Voice Evacuation System

EN54 Fireproof Wall-Mounted Speaker
DSP207EN



User Manual

Thank you for choosing our product. To ensure optimal use of this device, please read the manual carefully before operation.

Guangzhou DSPPA Audio Co., Ltd.

https://www.dsppatech.com/

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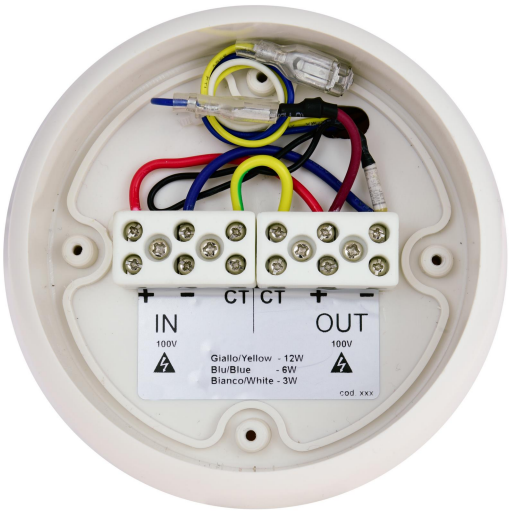
1. Description

On wall or shelf projector 100V speaker, 12W – 6W – 3W, power taps, EN54-24:2008 standard certified.
Plastic body made in ABS V0 type, Protection grid in aluminium. Suitable for indoor installation, IP rate protection: IP54.
Wide band bi-cone 5" speaker, audio transformer for connection to 100V or 70V lines, thermal fuse for protection of the speaker line in case of overheating, dual IN-OUT ceramic connector.
Including aluminium fixing bracket, waterproof cover and IN-OUT cable glands for easy daisy-chain speakers' connection.

2. Installation

The speaker can be installed on external masonry walls, columns, false ceilings and / or plasterboard walls, beams, wooden ceilings, etc. through the supplied bracket, equipped with three Ø 6mm holes for fixing with screws and plug. The bracket is fixed to the body of the loudspeaker with stainless steel bolts and rubber gasket (see photo).
The loudspeaker has a compartment that houses the double ceramic connectors with thermal protection circuit breaker. The compartment is closed with a waterproof lid.



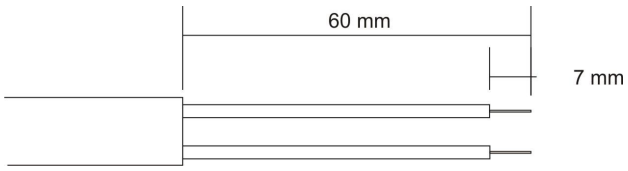


3. Connection

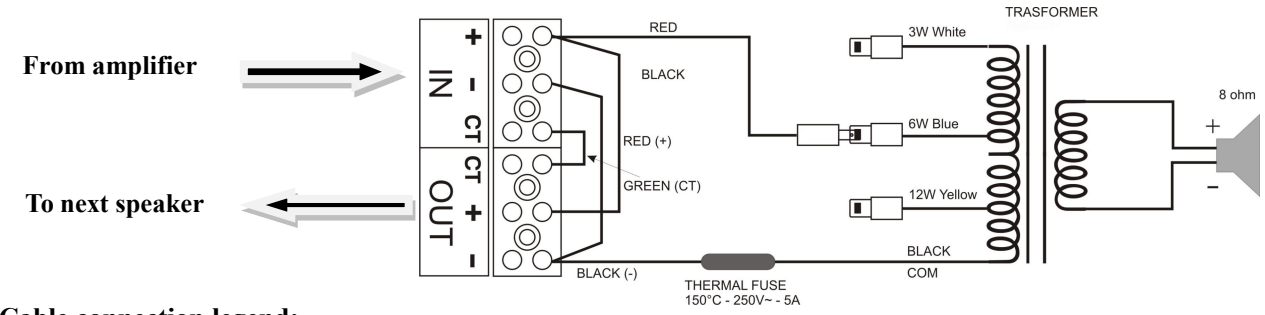
Connect the cable coming from the amplifier to the **IN** connector respecting the polarities. In case of connection of a subsequent speaker use the **OUT** output.
The power setting is possible by inserting the FASTON connector (red wire) in one of the available power taps. Please refer to the following connection diagrams.

<u>In the factory setup the speakers are set to mid-power tap</u>

Strip the cable as shown in the figure.



CONNECTION DIAGRAM:



Cable connection legend:

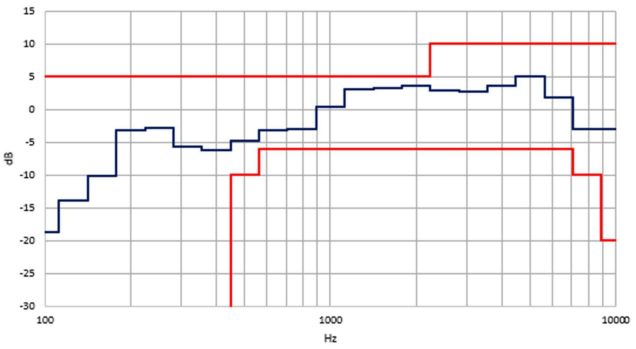
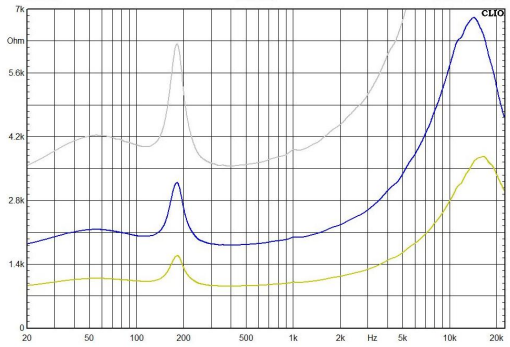
+ = 100V
- = 0V, COM

4. Specifications

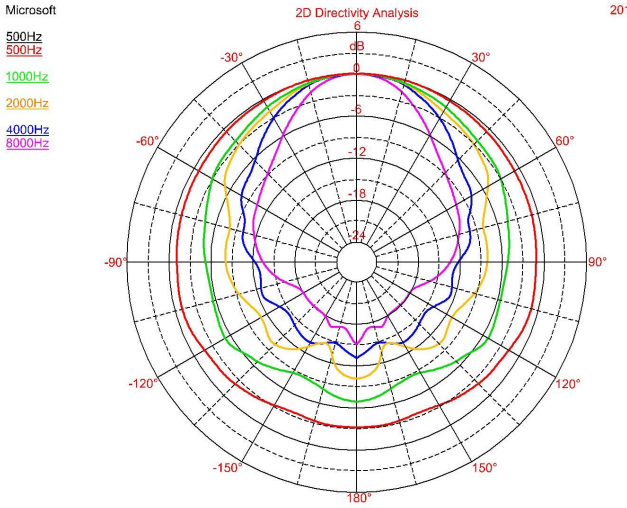
Model	DSP207EN
Standards	EN54-24:2008 Loudspeaker for voice alarm system for fire detection and fire alarm system
Environmental Class EN54-24	Type A, indoor applications
IP rate protection (EN60529)	IP54
Way no./Speaker type	1-way dual cone, full range Ø130mm
Transformer	100V (12W – 6W – 3W)
In-axis Freq. response (-10dB)	110–18,000Hz
Sensitivity (@1m, 1W)	86.3dB
SPL max (@1m, Pmax)	97.2dB
Coverage angle (-6dB)	360° (500 Hz), 253.5° (1 kHz), 125.5° (2 kHz), 86.8° (4 kHz), 59.4° (8 kHz)
Directivity Index DI (dB)	1.3 (500 Hz), 3.9 (1 kHz), 5.4 (2 kHz), 6.7 (4 kHz), 8.2 (8 kHz)
Directivity Factor Q	1.4 (500 Hz), 2.4 (1 kHz), 3.5 (2 kHz), 4.6(4 kHz), 6.6 (8 kHz)
Nominal/Music power	12W/24W
Nominal Impedance @ 1kHz	833Ω (12W), 1.66kΩ (6W), 3.33kΩ (3W)
Dimensions Ø - P	140mm – 240mm
Aluminium bracket	140mm – 152mm
Weight	1.2kg
Material	ABS V0 type, painted grid in aluminium
Colour	White
Connections	Ceramic connectors and thermal fuse

Notes:

- Reference axis: axis at the centre of the grid and perpendicular to the surface of the grid itself.
- Reference plane on the surface of the grid and perpendicular to the reference axis.
- Horizontal / vertical plane. Passing through the reference axis perpendicular to the reference plane.

Frequency response: measurement on IEC standard baffle, SPLMAX @ 4m	Impedance: measurements at different power taps: 12W – 6W – 3W
	

Polar diagram: Horizontal = Vertical



Caution

- When the power switch of the equipment is in the "off" state, the machine is not completely disconnected from the power grid. For the sake of safety, unplug the power cord from the power socket when the equipment is not in use.
- The equipment cannot be exposed to water droplets or splashes and objects filled with water such as vases cannot be placed on the equipment.
- Do not open the cover of the machine in case of electric shock. If necessary, have it repaired by a certified professional.
- The terminals marked with the symbol ϟ on the equipment are hazardous live parts, and the connection of these terminals must be completed by an instructed technician.
- The equipment is connected to the power grid through a power cord. When the equipment is faulty or dangerous, it can be disconnected from the power grid by unplugging the power cord. Therefore, it is required to place the power socket in a place where it is convenient to plug and unplug the power cord.

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