



## Description

The AMPx-SDA Series monitors are complete exceptionally high-quality stereo audio monitoring systems for monitoring 2 channels from analog, AES/EBU digital and SDI sources in a compact one or two rack space cabinet.

The AMPx-SDA features two high-resolution tri-color LED level meters showing simultaneous VU and PPM for superior level-metering. The front panel features an innovative LED display of phase/polarity relationships. Output limiter circuits protect the speakers, and extensive magnetic shielding allows placement immediately adjacent to video monitors with no color impurities.

These unique designs provide optimally focused sound for operators in an ultra near field (1 to 3 ft.) working environment and offers performance

## Features

Extended frequency response and low distortion

Demuxing of either sub-group of SDI Group 1 to 1 AES/EBU output

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. 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.

The AMPx-SDA Series monitors are ideally suited for use in VTR bays, mobile production vehicles, teleconferencing installations, multimedia systems, satellite link and cable TV facilities, and on-air radio studios.

Accepts analog, AES/EBU, and SD-SDI signals

Dual tri-color LED level meters show VU and PPM simultaneously

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## Order Part Numbers

AMP1-SDA: 8103-0040 (1RU)  
AMP2-SDA: 8103-0100 (2RU)

## Features (Continued)

Innovative LED display of phase/polarity

Premium quality drivers

## Benefits

Exceptional audio response in ultra near field (1 to 3 feet)

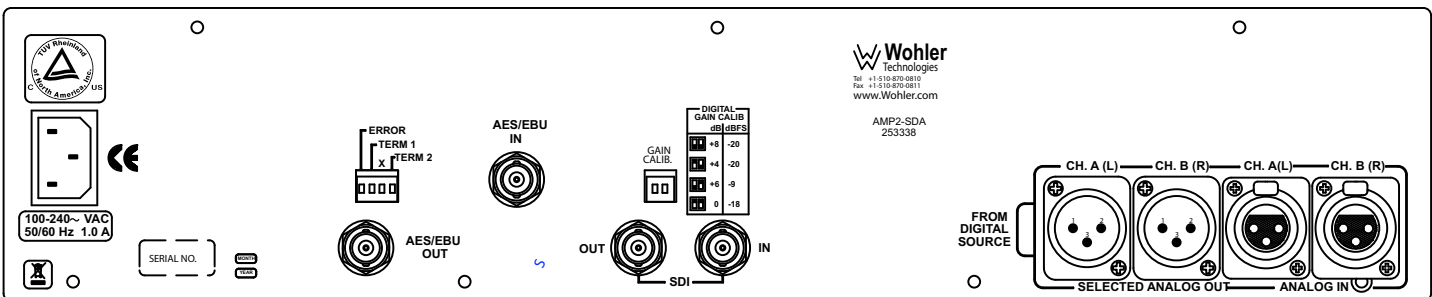
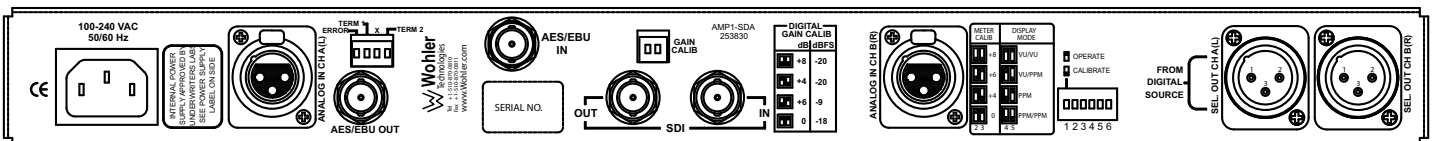
Thorough magnetic shielding for placement next to video monitors.

LED and audible phase correlation provide instant phase/polarity information.

Focused sound reduces adjacent bay crosstalk making them ideal for small work environments.

Extended frequency response and low distortion provide superior reproduction.

## Rear Panels



## Physical Specifications

| Specification          | AMP1-SDA  | AMP2-SDA                                      |
|------------------------|---|---|
| Dimensions (H x W x D) | 1.75" x 19" x 12"<br>(44 mm x 483 mm x 305 mm)      | 3.5" x 19" x 12"<br>(89 mm x 483 mm x 305 mm) |
| Shipping weight        | 14 lbs (6.4 kg)                                     | 22 lbs (9.98 kg)                              |
| Space requirements     | 1RU in a standard 19" rack                          | 2RU in a standard 19" rack                    |
| Supplied accessories   | AC power cord                                       |   |
| Power requirements     | Power to the unit is 100 to 240 VAC ± 10%, 50/60Hz. |   |
| Power consumption      | 30 W  | 45 W  |

## Technical Specifications

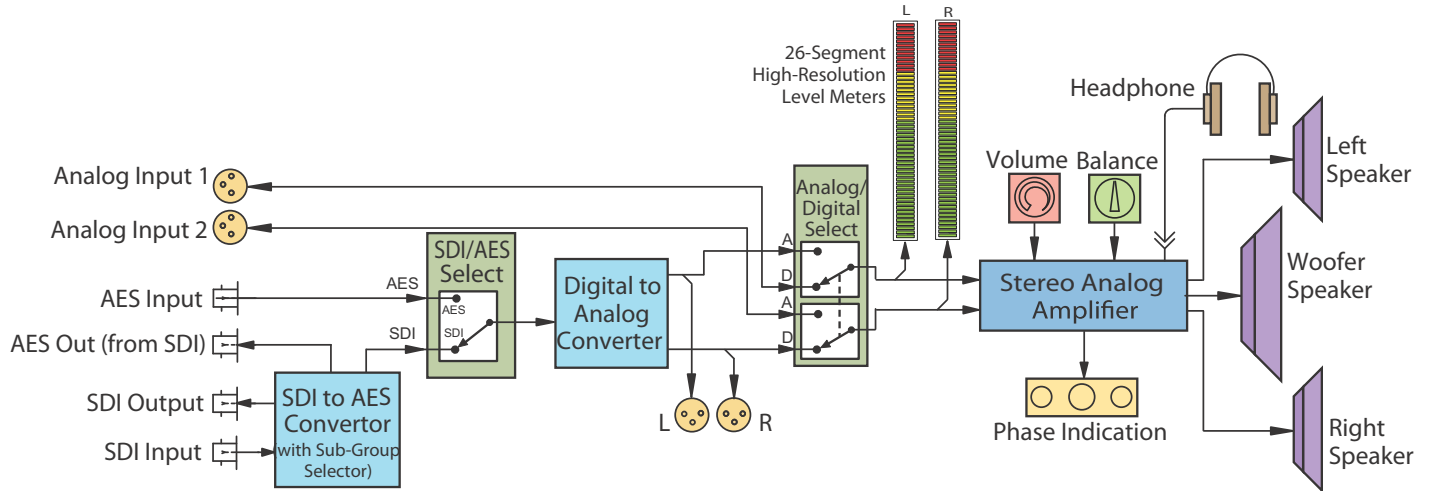
| Specification                                   | AMP1-SDA  | AMP2-SDA                         |
|---|---|----------------------------------|
| <b>Inputs</b>                                   | Analog: XLR (3-pin female) 2 each (40k $\Omega$ balanced)<br>SDI: BNC (female) 1 each (75 $\Omega$ SMPTE 259 m)<br>AES: BNC (female) 1 each |                                  |
| <b>Outputs</b>                                  | Analog: XLR (3-pin male) selected out<br>AES: BNC (F) converted from SDI<br>SDI: BNC (F) re-clocked   |                                  |
| <b>Frequency response<br/>1/6 octave</b>        | 80 Hz to 20 kHz ( $\pm$ 5 dB)   |                                  |
| <b>Response, distortion, hum,<br/>and noise</b> | better than -68 dD below full output  |                                  |
| <b>Additional rear panel<br/>controls</b>       | Termination DIP switch • Gain/calibration DIP switch  |                                  |
| <b>Power output</b>                             |   |                                  |
| <b>RMS each side (4 <math>\Omega</math>)</b>    | 10 W transient / 5 W continuous   | 14 W transient / 10 W continuous |
| <b>RMS bass (4 <math>\Omega</math>)</b>         | 20 W transient / 10 W continuous  | 35 W transient / 25 W continuous |
| <b>Peak acoustic output (2 ft)</b>              | 98 dB SPL   | 104 dB SPL                       |

## Level Meter Specifications

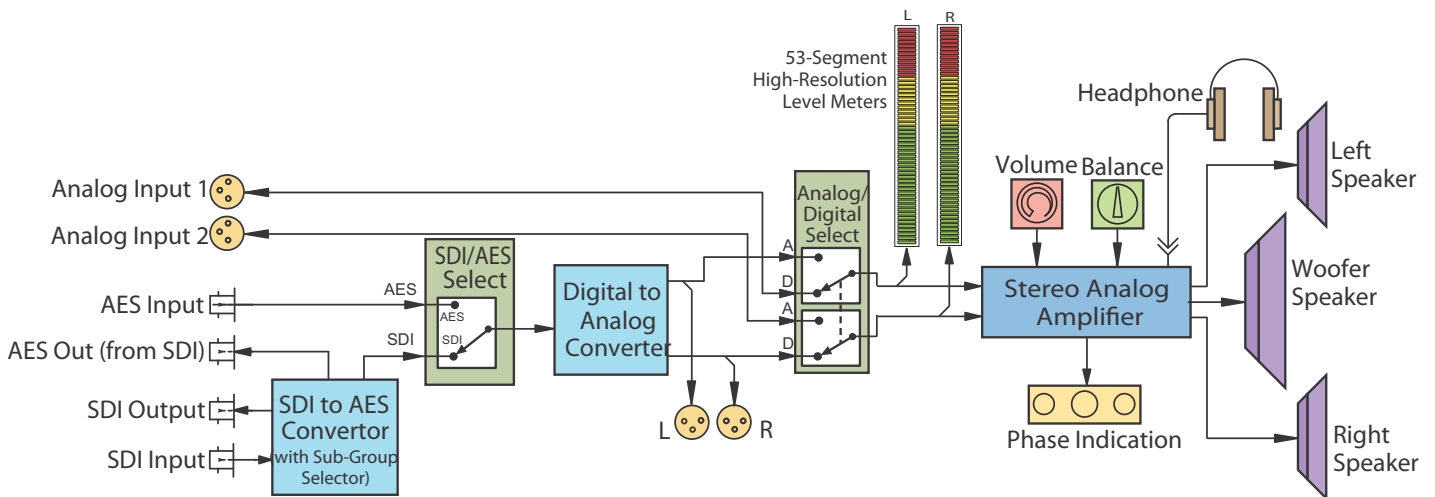
| Specification              | AMP1-SDA                             | AMP2-SDA |
|----------------------------|--------------------------------------|----------|
| <b>Level meter type</b>    | Two tri-color LED bar graph displays |          |
| <b>Level calibration</b>   | 0, +4, +6, +8 dBv                    |          |
| <b>Frequency response</b>  | 20 Hz to 20 kHz ( $\pm$ 0.5 dB)      |          |
| <b>LED segment colors</b>  | Tricolor (red, amber, green)         |          |
| <b>Metering range</b>      | 65 dB                                |          |
| <b>Display modes</b>       | VU with PPM or Peak Hold (Select)    |          |
| <b>Midscale resolution</b> | 1 dB                                 | 2 dB     |
| <b>Scale</b>               | +16 to -50 dB                        |          |
| <b>Segments per meter</b>  | 26                                   | 53       |
| <b>Segment size</b>        | .158" x .04" (4.0132 mm x 1.016 mm)  |          |

## Block Diagrams

AMP1-SDA



AMP2-SDA



## Contact

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