:	240V AC or 24V DC

Connectors

Speakers:	Screw terminals
Mic 1-3:	3 pin XLR balanced
Line inputs 1-3:	RCA stereo socket
24V DC power:	Screw terminals
240V AC power:	IEC power connector
VOX Muting:	60dB below rated output
Remote volume:	Screw terminals

Controls

Mic inputs:	Volume
Line inputs:	Volume
Bass:	±10dB @ 100Hz
Treble:	±13dB @ 10kHz
Power:	On/off switch
Indicators:	Power, Overload

Mechanical

Weight:	7.1kg
Dimensions:	423W x 225D x 88H mm

Connections

Inputs	Mic 1-3	Line 1-3
	3 pin XLR fem. (balanced)	Stereo RCA
Outputs	Speakers	Tape Out
	Screw terminals for 100V line	Stereo RCA

Architect Specifications

A 4037

The amplifier shall have a power output of 40 Watts RMS. The unit shall have 3 inputs consisting of one balanced XLR microphone input and dual RCA line input. Frequency response shall be 50Hz – 10 kHz (-3dB) for microphone inputs and 60Hz – 15 kHz (-3dB) for line inputs.

The unit shall have separate volume controls for each microphone / line input and tone controls providing 10dB cut or boost at 100Hz and 13dB cut or boost at 10kHz.

The unit shall operate from 240V AC or 24V DC with a LED indicator, and be fuse protected. The unit shall have overload protection via DC fuses.

The amplifier shall be capable of delivering full power of 100V RMS into a 40W inductive load with less than 0.5% distortion measured at 1 kHz and with system hum and noise typically -75dB with all volume controls at minimum. The speaker outputs shall be 100V via screw terminals. Tape output shall be provided via dual RCA sockets. Internal muting shall be provided by the VOX muting circuit. Muting should be configurable so that input 1 shall over-ride inputs 2 and 3 or input 2 shall override input 3 only.

The amplifier shall be housed in a high quality 2RU metal chassis suitable for rack mounting.

The amplifier shall be a REDBACK PHASE 4 model A 4037.