

AMP-2 Powered Stereo Audio Monitor



Description

The AMP-2 is a complete, exceptionally high quality stereo audio monitoring system in a compact, two rackspace cabinet. It contains three audiophile-quality drivers and three power amplifiers; two speakers and amplifiers reproduce midrange and high frequency information in stereo, while the third amp/driver combination handles summed LF information below the 500 Hz crossover point. The AMP-2's unique design has two important advantages. First, it provides optimally focused sound in an Ultra Near Field™ (1 to 3 feet) environment. This allows higher SPL for the operator while reducing overall ambient sound and adjacent bay crosstalk. Second, electronic rather than acoustic cancellation of bass frequencies provides positive audible detection of reversed polarity ("out of phase") audio feeds. A unique LED display also visually shows all signals present and their "phase" (polarity) relationships.

The AMP-2 provides innovative solutions to a variety of monitoring problems. Overall performance surpasses that of many popular monitor pairs, yet the AMP-2 eliminates installation hassles, awkward placements, and an "added-on" look. Thorough magnetic shielding allows an AMP-2 to be placed directly above or below color video monitors with no visible color impurities- even on a blank red screen.

Designed and manufactured in the U.S., the AMP-2 is backed by a strong warranty and a satisfaction guaranteed returns policy. The AMP-2 is ideally suited for use in VTR bays, mobile production vehicles, teleconferencing is, multimedia systems, satellite link and cable TV facilities, and on-air radio studios.

Features:

- **Premium quality drivers for superior reproduction**
- **104dB SPL at 2 feet**
- **Extended frequency response and low distortion**
- **Audible indication of phase./ polarity problems**
- **Dual 20-segment LED meters**
- **Innovative LED display of phase/ polarity relationships**
- **Numerous control and input options**
- **Thorough magnetic shielding for placement next to video monitors**
- **Quick and easy installation: simply slide in the rack and connect audio and AC power**

When it comes to Audio Monitoring, it comes from **Wohler!**

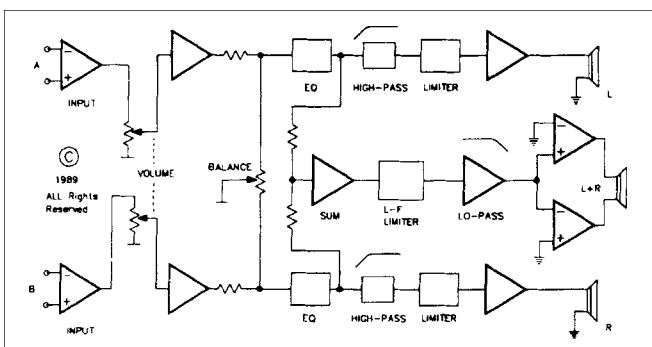
Self-Powered Speakers, Level and Phase Meters, Audio Alarms, Source Selectors / Audio Routers

Specifications

Input impedance	100 k Ω balanced 22 k Ω unbalanced, min.
Input level for maximum output (volume full on)	0 dBv bal. / - 12 dB unbal.
Input overload	+26 dBv balanced +14dBv unbalanced
Input meter threshold	-6, 0, +4, or +8 dBv (DIP-switch selectable)
Input meter dynamics	VU or PPM (DIP-switch selectable)
Peak acoustic output (@ 2 ft.)	104 dB SPL
Response, sixth octave	80 Hz - 16 kHz (± 5 dB) (-10dB @ 40Hz, 20kHz)
Power output RMS each side (4 Ω) RMS center bass (4 Ω)	20 W transient/ 11 W. cont. 36 W transient/ 20 W. cont.
Distortion, electrical	Less than 0.1% at any level below limit threshold
Distortion, acoustic	6% or less at worst case frequencies above 140 Hz including cabinet resonance; typically less than 1.5%
Hum and noise	Better than -68 dB below full output
Magnetic shielding	Less than 0.8 Gauss any adjacent surface
Input connectors	Balanced: loop-thru XLR Unbalanced: RCA phono
Power consumption (avg. max.)	50 W
Dimensions (h x w x d)	3.5 x 19 x 10 inches, 89 x 483 x 254 mm
Weight	18 lbs. (8.2 kg)

UL approved power supply, international versions available for 100/230 V 50/60 Hz power source. 0 dbV ref. 0.775V RMS. Features and specifications subject to improvement without notice.

Block Diagram



Analog Meter Version

The AMP-2AM is identical to the AMP-2, except for the two mechanical analog level meters which replace the LED ladders. Industry standard VU or PPM movements are available.



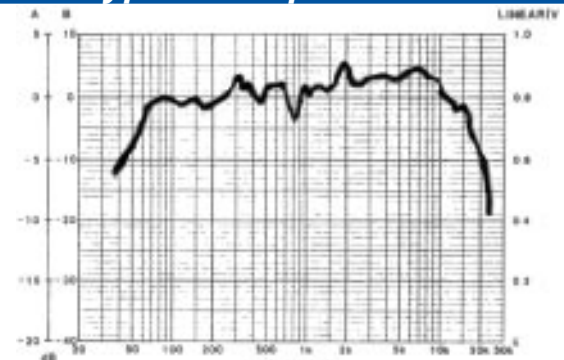
Options

Wohler Technologies will adapt the AMP-2 to meet your particular requirements at a reasonable cost. Available options include:

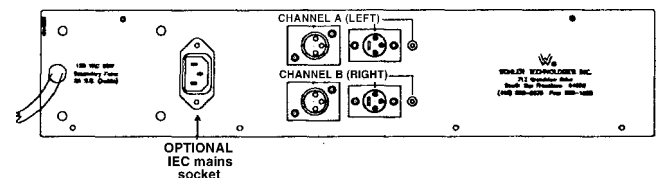
- Multiple input options from 2 to 10 stereo with selector switches. Additional separate option provides balanced XLR line output with level adjust of selected input.
- AES/EBU and Serial Digital inputs
- Mono, mute, and mode switches
- Transformer coupled inputs
- Headphone output
- Separate channel volume controls
- FULL output power DC operation
- Peak hold on meters

Other custom options are possible. Call your dealer or Wohler Technologies to discuss your specific needs.

Typical Response Curve



Rear Panel Layout



Wohler Technologies
Innovative Audio Monitoring Systems

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