

SMS-HDN Hidden Speaker for Sound Masking

Ideal for closed offices and hard ceiling areas

Hidden within the plenum and mounted to the back of suspended ceiling tiles or gypsum board drop ceilings, the SMS-HDN converts these ceiling surfaces into large loudspeakers, providing an impressively diffuse and clear sound field.

When used in closed offices, the SMS-HDN speaker allows for independent volume control of the masking sound between adjacent offices or open areas. This solves the problem of masking sound leakage between adjacent areas through the open plenum.

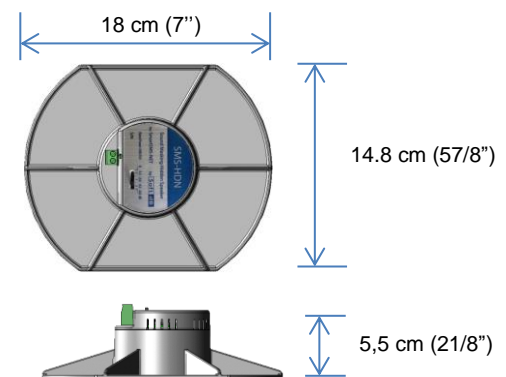
The SMS-HDN is also an improved alternative to surface-mounted speakers in the case of gypsum, wood or any drop ceilings. Unlike surface or direct-field speakers, the SMS-HDN does not create acoustical hot spots, providing a significantly more diffuse sound field for excellent sound masking uniformity.

The SMS-Hidden provides an innovative alternative to surface speakers to obtain uniform sound masking, clear paging & music, and without any compromise on the esthetic of the ceiling.

Specifications	
Power	5W
Line Voltage	25 V
Enclosure Material	Fireproof Lexan UL-94-V0
Frequency Response	100 Hz to 10 kHz
Output Level (W/m)	70 dBA ¹
Connectors	Screw-On
Driver	Vibration Exciter
Level Adjustment	Sliding switch 0 to -6 dB; -1.5 dB step
Max Nb /hannel	4 per SMSNET output channel
Certification	UL2043
Mounting	Adhesive ²
Color	White (RAL9016)
Weight	0.47 kg (1.0 lbs)
Overall Dimension	18 x 14.8 x 5.5 cm (7 x 57/8 x 21/8)
Shipping Weight	0.55 kg (1.2 lbs)
Box Dimensions	21.5 x 17 x 8 cm (7 x 6½ x 3¼")

1-Typical value for gypsum board

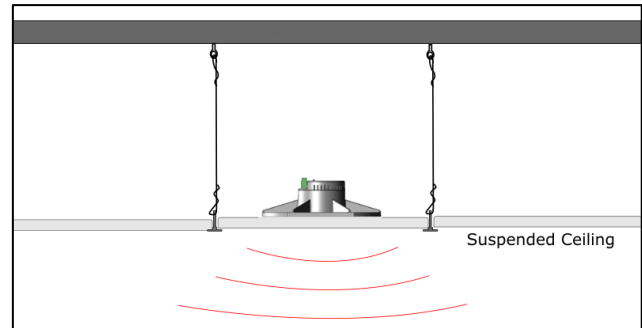
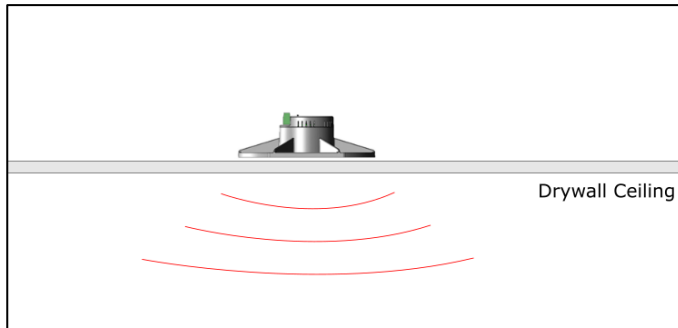
2-Construction adhesive; 3M spray can also be used on clean surface.



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Application notes:

The SMS-HDN is designed to be mounted to the back of suspended ceiling tiles or gypsum board drop ceilings; the SMS-HDN converts these ceiling surfaces into large loudspeakers, providing an impressively diffuse and clear sound field.



Design Guidelines:

The recommended distance between SMS-HDN speakers is calculated with the following formulas:

Drywall Ceiling:	Distance = Height of Ceiling + 6 ft
Suspended Ceiling Tiles:	Distance = Height of Ceiling + 4 ft

For example, on a 9 ft high drywall ceiling, the SMS-HND can be installed every 15 ft
 On a 10ft high suspended tiles ceiling, the SMS-HDN can be installed every 14ft

Electrical Wiring:

Up to 4 SMS-HDN can be connected on a single zone. The units are connected in parallel.