

# REMOTE PICKUP AMPLIFIER MODEL RPA-1



BULLETIN 230

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3-Channel Capability  
AC-DC-Battery Operation



With complete solid-state circuitry and straightforward construction, the Model RPA-1 Remote Pickup Amplifier provides reliable audio mixing facilities for remote broadcast operations. Three independent mixing channels provide two microphone inputs and a high-level line input. Careful placement of front-panel controls enables easy operation. All-steel welded construction makes the RPA-1 one of the most rugged remote amplifiers available. The padded-vinyl carrying handle and judicious component placement assure proper balance and easy carrying.

Internal audio limiting circuitry and a peak-reading DB meter enable high program level output. Having a control range of approximately 20 db and an attack time of 1 millisecond, this internal limiter greatly simplifies level control. Due to the fast attack time, limiting is essentially without significant distortion or other undesirable side effects. The peak-reading DB meter provides an accurate indication of output levels.

The low-silhouette cabinet simplifies carrying and storage. An easy-to-remove top cover provides complete access to the battery holder and interior of the RPA-1.

## MOSELEY ASSOCIATES, INC.

PROFESSIONAL PRODUCTS FOR PROFITABLE BROADCASTING

# MODEL RPA-1 REMOTE PICKUP AMPLIFIER



Rear apron of RPA-1. Standard connectors are used for all connections. Note vinyl cushion feet to provide protection in operating and carrying positions.

## FEATURING

- AC-DC-battery operation
- rugged construction
- 3-channel capacity
- all solid-state circuitry
- built-in audio limiter

The Model RPA-1 Remote Pickup Amplifier is designed for use from 120 VAC, external 11.5 to 16 VDC, or from internally mounted standard "D" size dry-cell batteries. External power sources are selected simply by plugging in the appropriate power cable. Power is automatically transferred to the internal batteries if the external power source is interrupted. Internal regulating circuitry overcomes normal variations in external power sources and greatly reduces noise which may be present on these power sources. Audio monitoring is accomplished by a headphone amplifier. This amplifier is fed from the output of the RPA-1 and has a gain control mounted on the front panel. During telephone line operations, cues fed from the studio can be monitored by adjusting this gain control.

When used with the RPL-2T series VHF Remote Pickup Transmitter, the RPA-1 also functions as an audio mixer and transmitter control head. The power switch enables total control of the RPA-1 and RPL-2T Transmitter. Power may be applied only to the RPA-1 for the purpose of establishing proper audio levels, as well as to both the RPA-1 and RPL-2T Transmitter for normal operation. In addition to the metering of peak audio output of the RPA-1, a meter switch enables monitoring of the RPL-2T internal power supplies, collector voltage of the final RF stage transistors, and relative RF power output. The RPA-1, of course, can be mounted in a vehicle when the RPL-2T Transmitter is used in mobile service. Request Product Bulletin 229 for complete details on the RPL-2 series Remote Pickup Link.

## SPECIFICATIONS

<b>Mode</b>	Monaural
<b>Mixing Channels</b>	3 (2 microphones and 1 line input)
<b>Input Impedances</b>	
<b>Line</b>	50,000 ohms bridging, unbalanced
<b>Microphone</b>	50 — 150 ohms, balanced, floating
<b>Input Levels</b>	
<b>Line</b>	-15 dbm to +10 dbm from 600 ohm source
<b>Microphone</b>	-60 dbm to -40 dbm
<b>Output</b>	600 ohms, balanced, floating, +10 dbm
<b>Frequency Response</b>	+0.4 db to -0.8 db, 30 Hz to 15,000 Hz
<b>Distortion</b>	Less than 0.5% at normal output level, 50 Hz to 15,000 Hz
<b>Signal-to-Noise Ratio</b>	Better than 60 db
<b>Peak Limiter</b>	Control range approximately 20 db, attack time 1 millisecond
<b>Metering</b>	Peak-reading DB metering of output; switch to select and meter key parameters of RPL-2T Transmitter
<b>Monitoring</b>	Headphone power amplifier with adjustable gain
<b>Power Requirements</b>	120 VAC, 50 — 60 Hz; 11.5 VDC to 16 VDC, negative ground; or internal battery holder for 10 size "D" cells (Batteries not supplied)
<b>Size</b>	3 3/4 inches high, 12 inches wide, 11 inches deep
<b>Shipping Information</b>	15 pounds, 0.75 cubic feet
(Approximate)	12 pounds net with batteries

Specifications subject to change without notice

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