SALES SERVICE BULLETIN NUMBER 179B







The GPR Receiver is a 15 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 $10^{\prime\prime} \times 15^{\prime\prime} \times 20^{\prime\prime}$. 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

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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 aux- iliary dial with full electrical bandspread.
ANTENNA INPUT CIRCUIT:	75 ohms unbalanced, 300 ohms balanced with built- inferritetransformer providing accurate matching.
ANTENNA TRIMMER:	Front panel control permits peaking of antenna circuit.
BFO CIRCUIT:	Variable Frequency BFO.
SENSITIVITY:	Less than 5 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 60 db
AVC CHARACTERISTICS:	With an 80 db change in the input signal, the out- put remains constant within 12 db.
SELECTIVITY:	Variable in six steps from 200 cycles to 5 kilo- cycles, 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 pro- vided.
METERING:	Calibrated "S" meter.
AUDIO SELECTIVITY:	Specially designed Audio Selectivity control with variable bandwidth.
FRONT PANEL CONTROLS:	Main Tuning Dial Bandspread Dial Band Switch Antenna Trimmer Selectivity Switch Crystal Phasing Control Audio Filter Switch Audio Filter Bandwidth Control Standby Switch Dial locks

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 SSB Selector Switch.

ACCESSORY FACILITIES ON REAR PANEL:

Utility AC Outlet Utility Power Socket provides 6.3 v .6 amp. 250 v .01 amp. Emergency Power Input Coaxial IF Output for SSB. Audio Input for SSB.

DIVERSITY OPERATION:

MOUNTING:

SIZE: (a) Cabinet (b) Rack Mounting

WEIGHT:

TUBE COMPLEMENT:

The Model GPR-D is available for diversity application. Provisions are made for external control of the HFO, BFO, and IFO.

Cabinet or Rack Mounting.

20" wide x 10" high x 15" deep. 19" wide x 8-3/4" high x 14" deep.

Net - 52 lbs.

- Gross 63 lbs. packed for domestic. 110 lbs. packed for export.
- 6AB4 Grounded Grid Input RF Amplifier
- 6CB6 2nd RF
- 6AU6 1st Converter
- 6AG5 Oscillator
- 6BE6 2nd Converter and Oscillator
- 6BA6 IF Buffer Amplifier
- 3- 6BA6 IF Amplifiers
 - 6AL5 Detector and Noise Limiter
 - 6AG5 BFO
 - 12AX7 AVC and Audio Amplifier
 - 6V6 Output
 - OA2 Regulator
 - 5U4G Rectifier





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