

SmartSMS-NET

State-of-the-art Sound Masking System

SmartSMS-NET is designed to provide the optimal sound masking, while preserving the comfort of the occupants, through precise, patented, automated adjustment of the masking sound to the specific characteristics and noise conditions of each work area.

Automatic Equalization Process

Rapid Calibration, Accurate Results
A 340 narrow band equalization (instead of the usual 20 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. (pat US 7460675 B2)

Real-Time Adaptive Adjustment

Undetectable, Effective Volume Modification
 The SmartSMS-NET identifies ambient noise variations in real time, using ceiling sensors and an advanced signal-processing procedure, and continuously automatically adjusts the masking volume. (pat US 8116461 B2)

Networked System Flexibility

Cost Efficiency of Centralized Systems
 The SmartSMS-NET is very flexible with respect to the area of the masking zones, achieving greater confidentiality in all environments.



Additional Advanced Features

- Graphic control interface
- Handheld control
- Paging and music
- Individual speaker control
- Gradual ramp-up
- Monitoring system
- Calendar adjustment
- LEED Design

Unique Automatic Equalization Process

SmartSMS-NET Ensures Precise Adjustment of the Masking Spectrum

The challenge: To produce optimum sound masking 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 microphone 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 sound.

Rapid Calibration, Accurate Results

With SmartSMS-NET, a masking zone can be completely calibrated in less than one minute, thanks to the Soft dB automatic calibration process (pat. US 7460675 B2). This automatic adjustment is done not only on 1/3 octave bands, but on a 340 narrow band spectrum. It is quick, precise and provides a sound masking spectrum that is unparalleled in its consistency and comfort. 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 sound spectrum sought. B2)

➤ Real-Time Adaptive Adjustment of Masking Volume According to Ambient Noise

An open 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. In order 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-NET 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 procedure, it automatically adjusts the masking volume depending on the intensity of conversational noise and other noise distractions

Maintenance of Acoustic Comfort with Gradual Adjustment

We know that to be acceptable in a work environment, sound masking must be as undetectable as possible. Modifications to sound masking volume are, quite simply, imperceptible.

➤ SmartSMS-NET Networked Smart Sound Masking System

Flexibility, simplicity and unrivaled sound masking quality WiFi, and state-of-the-art Graphical User Interface

Each SmartSMS-NET unit provides:

- True random noise generator (no repetition)
- 4 independent sound masking channels (100Hz to 6.3kHz)
- 340 narrow bands automatic equalizer
- 1/3 octave bands automatic or manual equalizer
- 4-Channel amplifier providing 88 dBA at 1m
- 1 to 6 speakers per channel for a total of 24 speakers per unit
- 2 music and paging inputs with independent 1/3 octave equalizers for each output channel
- 2 inputs for wall mounted volume control knobs

The SmartSMS-NET sound masking system includes Soft dB's exclusive features that improve the quality of sound masking technology and are the reference in the industry:

- Adaptive volume adjustment for optimal efficiency and comfort (US Patent 8116461 B2)
- Automatic equalization that guarantees the optimum sound masking spectra (US Patent 7460675 B2)

LEED Points - Better Sound Masking is Better for the Planet

Soft dB Sound Masking contributes to LEED points in several categories:

EA Prerequisite 2: Minimum Energy Performance
EA Credit 1: Optimize Energy Performance
MR Credit 1.3: Building Reuse: Maintain 50% of Interior Non-Structural Elements
EQ Prerequisite 1: Minimum IAQ Performance

EQ Credit 6.1: Controllability of Systems: Lighting
EQ Credit 6.2: Controllability of Systems: Thermal Comfort
EQ Credit 7.1: Thermal Comfort: Design
EQ Credit 8.1: Daylight & Views: Daylight 75% of Spaces
EQ Credit 8.2: Daylight & Views: Daylight 90% of Spaces
EQ Credit 8.3: Daylight & Views: Views for 90% of Seated Spaces