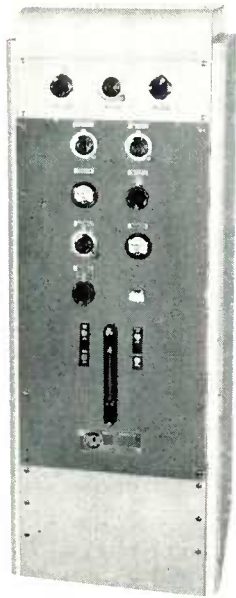


ET-4332-A COMMUNICATIONS TRANSMITTER



The RCA ET-4332-A Communications Transmitter is a High Fidelity Communications Equipment, designed in the modern manner and embodying the latest technical improvements to insure fine performance and economical operation. It is sturdily constructed for long life and employs quality-tested components throughout. In appearance it emphasizes clean lines, attractive color scheme and convenient arrangement of controls and meters. The flexibility of the ET-4332-A will recommend it particularly to Government telegraph administrations and communication companies.

The vertical chassis construction of the equipment provides easy accessibility to every part of the cabinet. Adjustments, tube changes and minor repairs are easily and quickly

made. Two large, low-loss, ceramic bushings are placed at the top of the cabinet for antenna feeder or transmission line connections. Two large cutouts have been made in the bottom for external wiring.

This fine example of RCA craftsmanship has been encased in a cabinet that is modern in style and pleasing in appearance. It is finished externally in two-tone amber gray, "orange-peel" finish with a zinc chromate undercoat. The inside is opalescent gray.

The transmitter is rated at better than 250 watts output and covers a frequency range of 2.2 megacycles to 20 megacycles. The transmitter may be set to any frequency in this range (for which a crystal is available) in a short time and with no difficulty.

AR-67 COMMUNICATIONS RECEIVER

The AR-67 is a long wave receiver designed for commercial service and covering the band of from 75-1500 KC continuously. It is A.C. or battery operated and is arranged for C.W. or phone reception.

The superheterodyne circuit is employed with one r.f. stage, two i.f. stages with litz wound magnetite core transformers and two audio stages with push-pull output. The receiver is provided with a manual and automatic sensitivity control and C.W. heterodyne oscillator. Two degrees of selectivity may be obtained by means of auxiliary windings on the i.f. transformers for speech or telegraph reception. An output limiter is provided, variable and coupled to the volume control.

Nine tubes are employed although the use of dual purpose tubes provides the equivalent of 13. The receiver may be operated from external batteries (headphone re-

ception) using a 6 volt A battery and a 90 volt B battery or from an A.C. supply of 40-60 cycles, 110, 125, 150, 210 or 240 volts. Either cabinet or rack mounting may be supplied. The output is for a 600 ohm line, headphones or loudspeaker. Sensitivity is better than 5 microvolts for 50 milliwatts output.



Particular precautions have been taken to prevent damage from moisture or severe climatic conditions. In fact, in every respect, the AR-67 is a sturdy, reliable and sensitive communications receiver.

AR-4291 TRANSCEIVER

This transceiver unit has been designed chiefly for portable communications purposes and is a sturdy unit weighing only fifteen pounds. It will operate in the range of 30-65 megacycles with an output of approximately 0.7 watts. The transceiver employs two tubes, an RCA-30 and an RCA-1F5G. With these tubes and with the standard batteries, a life of thirty hours continuous use will be obtained with one set of batteries.

The unit itself is approximately $5\frac{7}{8}$ " x $9\frac{1}{4}$ " x $13\frac{1}{2}$ ". It contains a di-pole antenna. The range is covered by the use of two plug-in coils and mounting space is provided for the coil not in use. A filament voltmeter is mounted on the panel.

The unit is designed to operate on the same frequency for transmission and reception with compensation to assure that the same frequency will be employed for both

modes of operation. Calibration curves are mounted inside of the lid to aid in tuning. The batteries employed consist of three Z-30PX 45 volt B batteries, two 4FH A batteries and one 5540 C battery (Burgess).

The unit is finished in gray wrinkle and is provided with a carrying strap for convenient use.

All parts are adequately protected when the unit is closed.

