

- Ceiling Loudspeaker
- 10W 100V
- Size 6.5" (165mm)
- Surface mount
- Quick and easy mounting
- Full range sound quality
- Option with DC capacitor fitted
- Certified to EN 54-24



OVERVIEW

The SPCS-10W-65-EN54 is a 10W 100V surface mount ceiling loudspeaker, which has a 6.5" (165mm) full-range chassis providing excellent sound quality with speech and background music. The loudspeaker is fully certified to EN 54-24. The loudspeaker is fitted with a 100V transformer which has four power adjustment tapings of 10W, 6W, 3W and 1.5W.

The SPCS-10W-65-EN54 has a powder coated metal housing and grille, with the high quality finish giving good long-term protection and resistance to corrosion.

The loudspeaker's housing has environmental ingress protection rated to IP21 and is also vandal and shock-resistant to IK code IK08. As standard the loudspeaker is coloured to match RAL9010 'Pure White', however they can be supplied in any four-digit RAL or NCS colour, as a special order.

The 100V loudspeaker line cabling is connected by means of a two-pin ceramic block. For additional reliability, the speaker chassis features vibration-damping construction. This speaker is compliant with the British Standard BS 5839, Part 8.

The loudspeaker is optionally available with a DC blocking capacitor fitted, in order to provide compatibility with DC loudspeaker line monitoring systems. The part number for this DC monitoring compatible version is SPCS-10W-65-EN54-DC.

Enhanced Acoustic Simulator for Engineers (EASE) data for this loudspeaker is available on request.

TECHNICAL DATA

Power Tappings	10W / 6W / 3W / 1.5W
Impedance (100V)	1000 / 1667 / 3333 / 6667 Ohms
DC Capacitor (SPCS-10W-65-EN54-DC Version only)	2,2 µF 250 VDC
Frequency Range	290 – 23,400 Hz
Frequency Response	230 – 24,000 Hz
SPL 1W / 1m, peak	102,2 dB
SPL 1W / 4m, peak	90,2 dB
SPL Pmax / 4m, peak	100,2 dB
SPL IEC 60268-5 1W/1m	93,0 dB
SPL IEC 60268-5 Pmax/1m	103,0 dB
SPL EN 54-24, Pmax/4m	89,0 dB
Sensitivity EN 54-24, 1W / 4m	81,0 dB
Dispersion (-6dB, 500Hz) Horizontal / Vertical Plane*	360° (horizontal) / 360° (vertical)
Dispersion (-6dB, 1KHz) Horizontal / Vertical Plane*	210° (horizontal) / 210° (vertical)
Dispersion (-6dB, 2KHz) Horizontal / Vertical Plane*	95° (horizontal) / 95° (vertical)
Dispersion (-6dB, 4KHz) Horizontal / Vertical Plane*	50° (horizontal) / 50° (vertical)
Temperature Range	-10 / +55 °C
Dimensions	170 x 76 mm
IP Rating	IP66
Weight (net)	1.15 kg
Colour	RAL 9010
Connector	2-pin ceramic block
Mounting	Screws
Maximum Cable Passage	8mm ²
Compliance	EN 54-24 / BS 5839, Part 8

* EN 54-24 Definitions for Speaker Reference Axis, Point, Plane + Horizontal & Vertical Planes:

- ☐ Reference Axis: Axis is through the centre of the speaker grille surface and is perpendicular to the grille surface.
- ☐ Reference Plane: Plane is across the front of the speaker grille surface and is perpendicular to the reference axis.
- ☐ Horizontal Plane: Plane contains the reference axis and is perpendicular to the reference plane.
- ☐ Vertical Plane: Plane contains the reference axis and is perpendicular to the reference plane.
- ☐ Reference Point: Point is at the centre of the front of the speaker grille surface where all the above intersect.

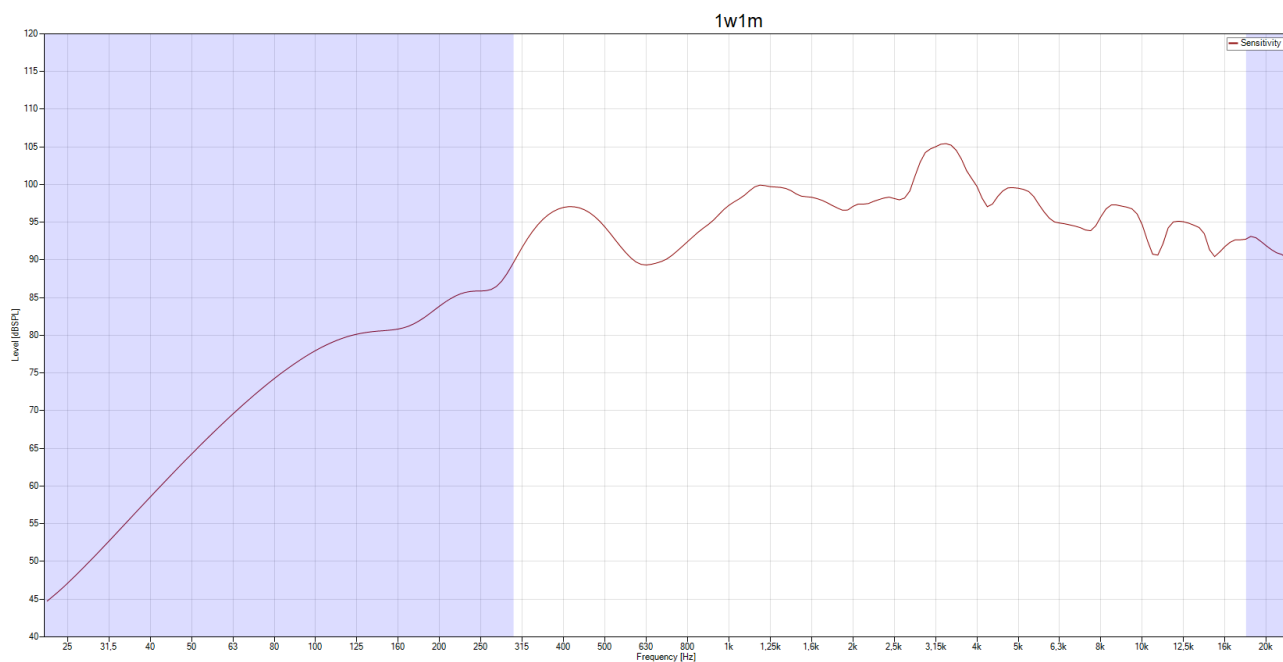
All measurements in the table above relate to the Reference Axis unless otherwise stated

EN 54-24 Annex A, Measurement Environments:

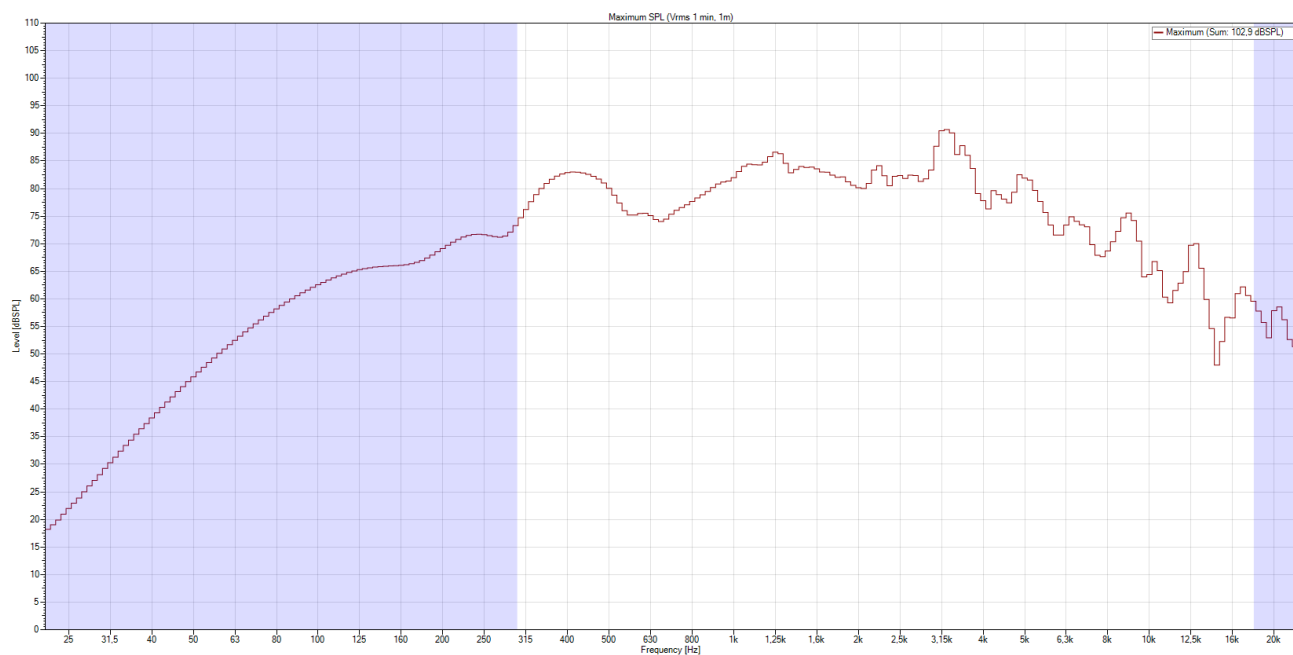
Flush-mounted loudspeakers e.g. ceiling loudspeakers, shall be measured under half-space free field conditions.

All other speakers shall be measured under free-field conditions or in a ground plane arrangement that simulates a free-field condition.

FREQUENCY RESPONSE DIAGRAM—SENSITIVITY 1W / 1m

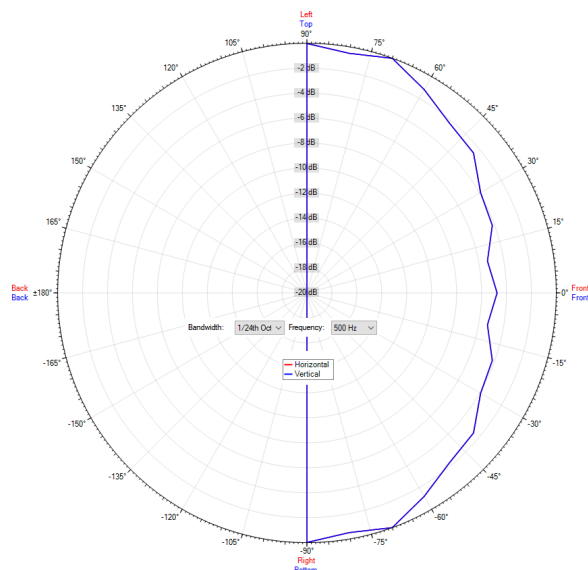


FREQUENCY RESPONSE DIAGRAM—MAXIMUM SPL (Vrms 1 min, 1m)

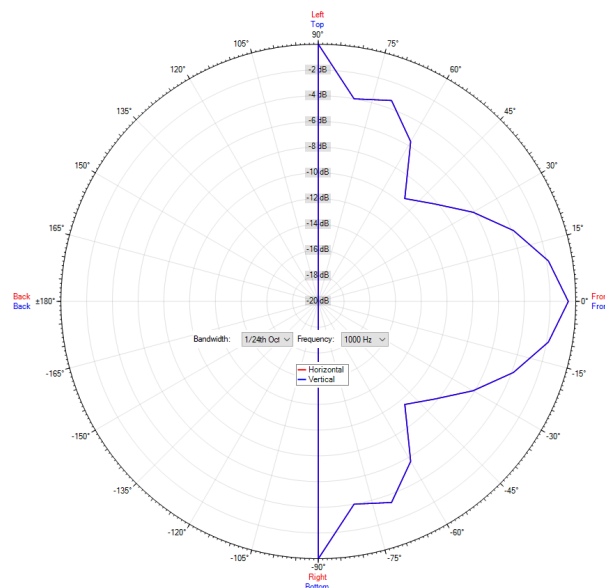


POLAR DIAGRAMS

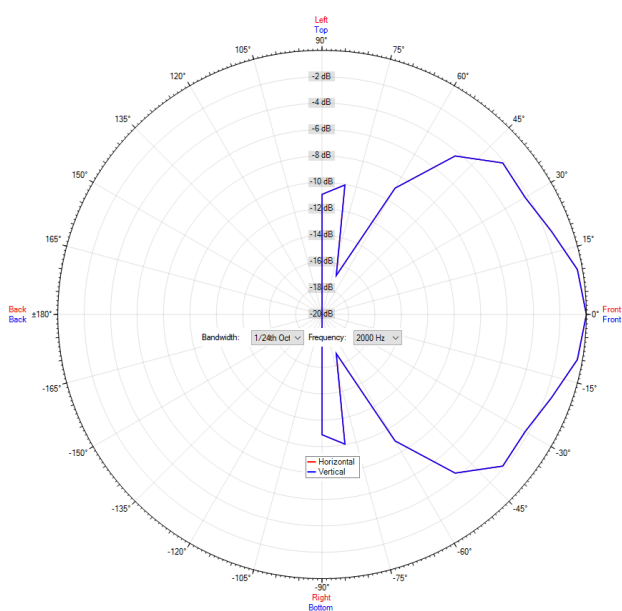
500 Hz



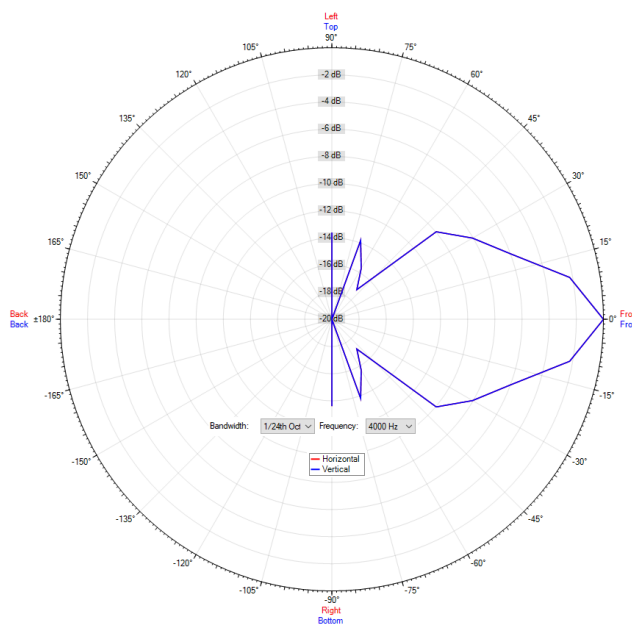
1,000 Hz



2,000 Hz

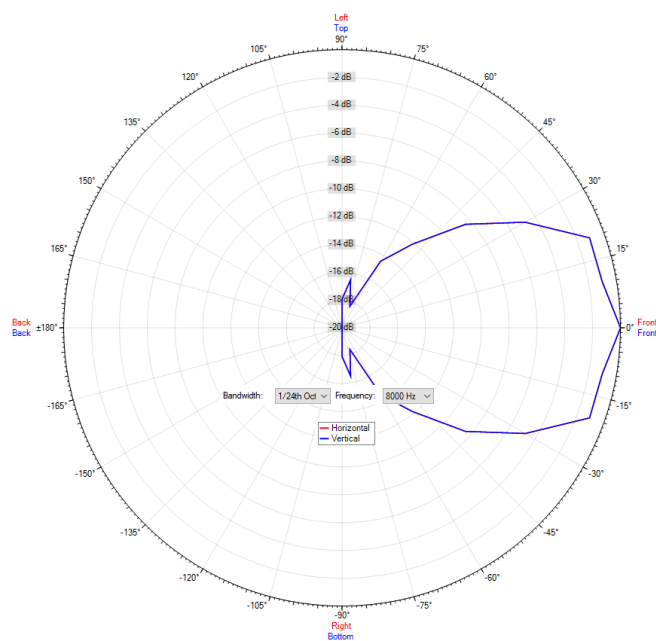


4,000 Hz

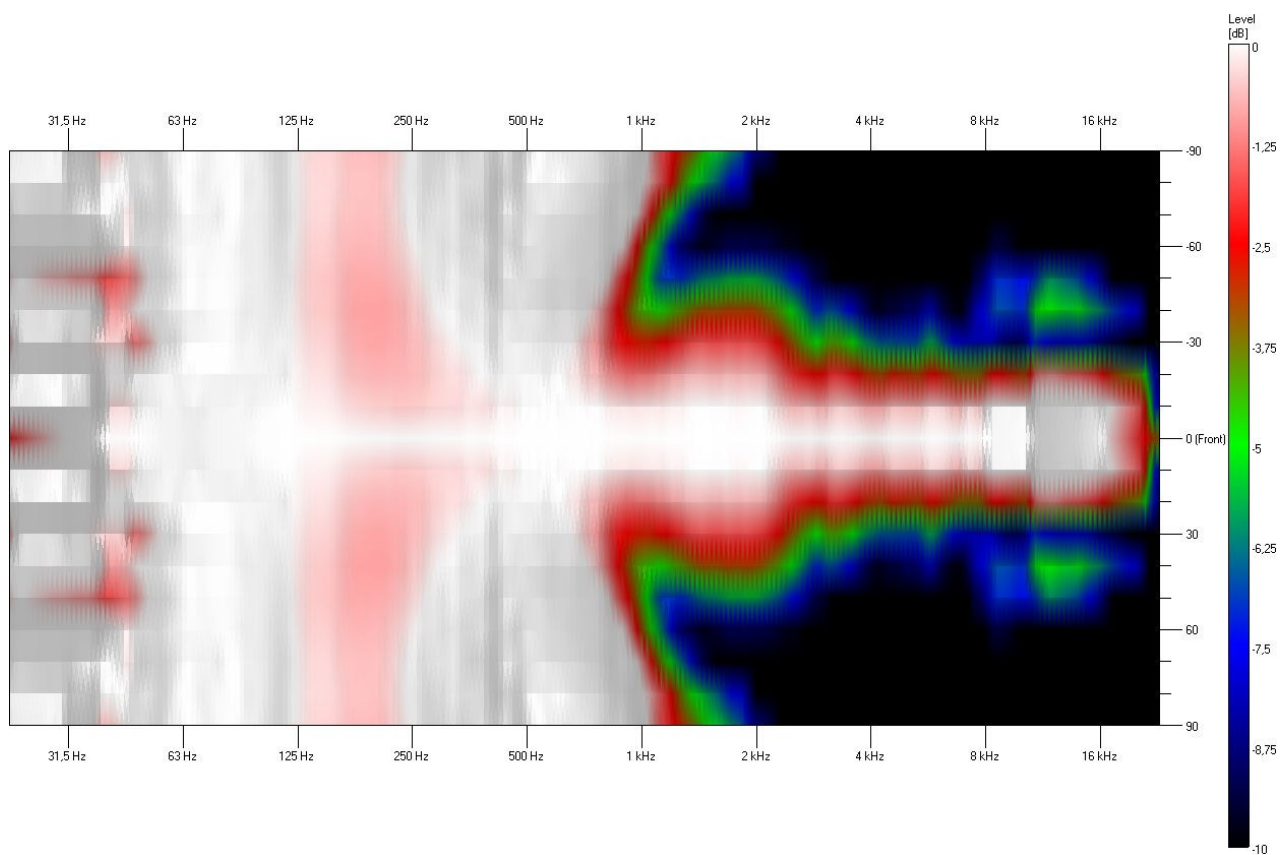


POLAR DIAGRAMS

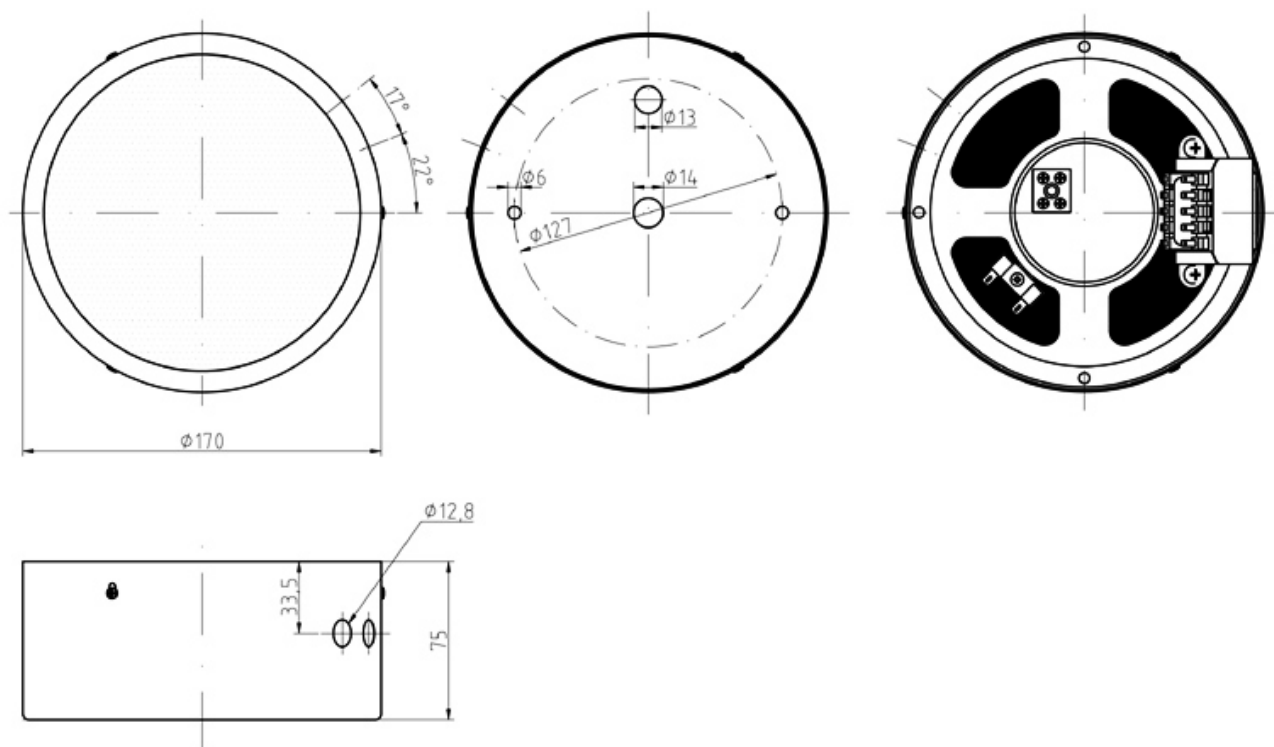
8,000 Hz



ISOBAR



DIMENSIONAL DIAGRAMS



This equipment is designed and manufactured to conform to the following EU Directives:



Low Voltage: 2014/35/EU

Restriction of Hazardous Substances (RoHS): 2011/65/EU & 2015/863/EU

Made for:

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