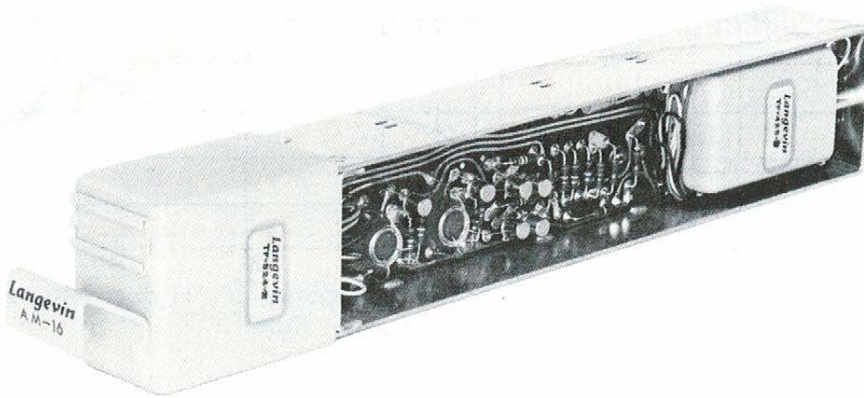


PROFESSIONAL SOUND EQUIPMENT



general description

The AM16 is primarily a microphone pre-mixing amplifier. However, its performance also qualifies it for use as a post-mixing (booster) and as a low-level program amplifier. Of special note is the very low noise generation figure (-127 dbm equivalent input, unweighted).

Extreme dependability has been stressed. All components are operated well within their ratings and no electrolytic capacitors or "chemical" parts have been used. All transistors are silicon planar NPN. The amplifier is not subject to damage from input or output overload or impedance mismatch.

Output power delivered to load is rated at +24 dbm, which may be reduced to +18 dbm by the omission of a strap connection. This lowers the supply current demanded from the external 24 v. DC source.

All conditional strapping of the amplifier whether for input impedance, output impedance, or output capability is performed on the mounting facility which receives it, and not on the amplifier proper. This allows complete interchangeability of all units within a given system without regard to their individual modes of employment.

architects' and engineers' specifications

The amplifier shall be Langevin AM16. It shall be plug-in. It shall have magnetically and electrostatically shielded input and output transformers. Input impedances shall be 50, 150 and 600 ohms. Output impedances shall be 150 and 600 ohms. All strapping for impedance and "high-low-power" shall be on the tray or cabinet which receives the amplifier, and not on the amplifier proper. Noise level shall not exceed an equivalent input of -127 dbm, unweighted. Gain at 1 Kc shall be 45 ± 0.5 db. When strapped for high power, harmonic generation at +24 dbm shall not exceed 0.75% from 30 cps to 20 Kc. When on low power, supply current demand shall be reduced, and harmonic generation at +18 dbm shall not exceed 0.5% from 30 cps to 20 Kc. Response at approx. +14 dbm shall be uniform ± 0.5 db from 20 cps to 20 Kc. Amplifier shall employ only silicon transistors, and no electron tubes. It shall not contain any electrolytic capacitors, nor any part with known shelf or service life. Size shall be approx. 1 3/4" high, 1 1/4" wide, and 10 1/2" long not including plug pins. Plug pins shall be gold-plated. Color scheme shall be gray and iridized cadmium plate.