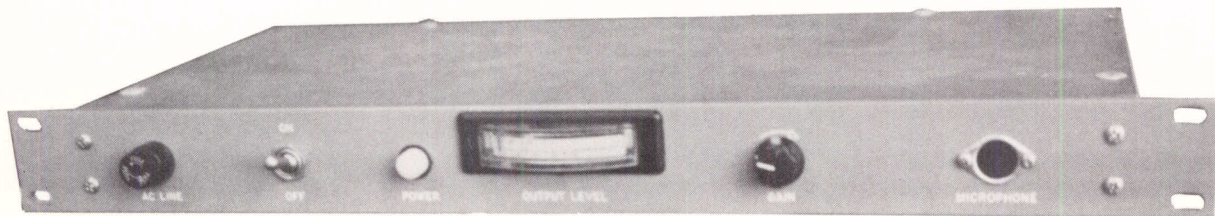




# MICROPHONE PREAMPLIFIER Model MPA-1

TECHNICAL BULLETIN 205-5220

- **Solid State**
- **Flat Response**
- **Output Level Metering**
- **Minimum Noise**
- **Wide Dynamic Range**



The Model MPA-1 microphone preamplifier is a solid state amplifier unit, providing low distortion microphone preamplification with front panel manual gain control and output level monitoring.

A six-pin microphone input connector, located on the front panel, with rear panel jumper-wire patching adapts the input to operate with carbon, low impedance or high impedance microphones.

Push-to-talk and 600 ohm output terminals are provided on the rear panel.

The Model MPA-1 is particularly useful in those installations where the radio transmitter is located at a considerable distance from the operating position.

**THE TECHNICAL MATERIEL CORPORATION**

## TECHNICAL SPECIFICATIONS MPA-1

### OPERATING PARAMETERS

MICROPHONE INPUTS Carbon, crystal, high impedance dynamic or low impedance dynamic  
OUTPUT LEVEL Adjustable to 0 dbm  
OUTPUT IMPEDANCE 600 ohms, balanced

### AUDIO PARAMETERS

FREQUENCY RESPONSE 300 to 3000 Hz  $\pm$  3db  
DISTORTION Minimum of 40 db below 0 dbm  
HUM AND NOISE Minimum of 50 db below 0 dbm

### SPECIAL FEATURES

METERING Front panel meter provides continuous monitoring of the audio output level.

### ENVIRONMENTAL AND INSTALLATION

COOLING Convection  
OPERATING CONDITIONS 0° to 50°C. Up to 90% relative humidity at MSL.  
STORAGE CONDITIONS -30° to + 75°C. Up to 90% relative humidity at MSL.  
PRIMARY POWER 115 or 230 volts AC  $\pm$  10%, 47 to 400 Hz, single-phase, 10 watts  
SIZE AND WEIGHT 1.75" (4.4cm) high x 19" (48.3cm) wide x 8.75" (22.2cm) deep  
6 pounds, 2.7 kg installed  
SHIPPING DATA Commercial packing for U.S. shipment. Special packing available at additional cost.  
One (1) container — 22" x 19" x 8". Weight/cube — 10 lbs./2 cu. ft.  
LOOSE ITEMS Technical manual (2) and mating signal connectors.

**ACCESSORY PRODUCTS** are described in sections 4-9 of the General Catalog and include RF/antenna, terminal, data, connector and power equipment. **TECHNICAL SERVICES** in design, engineering, training, and related areas are described in section 10. **OPTIONS** are listed after each TMC product in part A of the Price List.

*Technical Specifications Are Subject to Change Without Notice*

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