

Performance Figures Listed Below Are GUARANTEED Values.

GAIN: 45 ± 0.5 db
INPUT Z: 50, 150, 600 ohms
LOAD Z: 150, 600 ohms
HARMONIC GENERATION: (Total) *
Not Over 0.5% from 30 cps to 20 Kcps
@ +18 dbm (on "low-power").
Not Over 0.75% from 30 cps to 20 Kcps
@ +24 dbm (on "high-power").
NOISE GENERATION: Not over an input-
equivalent level of -127 dbm (measured
over bandwidth 20 cps to 20 Kcps).
FREQUENCY RESPONSE: ± 0.5 db from
20 cps to 20 Kcps (measured at approx.
+14 dbm output). *

* see page 2 for more detail

SIZE: Approx. $1 \frac{3}{4}$ " high x $1 \frac{1}{2}$ " wide
x $10 \frac{1}{2}$ " long (not including plug
pins).
POWER REQUIREMENT: 24 v. DC (with
negative grounded). 110 ma when
on "high-power". 55 ma on "low".
ENVIRONMENTAL REQUIREMENT:
Temperature of mounting space must
not exceed 65°C (145°F), including
rise due to AM16/s. (Dissipation of
each AM16 is approx. 2 watts on
"high-power".

installation and operation

The installation of an AM16 consists of merely plugging it into its receptacle GENTLY.

Sources between 30 and 50 ohms should be connected to the 50 ohm input. Between 100 and 200 ohms, connect to the 150 ohm input. 250 to 600 ohms, use the 600 ohm input. (However, it is often possible to realize a few db of "noiseless" gain by the connection of a 250 ohm microphone to the 150 ohm input. Some loss of bass may be observed.)

Proper connector pins for desired input and output impedances may be found on page 2, as will strapping for "high-low-power". Because the AM16 is small in size, the mating connector solder lugs are also small. It will be found helpful to "bus" all power and then wire jumpers from the lugs to the buses.

A modern low-ripple power supply with good regulation must be used. Maintain voltage at 24 ± 2 volts. Do not allow development of any transients over 40 volts, or transistor damage may occur. Avoid noise by powering relays, etc., from separate supplies.

Install the AM16 in a position free from hum fields such as radiated by power transformers, chokes, modulation transformers, etc.

Do not allow environmental temperature to exceed 65°C (145°F).

Television synch pulse interference should not occur with the AM16, as the amplifier has a TV low-pass filter section in the internal power wiring. Also, the input transformer (in addition to being truly balanced), has triple magnetic shielding and full electrostatic screening. If TVI is encountered, please write to Langevin and describe in full all observations.

The negative side of the power supply must be grounded at one point, and only one point. This ground is usually located at the supply proper.

accessories

SEE LANGEVIN CATALOGUE (or request individual spec. sheets).

Mounting Tray no. TRY6 (for installation of single AM16 Amplifier).
Rack Cabinet no. RC612 (for installation of as many as 12 AM16 Amplifiers in $1 \frac{3}{4}$ "
of vertical space in standard rack.)
Power Supply no. PS217 (10 amperes).
Power Supply no. PS218 (3 amperes).

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