

STATUS: Commercial

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Air Force

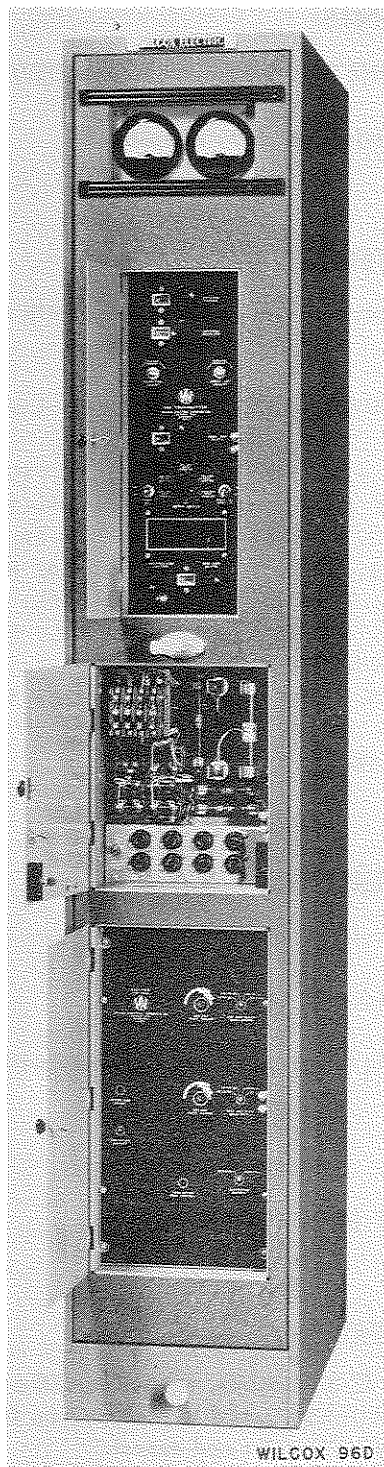
DATE OF THIS SHEET: 19 May 52

AN/FRT-TYPE

COMMERCIAL TYPE NUMBER:

WILCOX 96D

RADIO TRANSMITTER



WILCOX 96D

Radio Transmitter Wilcox Model 96D is a 2.5 kw equipment intended primarily for ground-to-air, and long distance point-to-point a-m, radiotelephone and radioteletype communication in the frequency range 2 to 26 mc. Power supply or modulator are not included. Normally used with Modulator MD-69/FRT (Wilcox 50 H Modulator) and Rectifier Power Unit PP-219/FRT (Wilcox 36D Rectifier) which are separately supplied.

This equipment is designed for simultaneous radioteletype and voice, or tone operation when an external frequency-shift exciter is used, and the transmitter has been properly adjusted for this type of operation.

Remote control up to nine miles is possible by means of Remote Control Console CY-161/FRC.

The output impedance is 500 to 600 ohm for either balanced or unbalanced antenna transmission lines. It is normally used with a doublet (Antenna Kit MX-741/FR) or a rhombic, transmitting (Antenna Kit MX-742/FR).

This transmitter is a commercial model similar to Radio Transmitter T-158C/FRT and has tone keying facilities and an extended frequency range; features not included in the T-158/FRT.

AN/FRT-TYPE		INSTRUCTION LITERATURE: Wilcox Instruction Manual
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MAJOR COMPONENTS

QUANT NAME OF COMPONENT DIMENSIONS (IN) INSTALLED WEIGHT (LBS)

(Equipment consists only of a single major operating component.)

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Issued on any organizational level as project material in accordance with AFR 100-17.

INSTALLATION: Ground, fixed.

APPROXIMATE RANGE (IN MILES): Long.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -9, -21, -25, -26; AN/ARR-15; AN/FRC-10; AN/FRR-3, -4, -7, -12, -28, -32; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7, -19, -20; AN/SRR-3, -8, -12, -13; AN/TRQ-1; AN/URR-10, -22, -23; AN/VRC-1, -4; AN/VRR-2; BC-312, -342, -348, -779, -794, -1004; MBS; MQ; OA-58/FRC, -59/FRC; R-62/PR, -80/PR, -96/SR, -129/U, -203/SR, -205/U, -206/PR, -208/FR, -209/FR, -210/U, -211/U, -213/SR, -274/FRR, -320/FRC, -388/URR; RAL; RAO; RAS; RBB; RBC; RBG; RBH; RBM; RBO; RBP; RBS; RCG; RCH; RDE; RDM; REA; SCR-177, -188, -193, -244, -274, -281, -399, -499, -506, -536, -543, -585, -593, -694, -704; TBO; TBX; TCH; TCO; TCP; TCS; AR-88 (RCA); Collins 18S-4 (AF Model); Collins 75A-2; Fisher TS 25-3; Hammarlund SP-600-JX; National HRO-50.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 2 - 26 single channel preset crystal-controlled.

TYPE MODULATION: Am (when used with external modulator).

TYPE OF SIGNAL: Cw, voice, icw and frequency shift keying teletypewriter (when used with external equipment).

POWER OUTPUT: 2.5kw.

POWER REQUIREMENTS: Rectifier Power Unit PP-219/FRT (Wilcox 36D Rectifier).

PHYSICAL CHARACTERISTICS

Radio Transmitter Wilcox 96D measures 12-5/16 x 73-1/2 x 27-3/4 inches, net weight 320 pounds, volume 15 cu ft. Packed for either domestic or export shipment: total weight 1,225 pounds, total volume 125.7 cu ft, 3.14 ship tons. Shipped in 3 packages both domestic and export.