

# 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 multi-source zoning system. Zone 1 is a fully independent pre-amplified 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.

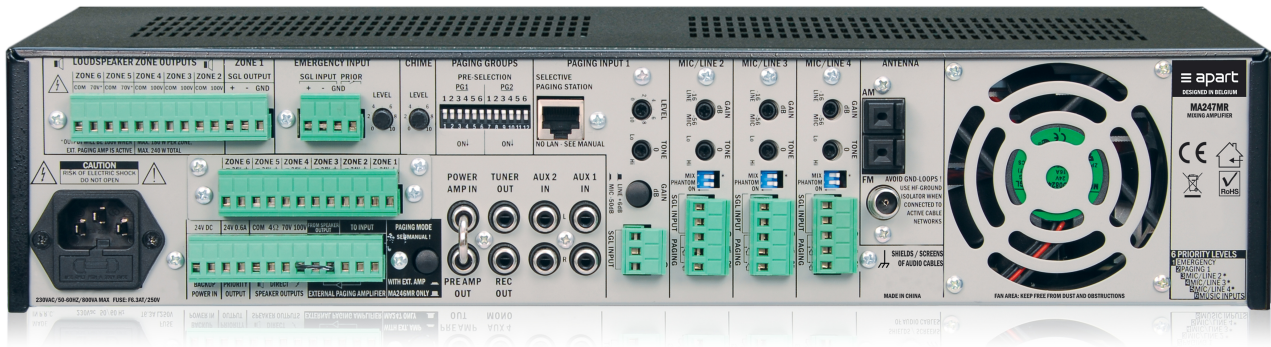
When required, it is even possible to use a 2-channel amplifier (e.g. the PA2240BP) as external amplifier, with one channel assigned to power zone 1 of the MA247MR, while the second channel of the external amplifier is used to power paging messages.

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

## TECHNICAL SPECIFICATIONS

19" (483 mm wide) rack mounting	yes	height- rack units (1U=44 mm) in U	2
depth (build in) in mm	371	depth (incl front) in mm	390
power supply	230 VAC	emergency power supply	24 VDC
power consumption (max) in watts	800	output power RMS 100 volts in watts	240
output power RMS 4 ohms in watts	240	output power RMS 8 ohms in watts	120
dynamic output power 100 volts in watts	240	minimum impedance load in ohms	4
output power tappings	100 - 70 - 50 volts - 8 ohms	zone outputs	6
MIC inputs balanced	4	inputs with Phantom power	3
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	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