



GLEMM PAA 240MZ
Amplificatore
P.A.System



GLEMM PAA 240MZ Amplificatore P.A.System Instruction Manual

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GLEMM PAA 240MZ Amplificatore P.A.System



THANK YOU FOR CHOOSING GLEMM BRAND

- The GLEMM product you have purchased is the result of careful planning by specialized engineers. High-quality materials were used for its construction, to ensure its functioning over time. The product is manufactured in compliance with the strict regulations imposed by the European Union, a guarantee of reliability and safety. Please read this manual carefully before starting using the device in order to exploit its full potential.
- Hoping that you will be satisfied of your purchase, we thank you again for your trust in our brand and we invite you to read our website www.glemm.eu where you will find the whole range of GLEMM products, along with useful information and updates.

CAUTIONS AND WARNINGS

Before making any connection, check that the unit is unplugged from the electrical outlet. All connections must be made with the appliance turned off.

- Read carefully the instructions provided in this manual and follow them strictly.
- Keep this manual for future reference and include it if you give the product to another user.
- This device works with dangerous 230V mains power. Do not open, do not disassemble and don't try to operate inside. In case of wrong use an electric shock may occur.
- The installation of this product must be carried out exclusively by specialized technicians, skilled in electric and audio systems. In case of wrong installation or connections, the manufacturer doesn't take any responsibility for damages to people or objects.
- The product is conceived for professional use. When you connect the fixture always check that the power outlet's voltage corresponds to the voltage set on the unit.
- The product is not suitable for outdoor use. To avoid the risk of shortcircuits don't expose it to high temperatures (above 35'), rain or humidity. Do not allow flammable liquid, water or objects to enter the product.
- Don't touch the product with wet hands.
- Install the product in a stable and ventilated position, far from heat sources and don't obstruct the air vents.
- Use the fixture and its controls with due accuracy, avoiding falls, vibrations or impacts.
- In the event of a serious operating problem, stop using the product immediately. Never try to repair it by yourself, but contact the authorized technical service center.
- Repairs carried out by unskilled persons could lead to serious damages both to the fixture and to people.
- Disconnect the unit from power when it is not used. Wait for the product to cool and disconnect it before cleaning or maintenance.
- If the product doesn't turn on, check the fuse and if necessary replace it with one of the same type and rating, after disconnecting the fixture from power. Do not turn the product on and off at short intervals, it may reduce the life of the device.
- Never disconnect the product from the power source by pulling on the cord.
- Do not cut, kink, or otherwise damage nor modify the power supply cord and periodically check that it is in good condition.
- To clean the product, use only a damp cloth, avoiding solvents or detergents of any kind.
- Keep away from children's reach

SHIPMENT AND COMPLAINTS

When purchasing or receiving the product, open the box and carefully check the content, to make sure that all parts are present and in good condition. Report any transport damage suffered by the device to the seller immediately. If you send the product for repair, it must be shipped with complete original packaging: we therefore recommend to keep it, along with the invoice or the purchase receipt.

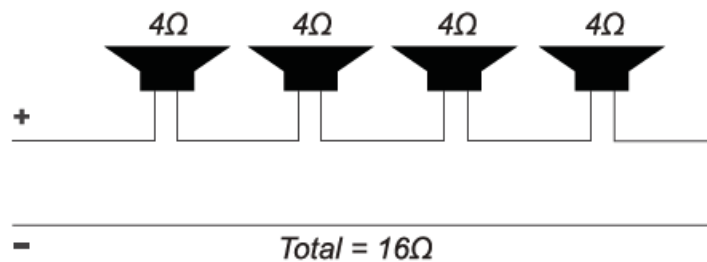
This amplifier has been designed for "P.A. system" purposes. It is used for example in offices, schools, churches, shops, shopping centers, restaurants, convention centers, auditoriums, etc.

It is endowed with protection systems preventing damages caused by short circuits, overheating and overloads and making it safe and reliable.

It comes with 6 inputs 11 mic + 3 line/ mic + 2 line) and a RCA output. The mic inputs 2,3 and 4 also support phantom power supply. It can manage both 4,8, 16 Ohm and 70V / 1 DOV constant voltage connections.

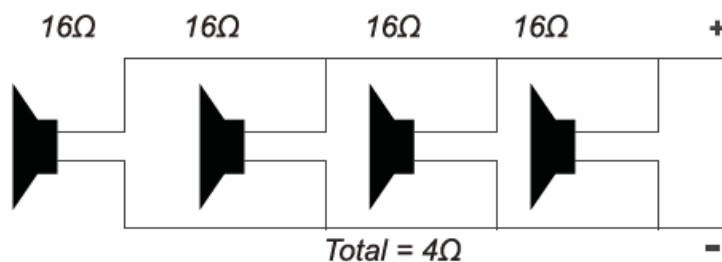
IMPEDANCE SPEAKERS CONNECTION

This type of connection does not allow to limit individually the power of each single speaker, but it gives the possibility to obtain higher performances. The main rule to be respected is that the total impedance of the speakers must be compatible with the impedances managed from the amplifier to which the speakers will be connected (generally 4, 8, 16 Ohm). If you use more than one speaker, the value of impedance will be added up or divided depending on the type of connection (in series or in parallel). If you connect only one speaker you have to consider the impedance of the speaker itself. Here are two examples of connection:



Series wiring

The impedances add up. In this example the 4 x 40 speakers can be connected to one amplifier suitable for 160 connections.

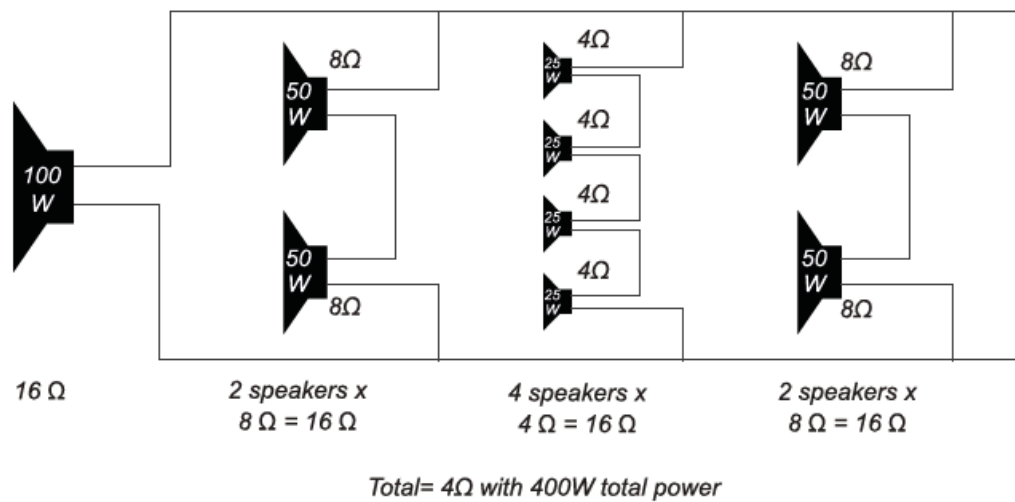


Parallel wiring

The impedances are divided. In this example the 4 x 160 speakers can be connected to one amplifier suitable for 40 connections.

Until you use few speakers it is easy to reach 4, 8, 16 Ohm required by common amplifiers, but when using more speakers, it is necessary to choose a type of mixed series / parallel connection allowing us to obtain the desired impedance.

Here is an example

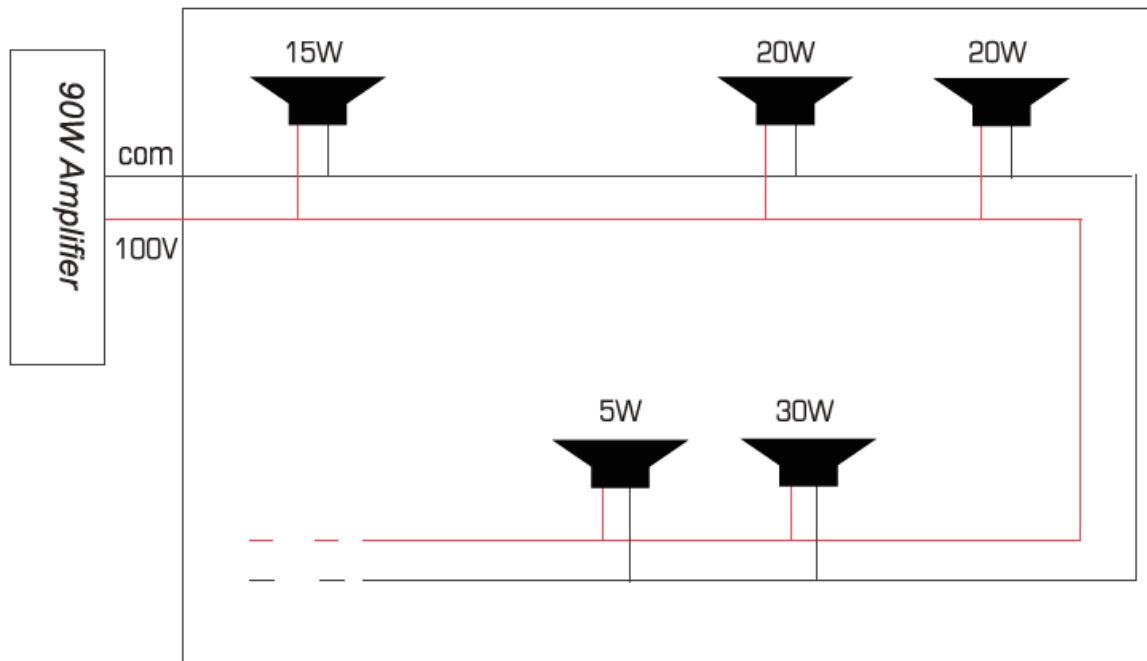


Series / parallel mixed wiring

In this example the impedance of the 4 and 8Ω speakers is added [being connected in series]. Then the 4 groups of speakers, connected in parallel, halve their impedance to reach a total impedance of 4Ω.

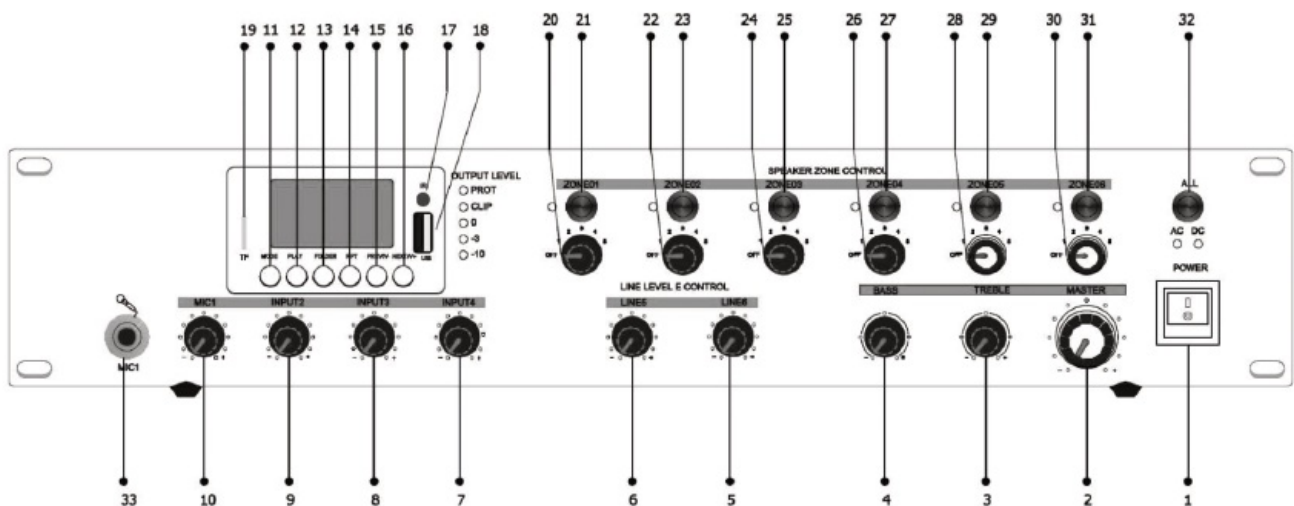
CONSTANT VOLTAGE SPEAKER CONNECTION

- It is the type of monophonic system realized in shops, conference rooms, churches and in any environment where a uniform sound diffusion is necessary, with maximum ease of installation and use. Only 2 wires are used, starting from the amplifier and getting up to the last speaker. On the amplifier you have to connect a
- wire to the "com"[common] terminal and the other wire to the terminal indicating 1 DOV.
- The two wires will go all around the installation, and they will be connected to the speakers or rather the transformers included in the speakers.
- The speakers of this type, have generally a selector to set the emission power, from the minimum to the maximum value supported by the transformer.
- As a matter of fact, it is possible to connect to the same 2 main wires, a number of speakers, even different from each other or with different power. The amplifier signal will reach the transformer present in each speaker and the transformer will provide the desired power.
- When you operate on the amplifier volume, you will increase or lower the volume of all speakers in proportion. Important: the sum of the maximum power of the speakers must be equal to or less than the amplifier's maximum power .

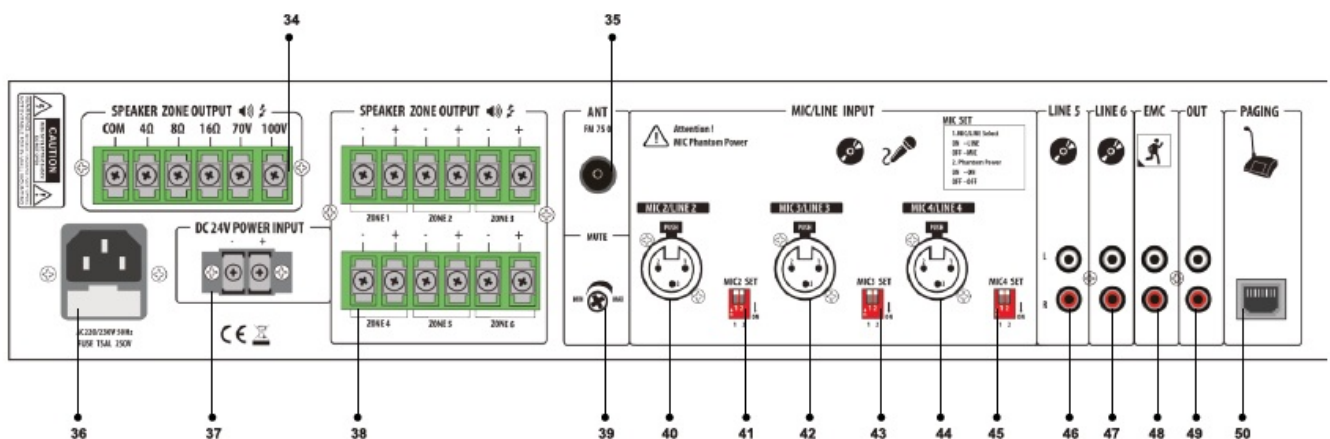


- EXAMPLE: You connect to the system 5 speakers for a total of 90W. The amplifier handles up to 110W: so in the future you will be able to connect other speakers, up to reach the amplifier's maximum power.

FRONT SIDE



REAR SIDE



FUNCTIONS

1. On/off button
Use it to turn on the product.
2. Master volume
It adjust the master volume level.
3. Treble
It adjusts the high tones.
4. Bass
It adjusts the bass tones .
5. Line 6
It adjusts the volume of the sockets 47
6. Line 5
It adjusts the volume of the sockets 46
7. Input 4
It adjusts the volume of the sockets 44
8. Input 3
It adjusts the volume of the sockets 42
9. Input 2
It adjusts the volume of the sockets 40
10. Mii:1
It adjusts the volume of the socket 33
11. Mode button
Press this button to choose the desired mode. It will possible to activate also the Bluetooth mode.
12. Play/ Pause button
Use it to play/ pause the tracks
13. Folder button
Press it to access the folders in the memory device.
14. RPT Button
Press it to activate the repetition of a single MP3 track or of the whole folder.
15. Prev- button
Pres this button to choose the previous track or scan the track quickly backwards.
16. Next+ button
Pres this button to choose the next track or scan the track quickly forward.
17. IR SENSOR
This sensor receives the signal from the remote control.
18. USB port
You can plug here USB sticks in FAT32 format.
19. TF PORT
You can insert here microsd cards in FAT32 format.
20. 20. Zone1 volume
21. Zone 1 activation button
22. Zone 2 volume
23. Zone 2 activation button
24. Zone 3 volume

25. Zone 3 activation button

26. Zone 4 volume

27. Zone 4 activation button

28. Zone 5 volume

29. Zone 5 activation button

30. Zone 6 volume

31. Zone 6 activation button

32. All zones activation button

33. MIC 1 socket

You can connect here a microphone with 6,3 mm connector, taking advantage of the priority function. On the back XLR sockets MIC-LINE the priority function is instead not available.

34. Sockets for speakers

If you don't use the zones, you can connect the ground wire to the COM connector and the other wire according to the desired kind of connection. Always address to a professional installer. Wrong impedances or tensions could damage the fixtures.

35. Antenna socket

36. AC 11D/230V power socket.

37. DC 24V power socket.

38. Sockets for zone speakers.

You can connect here up to 6 constant voltage lines of speakers, using the + and – connectors.

39. Mute adjustment

40. Signal socket 2

It is possible to connect here a microphone or a line signal through XLR connector. The type of signal is to be set through the switch (41 I, while the control (91 adjusts its volume .

41. Dipswitch for socket 40

42. Presa segnale 3

It is possible to connect here a microphone or a line signal through an XLR connector. The type of signal is to be set through the switch (43), while the control (61 adjusts its volume.

43. Dipswitch for socket 42

44. Signal socket 4

It is possible to connect here a microphone or a line signal through an XLR connector. The type of signal is to be set through the switch (45), while the control (71 adjusts its volume.

45. Dipswitch for socket 4

46. Line5 sockets

You can connect here, through RCA connectors, a line signal adjustable through the volume control (61.

47. Line& sockets

You can connect here, through RCA connectors, a line signal adjustable through the volume control (51.

48. EMC input

Emergency priority input for evacuation or service messages.

49. OUT sockets

The whole mixing signal is sent to these RCA sockets.

It is intended for other amplifiers

50. Paging

It is the socket for the RJ45 cable [intended for the optional microphone, model Glemm PM 1 I

WARRANTY CONDITIONS

The product is covered by warranty according to current national and European regulations.

For detailed warranty conditions and AMA requests please refer to our websites: www.glemm.eu and www.karmaitaliana.it

- The warranty covers manufacturing defects and faults occurred in the first 2 years from the date of purchase. In case of purchase with invoice, the warranty is limited to 1 year.
- Damages caused by negligence or wrong use of the device are not covered by warranty.
- The warranty is no longer effective if the item is modified or disassembled by not authorized people.
- This warranty doesn't necessarily envisage the product's replacement.
- External components, batteries, knobs, switches and any removable or subject to wear and tear parts are excluded from warranty.
- Shipment for the return of faulty items is at expense and risk of the owner.
- For all intents and purposes the warranty is effective only upon exhibition of the invoice or of the purchase receipt.

EU COMPLIANCE DECLARATION

Hereby, KARMA ITALIANA SAL declares that the radio equipment type amplifier with bluetooth PAA 240MZ, PAA 480MZ, PAA 1 □□DMZ is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.karmaitaliana.it

The manufacturer, in order to improve its products, reserves the right to modify their characteristics whether technical or aesthetic, at any time and without notice.

TROUBLESHOOTING

We list below the most common problems you can meet, trying to help you to solve them. If, after you have followed our instructions, the problem still persists, turn off the unit, disconnect it and contact our authorized technicians.

TROUBLES	POSSIBLE CAUSES	TESTS AND SOLUTIONS
THE UNIT IS NOT POWERED	<ul style="list-style-type: none"> • Lack of power supply • Damaged power cord • Defective internal power supply • Blown fuse 	<ul style="list-style-type: none"> • Check power supply • Check the power cord • Contact technical service • Replace the fuse
SPEAKERS DO NOT EMIT AUDIO	<ul style="list-style-type: none"> • Wrong connections • Speakers are not compatible • Power supply circuit damaged 	<ul style="list-style-type: none"> • Check that the cables are connected to the correct terminals • Check the impedance or voltage • Contact the technical service
MP3 FILES ARE NOT RECOGNIZED	<ul style="list-style-type: none"> • The USB flash drive is not formatted • The formatting is not correct • The tracks are not Mp3 format 	<ul style="list-style-type: none"> • Format the stick • Verify that it is FAT32 • Other formats may not be recognized
BLUETOOTH FUNCTION NOT WORK	<ul style="list-style-type: none"> • Device not found 	<ul style="list-style-type: none"> • Check to find device on the list
THE ZONES' VOLUME CANNOT BE ADJUSTED	<ul style="list-style-type: none"> • You are using 8 Ohm connections • Wrong connections 	<ul style="list-style-type: none"> • Zones are available only for 100V constant voltage systems • Check that the cables are correctly connected to the terminals
UNIT RUNS INTERMITTENTLY	<ul style="list-style-type: none"> • Unit is too hot 	<ul style="list-style-type: none"> • Wait for the fixture to cool down and make sure the fan is not obstructed. The fixture must always be placed in an ventilated position.

- This symbol alerts you of the presence of important operating and maintenance instructions, in the manual or in the documentation accompanying the product.
- This symbol alerts you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.
- To prevent possible hearing damage. do not listen at high volume levels for long periods.



- The CE mark indicates that this product complies with the applicable European directives and their related standards. Compliance documentation in complete form is available at the company Karma Italiana Srl
- Ai sensi del Decreto Legislativo N°49 del 14 Marzo 2014 – “Attuazione delle Direttive 2012/19/UE sui rifiuti di apparecchiature elettriche ed elettroniche IRAEEJ”.
- Directive 2012/19/UE regarding electric and electronic equipment waste IWEEEI.
- The symbol of the crossed-out dustbin indicates that the product at the end of its life must be collected separately from other waste . The user must , therefore , confer the fixture complete with all the essential components to an authorized disposal center for collection of electronic and electrical waste, or return it to the dealer when buying new equipment of equivalent type, at a rate of one to one, or one to zero if external dimension is less than 25cm. Appropriate separate collection to send the decommissioned equipment to recycling , treatment and environmentally compatible disposal helps to prevent negative impact on the environment and human health and promotes recycling of the materials making up the product. In Italy illegal dumping of the product by the user entails the application of administrative sanctions pursuant to Legislative Decree n. 49 (14/03/2014).



- The product's remote control is powered by a battery, which according to the European Directive 2013/56/EU, cannot be disposed of with normal household waste. Please inquire about the local regulations regarding the separate collection of batteries: a correct disposal allows to avoid negative consequences for the environment and health .


TECHNICAL SPECIFICATIONS

MAX POWER	240W (PAA 240MZ), 480W (PAA 480MZ), 1000W (PAA 1000MZ)
RMS POWER	120W (PAA 240MZ), 240W (PAA 480MZ), 500W (PAA 1000MZ)
POWER SUPPLY	230V~ 50Hz / DC 24V 
TONE CONTROLS	Bass-Treble
OUTPUT VOLTAGE	70V - 100V
OUTPUT IMPEDANCES	4-8-16 Ohms
LINE INPUTS	6 (1 mic + 3 line/mic + 2 line)
MIC INPUTS	4 (3 con phantom)
LINE OUTPUTS	1
BLUETOOTH	Yes - 2.4 Ghz
MP3 PLAYER	Yes (USB and Micro SD)
MULTIZONE	6 zones
RADIO	FM
RACK MOUNT SPACE	2U
DIMENSIONS	484 x 88 x 405 mm
WEIGHT	9,5 kg (PAA 240MZ), 10 kg (PAA 480MZ), 11 kg (PAA 1000MZ)

Prodotto da / Produced by: KARMA ITALIANA SAL Via Gozzano 38 bis
21052, Busto Arsizio (VA) – Italy

www.glemm.eu

Documents / Resources

	<p>GLEMM PAA 240MZ Amplificatore P.A.System [pdf] Instruction Manual</p> <p>PAA 240MZ Amplificatore P.A.System, PAA 240MZ, Amplificatore P.A.System, P.A.System, System</p>
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References

- [User Manual](#)

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