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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.

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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1 Adaptive Volume for Sound Masking - Noise-Con 2017
2 Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity</td>
<td>70 mV/Pa</td>
</tr>
<tr>
<td>Directivity</td>
<td>Omnidirectional</td>
</tr>
<tr>
<td>Frequency Range</td>
<td>20 Hz – 20 kHz*</td>
</tr>
<tr>
<td>Mounting</td>
<td>3/8” Hole in ceiling tile</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Connector</td>
<td>2-conductors screw terminal</td>
</tr>
<tr>
<td>Recommended Wiring</td>
<td>2-conductors shielded wire, 22 AWG</td>
</tr>
</tbody>
</table>

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

Supplied with 2 washers to place above and below the ceiling tile

Drill 3/8 hole in ceiling tile
3 Installation

3.1 Safety Instructions

- Read and keep these instructions.
- Heed all warnings and follow all instructions contained within this manual.
- Install in accordance with the manufacturer’s instructions.
- Clean only with dry cloth.
- Do not install near water.
- Do not block any ventilation openings.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Use the power cord with sealed mains plug appropriate for your local main supply as provided with the equipment. If the provided plug does not fit into you outlet contact the manufacturer.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments and accessories specified by the manufacturer.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Operate the product only with the voltage specified on the unit. Fire and/or electric shock may result if a higher voltage is used.
- Do not modify, kink, or cut the power cord. Do not place the power cord in close proximity to heaters and do not place heavy objects on the power cord and/or the product itself, doing so may result in fire or electrical shock.
- Be sure the installation of this product is stable, avoid slanted surfaces as the product may fall and cause injury, property damage, electrocution and/or fire.
- Do not open the cover.
3.2 Installing the Sensors

To install the sensor, drill a 3/8 in hole through the suspended ceiling tiles. Connect the sensor with 22 AWG shielded cable and BCN connectors. Up to 6 sensors can be connected on the active input. Connect the shield wire on the negative terminal on the controller end only, do not connect the shield on the sensor terminal and let it float. If many sensors are used, connect the shield between them to ensure continuity.

Refer to the controller specifications for more details on the controller Active Control inputs and configuration procedure.

Note: When a long cable is used, it’s recommended to run the cable separate from the speaker lines. A minimal distance on 12 inches between the speaker wires and the volume control cable is recommended.
4 Configuration

Use the Project Manager software to configure active sound masking volume control. Refer to the Project Manager software User Guide for more information.