

AMIS604

4 x 60 Watt Mixer Amplifier

Description

The AMIS604 features four individual 60 watt mixer amplifiers in a 2 RU chassis and is suitable for rack or desk mounting. The amplifier may operate from mains power or 24V DC.

Inputs

Each of the four mixer amplifiers feature three dual mic/line inputs accessible via barrier strips on the rear of the unit. Each input may be switched between mic or line via an internal dip switch. A level control is available per input channel.

Outputs

The AMIS604 features 100 volt, 70 volt, 8 ohm isolated transformer outputs per amplifier module. With the addition of an optional tone generator module a vox triggered relay output is also available on the rear panel for activation of external devices from the vox muting circuit. In most cases this would be used as a muting bypass relay, which when used with the appropriate external attenuator, such as our ATC5143FS, will maintain preset paging levels irrespective of the attenuator setting. VCA control of the master output of each amplifier module is also available via the rear terminal strip. Each amplifier also includes a recessed bass and treble control.

Tone Generator

The AMIS604 offers the convenience of an optional plug in tone generator module. All four channels of this amplifier may have their own (ATC5489) tone generator module. The individual tones are accessible via contact closure on the rear of each amplifier module. There are four tones on the optional plug in module, alert, evac, bell and pre announce. Spare contacts on the board allow a vox triggered output for the activation of remote devices.

Muting

VOX muting is standard on the AMIS604. A mic or line signal on channel 1 will mute channels 2 and 3 per amplifier. The muting function can be disabled via an internal link. Each of the four mixer amplifier modules has its own muting circuit.

Phantom Power

Phantom Power (18 volts DC) is available from all mic inputs. An internal dip switch allows phantom power to be selected on a per input, per module basis.

Protection

Internal current limiting protects the amplifier from both overload and overdrive conditions. Fan cooling will be activated if the unit exceeds a factory preset temperature.

Australian Monitor Installation Series amplifiers feature a protection network that provides greater stability and performance. Our amplifiers are recognised worldwide for their reliability and this is due to the extensive levels of current limiting which protect the amplifiers from both overload and overdrive conditions.





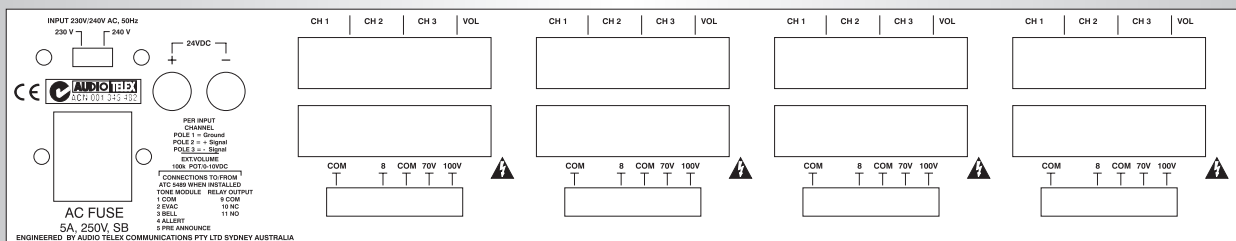
Power Output	4 x 60 Watts RMS
Maximum Load Per Amplifier	160 Ohms @ 100 Volts
Power Bandwidth	60Hz - 15kHz < 0.5% THD
Frequency Response	60Hz - 15kHz (± 3dB)
Total Harmonic Distortion	0.5% @ 1kHz rated power
Signal To Noise Ratio	-74dB with all controls at their centre position
Tone Controls	Bass @ 100Hz: Boost +12dB Cut -12dB; Treble @ 10kHz: Boost +9dB Cut -9dB
Inputs	Three mic/aux universal inputs per mixer amplifier module. Mic/Line selection can be made via an internal dip switch
Input Sensitivity	Mics: 1mV @ 200 Ohms; Aux 75mV @ 47K Ohms
Outputs	Speaker: 100, 70 Volts, 8 Ohms
VCA Master Level Control	Via a 500/1K pot added to the rear barrier strip of each amplifier module
Phantom Power	Selectable per input of each amplifier module via an internal dip switch. 18 V
Controls	3 Input channel gain controls, 1 Bass control, 1 Treble control, 1 Master VCA gain control per amplifier
Indicators	Power "on" LED
Power Source	AC 230/240V - 50Hz; DC 24V; 110V - 60Hz (special) 3 pin IEC connector
Power Consumption	400 Watts
Protection	Overload and overdrive protection, plus AC and DC fuses
Dimensions/Weight	88mm H x 480mm W x 350mm D (Chassis Dimensions only). 17kg
Rack Mounting	Standard
Tone Generators	Optional four tone generator module (ATC5489). Includes Bell, Pre-Announce, Alert and Evac Tones, plus a vox triggered relay output.
Muting	Built-in VOX muting. Channel 1 will mute channels 2 and 3 per amplifier

ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The four channel mixer amplifier shall have three universal input channels, accessible via a rear panel barrier strip on each of the four amplifier modules. Each amplifier module shall allow remote VCA control of the master output. Phantom power selection on a per channel, per amplifier basis shall also be included. A Vox triggered output shall also be available on an optional four tone generator card.

Each amplifier master section shall include one master VCA accessible gain control, two EQ controls, one with 12dB of cut and boost at 100Hz and the other with 9dB of cut and boost at 10kHz. Speaker outputs shall be transformer isolated at 100 volt, 70 volt & 8 ohms. The amplifiers must be capable of delivering 60 watts RMS into a 160 ohm inductive load, with less than 0.5% distortion measured at 1 kHz and with system hum and noise of -74dB or better.

The amplifier shall be an Australian Monitor Installation Series model AMIS604.



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