

ENA-P512

Data Sheet

ENA - P512

Precision Voice Alarm. Engineered for Safety

The ENA-P512 is a meticulously engineered, EN54-24 certified voice alarm sound projector. It delivers focused, highly intelligible audio for critical public address and voice evacuation systems. Featuring a durable and contemporary cylindrical design, the ENA-P512 seamlessly blends into diverse architectural spaces while providing robust life safety compliance. Its IP54 rating makes it ideal for demanding indoor and semi-outdoor environments where directional sound and unwavering reliability are paramount.



Engineered for Safety, Built for Clarity

The ENA-P512 delivers reliable, EN54-24 certified performance for critical emergency voice intelligibility. Featuring a 5-inch dual cone driver in a cylindrical form, it ensures focused audio projection. Selectable 12W, 6W, and 3W power taps allow precise adaptation for optimal sound distribution.

Smart Safety, Simple Install

Circuit integrity is guaranteed by a built-in thermal fuse and dual IN-OUT ceramic connectors. The flame-retardant ABS V0 body and aluminium grille provide durable IP54 protection. An included mounting bracket and cable glands streamline installation and allow for easy daisy-chaining.

Technical Specifications

Unit	ENA-P512
Standards:	EN54-24:2008 Loudspeaker for voice alarm system for fire detection & fire alarm system
Environmental Class EN54-24:	Type A, indoor applications
IP Rating:	IP54 (EN60529)
Speaker Unit:	5.1" 1way dual cone, full range
Transformer Taps:	(100V) 12W-6W-3W
Freq. Response:	110~18,000 Hz (-10dB)
Sensitivity (1w@1m):	86.3dB
Max SPL. (Pmax/1m):	97.2dB
Rated Power:	12W
Max Power:	24W
Impedance @1kHz:	833 Ω (12W), 1.66 k Ω (6W), 3.33 k Ω (3W)
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)

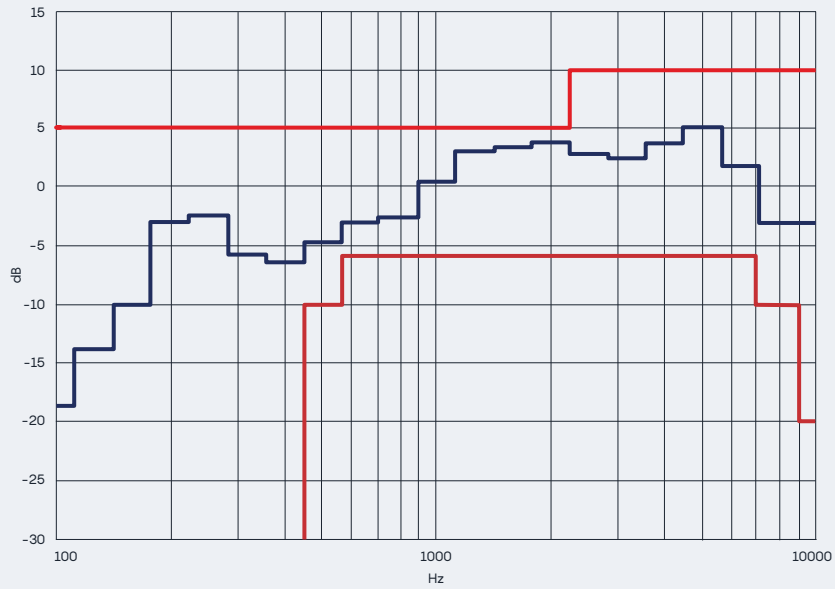
Technical Specifications

Unit	ENA-P512
Dimensions (Ø-P):	Ø140mm (Diameter) - 240mm (Projection)
Weight:	1.2kg
Material:	ABS V0 type, painted grille in aluminium
Connections:	Ceramic connectors & thermal fuse
Mounting:	Aluminium bracket, waterproof cover, cable glands

Technical Data

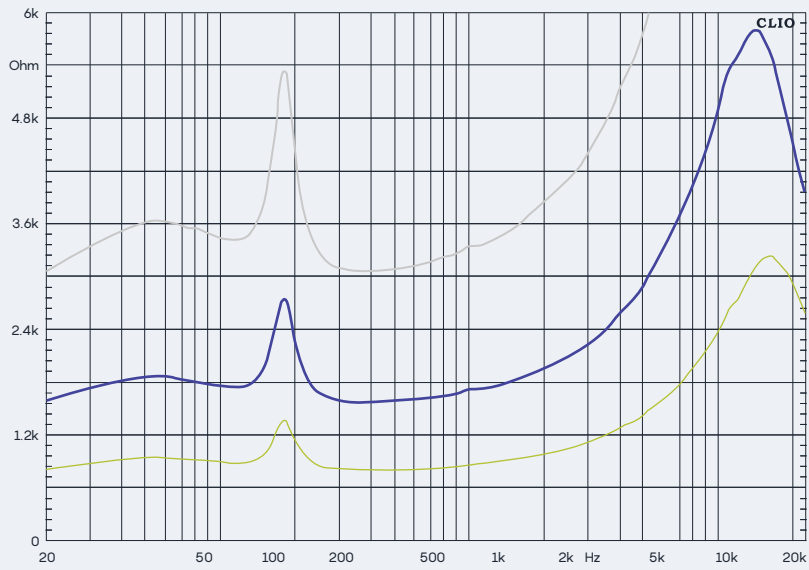
Frequency Response

Measurement on IEC standard baffle, SPLMAX @ 4m



Impedance Diagram

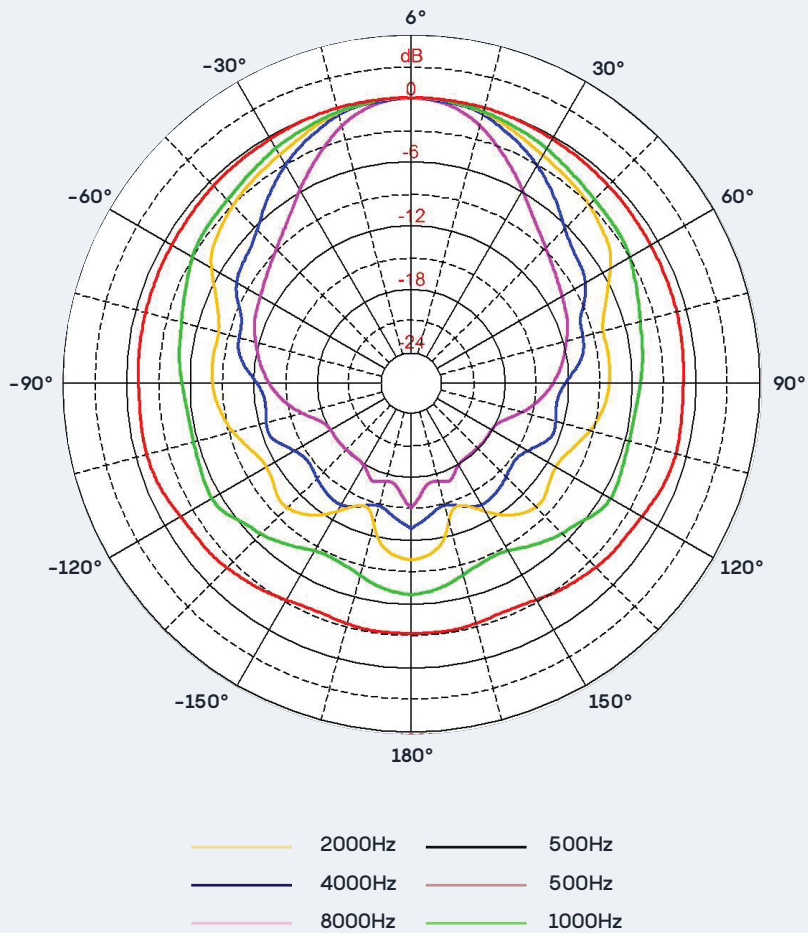
Measurements at different power taps: 12W - 6W - 3W



Technical Data

Polar Diagram

2D Directivity Analysis
Horizontal = Vertical



Contact Us

info@bataudio.com
www.bataudio.com
United Kingdom

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BRITISH ACOUSTIC TECHNOLOGY