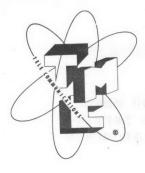
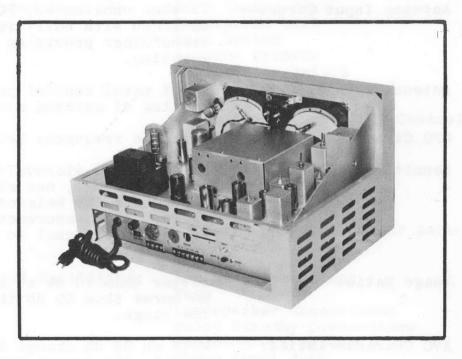
SALES SERVICE BULLETIN NUMBER 179



Communication Receiver, Model GPR Series 90



The GPR Receiver is a 13 tube double conversion superheterodyne communication receiver covering the frequency range of .54 to 31 megacycles in six accurately calibrated bands with full electrical bandspread.

The unit is housed in an attractive metal cabinet measuring $10" \times 15" \times 20"$. The receiver is also available for standard 19" rack mounting if desired.

Nominally operated on 105 to 125 volts 50/60 cycles, the receiver may also be used for battery or vibrapack operation by providing externally 6 volt filament and 180 volt "B" supply.

TECHNICAL SPECIFICATIONS:

Frequency Range: .54 to 31 megacycles in six bands.

Band Change: By means of a front panel switch.

Type of Reception: AM, CW, and MCW signals. FS when

used with appropriate Audio type

Frequency Shift Converter.

Tuning System: Accurately calibrated main tuning dial plus auxiliary dial with full

electrical bandspread.

TECHNICAL SPECIFICATIONS: (Continued)

Antenna Input Circuit: 75 ohms unbalanced, 300 ohms

balanced with built-in ferrite transformer providing accurate

matching.

Antenna Trimmer: Front panel control permits

peaking of antenna circuit.

BFO Circuit: Variable Frequency BFO.

Sensitivity: Less than 10 microvolts from

.54 to 1.5 Mc., one microvolt throughout the balance of the range. All measurements are for a 10 db signal to noise

power ratio.

Image Ratio: Better than 70 db at 10 Mc. and

no worse than 40 db throughout

the range.

AVC Characteristics: With an 80 db change in the input

signal, the output remains const-

ant within 12 db.

Selectivity: Variable in six steps from 200

cycles to 5 kilocycles, 5 crystal

and 1 non-crystal position.

Output Impedance: 4, 8, 16, and 600 ohms.

Hum Level: Better than 60 db.

Output Power: 2 watts high quality audio output.

Input Power: 105-125 volts, 50/60 cycles,

approximately 90 watts.

Noise Limiter: A highly effective Noise Limiter

circuit is provided.

Metering: Calibrated "S" meter.

Audio Selectivity: Specially designed Audio Selectivi-

ty control with variable bandwidth.

TECHNICAL SPECIFICATIONS: (Continued)

Front Panel Controls: Main Tuning Dial

Bandspread Dial
Band Switch
Antenna Trimmer
Selectivity Switch
Crystal Phasing Contro

Crystal Phasing Control Audio Filter Switch

Audio Filter Bandwidth Control

Standby Switch

Noise Limiter Switch Audio Gain Control

Phone Jack

AGC/MANUAL Switch BFO ON/OFF Switch

RF Gain and Power ON/OFF Switch

BFO Pitch

Rear Panel Facilities: Antenna Connections

Fuse

Loudspeaker Connections Relay Standby Connections

Phono-ON/OFF Switch Phono Input Jack

Accessory Facilities

on Rear Panel:

Utility AC Outlet

Utility Power Socket provides 6.3 v .6 amp. 250 v .01 amp.

Emergency Power Input

Diversity Operation: The Model GPR-D is available for

diversity application. Provisions are made for external control of

the HFO, BFO, and IFO.

Mounting: Cabinet or Rack Mounting.

Size: (a) Cabinet 20" wide x 10" high x 15" deep.

(b) Rack

Mounting 19" wide x 8-3/4" high x 14" deep.

Weight: Net - 50 lbs.

Gross - 110 lbs. packed for export.

Tube Complement: 6CB6 RF

6BE6 1st Mixer 6AG5 HFO

6BE6 2nd Mixer & Oscillator

6BA6 1st IF 6BA6 2nd IF 6BA6 3rd IF

6AL5 Detector - Noise Limiter 6AG5 Beat Frequency Oscillator TECHNICAL SPECIFICATIONS: (Continued)

Tube Complement:

6T8 6V6GT 5U4G AVC, 1st Audio Audio Output Rectifier Regulator

We reserve the right to make changes in the design of our equipment consistent with good engineering practice in order to make improvements in design and to effect economies in manufacture.

L0155/12M

THE TECHNICAL MATERIEL CORPORATION

COMMUNICATION ENGINEERS

P. O. BOX 142 MAMARONECK, NEW YORK CABLE TEPEI NEW YORK, N.Y.



IN CANADA: TMC (CANADA) LTD. OTTAWA, ONTARIO