



Sound Systems

A2001/D2001 Processors



A Comprehensive Audio System

DSP-based, software-enabled processors control and enhance i-ceilings Sound Systems performance.

Analog and digital output models are available.

For the most up-to-date information, refer to the commercial ceilings Web site at www.armstrong.com.

D2001 (digital output) and A2001 (analog output) processors.



Key Selection Attributes

- Provide unique combination of sound masking, music and paging signals
- Ability to interconnect to a Telco network for campus-wide paging
- Stackable to accommodate current and future needs
- Fast, easy system setup
- D2001 Processor designed for exclusive use with the i-ceilings D4100 Amplifier
- A2001 Processor can be used with other commercial amplifiers

Typical Applications

- Office
- Healthcare
- Retail
- Hospitality

Product Features

- Eight audio program sources – six external inputs: (telephone paging, microphone, analog and digital music) plus two internal uncorrelated noise sources for sound masking
- Eight independent outputs – each with digital 28-band 1/3 octave equalization
- RS232 port for system setup
- RS232 port for remote control interfacing with various commercially available control systems
- Balanced connections via industry-standard two-part connectors
- Tamper-proof operation
- Non-volatile memory for all system settings
- Remote level control by DTMF (touch tone) telephone
- Gating and soft-knee limiting on Telco and microphone inputs
- Universal power 90-240 VAC, 50-60 Hz autoswitching
- Two RU rack-mountable meets EIA standard
- UL and FCC listed

Masking Features

- Customized noise spectrum for optimized performance
- Dual uncorrelated digital noise sources to provide uniform spatial distribution
- Up to four zones of dual channel masking
- Up to eight zones of single channel masking

Paging Features

- Five priority levels for paging
- Two-band shelving and two-band parametric equalization for microphone input
- Two-band shelving and two-band parametric equalization for Telco input
- Selectable music and line ducking/muting by paging
- Compatible with most PBX products, and easily ties to KTS and Centrex systems
- Zone expansion through linked units
- Highly flexible paging interface with 99 DTMF codes
- Multiple units can be linked
- OPX port for bi-directional linking of systems, including remote locations
- Multiple confirmation tones
- "Mute All" contact closure for fire and life safety control

Music Features

- Two analog IHF music inputs
- Two analog line level/one stereo Digital Coaxial S/PDIF inputs
- Baxandall tone controls on all music inputs

How to Specify and Order

Model	Output	Item Number
D2001	Digital	6750
A2001	Analog	6751

Data/Specifications
Frequency Response

Microphone input	80/120 Hz to 18 kHz
Music input	50 Hz to 18 kHz
Line input	50 Hz to 18 kHz
Telco input	250 Hz to 4 kHz

Distortion

THD plus N .005% at 1 kHz

Dynamic Range

100dB typical

Input Impedances

Microphone	> 2k ohms
Music/Line	> 10k ohms
Telco	600 ohms nominal

Levels

Nominal operating level	0 dBv
Maximum input levels:	
Microphone	-10 dBv
Music	+6 dBv
Line	+20 dBv
Analog output (A2001):	
Nominal output level	0 dBv
Impedance (of output)	<100 ohms
Maximum output level	+20 dBv
Type	Balanced
Digital output (D2001):	
AES-EBU Standard on proprietary cable interface	

Noise Sources

Peak to average ratio: 8 dB

A/D and D/A Converters

24-bit Sigma Delta

Power

35 VA

Crosstalk

Better than -80 dB @ 1 kHz

Dimensions

9.4cm x 48.3cm x 22.1cm (H x W x D)
3.5" x 19.0" x 8.5"

Weight

12 lbs (5.4 kg)

Shipping Weight

13 lbs (5.9 kg)

Warranty

Three year limited warranty on materials and workmanship from date of manufacture

Accessories (included)

Three conductor power cable (2 meters)

Features and specifications subject to change without notice.

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1-877-276-7876

www.armstrong.com

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