




## TECHNICAL NEWS BULLETIN

SUBJECT: NEW MODEL TM-2P TELEPHONE MATCHING TRANSFORMER WITH ADJUSTABLE OUTPUT




The Raymer Model TM-2P is a telephone matching transformer which has a 600 ohm input impedance and a high impedance output. The level of this output may be varied by means of the level adjust control included in the TM-2P. This unit is designed to match a 500/600 ohm music or paging source to the auxiliary level input of any amplifier or receiver. Typical input sources to the Model TM-2P may include, the paging access port of a telephone switchboard, or the audio pair of an internal telephone system; other sources may also include distributed music, speech or paging which has been transmitted over leased telephone lines. In all such cases the output level to the amplifier may be varied without any effect on the input circuit.

The output of the TM-2P is high level to match the auxiliary (phono/line) input of any amplifier with an input impedance of 47K ohms or greater. A slotted screwdriver control is provided to adjust this output to a maximum of 6 db above the input level.

Input connections to the TM-2P are made by means of screw terminals on the face of the unit. Output connection is made by means of a standard RCA type phono jack on the side of the unit. The Model TM-2P is housed in a cadmium plated steel box 3 3/8" x 2" x 1" which may be secured to most surfaces by means of #6 screws through the mounting flanges.

### SPECIFICATIONS

Input: 600 ohm balanced  
Input Level: +4 dbm max.  
Output: 47K Ohm unbalanced  
Output Level: adjustable to +6 db above input  
Frequency Response: ±2 db 50 to 15K Hz  
Size: 3 3/8" x 2" x 1"  
Shipping weight: 1 lb.

NOTE: THIS UNIT IS NOT TERMINAL EQUIPMENT AND MAY NOT BE DIRECTLY CONNECTED TO THE NATIONAL TELECOMMUNICATIONS NETWORK. TO PREVENT DAMAGE TO THE UNIT DO NOT APPLY DC VOLTAGE ACROSS THE INPUT TERMINALS

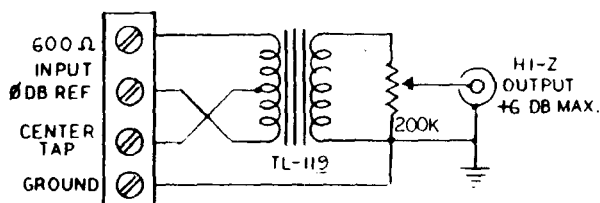


FIGURE 1. SCHEMATIC, MODEL TM2-P.

### TYPICAL APPLICATIONS

The Raymer TM-2P allows connection of a 600 ohm balanced or unbalanced source to the high level input of an amplifier or receiver while providing variable output level.

#### Background Music

Allow adjustment of signal received through telephone lines to avoid overloading amplifier inputs.

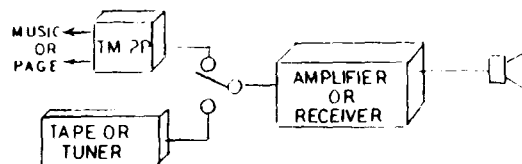


FIGURE 2. MATCH SIGNAL LEVELS WITH TM-2P

#### Sound Installations

Provides an input level control that can be preset and hidden so personnel will not damage the system when adjusting front panel controls.

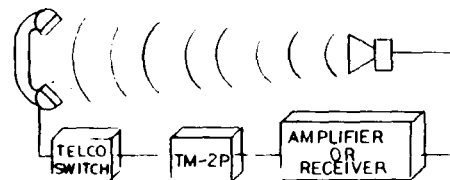


FIGURE 3. PRESET MAXIMUM PAGING LEVEL TO PREVENT FEEDBACK IN PHONE SYSTEM.