

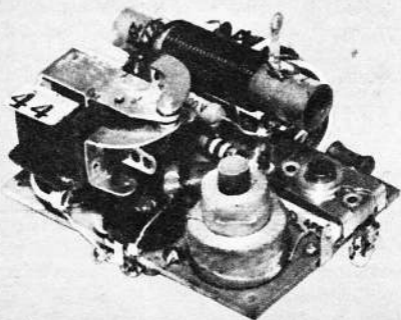
openings to reach the filling hole of the cell, and to observe the built-in hydrometer—the latter serving, of course, to show how much charge is in the cell.

Charging of the cell is made easy, by the inclusion in the case of two separate charging systems. Both are reached by making connections to the 6-prong charging socket on the rear of the case. When the 110 V. charging lead is inserted in this socket, it makes connections to transformer T, while the other charging lead allows use of a 6 V. storage battery for charging. Power for heating glow plugs may also be obtained from this socket; some plugs can take only 1.5 V., and 1 and 3 will supply this. If you want the full two volts, connect to 5 and 3.

Another feature of this transmitter is the metering circuit, basis of which is a high grade 5 ma. meter. When the meter switch is in the position shown on the diagram, the meter is connected as a 50 ma. unit, to measure the transmitter plate current. In the left position, the meter is entirely disconnected from the transmitter, and by connecting to the proper terminals of the meter socket, can be used as a 0-5 V. meter (terms. 1 & 2), 0-50 V. (1 & 8), 0-250 V. (1 & 4), or a 0-5 ma. meter (1 & 5). In the right hand position the meter switch allows checking the high voltage of the transmitter power supply, with a scale range of 0-250 V.

This transmitter is available only as a finished and tested unit, although the RF unit may be had separately in kit or finished form. The outfit is complete, with storage cell, crystal and tubes, antenna, snap-action key on 8' cord, and 110 V. and 6 V. charging cables.

Transmitter Specifications: Model RCX HP II, using two 3D6 tubes and Petersen Z9A crystal. Case size less projections, 5 x 6 x 9". Toggle switch for power ON-OFF, jack for key plug, 3-position rotary switch for meter. 3-section screw-together antenna is 9½' long, 38" long when taken apart. Tuned antenna coupling allows proper loading on all sorts of surfaces. Built-in chargers for 110 V. AC or 6 V. (*Continued on page 89*)



Essco Rcvr & Xtrmr

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DC. Meter may be used for checking external circuits (or transmitter). At maximum loading, transmitter runs at 30 ma. and 160 V., or 4.8 W. Weight less antenna—13 lbs.

Receiver Specifications: Model DHT; supplied with two MPC-1 tubes. Base size $2\frac{1}{2} \times 1\frac{3}{4}$ " , overall height (including second base) $1\frac{5}{8}$ ". Weight with tubes and Kurman relay—2.9 oz. Screw adjustments for tuning and sensitivity, variable resistor to set second tube plate current. 6-lead power cable does not include relay contact connections. 20-24" ant. recom.

Battery Requirements (using two MPC-1 tubes): A—two pencells in parallel—1.5 V at 80 ma. B—two $22\frac{1}{2}$ V. batteries (Eveready 412 or equiv.), not series connected. See text for current drains.