



M X S E R I E S

MX5



FEATURES

Configurable system controller

2-way stereo or 3/4-way mono crossover operation

Plug-in programmable card facility

Advanced limiter design

Driver offset compensation and equalisation

19" 1 U standard rack mounting

Fully electronically balanced

Output LED indicators

The Martin MX5 is an advanced electronic controller which will optimise the performance of any Martin active 2, 3 or 4-way system. It can be used, for instance, in its 2-way stereo mode for the F1 and VRS systems, or as a 3 or 4-way mono unit for an F2 or W8 system.

Crossover frequencies, basic output levels and phase adjustments are all pre-set for a given system arrangement by means of an internal plug-in board dedicated for use with that particular system.

Selectable attack, programme dependent limiters in each passband can be set to eliminate amplifier clipping and an internal rotary switch is user adjustable to suit any amplifier sensitivity. Front panel bargraph metering includes limit indicators to monitor system headroom.

In addition to the standard plug-in board configuration, further options are available providing HF, LF and parametric equalisation plus all pass delay sections for driver offset compensation. A typical application for this would be the alignment of the direct radiator FSX sub-bass stacked with F Series or Wavefront horn loaded bass systems.

The MX5 features electronically balanced inputs and outputs. Minimum recommended output load impedance is 500 Ohms.

APPLICATIONS

2-way stereo system controller

3/4-way mono system controller

4 channel distribution amplifier

ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The electronic system controller shall operate as a stereo 2-way, or mono 3/4-way unit containing crossover slope, equaliser and delay circuitry. The output levels from the unit shall have preset limiters for loudspeaker protection.

All inputs and outputs shall be electronically balanced. Facilities for each output band shall include a mute switch with LED indication, -6dB to +6dB level control, and a -20dB to 0dB signal LED bar ladder indicator with separate limiter threshold indicator.

Electronic crossover frequencies, equalisation and delay parameters shall be set by programmable plug-in cards dedicated to the loudspeaker system under control. The power supply shall be capable of operating from a 100/120/220/240 Volts 50/60 Hz AC mains power source. Signal + noise/noise ratio >97dB 20Hz-20kHz quasi peak. Maximum input and output levels shall be +20dBV. Dimensions shall be 482mm x 45mm (1U) x 211mm. The weight shall be 3.5kg.

The electronic loudspeaker system controller shall be the Martin Audio MX5.



SPECIFICATIONS

MAINS SUPPLY	IEC mains connector with integral fuseholder and voltage selector switch
MAINS VOLTAGE	Selectable 100, 120, 220, 240, VAC 50-60Hz
INPUTS	XLR3-31 or equivalent > 36k electronically balanced, CMRR > 67dB @ 10kHz maximum level +20dBu Pin 1 n/c / Pin 2 + / Pin 3 -
OUTPUTS	XLR3-32 or equivalent < 50 Ohms electronically balanced with auto correction for unbalanced termination. Maximum level +20dBu into 500 Ohms (with limiter defeated) Pin 1 gnd / Pin 2 + / Pin 3 -
SIGNAL + NOISE/NOISE RATIO	>97dB @ 2V output 20Hz-20kHz quasi peak with open circuit input
FIXED FILTERS	Lowpass -3dB @ 35kHz 12dB/octave ultimately 18dB/octave Highpass -3dB @ 25Hz 24dB/octave or as defined by system parameters
SYSTEM PARAMETERS	Crossover frequencies and slopes, level matching and phase adjustments defined by plug-in board
OFFSET COMPENSATION	Driver offset compensation available via 10 all pass sections

LIMITERS	Individual band limiters with switchable threshold and programme related selectable attack times ratio 20:1
INDICATORS	10-LED display per channel; limiter onset, 8 x level indicators (in 3dB steps below threshold), output mute; plus over-limit indication
FRONT PANEL FACILITIES	Mains switch, power and system status indicator, mechanically latching mute switches, 4 x level controls (-6dB to +6dB)
PROTECTION	Auto-muting relays and soft start (4 secs)
GROUNDING	IEC direct to chassis Signal ground switchable on outputs, direct or lifted
DIMENSIONS	(W) 482mm x (H) 45mm x (D) 211mm (W) 18.9ins x (H) 1.8ins x (D) 8.3ins
SHIPPING DIMENSIONS	(W) 540mm x (H) 106mm x (D) 312mm (W) 21.2ins x (H) 4.1ins x (D) 12.3ins
WEIGHT	3.5kg (7.7lbs)
SHIPPING WEIGHT	4kg (8.8lbs)

Trade Descriptions Act: Due to Martin Audio's policy of continuing improvement, we reserve the right to alter these specifications without prior notice. Martin Audio is committed to refining the state of the art sound reinforcement combining in-depth product and field applications research with advanced manufacturing techniques. Every Martin product is built to the highest manufacturing standards and rigorously tested to ensure that it meets the performance criteria specified in the design.



MARTIN AUDIO LIMITED

19 Lincoln Road, Cressex Business Park, High Wycombe, Buckinghamshire HP12 3RD England
Telephone 01494 535312 (International +44 1494 535312) Fax 01494 438669 (International +44 1494 438669)



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