



# Australian Monitor

## INSTALLATION SERIES

Clever Features, Contactor Friendly

### AMIS604P




#### 4 x 60w Power Amplifier

## Operating Manual

## AMIS604P, 4 x 60 Watt Power Amplifier

### Product Description

The AMIS604P is a four channel (4 x 60w) power amplifier designed for commercial installations. The one unit contains four independent 60 watt amplifiers for multi-zone applications. The AMIS604P can be used for either low impedance (8 ohm) or 70v/100v line speaker systems per channel. The amplifier can be mounted in a standard 19" equipment rack (rack ears supplied) or it can be used on a shelf or table. The AMIS604P features a line level input (with parallel output) per channel and is normally used with mixers, mixer amplifiers or other power amplifiers.

 <p><b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN</p> <p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>	 <p>This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.</p>
<p><b>WARNING !</b> TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.</p>	 <p>This symbol is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.</p> <p>Caution: To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.</p> <p>To prevent electric shock, match wide blade of plug to wide slot, fully insert.</p>

# Front Panel Features



## Power Switch

The black rocker switch on the right hand side of the front panel is used to switch the amplifier on and off. The ‘up’ position is on. When the amplifier is connected to an appropriate AC power source and is switched on, the blue power LED will illuminate. This switch will not switch DC power on or off in DC operation. In DC operation mode, the amplifier is always on and the blue power LED will always be illuminated.

## On LED

The blue “On” LED above the power switch will illuminate when the amplifier is connected to mains power and is switched on. When 24vdc power is connected the LED will always be on.

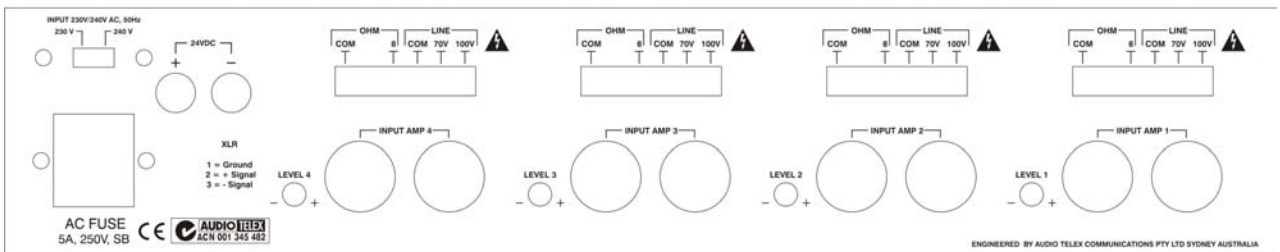
## Signal LED

The green “Signal” LED’s located next to the “On” LED indicate that the AMIS604P is receiving audio signal via its line level inputs. One LED is provided per channel. The signal LED’s are a simple way of trouble-shooting installations especially in multi amplifier projects. At a glance the signal LED’s will indicate that audio is reaching the amplifier.

## Rack Mounting

The AMIS604P is supplied with rack ears attached to allow mounting within a standard 19” equipment rack. As is the case with almost all audio products, adequate ventilation and air flow is required. When installing multiple AMIS amplifiers within the one rack, it is recommended that at least 1 rack unit of ventilation space is left between every two amplifiers. For table or shelf mounting, the rack ears can be removed using a screwdriver. Once the rack ears are removed, please reinstall the screws.

# Rear Panel Features



## AC Power Inlet

The operating voltage is 230/240 VAC @ 50 Hz. The 3 pin IEC power inlet is located on the bottom left of the rear panel and accepts a standard mains power lead fitted with an IEC connector. Before plugging in a

power lead, please check the rear panel of the amplifier to ensure that the voltage switch is set correctly for your part of the world



**Please ensure that the mains power cord is disconnected before attempting to check or replace this fuse.** Power consumption is 400 VA (max).

## 230V/240V Slide Switch

The operating voltage of the amplifier is user selectable between 230V and 240V via a slide switch located on the right of the AC inlet. This switch should be set to match the AC voltage of your country

## 24 Volt DC Power Inlet

The AMIS604P feature optional 24VDC power to run off a battery back-up if required. This is connected via the rear terminal strip. The front panel Power Switch will not switch DC power 'on' or 'off' in DC operation. In this mode the amplifier is always 'on'.

## Speaker Output Terminal Strip

Located on the top half of the rear panel are the speaker output terminal strips. A terminal strip is provided for each of the four amplifiers. Reading from left to right, the connections per terminal strip are:

**COM** Common or “-” for low impedance speaker loads (8 ohms).  
**8** The “+” for 8 ohm speaker loads (use with common)

**COM** Common or “-” for 70v or 100v speaker loads (maximum load of 160 ohms at 100v)  
**70** The “+” for 25v line speaker loads (use with common)  
**100** The “+” for 100v line speaker loads (use with common)

Please ensure that the correct “Common” is used. Low impedance and 70/100v loads can be used simultaneously but please pay careful attention to the overall speaker load. When used individually, the low impedance load should be 8 ohms or higher while the 100v line load should not fall below 160 ohms per amplifier. When both low impedance and 70/100v outputs are used simultaneously on the one amplifier, ensure that neither output is loaded to maximum.

## Level Control

Located next to the XLR input/output is a recessed screwdriver adjustable level control. One is provided per amplifier channel. The level control is an input attenuation control normally used to match the amplifier to a wide variety of input signals. In essence, the amplifier is designed to receive a 700mv input signal however the level control can be used to increase the level for lower signals or decrease the level for higher input signals. In normal use, the level control is used as a ‘set and forget’ master level control for the amplifier.

## XLR Audio Input and Parallel Output

The AMIS604P includes both male and female 3 pin XLR connectors per channel. While the female is normally used as the input to the amplifier, both XLR’s are connected in parallel so either will work. When signal is connected to one XLR, the other XLR becomes a line level output allowing the input signal to be distributed (split) to other amplifiers. In some projects, the same input may be looped through to multiple amplifiers using this method. Up to 6 amplifiers can be looped together without any noticeable loss in level. A distribution amplifier should be used when more than 6 amplifiers need to be looped.

The XLR’s are wired as follows: **Pin 1:** Shield. **Pin 2:** Hot, +, Positive. **Pin 3:** Cold, -, Negative

## Fuse Sizes

Mains, 230VAC: 5 Amperes Slow Blow.

**Notes:**

The DC fuse is located on the circuit board. This is a feature of the AMIS series amplifier, which is equipped with a current limiting circuit preventing excessive DC current, thus eliminating the risk of blowing high tensions fuses. In the unlikely event that the DC fuse actuates, the output transistors should be checked, as it is probable that the amplifier has been subjected to very extreme conditions.



## Important Safety Information

1. **Save the carton and packing material even if the equipment has arrived in good condition.** Should you ever need to ship the unit, use only the original factory packing.
2. **Read all documentation before operating your equipment.** Retain all documentation for future reference.
3. **Follow all instructions** printed on unit chassis for proper operation.
4. **Do not spill water or other liquids into or on the unit,** or operate the unit while standing in liquid.
5. **Make sure power outlets conform to the power requirements** listed on the back of the unit.
6. **Do not use the unit if the electrical power cord is frayed or broken.** The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
7. **Always operate the unit with the AC ground wire connected** to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.
8. **Mains voltage must be correct and the same as that printed on the rear of the unit.** Damage caused by connection to improper AC voltage is not covered by any warranty.
9. **Have gain controls on amplifiers turned down during power-up** to prevent speaker damage if there are high signal levels at the inputs.
10. **Power down & disconnect units from mains voltage before making connections.**
11. **Never hold a power switch in the “ON” position if it won’t stay there itself!**
12. **Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.**
13. **Do not block fan intake or exhaust ports.** Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, weathersheet, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically “blown free” of foreign matter.
14. **Do not remove the cover.** Removing the cover will expose you to potentially dangerous voltages. There are no user serviceable parts inside.

**15. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.**

**16. Do not connect the inputs / outputs of amplifiers or consoles to any other voltage source**, such as a battery, mains source, or power supply, regardless of whether the amplifier or console is turned on or off.

**17. Do not run the output of any amplifier channel back into another channel's input. Do not parallel- or series-connect an amplifier output with any other amplifier output.**

*Australian Monitor is not responsible for damage to loudspeakers for any reason.*

**18. Do not ground any red ("hot") terminal. Never connect a "hot" (red) output to ground or to another "hot" (red) output!**

**19. Non-use periods.** The power cord of equipment should be unplugged from the outlet when left unused for a long period of time.

**20. Service Information** Equipment should be serviced by qualified service personnel when:

- A.** The power supply cord or the plug has been damaged.
- B.** Objects have fallen, or liquid has been spilled into the equipment
- C.** The equipment has been exposed to rain
- D.** The equipment does not appear to operate normally, or exhibits a marked change in performance
- E.** The equipment has been dropped, or the enclosure damaged.

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