

ACM250

AUDIO TELEX
COMMUNICATIONS PTY LTD



250w, 6 Channel Mixer Amplifier

Description

The ACM250 is a 6 channel, 250 watt mixer amplifier suitable for table or desk mounting. Alternatively, it can be rack mounted by means of an optional rack kit. The amplifier is a self contained compact unit of solid steel construction.

Inputs

The ACM250 has six universal input channels with separate level controls. Each channel will accept balanced or unbalanced microphone, line and auxiliary inputs. The unit has industry standard XLR microphone sockets and dual RCA Phono auxiliary sockets for each channel. Line Input 6 has a lower input sensitivity and is suitable for high level CD players.

Outputs

The ACM250 features 100 volt, 70 volt and 4 ohm isolated transformer outputs, plus a tape recorder output by means of dual RCA Phono sockets. A balanced 700mV XLR output is also provided to feed up to 6 power amplifiers.

3 Band EQ

The ACM250 includes a 3 band equaliser (Bass, Middle and High), giving the user a wider range of tone controls for high level music or difficult voice applications.

Tone Generator

The ACM250 comes standard with an in-built four tone generator module. Tones include Bell, Pre-announce Chime, Alert tone (AS2220.1) and Evacuate Tone (AS2220.1). Any of these tones may be activated from a simple contact closure on the rear panel of the amplifier.

Muting

VOX muting is standard on the ACM250. A mic or line signal on channels 1 or 2 will mute channels 3,4 5 and 6. The muting function can be disabled if desired via an internal link.

Phantom Power

Phantom Power (18 volts DC) is available from all mic inputs. A rear panel phantom power on/off switch is also provided.

Protection

Internal current limiting protects the amplifier from both overload and overdrive conditions. An excess temperature auto cut out, is also a feature of the ACM250.



ACM250 Specifications

Power Output
250 watts RMS

Maximum Load
40 Ohms @ 100 Volts

Power Bandwidth
60Hz-15kHz < 0.5% THD

Frequency Response
60Hz-15kHz (+/- 3dB)

Total Harmonic Distortion
0.5% @ 1 KHz at rated power

Signal To Noise Ratio
-74dB with all controls at their centre position.

Tone Controls
Bass @ 100Hz: Boost +12dB Cut -12dB
Mid @ 600Hz: Boost +12dB, Cut -12dB
Treble @ 10kHz: Boost + 9dB Cut -9dB

Inputs.
Six mic/ aux universal inputs with XLR female mic sockets and dual RCA Phono aux sockets.

Input Sensitivity
Mics: 1 mV @ 200 Ohms
Aux1-5: 75 mV @ 47K ohms
Aux 6: 300mV @ 47k ohms

Outputs
Speaker: 100, 70 volts, 4 ohms
Tape: 350mV @ 10k ohms
Line: Balanced 700mV

Phantom Power.
18 Volts DC on all Mic inputs

Controls
6 Input channel gain controls, 1 Bass control, 1 Mid Control, 1 Treble control, 1 Master gain control, Phantom Power on/off switch (on rear panel)

Indicators
Power "on" and "Protect" LED

Power Source
AC 240v-60Hz, 110v-50Hz (special) 3 pin IEC connector

Power consumption
400 watts.

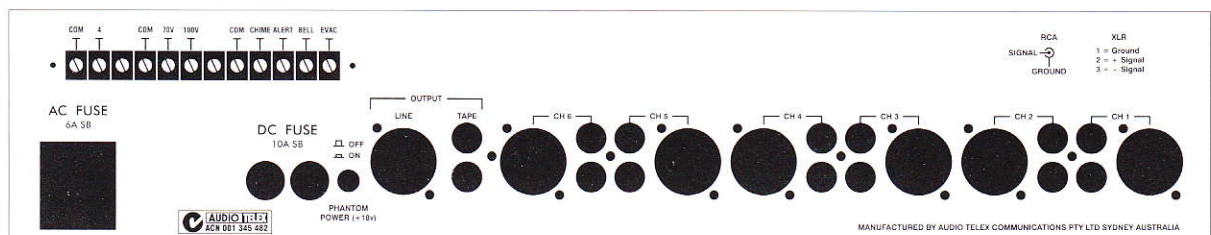
Protection
Current Limiter protection, plus AC and DC fuses

Dimensions / Weight
88mm H x 480mm W x 330mm D (Chassis Dimensions only), 15kg

Rack Mounting
Optional ACMRK Rack mount kit

Tone Generators
Built-in four tone generator module. Includes Bell, Pre-Announce, Alert and Evac Tones

Muting
Built-in VOX muting. Channels 1 and 2 will mute channels 3, 4, 5 and 6



Architectural and Engineering Specifications

The mixer amplifier shall have six universal inputs each comprising of a balanced microphone with XLR female sockets and an auxiliary input using dual Phono RCA sockets. A balanced XLR output to drive additional power amplifiers shall also be provided.

The amplifier master section shall include one master gain control, three EQ controls, one with 12dB of cut and boost at 100Hz, one with 12dB cut and boost at 600Hz and the other with 9dB of cut and boost at 10kHz. Speaker outputs shall be transformer isolated at 100 volt, 70 Volt and 4 ohms. The amplifier must be capable of delivering 250 watts RMS into a 40 inductive ohm load, with less than 0.5% distortion measured at 1 kHz and with system hum and noise less than -74dB.

The amplifier shall be an Audio Telex model ACM 250, manufactured in Australia.