

# ENA – C 612

Data Sheet

# ENA - C612

## Precision Voice Alarm. Engineered for Safety

The ENA-C612 is a premium, EN54-24 certified surface-mounted ceiling loudspeaker, meticulously engineered for critical public address and voice evacuation systems. It provides clear and intelligible voice messages within a durable and fire-resistant design. Featuring a wide-band 6.5" driver and a sleek, dome-like aesthetic, the ENA-C612 is ideal for installations where recessed mounting is not feasible, offering robust life safety compliance in standard indoor environments with a refined visual presence.



### Engineered for Safety, Built for Clarity

Perfect for exposed architectural designs. Its 6.5-inch dual cone driver guarantees crisp emergency announcements, while selectable 12W, 6W, and 3W power taps ensure optimal sound distribution across varying noise levels.

### Smart Safety, Simple Install

Protected by a flame-retardant ABS V0 body and aluminium grille, its clean aesthetic houses a thermal fuse and ceramic connectors for crucial circuit integrity. Simplified surface installation offers easy cable access and double ferrules for fast, reliable daisy-chain networking.

# Technical Specifications

Unit	ENA-C612
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:	IP21C (ENG0529)
Speaker Unit:	6.5" 1 way dual cone, full range
Transformer Taps:	(100V) 12W-6W-3W
Freq. Response:	230~16,000 Hz (-10dB)
Sensitivity (1w@1m):	89dB
Max SPL. (Pmax/1m):	100dB
Rated Power:	12W
Max Power:	24W
Impedance @1kHz:	833 $\Omega$ (12W), 1.66 k $\Omega$ (6W), 3.33 k $\Omega$ (3W)
Coverage Angle (-6dB):	180° (500 Hz), 95.6° (1 kHz), 116° (2 kHz), 48° (4 kHz), 35° (8 kHz)
Directivity Index DI (dB):	-3.8 (500 Hz), 3.4 (1 kHz), 5.1 (2 kHz), 9.1 (4 kHz), 10.8 (8 kHz)
Directivity Factor Q:	0.4 (500 Hz), 2.2 (1 kHz), 3.2 (2 kHz), 8.2 (4 kHz), 12 (8 kHz)

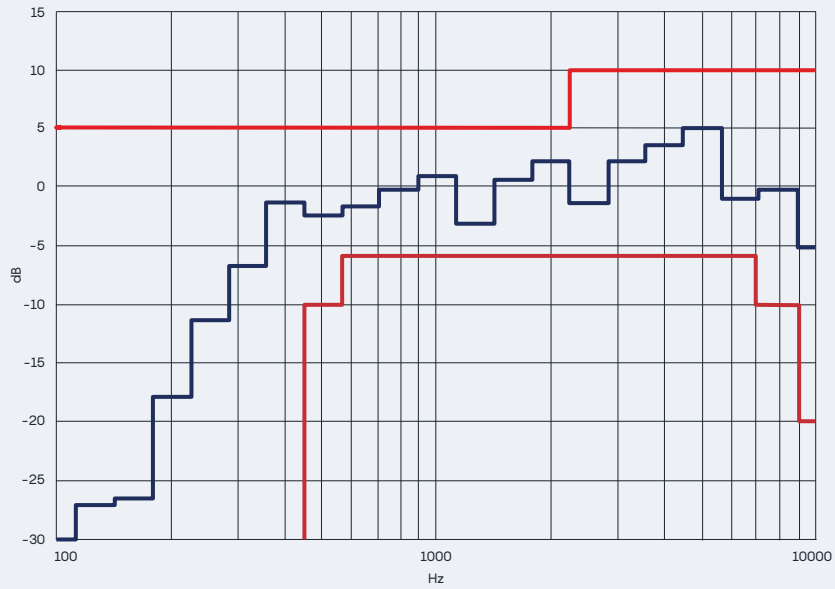
# Technical Specifications

Unit	ENA-C612
Dimensions (Ø-P):	Ø203mm (Diameter) - 95mm (Projection)
Weight:	1.02kg
Material:	ABS V0 type body, painted grille in aluminium
Connections:	Ceramic connectors & thermal fuse, double cable ferrules
Mounting:	Supplied screws & plugs, mounting via notches

# Technical Data

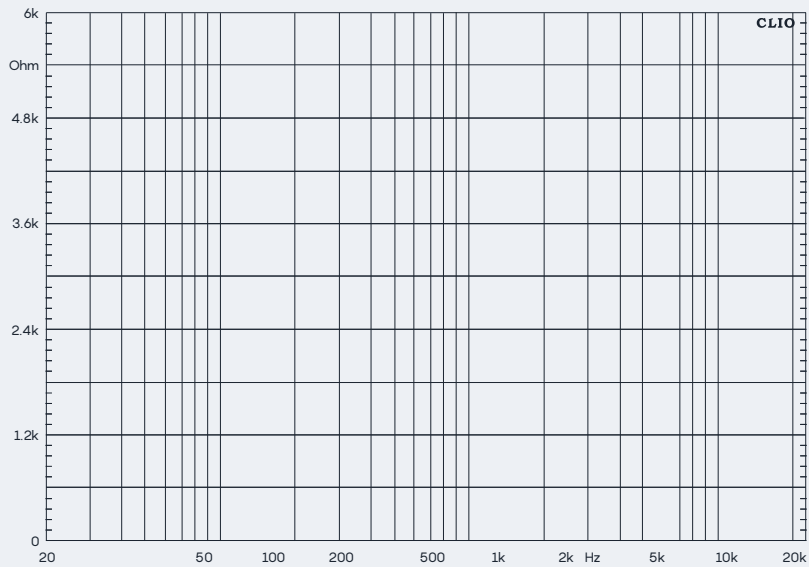
## Frequency Response

Measurement on IEC standard baffle, SPLMAX @ 4m



## Impedance Diagram

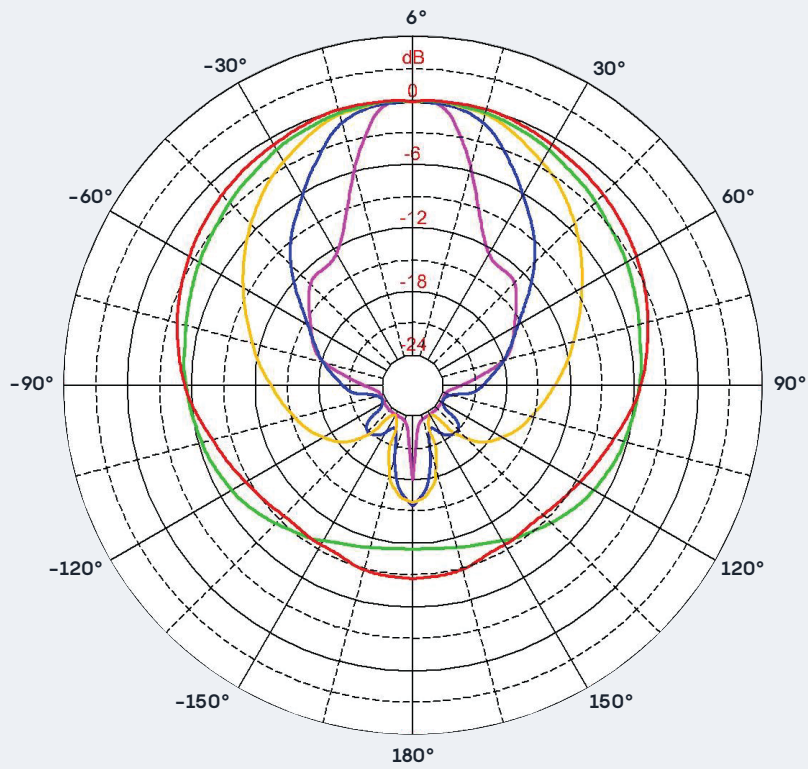
Measurements at different power taps: 12W - 6W -3W



# Technical Data

## Polar Diagram

2D Directivity Analysis  
Horizontal = Vertical



# Contact Us

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