

Protecting Your Human Assets During Emergency

CM 461 / CM 461E Flush Mount Ceiling Loudspeaker



The CM 461 Flush Mount Ceiling Loudspeaker is designed for low ceiling applications in a public address system. The unit consists of a 100 mm dynamic full range loudspeaker driver, capable of delivering up to 98 dB of Sound Pressure Level (SPL). Coupled with the unit's frequency response of 64 Hz \sim 20 kHz, it gives the unit excellent speech and music reproduction properties.

The unit's built-in line matching transformer makes it suitable for a 70 V and 100 V distributed speaker system. Multiple power tappings on the transformer allows for outputs of 6, 3 and 1.5 W (100 V line system) or 3, 1.5 and 0.8 W (70 V line system).

The loudspeaker driver unit is mounted onto an aesthetically pleasing 135 mm circular metal grille finished with a matted surface in White. The whole unit is spring mounted on to the ceiling board without any visible screw holes and more importantly without any hassle.

There is also a back enclosure model available (CM 461E). With the meta back enclosure, crosstalk within the ceiling cavity can be prevented while acquistic damping material lining the enclosure reduces echoing

- 135 mm circular white epoxy coated metal grille, utilising a 100 mm dynamic full range speaker driver unit, suitable for general PA applications requiring clarity in speech reproduction.
- Spring mounted installation to eliminate visible mounting screws.
- Ready fitted line matching transformer with multiple impedance tappings, suitable for 70 V and 100 V distributed speaker system.
- Carefully designed with simplicity in installation & finished aesthetically for ease of matching to any ceiling type and interior facade.

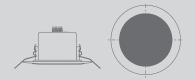




CM 461 CM 461E



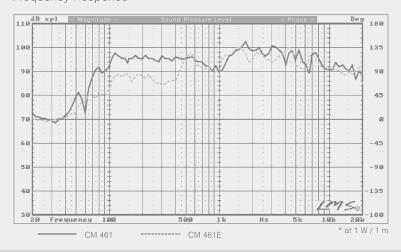




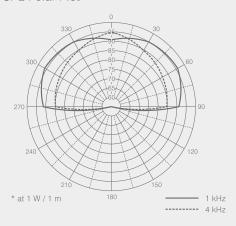
Technical Specifications

	CM 461	CM 461E
Rated Input	100 V : 6 W (6 - 3 - 1.5 W) 70 V : 3 W (3 - 1.5 - 0.8 W)	100 V : 6 W (6 - 3 - 1.5 W) 70 V : 3 W (3 - 1.5 - 0.8 W)
Maximum Power	9 W	9 W
Rated Impedance	1.7 kΩ (1.7 - 3.3 - 6.3 kΩ)	1.7 kΩ (1.7 - 3.3 - 6.3 kΩ)
Sensitivity (1 W / rated at 1m)	90 / 98 dB	90 / 98 dB
Coverage Angle (1 kHz, -6 dB)	180 deg.	180 deg.
Frequency Response	64 Hz ~ 20 kHz	100 Hz ~ 20 kHz
Speaker Component	100 mm Dynamic Full Range Loudspeaker	100 mm Dynamic Full Range Loudspeaker
Safety	Acc. to EN 60065	Acc. to EN 60065
Material & Finish	Grille and Mesh; White	Grille and Mesh; White
Dimensions	Dia 135 x 80 mm	Dia 135 x 100 mm
Weight	0.52 kg	0.70 kg

Frequency Response



SPL Polar Plot



Engineers' Specifications

The flush mount ceiling loudspeaker unit shall consist of a 100 mm dynamic full range loudspeaker driver, mounted on to a 135 mm circular white metal grille. The unit shall be spring mounted to the ceiling to avoid visible mounting screw. A line matching transformer shall be provided with multiple power tappings of 6, 3 & 1.5 W (100 V) / 3, 1.5 & 0.8 W (70 V) suitable for distributed speaker systems. The loudspeaker unit shall have a useable frequency range

of 64 Hz \sim 20 kHz (CM 461) / 100 Hz \sim 20kHz (CM 461E) with a minimum SPL of 90 dB at 1 W/m, 1 kHz and a coverage angle of 180 deg.. The weight of the speaker unit shall not exceed 0.52 kg (CM 461) / 0.70 kg (CM 461E) and dimensions shall be not more than 135 mm diameter and depth 80 mm (CM 461) / 100 mm (CM 461E).

