

# SMS-SEN Active Volume Control Sensor

smartSMS-NET Sound Masking System



V20190704



## 1 Overview

The smartSMS-NET sound masking system is equipped with an automatic masking volume adjustment system.

The SMS-SEN active volume control sensor is used to adjust the masking sound volume based on the ambient noise activity level. This adjustment is possible due to an advanced signal processing technique that can precisely distinguish the activity in the room from the sound masking. This distinction is essential to achieve a stable and accurate control of the sound masking volume. Transitions are gradual so occupants will not notice the change of masking levels.

Active Volume Control improves the acoustical comfort in the space while keeping a similar level of speech privacy compared to a fixed-level system<sup>1</sup>.

The best location to put the active volume control sensor is in the acoustic tile. Sensors must be installed, if possible, in a central position to catch most of the noise in the zone. Typically one sensor covers 1,000 sqft and up to 6 sensors can be connected to 1 active control input of a smartSMS-NET controller unit.

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<sup>1</sup> [Adaptive Volume for Sound Masking - Noise-Con 2017](#)

## 2 Specifications

Specifications	
Sensitivity	70 mV/Pa
Directivity	Omnidirectional
Frequency Range	20 Hz – 20 kHz*
Mounting	3/8" Hole in ceiling tile
Color	White
Connector	2-conductors screw terminal
Recommended Wiring	2-conductors shielded wire, 22 AWG

\*: A-Weighted when used with the smartSMS-NET system

