

APM-200 / APM-800 STEREO AUDIO PROGRAM MONITORS



Engineered for aural monitoring of stereo audio, the compact **APM-200** requires only one rack unit space. High quality, low distortion volume levels are output through two 5 inch speakers. Input mode switching allows the selection of L - R, L + R, stereo, reversed stereo, L only or R only monitoring. Ten segment, two color LED bargraph meters are provided with switchable peak or average response ballistics. Shielding permits use adjacent to waveform or picture monitors without magnetic interference. The APM-200 is ideally suited for use in remote vans, editing suit, VTR monitor bridges or for any system that requires professional monitoring of stereo audio signals.



Engineered for dual aural monitoring of up to eight inputs, the **APM-800** has two color bargraph meters, internal speakers, headphone jack and external speaker amplifiers. High quality, low distortion volume levels are output through two 3" speakers. The APM-800 has switchable peak or average meter response, stereo or monaural operation, and eight selectable inputs. Magnetic shielding permits use adjacent to waveform or picture monitors without interference. The APM-800 is ideally suited for use in remote vans, editing suites, VTR monitor bridges or for any system that requires monitoring of multiple audio signals.

FEATURES

- Stereo input – balanced or unbalanced
- 3-pin female XLR input connectors, balanced
- RCA phono jack connectors, unbalanced
- Input mode switching: L-R, L+R, stereo, reversed stereo, L only, R only
- Two 5" speakers
- 10 segment, two color bargraph meters. Ballistics are switchable between peak program and average response, calibrated to VU scale
- Four input sensitivity ranges (-10 dBm, 0 dBm, +4 dBm, +8 dBm) selectable
- 600Ω or hi-impedance selectable, balanced inputs XLR
- Power output 4.0 watts RMS per channel, nominal
- .25" stereo headphone jack
- 1 RU (1.75"), rackmountable

FEATURES

- Eight inputs – balanced or unbalanced
- Both the "A" and "B" channel input selectors can select any of the eight inputs. This allows versatile operation - any input can be directed to either or both outputs
- Input and output connectors are detachable screw type allowing easy installation
- Two 3" speakers
- 10 segment, two color bargraph meters. Ballistics are switchable between peak program and average response, calibrated to VU scale
- Four input sensitivity ranges (-10 dBm, 0 dBm, +4 dBm, +8 dBm), front panel selectable
- 600Ω balanced inputs
- .25" stereo headphone jack
- Calibrated 1 kHz tone at +4 dBm output
- Internal fuses and jumpers for worldwide power source voltage selection
- 2 RU (3.5"), rackmountable with removable ears

AUDIO

INPUTS:

Balanced/unbalanced inputs provided for each channel. Switchable 600Ω or Hi-Z termination for XLR balanced inputs

MAXIMUM INPUT LEVEL:

AC=+8 dB over sensitivity setting
DC=±6 VDC

BARGRAPH DISPLAY:

Left and right LED bargraph meter displays with switchable peak or average response ballistics. Calibrated in standard VU scale with 10 indicating segments

SPEAKER FREQUENCY RESPONSE:

10 Hz to 15 kHz

THD:

0.5% @ 1 kHz 0 dB in -
1V RMS out @ 25°C

INTERNAL SPEAKERS:

Two 5" speakers, A and B from separate amplifiers producing an SPL of 96 dB (@ 1 kHz) at 2 ft.

HEADPHONE JACK OUTPUT:

Front panel .25" 3 circuit jack. 200 mV RMS into 8Ω. Volume and balance control. Speaker interruptible headphone jack. Will drive any low impedance dynamic type stereo headphones

METER SENSITIVITY RANGES:

4 Ranges (-10, 0, +4, +8 dBm)

METER FREQUENCY RESPONSE:

±0.5 dB 50 Hz to 15 kHz @ 25°C
(Average mode)

METER ACCURACY:

±0.5 dB at 0 dB @ 25°C

CHANNEL CROSSTALK:

-65 dB

POWER

POWER REQUIREMENTS:

100-132/198-260 VAC 50/60 Hz

POWER CONSUMPTION:

20 VA avg.; 40 VA peak

POWER CONNECTION:

3-wire power cord

MECHANICAL

DIMENSIONS:

Height: 1.75" (4.5 cm)

Width: 19.0" (48.3 cm)

Depth: 11.5" (29.2 cm/including knobs)

WEIGHT:

11.75 lb (5.33 kg)

ENVIRONMENTAL

OPERATING TEMPERATURE:

0° to 50°C

STORAGE TEMPERATURE:

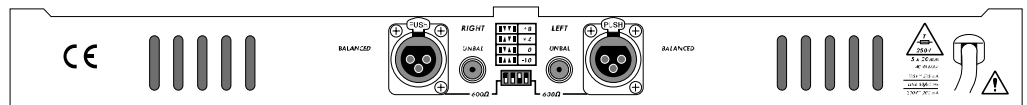
-50° to 75°C

HUMIDITY:

90% maximum (non-condensing)

STANDARD ACCESSORIES

Operation & Service Manual



APM-200 BACK PANEL

DEMOS & MONITORING

APM-800 SPECIFICATIONS

AUDIO

INPUTS:

Eight inputs, each allowing balanced or unbalanced sources. Switchable 600Ω or Hi-Z termination

MAXIMUM INPUT LEVEL:

AC=+12 dB over sensitivity setting
DC=±6 VDC

MINIMUM INPUT LEVEL:

For 1 watt output external is -19 dBV

INPUT SWITCHING:

Dual channel A and B. Either can select any of the eight inputs

INPUT SENSITIVITY RANGE:

Front switchable attenuator for -10, 0, +4 and +8 dBm for 0 dB indication on meters and outputs

LINE OUTPUTS:

A and B Hi-Z, follow input and sensitivity switching

BARGRAPH DISPLAY:

A and B LED bargraph meter display with switchable peak program or average response ballistics. Calibrated in standard VU scale

METER FREQUENCY RESPONSE:

±1 dB, 30 Hz to 30 kHz @ 25°C

METER ACCURACY:

±0.5 dB @ 0 dB reading @ 25°C

TONE OUTPUT:

1 kHz ±5%, +4 dBm,
THD ≤1.5% @ 25°C,
600Ω balanced output

INTERNAL SPEAKERS:

Two 3" speakers, A and B from separate amplifiers producing an SPL of 100 dB (@ 1 kHz) at 2 ft.

INTERNAL SPEAKER FREQUENCY RESPONSE:

300 Hz to 12 kHz

HEADPHONE JACK OUTPUT:

Front panel .25" 3 circuit jack. Output max is 200 mV RMS into 8Ω. Volume and balance control. Speaker interruptible headphone jack. Will drive any low impedance dynamic type stereo headphones

EXTERNAL SPEAKER AMPLIFIERS:

A and B amplifiers with back panel speaker connections. 8 W continuous, 15 W peak into 8Ω. THD 0.5% @ 25°C at 1 W each output. Can drive 4Ω speaker load with reduced specs

EXTERNAL FREQUENCY RESPONSE:

20 Hz to 20 kHz ±2 dB

INPUT CROSSTALK:

75 dB minimum

CHANNEL CROSSTALK:

45 dB minimum

HUM AND NOISE:

Less than 3 mV @ 25°C,
maximum volume

POWER

POWER REQUIREMENTS:

Internally selectable 100, 110, 120, 200, 220 or 240 VAC ±10%, 50/60 Hz

POWER CONSUMPTION:

40 VA avg.; 120 VA peak

POWER CONNECTION:

3-wire power cord

MECHANICAL

DIMENSIONS:

Height: 3.5" (8.9 cm)

Width: 17.0" box, 19.0" (48.3 cm/ with rackmounting brackets)

Depth: 10.0" box, 11.0" (27.9 cm) including knobs and connectors

WEIGHT:

14.5 lb (6.57 kg)

MAGNETIC SHIELDING:

Allows mounting adjacent to waveform or picture monitor without interference

ENVIRONMENTAL

OPERATING TEMPERATURE:

0° to 50°C

STORAGE TEMPERATURE:

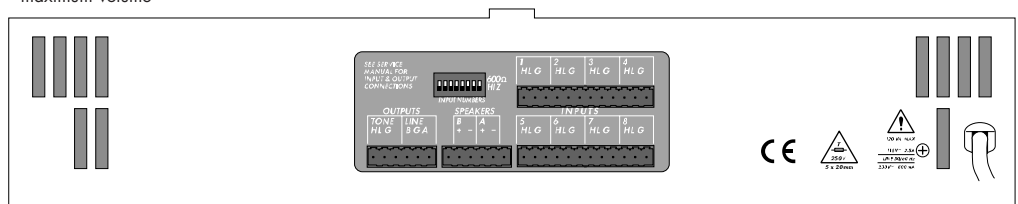
-50° to 75°C

HUMIDITY:

90% maximum (non-condensing)

STANDARD ACCESSORIES

Operation & Service Manual



APM-800 BACK PANEL