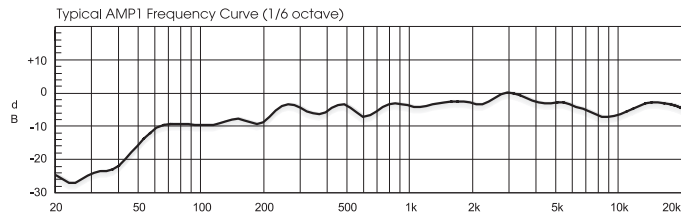


World Leader • In-Rack • Audio & Video Monitoring

WOHLER AMP1-V2DA

Compact, High Quality, 4 Channel, Analog & AES/EBU Self-Powered Speaker System

January 15, 2004



Features:

- Full Fidelity Audio Monitoring in only 1U of rack space
- Listen to 2 Analog or Digital Channels, Monitor and Convert 4 Channels Simultaneously
- 2 Unbalanced AES/EBU Digital Inputs
- 4 Balanced Analog Inputs (2 Stereo)
- 2 Unbalanced AES/EBU Digital Outputs
- 4 Balanced Analog Outputs Converted from AES/EBU Digital Inputs
- Balanced Analog Output of Selected Source
- Powerful 98dB SPL at 2 feet (0.6m)
- Four 26 Segment Tri-Color Level Meters Displaying Simultaneous VU & PPM
- Premium Quality Drivers & Power Amplifiers
- Extended Frequency Response and Low Distortion
- Focused Sound, Reduces Adjacent Bay Crosstalk
- Audible Indication of Phase/Polarity Problems
- Innovative LED Display of Phase/Polarity Relationships
- Thorough Magnetic Shielding for Placement next to Video Monitors
- Headphone Jack, Mutes Speakers
- Blowout Proof Speakers
- Quick and Simple Installation

The AMP1-V2DA provides self-powered, full-fidelity stereo audio monitoring in the smallest rack space possible, allowing the operator to listen to 2 and monitor up to 4 channels simultaneously from Analog and AES/EBU Digital sources. This unit contains four high performance transducers driven by three power amplifiers: one amplifier/driver combination handles midrange and high frequency information in stereo, while the second handles summed low frequency information below the 500 Hz crossover point.

The AMP1-V2DA features four 26 segment LED level meters showing simultaneous VU & PPM for accurate level-metering, allowing you to monitor all 4 channels simultaneously. The front panel features an innovative LED Display of Phase/Polarity Relationships. Output limiter circuits are incorporated to protect the speakers, and extensive magnetic shielding allows placement immediately adjacent to video monitors with no color impurities.

The unique design provides optimally focused sound for operators in an Ultra Near Field (1 to 3 ft.) working environment and offers performance comparable to that of many separate monitor pairs, yet does so without the installation hassles, awkward speaker placements and "added-on" look. This provides for a higher SPL for the operator while reducing overall ambient sound and adjacent bay crosstalk. Extended HF response reveals potential problems with audio whine or hiss and electronic rather than acoustic cancellation of bass frequencies provides positive audible detection of out-of-phase (reversed polarity) audio feeds. A headphone jack is provided on the front panel, usage automatically mutes the speakers.



Audio Monitoring

Level Metering

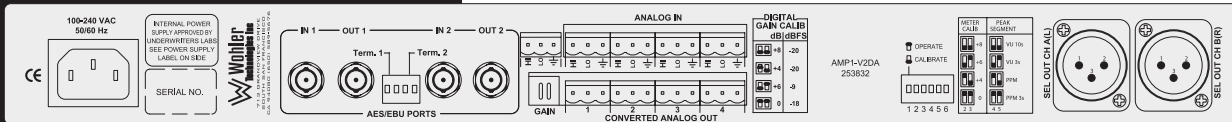
Alarm Systems

Video Monitoring

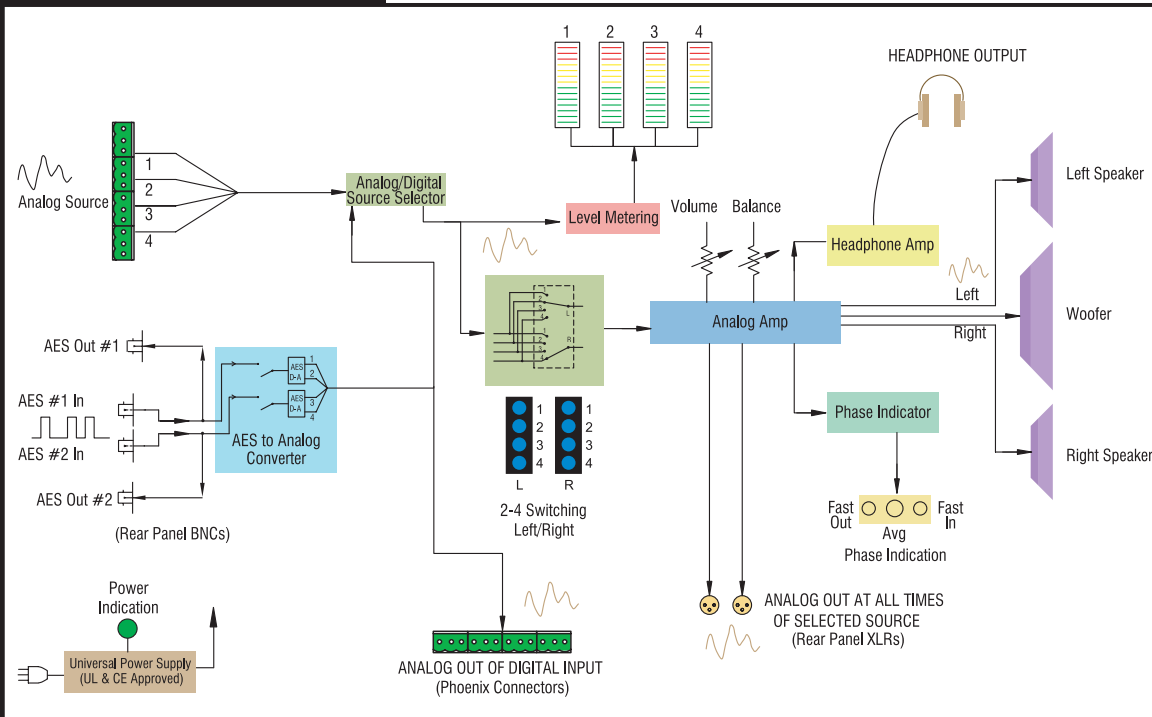
WOHLER AMP1-V2DA

Compact, High Quality, 4 Channel, Analog & AES/EBU Self-Powered Speaker System

Rear Panel:



System Diagram:



Specifications:

Analog input	4 balanced analog inputs, phoenix terminals
AES/EBU input	2 unbalanced simultaneous AES/EBU inputs, BNC
Analog output	4 balanced (phoenix terminals) analog outputs from AES/EBU inputs. Balanced (XLR) analog output of 2 selected channels
AES/EBU output	2 unbalanced AES/EBU loop-through of unbalanced EAS/EBU inputs, BNC
Level meters	4 x 26 segment
Level meter scale	+12 to -50 dB
Level meter threshold	0, +4, +6 or +8dBv - DIP switch selectable
Level meter dynamics	Simultaneous VU & PPM
Midscale resolution	.2dB
Peak acoustic output @ 2 feet	.98dB SPL
Power output	RMS each side (2 Ohms) - 5W, 7W peak RMS center WOOFER (4 Ohms) - 11W, 16W peak
Frequency response (1/6 octave)	.80Hz - 20kHz (±5dB) (-10dB @ 50Hz, 22kHz)
Analog input impedance	>40 kOhms balanced
AES/EBU input termination	.75 Ohms unbalanced
AES/EBU input sampling rate	.32-48kHz, auto-detecting
Hum and noise	better than -68dB below full output
Electrical distortion	<0.15% at any level below limit threshold
Acoustic distortion	.8% or less worst case frequencies above 180Hz including cabinet resonance, typically <2%
Magnetic shielding	<0.5 gauss any adjacent surface
Power consumption (AVG. MAX.)	.30W
Dimensions (HxWxD)	1.75 x 19 x 12" (44.5 x 483 x 305mm)
Weight	.95lbs (4.3kg)
Power Supply	100 to 240VAC, 50/60Hz universal input CE and UL approved

All specifications are subject to improvement



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