Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

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We Identify and **S.T.O.P.** *Your Noise Problems*

Smart SMS-AMP

The Intelligent Sound Masking System

Smart SMS 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.

SMS-AMP Front Shown

SMS-AMP-8 Back Shown

Sound Masking System Amplifier

The SmartSMS-AMP is a DSP-based system that provides unique adjustment functions and ensures the generation of the optimum masking sound regardless of the characteristics of the room.

Automatic Equalization Process

Adjusts automatically the masking spectrum for the specific architectural characteristics of the building. The adjustment is quick and precise.

Active Adjustment of the Masking Sound Level

Continuously measures the ambient noise and automatically adjusts the masking sound level accordingly. It maximizes the privacy in the treated space while preserving the occupants' comfort.

The SMS-AMP is available in 1, 2, 4 or 8 channel versions and integrates the controller, the noise generators, the equalizers and the 25-Volt amplifiers. It combines sound masking, music diffusion and paging systems, all integrated in one convenient rackmount package.

Product Features

- Fully adjustable output channels, e.g. 1/3 octave equalizers (±0,1 dB Adjustment)
- Auxiliary inputs for music or paging, 1/3 octave band equalizer on each output
- Up to 8 SMS-AMP units can be networked through a USB if more than 8 channels are needed
- Inputs for active sound level sensors Programmable phase-in timer (up to 2 months)
- Volume control knob allows easy volume adjustments
- The DSP processor is controlled from a PC connected through a USB port
- Includes a UL and FCC certified 110-240 VAC – 25 VDC external power supply
- Optional internal clock for calendar function allows time-based automatic adjustments

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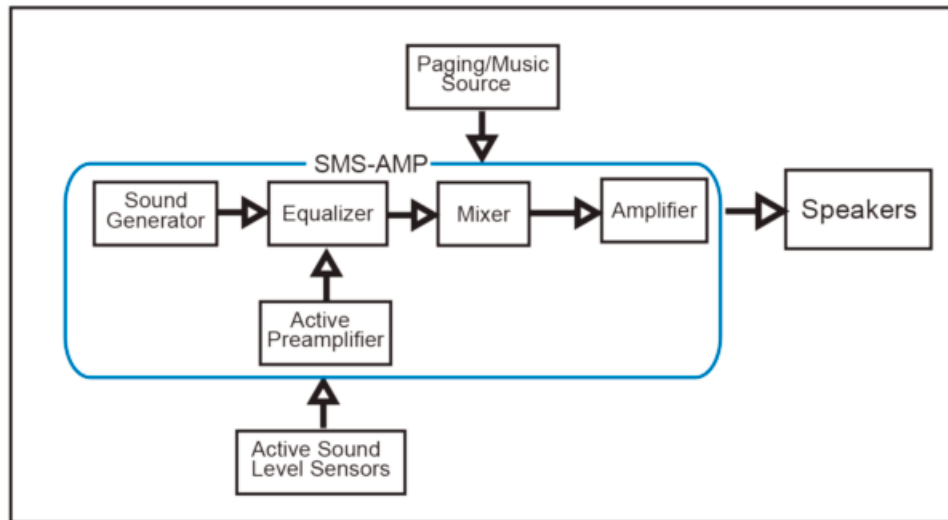
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Automatic Equalization Process Features

- Integrated 1/3 octave frequency analyzer, real-time measurement of the masking spectrum during the calibration
- Optional wireless connection between the computer and the SmartSMS allows to easily perform the equalization alone
- Automatic calculation of the masking sound ensure generation of the target masking sound in the room

  Different target masking sound spectrums can be applied to different zones
- A bank of target spectrums is availalbe, spectrum editor function allows to create custom spectrums
- Equalization can be performed manually, if desired, with a 1/3 Octave band equalizer

Active Adjustment Features

- Unique active adjustment system which controls the masking volume based on the level of disturbing noise of the room
- The disturbing noise is measured by sound level sensors installed in the ceiling – up to 8 sensors per zone
- The masking sound level is adjusted automatically in real-time
- Rate of adjustment, high limit and low limit are programmable separately on each output
- Input mixer allows the combination of any active input with any output channel

The SMS-AMP Sound Masking System only requires to be connected to 25-Volt speakers to generate masking sound. All the sound generators, equalizers, mixers and amplifiers are included in one simple rackmount unit.

Internal active system preamplifier allows to connect up to 4 active sensors directly to the SMS unit inputs.

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Smart Sound Masking System Specifications

Model	Channels	Auxilliary Inputs	Active Inputs	Power per Channel	Maximum Speakers per Channel		Maximum Speakers per Unit	
					Paging	No Paging	Paging	No Paging
SMS-AMP-1	1	1	1	20 W	10	20	10	20
SMS-AMP-2	2	2	2	80 W	32	64	64	128
SMS-AMP-4	4	2	4	80 W	32	64	120	240
SMS-AMP-8	8	4	8	80 W	32	64	120	240

AC Input: 100-240 V, 50-60 Hz

Power Consumption: Maximum: 7.5 A; Typical: < 1 A
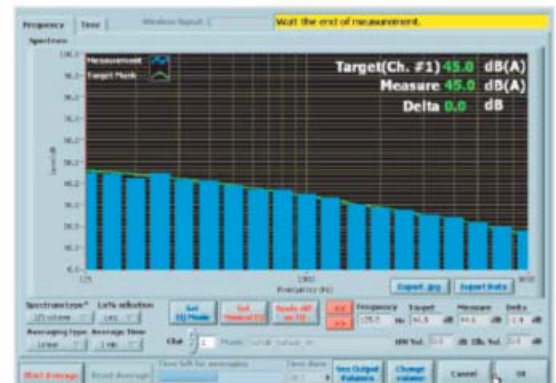
Frequency Response: 100-10,000Hz

Distorsion: less than 1%

Auxilliary inputs impedance: 80 kOhms

Auxilliary inputs maximum voltage: ±10 V

Active inputs impedance: 80 kOhms

Active inputs maximum voltage: ±2 V

Smart Sound Masking System Dimensions and Weight

Model	SMS Size (W × H × D)	Shipping Size (W × H × D)	SMS Weight	Shipping Weight
SMS-AMP-1	17" × 3-7/8" × 10-3/4"	22" × 9" × 15"	11 lbs	17 lbs
SMS-AMP-2	17" × 3-7/8" × 10-3/4"	22" × 9" × 15"	14.3 lbs	20 lbs
SMS-AMP-4	17" × 3-7/8" × 10-3/4"	22" × 9" × 15"	18.3 lbs	24 lbs
SMS-AMP-8	17" × 3-7/8" × 16-1/8"	22" × 9" × 19"	31.9 lbs	37 lbs

• Soundproofing Products • Sonex™ Ceiling & Wall Panels • Sound Control Curtains • Equipment Enclosures • Acoustical Baffles & Banners • Solid Wood & Veneer Acoustical Ceiling & Wall Systems • Professional Audio Acoustics • Vibration & Damping Control • Fire Retardant Acoustics • Hearing Protection • Moisture & Impact Resistant Products • Floor Impact Noise Reduction • Sound Absorbers • Noise Barriers • Fabric Wrapped Wall Panels • Acoustical Foam (Egg Crate) • Acoustical Sealants & Adhesives • Outdoor Noise Control • Assistive Listening Devices • OSHA, FDA, ADA Compliance • On-Site Acoustical Analysis • Acoustical Design & Consulting • Large Inventory • Fast Shipment • No Project too Large or Small • Major Credit Cards Accepted