



TM-2/TM-2P

Telephone To Line-
Level Transformers



Product Data

- Converts 500/600 ohm output to match aux- or mic-level (TM-2) amplifier input
- TM-2P has output level control for aux-level output on a RCA phono jack
- TM-2 has Lo-Z/Hi-Z mic output and aux-level output on a 1/4-inch phone jack and an RCA phono jack, respectively
- Sturdy steel enclosure has flanges for surface mounting

Specifications:

Output:

High Level: +6 dBm into 47k Ω

Low Level: -40 dBm into 600 Ω
(TM-2 only)

Input: +4 dBm max at 600 Ω

Frequency Response: 50 Hz-15 kHz, $\pm$ 2 dB

Dimensions: 3.875" W x 1.0" H x
2.0" D (9.8 cm x 2.5 cm
x 5.1 cm)

Shipping Weight: 1 lb. (0.45 kg)

Description

The University Sound Models TM-2 and TM-2P Telephone Matching Adaptors are designed to match a 500/600 ohm line or telephone line to the input of a mixer/amplifier or receiver. The adaptors provide paging access from the output of a telephone switchboard, a dial access telephone, or internal telephone system. The input to the TM-2/TM-2P can be taken from either a balanced or an unbalanced line. A center tap terminal is provided for balanced line operation. This terminal permits "simplex" operation when a DC switching or signaling scheme is required. The TM-2 has two outputs: a low level output for matching the Hi-Z or Lo-Z microphone input of any amplifier, and a high level output for matching the 47K ohm auxiliary input of any amplifier. The TM-2P has one output consisting of a high level output for

matching the 47K ohm auxiliary input of any amplifier, and is adjustable via a level control to a maximum output of +6 dB above the input level.

For input connections, both units use a strip of four screw terminals. For output connections, the TM-2 uses a 1/4" phone jack for its low level output and a standard RCA phono jack for its high level output, while the TM-2P's single output uses an RCA phono jack. The enclosure of both units is a sturdy steel box, finished in black wrinkle paint. The box has mounting flanges at either end of its length, which allow the units to be surface-mounted using #6 screws through the holes in the flanges. The enclosure itself measures 3.875" x 1.0" x 2.0" x (9.8 cm x 2.5 cm x 5.1 cm).

Architect's and Engineer's Specifications

The units shall be self-contained matching transformers designed to match a 500/600 ohm line or telephone line to the input of a mixer/amplifier or receiver. The input shall accept either balanced or unbalanced lines, and a center tap terminal shall be provided for balanced line operation. All input connections shall be made on a strip of four screw terminals. The units' enclosure shall be made of sturdy steel finished in black, and shall have mounting flanges on two ends for surface mounting of the enclosure. The enclosure shall measure 3.875" x 1.0" x 2.0" (9.8 cm x 2.5 cm x 5.1 cm).

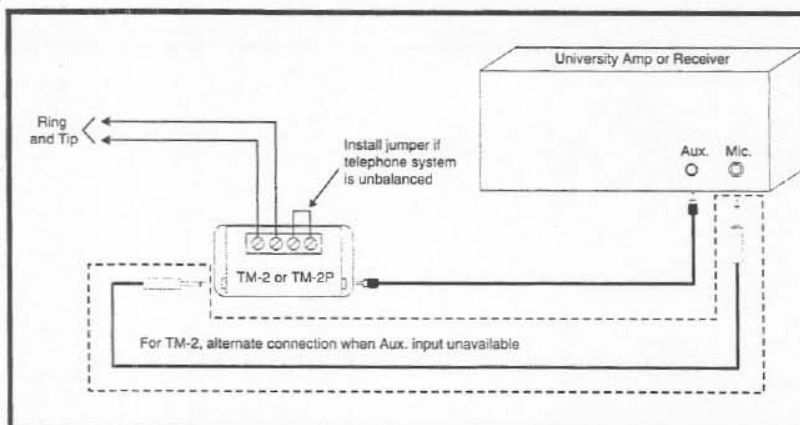
[Applies to TM-2 only:]

The unit shall have two outputs: one that shall match the low level Lo-Z or Hi-Z microphone input of an amplifier, and another that shall match the 47k ohm auxiliary input of an amplifier. The low level output shall appear on a 1/4" phone jack, while the aux-level input shall appear on a standard RCA phono jack. The University Sound Model TM-2 has been specified.

[Applies to TM-2P only:]

The unit's output shall match the 47k ohm auxiliary input of an amplifier, and shall be adjustable via a level control to a maximum output of +6 dB above the input level. The output shall appear on a standard RCA phono jack. The University Sound Model TM-2P has been specified.

Application



The diagram at left shows a configuration for using the TM-2(P) units to match a phone line to an amplifier input. Use of the transformer in this configuration will insure the best impedance match possible. This translates to a far better signal quality at the amplifier's output than would be possible if the 500/600 ohm phone line were directly connected to the amplifier's inputs.

