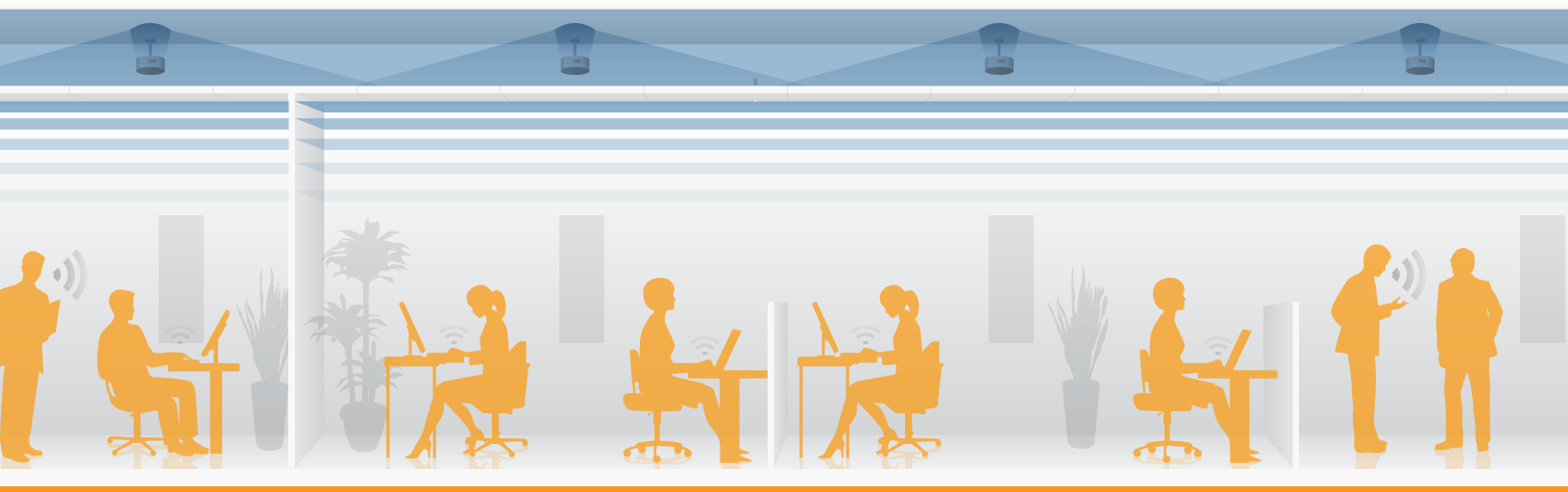


smartSMS_{NET}

SOUND MASKING SYSTEM



State-of-the-art Sound Masking System

SmartSMS-NET is designed to provide the best masking sound while preserving the comfort of the occupants. The precise adjustment of the masking sound to the specific characteristics and noise conditions of each work area is what distinguishes this system. It is based on three unique features:

Automatic Equalization Process

A 340 narrow band equalization (instead of the usual $20 \frac{1}{3}$ octave bands) ensures the production of a uniquely smooth, regular and comfortable sound masking, irrespective of the acoustical characteristics of the work space (Patent US 7460675 B2).

Real-Time Adaptive Adjustment of the Masking Sound Level

Continuously adjusts the masking sound level based on ambient noise measurement. In a busy work area, the masking sound increases. It decreases when the work area quiets down (Patent US 8116 461 B2).

Networked Sound Masking System

The SmartSMS-NET system combines both the flexibility of networked system and the cost efficiency of centralized systems. It can simultaneously handle small masking zones and larger masking zones across multiple floors.

SmartSMS-NET System Components

Plenum-Mount Controllers



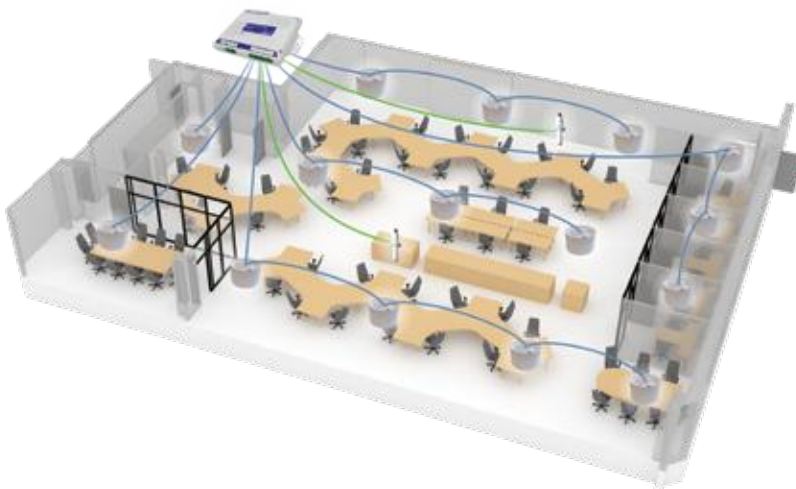
Rack-Mount Controllers



Sound Masking Loudspeakers



Active Volume Control Sensor



Additional Advanced Features

- Graphic control
- WIFI and LAN
- Paging and music
- Individual speaker control
- Gradual ramp-up
- Built-In Self-Test (BIST)
- Calendar adjustment
- LEED Design

Unique Automatic Equalization Process

SmartSMS-NET Ensures Precise Adjustment of the Masking Spectrum

The challenge: to produce optimum masking sound for all work space characteristics. Parameters such as size, type of ceiling, wall coverings, and furnishings have a direct influence on the propagation of sound masking. If the masking system is not properly calibrated to the specific conditions of the room, it becomes ineffective and/or irritating.

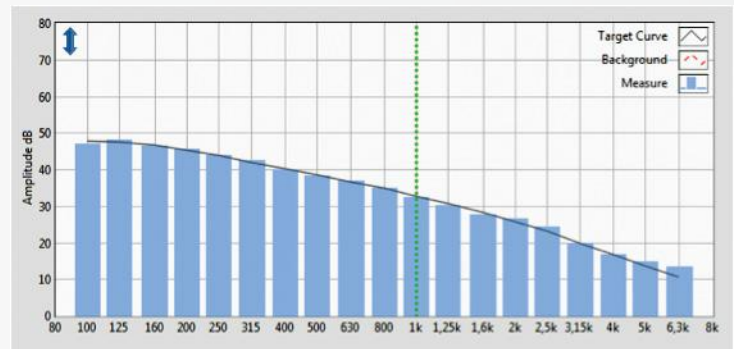
The advantage of SmartSMS-NET is that it adapts to characteristics that are specific to each work environment. Its unique calibration system (patent no.: US 7460675 B2) uses a sensor to measure the acoustic response and the background noise in the space. Based on this data, it automatically calculates the noise spectrum that must be used to emit a soft, uniform, and non-disruptive masking noise.

Rapid Calibration, Accurate Results

With SmartSMS-NET, a masking zone can be completely calibrated in less than one minute, thanks to Soft dB automatic calibration process (pat. US 7460675 B2).

This automatic adjustment is done not only on $\frac{1}{3}$ octave bands, but on 340 narrow band spectrum. It is quick, precise and provides an unparalleled regular smooth and comfortable sound masking spectrum.

The calibration quality is measured by the system's integrated frequency analyzer. At a glance, it provides indications as to whether the masking generated is in complete conformity with the desired sound spectrum.



GUARANTEED QUALITY OF INSTALLATION

Real-Time Adaptive Adjustment of Masking Volume Based on Ambient Noise



SUPERIOR MASKING QUALITY AND ACOUSTIC COMFORT

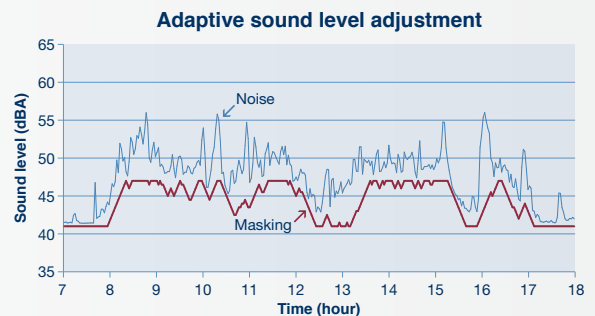
An office space is a dynamic environment in which ambient noise and the volume of sound distractions vary a great deal depending on the schedule and activities underway. To be optimal, sound masking must adapt to changes: It must increase during very active periods, and become more discreet when the area is quieter. Only SmartSMS makes this possible!

Effective Masking at All Times

Our adaptive adjustment system (US 8116461 B2) identifies variations in ambient noise in real time, from signals supplied by sound level sensors installed in the ceiling of the work space. And, thanks to an advanced signal-processing technology, it automatically adjusts the masking volume depending on the intensity of conversational noise and other noise distractions.

Smart Volume Adjustment to Maximize Acoustic Comfort

The active volume control system ensures unparalleled acoustic comfort and effective sound masking throughout the day, however busy or quiet the workplace gets.



Real-Time Adaptive Adjustment Features

- Control of masking volume based on the level of disturbing noise in a room.
- Disturbing noise is measured using sound level sensors installed in the ceiling.
- Masking sound level is adjusted automatically in real-time.
- Adjustment rate, high limit and low limit are programmable separately, for each zone.
- An input mixer allows for the combination of any active input with any output channel.



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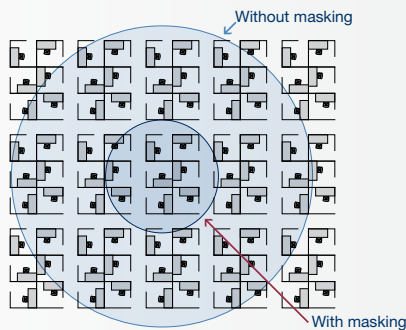
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Greater Confidentiality in All Environments

Open-Plan Offices

Sound is easily transmitted throughout open-plan offices, given that there are no doors or walls to block propagation. Conversations are clearly perceived, which disturbs colleagues both nearby and further away. Sound masking raises the acoustic comfort level of open-plan offices by reducing the distraction radius. Hence, people are significantly less distracted by conversations that take place within a radius of 40 to 15 feet from where the sound masking loudspeaker is located.

Conversation radius of distraction



Closed Offices

Significant layout cost reduction

SmartSMS-NET sound masking system eliminates or reduces the need for plenum barriers, insulation and extra drywall layers. With our system, installation costs can be reduced by \$3 per square foot.

Greater flexibility

Sound masking improves speech privacy between offices separated only by partitions. It increases the acoustic performance of movable walls without compromising their practicality and flexibility.



Types of Work Environments That Benefit from Sound Masking

- Open-plan offices
- Closed offices
- Meeting rooms
- Reception areas
- Financial institutions
- Health facilities
- Call centers
- And more

Satisfied Clients



OUR EXPERTISE IS RECOGNIZED WORLDWIDE

"The work environment is very silent; quieter. At the end of the day, the employees are less tired. They don't feel the time going by because they are less disturbed and more concentrated."

Annette Filteau
Director - Billing and Enrolment
SSQ Financial Group

"The SoftdB product and installation plan met our challenging space requirements. I am very pleased with how the sound masking system is working, as it is making a positive impact on the quality of our work environment."

Karen Appelbaum
Operations Director
Northwest Area Foundation

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