



W A V E F R O N T S E R I E S

WX3A



FEATURES

- Dedicated Wavefront Series controller
- 2-way stereo or 3/4 way mono operation
- Plug in Wavefront system-specific card
- Advanced limiter design
- Level controls and limiters on each band
- 19" 1U standard rackmount

APPLICATIONS

Control of Wavefront Series loudspeakers

The WX3A is an extremely versatile electronic controller designed to maximise the performance of Wavefront Series loudspeaker systems in their various modes of operation. Crossover frequencies, relative output levels, phase adjustment, group delay and equalisation are all pre-set for a given Wavefront system by a system-specific plug-in board.

It can be configured either as a two-way stereo or 3/4-way mono device depending on the Wavefront system in use and the application. As a two-channel device loaded with the appropriate plug-in board, it can provide either full-range and sub-bass outputs for the W1 and passive W2 or low and high outputs for the active W2 and W3. As a mono device it can provide sub-bass, low and high for the active W2 and W3 when used with sub-woofers.

Fast attack limiters in each band can be set to prevent amplifier clipping - limiter threshold being set by an internal rotary switch which is adjustable to suit any amplifier sensitivity. The WX3A does not require external amplifier sensing for limiter operation and so can be positioned near the mixer rather than in the amplifier rack.

ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The electronic system controller shall operate as a stereo 2-way or mono 3/4 way device containing crossover, equalisation, and limiter circuitry. Crossover frequencies, equalisation and delay parameters shall be set by a plug-in board dedicated to the loudspeaker system under control. All inputs and outputs shall be electronically balanced. Facilities for each band shall include -infinity to +6dB level control and signal present, limit threshold and limit LED indicators.

The power supply shall be capable of operating from a 100/120/220/240 volts 50/60Hz AC mains power source. Signal + noise/noise ratio >97dB 20Hz-20kHz quasi peak. Maximum input and output levels shall be +20dBV. Dimensions 482 x 45 (1U) x 211mm (19 x 1.8 x 8.3 ins). Weight 3.5kg (7.7lbs).

The system controller shall be the Martin Audio WX3A.



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 12dB/octave or as defined by system parameters
SYSTEM PARAMETERS	Crossover frequencies and slopes, level matching and phase adjustments defined by plug-in board

LIMITERS	Individual band limiters with switchable threshold and programme related selectable attack times ratio 20:1
INDICATORS	2-way stereo/3/4-way mono LED's. Signal present, threshold and limit LEDs on each band
FRONT PANEL FACILITIES	Mains switch, power and system status indicator, 4 x level controls (-infinity 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) 19ins 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. E & O E.

Martin Audio is committed to refining the state of the art sound reinforcement by combining in-depth product and field application 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.



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