

PROX-240Z

BLUETOOTH®/USB/FM PA AND ZONE PA AMPLIFIER

AMPLIFICADOR DE MEGAFONÍA BLUETOOTH®/USB/FM Y ZONAS

AMPLIFICATEUR PUBLIC ADDRESS BLUETOOTH®/USB/FM ET ZONES

AMPLIFICADOR DE MEGAFONIA BLUETOOTH®/USB/FM E ZONAS



INSTRUCTION MANUAL/MANUAL DE USUARIO/
MODE D'EMPLOI/MANUAL DE INSTRUÇÕES

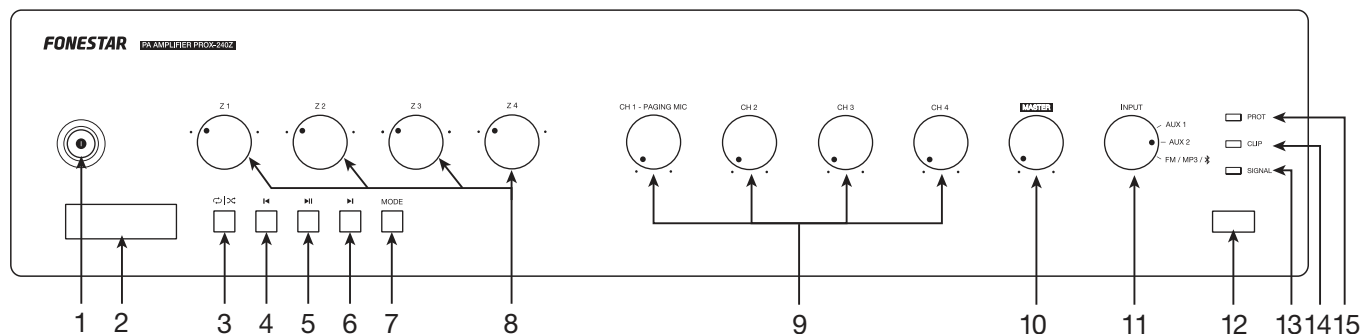
FONESTAR

DESCRIPTION

- Distributed audio for PA installations with 100 speakers, also with low impedance output.
- Versatile player for background music.
- It has 4 zone outputs with volume control for different music levels per zone.
- User-friendly operation and a modern, discreet design.

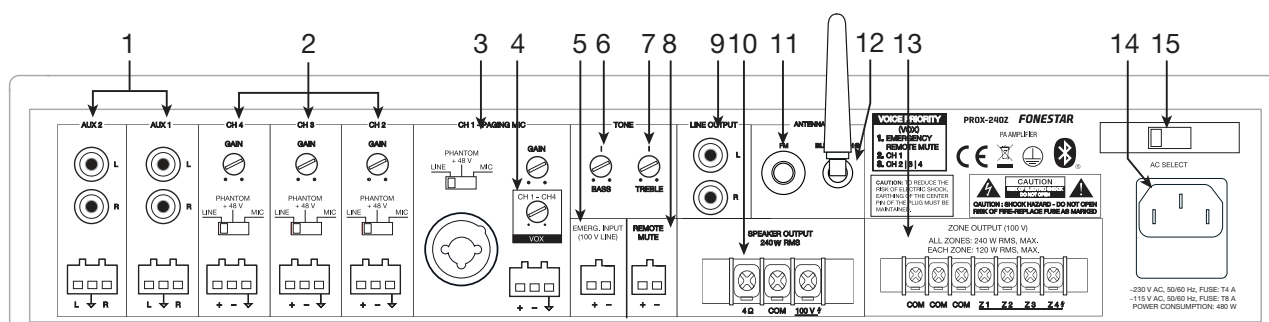
CONTROLS AND FUNCTIONS

FRONT PANEL



- 1.- : indicator light and on/off switch of the amplifier.
- 2.- Information display.
- 3.- : in USB mode, enable/disable random play.
 - RPT ONE: repeats 1 song.
 - RPT ALL: repeats all.
 - RANDOM: plays all songs in random order.
- 4.- : a long press decreases the volume of the player. A short press, in Bluetooth® or USB mode jumps to the previous audio track; in FM mode it jumps to the previous stored frequency.
- 5.- : in Bluetooth or USB mode it plays/pause audio playback; in FM mode, it auto-stores of all detected frequencies with sufficient signal quality.
- 6.- : a long press increases player volume. A short press, in Bluetooth or USB skips to the next audio track, in FM mode skips to the next stored frequency.
- 7.- **MODE**: short presses of this button allow you to change the mode on the player to choose the desired audio source.
- 8.- **Z1/Z2/Z3/Z4**: volume controls for output zones Z1, Z2, Z3 and Z4 on the rear panel.
- 9.- **CH 1- PAGING MIC/CH2/CH3/CH4**: controles de volumen de las entradas CH 1, CH 2, CH 3 and CH 4 inputs on the rear panel.
- 10.- **MASTER**: control de volumen de la entrada seleccionada por el selector INPUT.
- 11.- **INPUT**: input source selector: AUX 1, AUX 2 or the built-in player (FM radio, MP3 or Bluetooth).
- 12.- USB port for audio file playback.
- 13.- **SIGNAL**: output signal status LED indicator. Lights up when signal is detected at the outputs.
- 14.- **CLIP**: output signal peak LED indicator. If it is turned on, you must reduce the volume of the input that produces it and/or the output. Do not allow this indicator light to remain on continuously.
- 15.- **PROT**: protection LED indicator. Lights up when the amplifier protection is activated to prevent component damage. With protection enabled, the audio output of that channel is cut off. If this happens, turn off the device, make sure that the air intake and exhaust slots are clear of obstructions, turn down the volume of the input signal and check that the speakers connected to the output are working properly and are suitable for this output (power and impedance). Wait a few minutes for the appliance to stabilize before you switch it on again.

REAR PANEL



- 1.- **AUX 1/AUX 2:** stereo auxiliary inputs for connection of audio devices such as mixers, computers, etc. These inputs have 2 connector options, 2 x RCA or euroblock.
- 2.- **CH2/CH3/CH4:** audio inputs from dynamic microphone (MIC), condenser microphone (PHANTOM +48V) or lines (LINE), balanced eurolock connector. Once the input type has been selected with the MIC/PHANTOM +48 V/LINE selector, the gain of the input can be adjusted with the GAIN control.
- 3.- **CH 1 - PAGING MIC:** priority audio input for dynamic microphone (MIC), condenser microphone (PHANTOM +48 V) or lines (LINE), balanced combo connectors (XLR and 6.3 mm jack) and eurolock. Once the input type has been selected with the MIC/PHANTOM +48 V/LINE selector, the gain of the input can be adjusted with the GAIN control.
- 4.- **VOX CH 1 - CH 4:** setting the sensitivity to make the CH 1-4 inputs priority over all other signals. Depending on this setting, the signal level required at the CH 1-4 inputs to cut audio from other sources will be higher or lower. If the VOX control is set to minimum, no audio will be cut off from any output when there is signal on CH 1-4. Please note the order of priority of the amplifier inputs, for more information see section CONNECTION - PRIORITY OF INPUTS.
- 5.- **EMERGENCY INPUT:** 100 V audio input for connecting an emergency system, euroblock.
- 6.- **BASS:** boosts/attenuates low frequencies.
- 7.- **TREBLE:** boosts or attenuates high frequencies.
- 8.- **REMOTE MUTE:** mute/unmute the speaker output remotely with the help of a switch, euroblock connector. This input is in open circuit, to silence it you must close the circuit.
- 9.- **LINE OUTPUT:** line output, 2 x RCA connectors. The output level is affected by the volume of the inputs and the MASTER.
- 10.- **SPEAKER OUTPUT 240 W RMS:** 4 Ω low impedance speaker output and 240 W RMS 100 V, threaded connectors. Please note that the choice of low impedance speakers must conform to the amplifier specifications for serial or parallel connection (only parallel for 100 V line) to obtain power and impedance appropriate to the amplifier output.
- 11.- **ANTENNA - FM:** input for connection of an FM antenna.
- 12.- **ANTENNA - BLUETOOTH:** Bluetooth signal antenna.
- 13.- **ZONE OUTPUT (100 V):** 100 V line speaker output of 240 W RMS maximum to be shared between the 2 zones. It is possible to connect 1 single zone and use the 120 W RMS provided by the amplifier, threaded connectors. Please note that the choice of low impedance speakers must conform to the amplifier specifications for serial or parallel connection to obtain power and impedance appropriate to the amplifier output.
- 14.- 115/230 V amplifier power supply input.
- 15.- **AC SELECT:** power supply voltage selector. If you need to change the voltage you should be aware that the fuse must be modified as specified on the product.

BASIC OPERATION

Select the operating mode using the INPUT control on the amplifier front panel.

FM/MP3/⌘ INPUT

Select the mode with the MODE button:

FM RADIO MODE

- Select FM mode on the amplifier
NOTE: to use this mode, you need to connect an antenna to FM ANT on the back panel.
- Perform an automatic tuning of the stations to start using this mode by pressing ►||.
- Once finished, you can select the station you wish to listen to from among those already set with ◀ and ▶.

MP3 MODE

- Connect the USB device.
- Press ◀ and ▶ to change the song or ►|| to play/pause playback.

BLUETOOTH MODE

- Select Bluetooth mode on the amplifier to pair your smartphone or tablet from which you want to send audio.
- On your smartphone/tablet, turn on Bluetooth mode, search for the NEXT device and select it.
- Finally, select the music on your smartphone/tablet and start playback.
- Press ◀ and ▶ to change the song or ►|| to play/pause playback.

NOTE: make sure your smartphone/tablet is loud enough to be heard through the amplifier. This allows you to control the volume from the amplifier itself at a later time without having to operate any other equipment.

AUX 1/AUX 2 INPUTS

- Select the desired mode by having the signal connected to the corresponding connector input on the rear panel of the amplifier.
- Activate the audio device (player, mixer, PC, smartphone, etc.) connected to the input to start playback.

NOTE: make sure that the signal from your audio device is loud enough to be heard through the amplifier. This allows you to control the volume from the amplifier itself at a later time without having to operate any other equipment.

CONNECTION

IMPORTANT: refrigerate the amplifier properly. To do this, make sure that the place where it is installed has access to airflow and that the slots in the chassis are free of obstructions.

- With the amplifier switched off, connect all audio sources AUX, CH, EMERG. INPUT. If you are going to use the FM radio, you will need to connect an FM reception antenna.
- Connect the speakers to the corresponding low impedance output* (4 Ω + COM) or 100 V line* (100 V + COM) or zones* (Z1 + COM, Z2 + COM, Z3 + COM, Z4 + COM) or to the stereo line output (LINE OUTPUT).

***IMPORTANT:** for proper operation and performance of the equipment, use the correct power, impedance and frequency limits. Before connecting to other equipment, be aware of the conditions required in a HIGH IMPEDANCE (100 V) and LOW IMPEDANCE installation. More information can be found at:

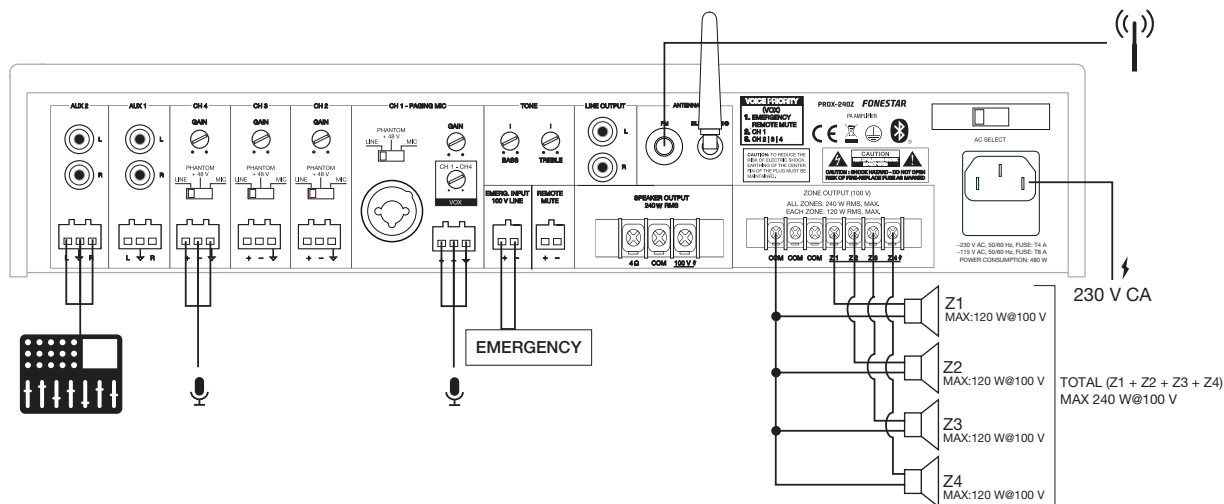
fonestar.com/downloads/install_fonestar_en.pdf

- Check that the volume and gain controls are at minimum, connect the amplifier to power.
- Turn on the amplifier and select input with the INPUT control and mode with the MODE button if FM/MP3/⌘ input is selected.
- Finally, adjust all volume, gain and equalization controls (BASS and TREBLE).

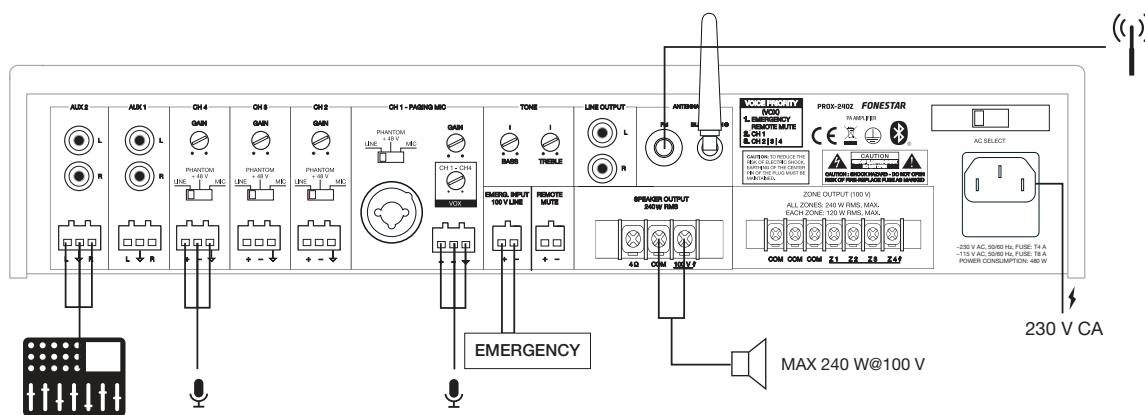
INPUT PRIORITY

- The EMERG input INPUT has the highest priority attenuating all other inputs when the input has a signal.
- CH 1 input has priority over inputs CH 2, CH 3, CH 4, AUX 1 y AUX 2 and the player. This priority is by signal level and can be selected with VOX control.
- And the CH 2, CH 3 and CH 4 inputs has priority over inputs AUX 1, AUX 2 and the player and its priority is set with the VOX control, just like as CH 1.
- The REMOTE MUTE input attenuates all inputs except the EMERG input. INPUT when a contact closure of its terminals is performed.

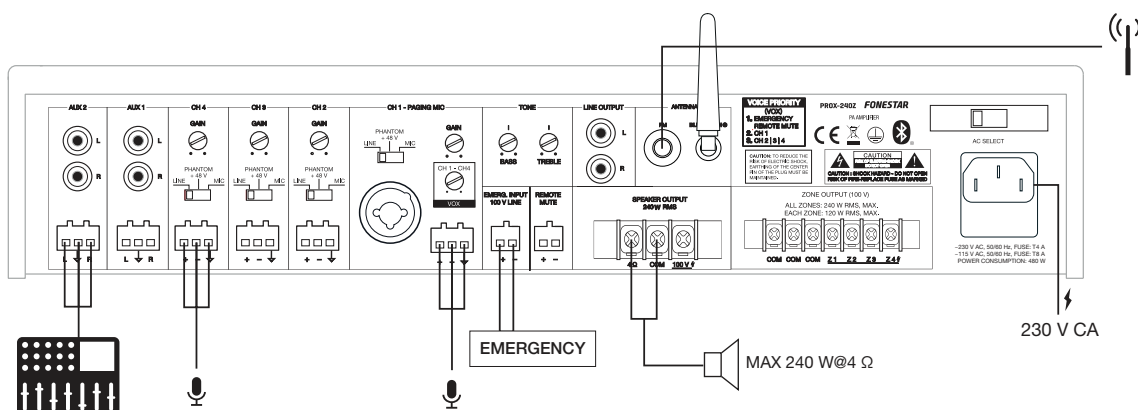
2 ZONE - 100 V LINE



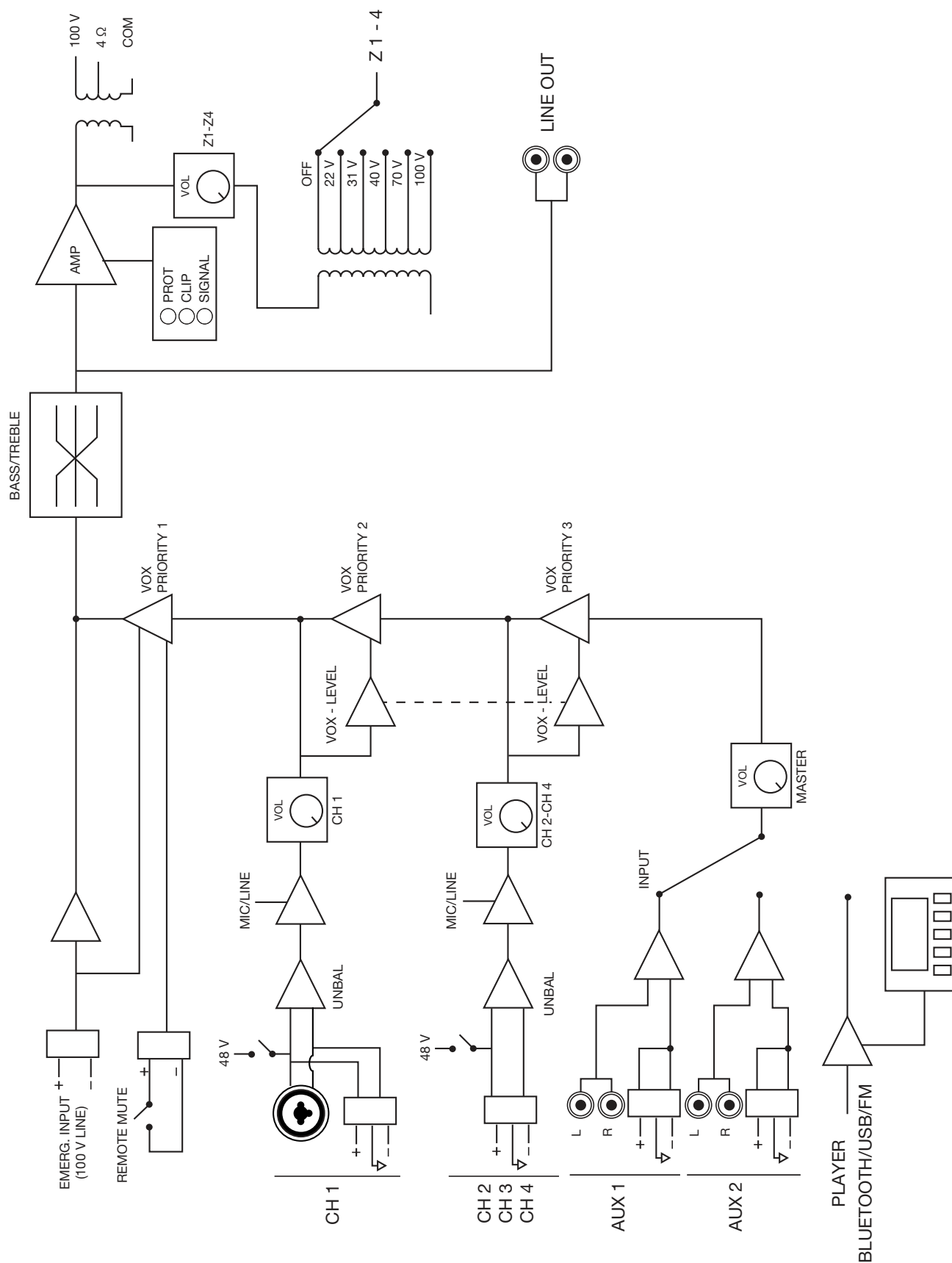
100 V LINE



LOW IMPEDANCE



BLOCK DIAGRAM



SIMPLIFIED EU DECLARATION OF CONFORMITY

FONESTAR SISTEMAS S.A. hereby declares that the BLUETOOTH/USB/FM PA and zone PA amplifier PROX-240Z

The complete text of the EU Declaration of Conformity is available at the following internet address:

fonestar.com/PROX-240Z

TECHNICAL SPECIFICATIONS

	PROX-240Z
FEATURES	Public address amplifier. Bluetooth/USB/FM player. Microphone input with mix, gain and priority level control. Input priorities by signal level. Tone controls. 100 V and 4 Ω outputs. 4 outputs zones with volume control and Off.
POWER	240 W RMS
RESPONSE	40-20,000 Hz (-10 dB)
DISTORTION	THD+N: <1% @ 1 kHz
S/N RATIO	>77 dB
PROTECTIONS	Overcurrent, DC and short-circuit at the output
INPUTS	CH 1 balanced mic/line with 48 V Phantom, Combo (XLR + 6.3 mm) and euroblock CH 2, 3 and 4 balanced mic/line with 48 V Phantom. Euroblock connector Mic signal level: 6 mV RMS (-44 dBV)/600 Ω Line signal level: 250 mV RMS (-12 dBV)/100 k Ω 2 AUX. 2 x RCA and euroblock connector. Signal level 300 mV RMS (-10 dBV)/47,000 Ω 1 emergency. Euroblock connector. Signal level loudspeaker line 100 V 1 Mute (Emergency Priority) by contact closure. Euroblock connector
OUTPUTS	1 line. 2 x RCA connector. Signal level 1.25 V RMS (+2 dBV) 100 V or 4 Ω speaker output, or 4 100 V speaker zones with 5-position volume selector and OFF (max. 120 W RMS per zone). Connector screw terminals
IMPEDANCE	4 Ω and 100 V line (42 Ω)
FUNCTIONS	Input priority (voice over VOX inputs): 100 V Emergency input with highest priority, attenuates all other inputs Mute by contact closure, attenuates all inputs except the 100 V Emergency input Channel 1 with priority over all other inputs, level selectable Channel 2, 3 and 4 with priority over auxiliary inputs and player, level selectable Other functions: Power on, protection, signal peak and output signal indicator lights Temperature-controlled forced ventilation cooling
PLAYER	Bluetooth/USB/FM player for background music playback MP3 and WAV files supported Maximum USB memory capacity 64 GB Autoplay, starts playback automatically on power on Memory of last selected mode Play mode memory (random, repeat)
CONTROLS	Microphone volume Mic/line/phantom selector Master volume Aux input or player selector Zone volume Tone: bass and treble (± 10 dB 100 Hz and 10 kHz) Microphone gain Priority activation signal level (VOX)
TEMPERATURE	Operation: 0° ~ 40°C
MAXIMUM HUMIDITY	95%
POWER SUPPLY	230/115 V AC 50-60 Hz, 480 W Fuse AC 230 V 4 A/115 V 8 A
DIMENSIONS	433 x 89 x 360 mm depth. 2 U 19" rack
ACCESSORIES	FM Antenna Bluetooth antenna Power cable Rack mounts

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