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## MP.12B AUDIO MONITOR PANEL



*MP.12B with rack mount kit fitted*

When planning a large, multi-channel system there is often a need to incorporate an audio monitor panel to confirm that various key aspects of the system are functioning correctly. Such a facility is particularly appreciated by maintenance and support engineers who are able to quickly check through the various signals present within a rack. The MP.12B provides not only audio sampling, but a discrete bargraph display visual confirmation of the audio levels. The twelve input channels of the unit will accommodate various input levels between typical CD/tuner outputs, through low impedance power amplifiers, right up to 100V line level.

Input channels are fully isolated from each other, and are fitted with two-stage protection which is important when long loudspeaker lines are planned as these can often be subject to high voltage transients resulting from electrical storms.

Channel selection is highlighted by an array of LED's adjacent to a legend card used to denote the circuit "name". A highly specified monitor amplifier coupled to the high grade internal loudspeaker ensures a reliable, quality presentation.

Another useful facility is the remote controlled muting of the audio output, enabling local paging microphones to be used without any compromising howl-round, if required.

Internal circuitry and construction utilises the finest components and materials, and finish and appearance match other Mustang amplification equipment. Internal layout ensures convenient servicing access.

The MP.12B may be used as a stand-alone unit, or as a standard 19" rackmounting unit by fitting the supplied rackmount kit.

### MAIN FEATURES

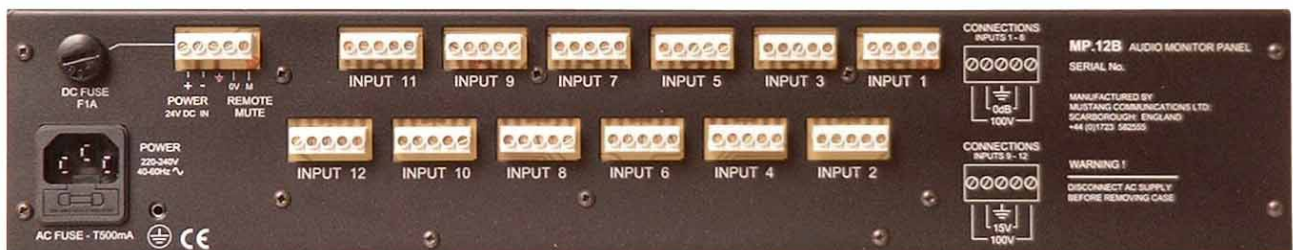
- 12 isolated inputs - including 8 which may be connected for 100V/0dB, and 4 for 100V/15V
- 5 pole bargraph for more accurate assessment of levels
- Full range audio amplifier and quality monitor loudspeaker
- AC mains and 24V DC powering, both controlled by front power switch
- Channel identification legend card with LED highlighting
- Comprehensive input protection, and break before make channel switching
- Balanced/unbalanced universal input circuitry
- Rack mountable by supplied kit
- Remote control of audio muting

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## TECHNICAL SPECIFICATION

DATA SHEET DS73-01

Input channels	8 channels for 100V line input or 0db input
	4 channels for 100V line or 15V line (typically 50W into 4 ohms or 25W into 8 ohms etc
Input mode	Precision electronic balanced
Input headroom	25dB @ 1kHz
Input transient protection	Two stage, primary - 33V and secondary - 15V
Input isolation	1500V between 100V circuits
Input channel crosstalk	better than -40dB, 60Hz to 10kHz, lines terminated. Typically -60dB
Input switching	Two pole. Break before make
Bargraph	5 pole. 6dB increments. Flying dot. +6dB is red, 0dB, -6dB, -12dB, -18dB are green
Remote muting control	Connect to 0V to mute. Requires 2mA switching capacity. +15V source.
Amplifier frequency response	-3dB @ 150Hz and 18kHz ref 1kHz
Amplifier output capacity	Nominally 2 Watts RMS, loaded to 0.5W
Loudspeaker specification	Wideband, 66mm cone, square chassis, rated at 3Watts
Power requirements	AC: 220-240V 50/60Hz. 5VA Limits 180-250V. T500mA x 20mm fuse
	DC +24V. 70mA quiescent, 300mA maximum. Limits 18-38V. Reverse polarity protected. F1A x 20mm fuse.
Connectors	IEC 6A standard for AC, Terminal blocks for all others. Capacity 2.5mm <sup>2</sup>
Rack mounting	19" rack mount kit included with the unit. Equivalent to Mustang BRK-20
Mechanical construction	Enclosed steel chassis. Powder coat
Weights and shipping volume	Net 5kg, gross 6.5kg, carton .04cu.M
Dimensions (W x H x D)	Case size 432 x 329 x 89mm. 483mm wide if rack mounting. Removable feet add 6mm, front control knobs add 20mm and rear terminals add 15mm.



### QUALITY ASSURANCE

Guided by a policy of non-obsolescence, every part for the MP.12B is carefully selected or manufactured direct from raw materials to ensure total control of all aspects of quality and delivery. Every sub-assembly and finished unit is exhaustively and individually tested. All procedures meet our internal Quality Assurance standards, which in turn are maintained to ISO.9002.

### CONTACT

We will be pleased to receive enquiries regarding application of the MP.12B, either by phone, fax, or email.

*In the interests of continuous development, specifications are subject to change without notice.*  
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Electromagnetic compatibility (EMC) directive 89/336/EEC and amendment directive 92/31/EEC  
This equipment has been designed and manufactured to the highest standards. If connected and operated as set out in this manual, there should be no Electromagnetic Compatibility problems. If any aspect of operation gives rise to concern, then please contact the manufacturer for advice.