

ZMR 243 ZONER

2 MICS, 4 STEREO INPUTS, 3 ZONES

The ZMR 243 has 2 low impedance balanced microphone inputs, 4 stereo line inputs and 3 stereo zone outputs with optional remote panels for source selection and volume control. Each stereo zone output can be used as 2 mono outputs (internal jumper).

Front panel controls are laid out in 3 identical groups that relate to the three zones. Each group has separate rotary controls for MIC 1 and MIC 2 volume, a rotary control for music volume, a push button input selector (with 4 LED indicators) and a LED indicating remote panel enabled.



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A group of 4 LED's indicates microphone 1 on, microphone 2 on, priority signal present and remote music dim/mute activated. A power switch completes the front panel controls.

The microphone inputs can be mixed or routed in any combination to any or all outputs and can be set for auto voice override(AVO) if required. Each of the microphone inputs have treble and bass tone controls (2 band equalisation) accessible through holes in the rear panel.

The stereo inputs can be individually selected to any output via the push button selector switch, pressing the button cycles through the various inputs and also enables the remote function which allows selection of the music sources (and volume control) from an optional remote panel. Adjacent LED's provided clear indication of selection.

If remote panels are used the selector switches on the ZMR 243 front panel can be disabled by pressing selector buttons 1 & 3 at the same time. Source select will then only be possible using the remote panels. Pressing selector buttons 1 & 3 at the same time again reverts back to normal operation.

The volume of the music source may be adjusted either from the front panel or from a remote panel, the front panel control may be internally bypassed so the volume is only controlled remotely if required. Remote zone selection on zones 2 & 3 may be linked to follow zone 1 by fitting a link between pins 1 & 4 on the remote connector. Remote volume control of these zones is unaffected.



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Accessible through the rear panel are gain trims for all inputs, also bass and treble controls for each zone. Input 1 (eg Jukebox) can be set as a priority input and automatically routed to selected outputs.



A 2 Zone version of the ZMR 243 is available, the third output is inactive, a plug in card can be retrofitted to a 2 zone ZMR 243 to make it a 3 zone ZMR 243.

Zone outputs may be operated as a pair of mono outputs sharing the same source, the front panel volume control sets the level for both mono outputs however 2 remote panels can be connected for independent control of each mono output volume.

Provision to connect the ZMR 243 to a fire alarm has been provided to satisfy the requirements of fire safety. This requires a fully isolated pair of contacts from the alarm panel. It is labelled as music dim/mute. This attenuation of the music signal is fully adjustable via an internal pre-set.



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Technical specification

Frequency Response:	20Hz - 20Khz +/- 0.5 dB (EQ set flat)	
Distortion:THD+Noise @ 1Khz	O/P Level 0dBu <0.01%	
Noise 20Hz - 20Khz	EIN < -100dBu	
Mic inputs 1 - 2 (XLR)	Input impedance	Balanced >2K Ohms
	Phantom power	15V internally selectable
	Gain 6 position switch	10dB - 60dB
	Maximum input level	+10dBu (2.4V)
	Noise 150R 20 - 20Khz	-126dB
	Equalisation - 2 band	+/- 12dB HF (Treble) @ 10Khz and LF (Bass) @ 200Hz
Stereo inputs 3 - 6 (phono sockets)	Input impedance	>10K Ohms
	Gain range	+12dB to -25dB
	Nominal input level	0dBu (775mV)
	Maximum input level	+20dBu (7.7V)
	Noise 20 - 20Khz	EIN -100dB
Zone outputs (6 pin sockets)	Output impedance	Balanced <100 Ohms (<50 Ohms unbalanced)
	Maximum output level	+20dBu (7.7V)
	Equalisation - 2 band	+/- 12dB HF (Treble) @ 10Khz and LF (Bass) @ 200Hz
Remote panels (4 pin sockets)	Source selection and volume control	
Power:	220V - 240V (110V to order). IEC Mains connector; mains fuse 250mA slow blow.	
Finish:	Front and Rear panels - Black anodised aluminium with silver legend. Case - Black plastic coated steel.	
Dimensions:	19" Rack mounting, 1RU Width 482mm (19") Depth 200mm (7.9") Height 44mm (1.75")	

Formula Sound reserve the right to alter the specification without notice.

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