

ACM604

FOUR x 60WATT MIXER AMPLIFIER



**RACK EARS
INCLUDED**

DESCRIPTION

The ACM604 features four individual 60 watt mixer amplifiers in a 2ru chassis and is suitable for table or desk mounting. This amplifier includes a rack mount kit and signal present LED.

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 ACM604 features 100 volt, 70 volts, 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 ATC5143 or ATC5143FS, will maintain 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 ACM604 offers the convenience of an optional plug in tone generator module. All four channels of this amplifier may have their own 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 ACM604. 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.

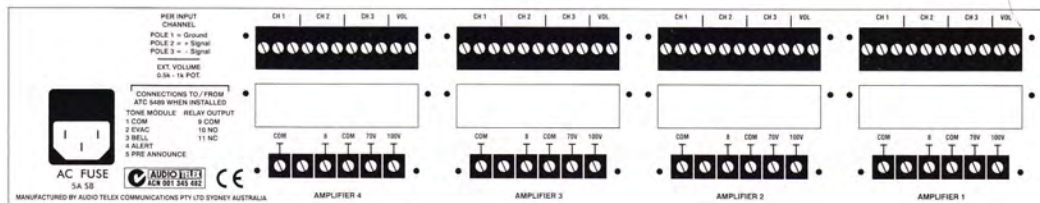
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ACM604 SPECIFICATIONS



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% @ 1 KHz 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: 1 mV @ 200 Ohms
Aux 75 mV @ 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 240v-60Hz, 110v-50Hz (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
Included (2RU)

Tone Generators
Optional four tone generator module. 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 Audio Telex model ACM604, manufactured in Australia.

