

## GAE System 4N: Miniature Broadband Loudspeaker

### Key Features:

Miniature size, only (HxBxD) 120x120x122 mm; tiny profil, low weight of 1,7kg, high acoustical output of >109dB/1m with only 100W, flat frequency response (+/-3dB 140Hz-16KHz) and ultra low distortion for best music performance, non critical impedance at 16Ohm with a minimum of 150hm@730Hz. Best speech transmission quality for paging applications. Diverse colour options available. Mounting options to customer specification available.



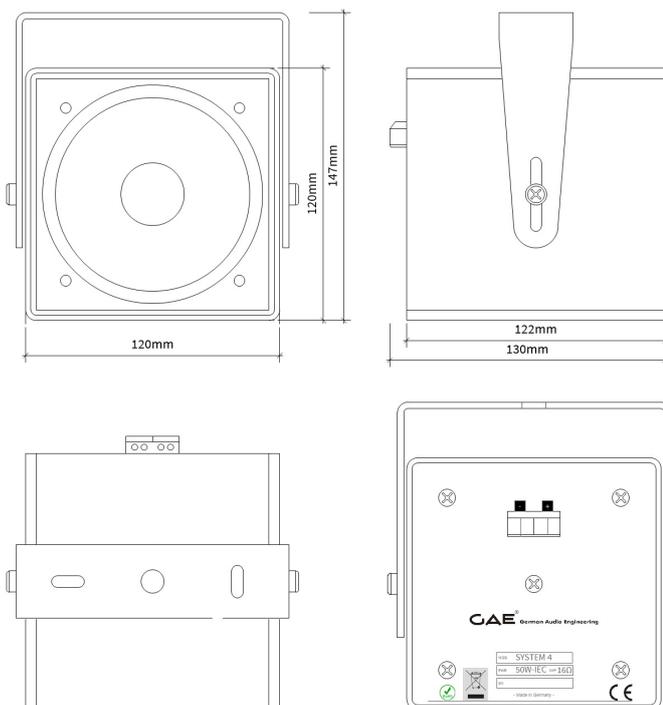
### General:

The System 4N is a wide-range loudspeaker with only 120x120x122mm feed size. With its high impedance of 16 Ohm and a non-critical minimum of 150hm@730Hz professional grade amplifiers can drive up to 8 units on one channel. The design incorporates a coated neodymium 4 inch cone transducer coupled to the anodized 5mm aluminium housing with a heat conducting element.

The design of the baffle and protective grill achieves a uniform radial dispersion pattern of 80° (1500Hz - 12000Hz). With its sensitivity of 89,5dB (4V ,16Ohm , 1m) and a program power capacity of 100W the acoustical output is 109,5db/1m.

The System 4N can be supplied in different colors and surface options to match interior desings. installation and mounting is supported by two M5 threads. A wall/ceiling mounting bracket is an option and different other fixtures can be supplied according to customer specifications.

### System 4N in special colour RAL 9007



### System 4N physical dimensions

### Architectural:

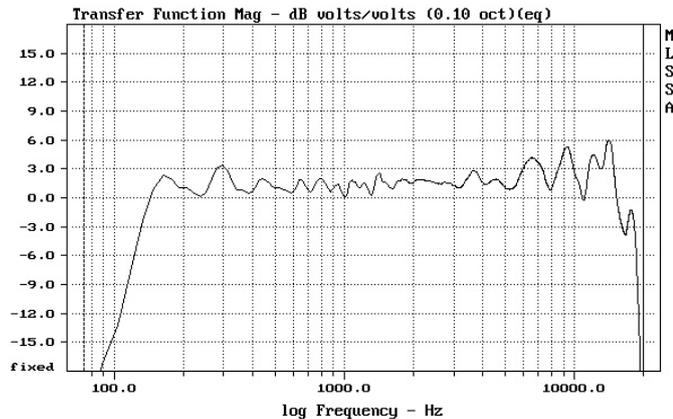
The System 4N is a tiny very compact wide-range loudspeaker for background music, personal monitoring and paging applications. With its high impedance of 16 Ohm professional 2-channel amplifiers can drive up to 16 units. The design incorporates a 4- inch cone transducer coupled with a heat conducting element to an anodized 5mm aluminium housing.

The design of the Baffle and protective grill including the acoustic foam cover achieves a uniform radial dispersion. With the dedicated controler set up the frequency response is flat by +/-3 dB from 140Hz - 16KHz. and matches the acoustic performance with a sub/Low - system e.g. the GAE BR 8N. Beside the musical quality the System 4N qualifies for paging applications with its speech transmission quality. A controler Setup can be switched for highest speech intelligibility if necessary.

The System 4N can be supplied in different colours and surface options to match interior desings. RAL colors for the stove enameled housings and different tones for anodized versions are available. installation and mounting is supported by two M5 threads. Different mounting brackets are an option and different other fixtures can be factory supplied followng customer specifications.

## Applications:

Space-sensitive fill-, effect- and surround loudspeaker for theatres \* High Quality distributed and paging systems  
Background music systems for clubs and restaurants \* Exhibition Audio in Museum displays  
High quality boardroom installations \* Personal table top monitoring for conference and congress



## Engineering:

Design: Low Impedance Broadband loudspeaker in aluminium housing with wheaterized surface

Frequency Response (+/- 3dB): 140Hz - 16KHz in Fullrange Setup

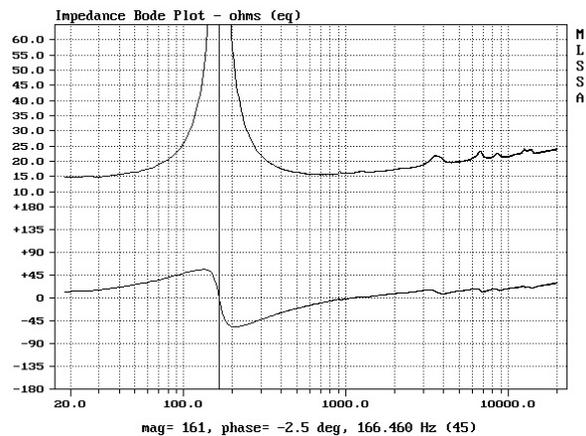
Dispersion (+/- 15°): 120° (650Hz - 1500Hz), 80° (1500Hz - 16KHz)

Phase Response (+/-45°): 140Hz - 16KHz

Impedance Response: 16Ohm, Minimum of 15Ohm@730Hz

Power Handling Capacity: 50W RMS (IEC 268-5) = 31,3dBu, 100W Program = 34,3dBu

## System 4N: On Axis Frequency Response unsmoothed



Sensitivity (4V/16Ohm/1m): 89,5dB/SPL

Program SPL: 109,5dB @100W/1m<sup>1</sup>

Peak SPL: >111dB @150W/1m<sup>1</sup>

Components: 1x 4inch cone transducer with neodymium magnet and coated cone, 1 inch voice coil and external cooling element

Connectivity: 1 double screw-terminal for 2,5mm cable

Mounting: 2 x M5 threads in sidewalls

Housing: 5mm anodized aluminium extrusion

Dimensions (HxBxD): 120x120x122mm

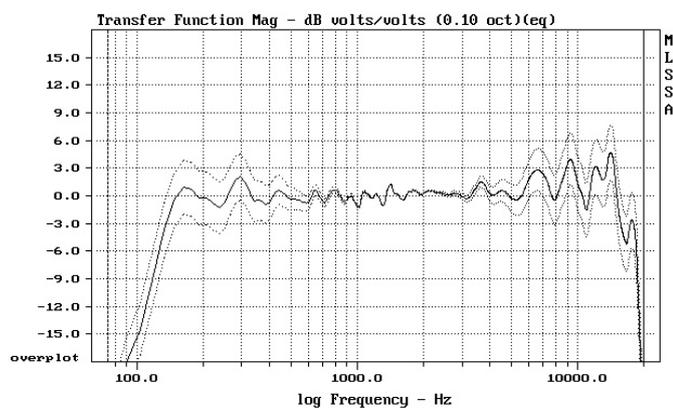
Weight: 1,7kg

Options: RAL colours for stove enameled varnish, tone options for anodized housing. Standard Colour is RAL 9005 (black)

Technical Option: 2 x Speakon NL4 instead of screw terminal

Optional attachments: wall/ceiling mounting yoke, standing yoke and customer specified mounting hardware.

## System 4N: Impedance and Phase Response



Related Product: GAE BR 8N sub/low loudspeaker system

Compliant to: CE, ROHS, Reach

<sup>1</sup> ≤ 10% THD

## System 4N: Factory Setup: Low- and Hi Shelving Filters

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