

## MA247MR

# 5+1 zone 100V mixing amplifier with Tuner/MP3/USB/SD, 240W



The MA247MR is a 240 watts 6-zone 100 volt amplifier system with an integrated FM/AM tuner and a media player that allows playing MP3-songs from a USB memory stick or SD-card. This mixing amplifier has been improved with 24 volt dedicated priority output per zone for more listening and operating comfort. Control the volume in 6 different zones, have a different sound source in one zone compared to all other zones or do selective paging in all zones without interrupting the music in the other zones. There is nothing like this on the market! It can be used stand-alone, or as the core of an expandable sound system.

Because the MA247MR offers independent source selection for zones 1 and 2-6, it can be used as a multisource zoning system. Zone 1 is a fully independent preamplified zone and allows the installer to use an external power amplifier to amplify it. It is especially useful for large areas that require many speakers, like factory production areas. This has the particular advantage that the installer can use the external amplifier to suit his power needs for that particular zone.

Zones 2 to 6 can be individually volume controlled using the integrated speaker volume controls. Zones number 5 and 6 are 70-Volts outputs, these are compatible with 100 volt speakers, but by nature, these outputs will have a slightly reduced output level, meant for the 'quiet' zones in a multi-zone system.

MA247MR has four balanced inputs on Euro block. Microphone input 1 is optimized to be used with the Apart MICPAT-6, a selective 6-zone paging microphone, designed especially for use with the MA247MR. This microphone is the master microphone. Maximum five of these microphones can be switched in parallel on this single input! Microphone inputs 2 - 4 are designed to be used with the Apart MICPAT-2 (2 zone groups) microphone or any other microphone depending on the application.

On the MA247MR, you can preset 2 paging groups to be paged with microphones 2-4.

There are 6 different priority levels on the MA247MR. When any priority has been activated, integrated 24VDC supply output (max 0.6A) can switch priority relays of loudspeaker attenuators or other devices. In case of mains power failure, the MA247MR can be powered via the 24V DC power input. If an external 24V UPS is connected to the unit, the amplifier will automatically switch to it.

Professional installers will also appreciate the possibility to use an external amplifier as a paging amp. Suppose zones 2 and 3 should not receive paging messages, meaning there should always be background music. In this situation, the installer can use an external amplifier for paging. When a paging call is sent out, zones 2 and 3 will stay connected to the internal amplifier and will continue to receive background music. The other zones will hear the paging message. The MA247MR will disconnect these zones from the internal amp and will send the paging message to the external amp. When paging is finished, these zones will be switched back automatically to the internal amp.

When required, it is even possible to use a 2-channel amplifier (e.g. the PA2240BP) as external amplifier, with one channel assigned to power zone 1 of the MA247MR, while the second channel of the external amplifier is used to power paging messages.

This amplifier is also available as amplifier without tuner and media player (MA247).



## **TECHNICAL SPECIFICATIONS**

19" (483 mm wide) rack mountingyesheight- rack units (1U=44 mm) in U2depth (build in) in mm371depth (incl front) in mm390power supply230 VACemergency power supply24 VDCpower consumption (max) in watts800output power RMS 100 volts in watts240output power RMS 4 ohms in watts240output power RMS 8 ohms in watts120dynamic output power 100 volts in watts240minimum impedance load in ohms4output power tappings100 - 70 - 50 volts - 8 ohmszone outputs6MIC inputs balanced4inputs with Phantom power3line input balanced3line input unbalanced2tone controlyespriority switch7VOX muteyeschimeyesemergency inputyespriority output24 VDCpriority levels6frequency response (in Hz)40 - 25 ktuner (AM, FM, DAB,)yesCD/MP3 player (CD, MP3,)yescooling systemfanapplicable in 100Vyes				
power supply 230 VAC emergency power supply 24 VDC power consumption (max) in watts  output power RMS 4 ohms in watts  output power RMS 4 ohms in watts  dynamic output power 100 volts in watts  output power tappings 100 - 70 - 50 volts - 8 ohms 2 zone outputs  output sbalanced 4 inputs with Phantom power 3  line input balanced 3 line input unbalanced 2  tone control yes priority switch 7  VOX mute yes priority switch 7  VOX mute yes priority output 24 VDC  priority levels 6 frequency response (in Hz) 40 - 25 k  tuner (AM, FM, DAB,) yes CD/MP3 player (CD, MP3,) yes  cooling system fan applicable in 100V yes		yes		2
power consumption (max) in watts  output power RMS 4 ohms in output power RMS 9 ohms in watts  dynamic output power 100 volts in watts  output power tappings  100 - 70 - 50 volts - 8 ohms  in puts with Phantom power 3  line input balanced  4 inputs with Phantom power 3  line input unbalanced  2 tone control  yes  priority switch  7  VOX mute  yes  emergency input  yes  priority output  yes  cooling system  fan  output power RMS 100 volts in 240  autput power RMS 8 ohms in watts  120  autput power RMS 8 ohms in 120  autput power RMS 100 volts in watts  output power RMS 100 volts in watts  autput power changes  autput power autput power loo  autput power loo  autput power autput power loo  autput power autput power loo  autput power au	depth (build in) in mm	371	depth (incl front) in mm	390
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watts  dynamic output power 100 volts in watts  output power tappings  100 - 70 - 50 volts - 8 ohms  MIC inputs balanced  4 inputs with Phantom power  3 line input unbalanced  2 tone control  yes  priority switch  7  VOX mute  yes  chime  yes  priority output  yes  priority levels  6  frequency response (in Hz)  tone (AM, FM, DAB,)  yes  CD/MP3 player (CD, MP3,)  yes  cooling system  fan  minimum impedance load in  4  chims  pohms  6  frequency outputs  6  frequency response (in Hz)  yes  cooling system  fan  pplicable in 100V  yes		800	· ·	240
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line input balanced 3 line input unbalanced 2 tone control yes priority switch 7  VOX mute yes chime yes emergency input yes priority output 24 VDC priority levels 6 frequency response (in Hz) 40 - 25 k tuner (AM, FM, DAB,) yes cooling system fan applicable in 100V yes	output power tappings	100 - 70 - 50 volts - 8 ohms	zone outputs	6
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VOX mute yes chime yes emergency input yes priority output 24 VDC  priority levels 6 frequency response (in Hz) 40 - 25 k  tuner (AM, FM, DAB,) yes  cooling system fan applicable in 100V yes	line input balanced	3	line input unbalanced	2
emergency input yes priority output 24 VDC  priority levels 6 frequency response (in Hz) 40 - 25 k  tuner (AM, FM, DAB,) yes  cooling system fan applicable in 100V yes	tone control	yes	priority switch	7
priority levels 6 frequency response (in Hz) 40 - 25 k tuner (AM, FM, DAB,) yes CD/MP3 player (CD, MP3,) yes cooling system fan applicable in 100V yes	VOX mute	yes	chime	yes
tuner (AM, FM, DAB,) yes  cooling system fan CD/MP3 player (CD, MP3,) yes  applicable in 100V yes	emergency input	yes	priority output	24 VDC
cooling system fan applicable in 100V yes	priority levels	6	frequency response (in Hz)	40 - 25 k
	tuner (AM, FM, DAB,)	yes	CD/MP3 player (CD, MP3,)	yes
	cooling system	fan	applicable in 100V	yes
applicable low impedance yes Net weight product (kg) 13.70				



### **MORE PICTURES**







#### **ACCESSORIES**



MICPAT-D
All call dynamic paging microphone



MICPAT-6
Selective 6-zone paging station



MICPAT-2
Selective 2-zone paging station