

MC²

MC450

DIGITALLY CONTROLLED POWER AMPLIFIERS

INFORMATION

FEATURES

- Complementary class AB bipolar outputs, with unique floating drive stage for optimum audio performance.
- No dynamic switching of audio outputs or supply voltages.
- Sophisticated monitoring of load, temperature and parameters. If overheating occurs, the power supply is reduced to a safe level - protecting the unit without shut-down.
- Low noise vari-speed fans for quiet operation.
- User selectable clip limiter with "tight" and "easy" settings which track the supply voltages.
- Accurate peak level meters indicating headroom, which automatically adjust to power supply and load. These double as level control position indicators when adjustments to level are made.
- Mute switches with fade up on release. The "power on" sequence also starts in "mute" and fades the signal up to the previous setting, after checking the system.
- Optional cross-over cards available. 24dB/Octave Linkwitz Riley.
- Fully functional bi-directional remote control via RS485 available.
- "2 ohm" and "bridged mode" indicators on front panel.
- Level controls can be separate or linked. In "linked mode" adjustments are relative (both channels change by the same amount in dBs).
- Modular construction with proprietary heat sinks for ease of serviceability.
- Soft start "power on" sequence with full inrush protection.
- Full DC and short circuit (serious fault) protection which automatically reconnects when the fault is cleared. Front panel LEDs indicate fault condition.



MC² design and manufacture the most technologically innovative amplifiers of the highest quality for the pro-audio market. MC² amplifiers have been designed to be used in studio, disco and fixed installations. Endorsement of the quality of the amplifiers is perhaps best reflected by the fact that two of the world's top studio monitor manufacturers have appointed MC² as OEM suppliers.

Naturally audio quality is crucial but once MC²'s designers are satisfied that they have achieved world class audio quality they turn their attention to the practical problems of ease of use. Despite the sophistication of the amplifiers they are remarkably easy to work with and have the option of a comprehensive remote control facility.

When you buy an MC² amplifier you can be sure that you have invested in a digitally controlled power amplifier that is second to none.

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TECHNICAL INFORMATION

MC450

CONNECTORS

Inputs XLR 3 pin
Outputs Shrouded 4mm binding posts

CONTROLS

Rear panel 2 ohm/4 ohm load switch
Stereo/bridged mono switch

Front panel 2 x rotary encoders (level): 2 x mute switches
1 x level control link switch: 1 x power on/off switch

INDICATORS

2 x 6 LED peak level meters: 2 x mute: 2 x fault/DC: 2 x limit: 1 x link
1 x 2 ohm: 1 x bridged: 1 x power: 1 x temperature warning

SPECIFICATIONS

MC450

Output Power (Watts RMS) per channel

8 ohms @ 1 kHz	250
4 ohms @ 1 kHz	450
2 ohms @ 1 kHz	675

THD @ Rated Power 4 ohms
1 kHz
20Hz-20 kHz

<0.005%
<0.03%

Input CMRR

>90 dB

Hum & Noise

-105 dB

Sensitivity

+ 5 dBm signal drives full output into 4 ohms

Damping Factor 1 kHz, 8 ohms

> 400

Frequency response

20Hz-20kHz +0/-0.5 dB

Input impedance

10k ohms actively balanced

Dimensions

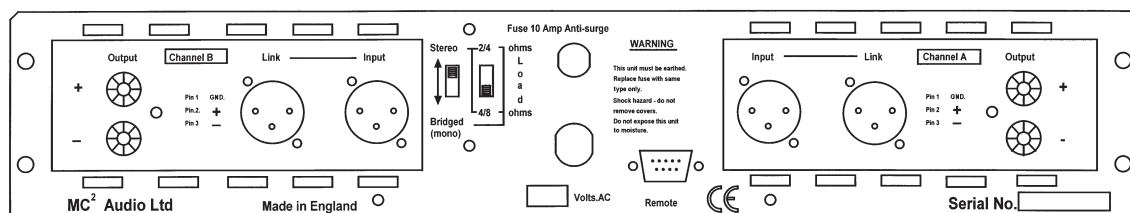
2U (88 x 482 x 381 mm)

Weight

20.4 kgs

Power requirement

230 VAC
@ 7.0 amps max
or
120 VAC
@ 14.0 amps max



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