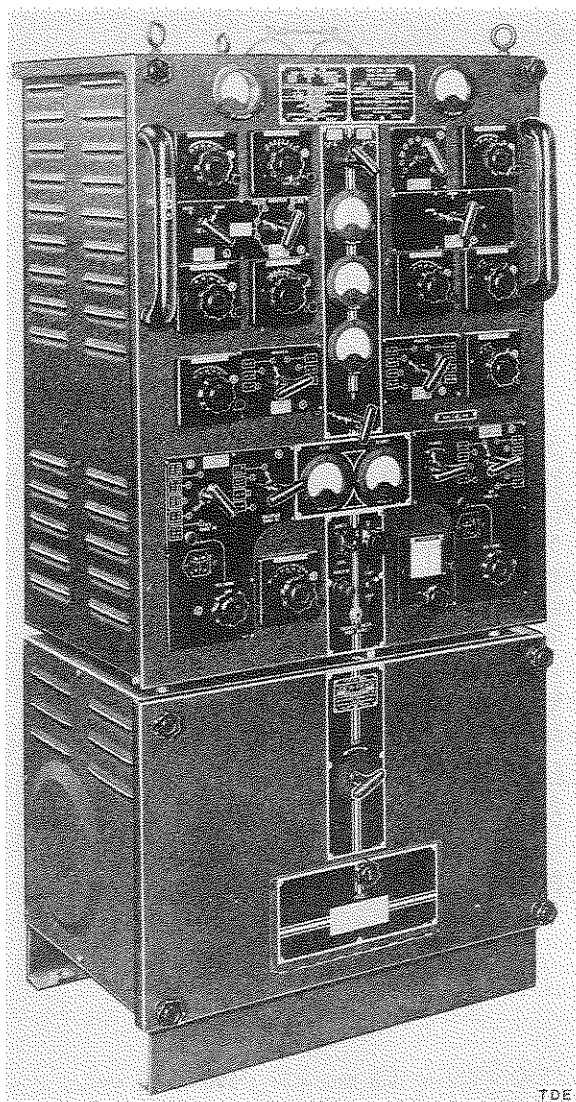


STATUS: Limited Standard
 CLASSIFICATION OF EQUIPMENT: Unclassified
 USING SERVICE: Navy
 DATE OF THIS SHEET: 9 May 52

AN/URT-TYPE

SERVICE TYPE NUMBER: TDE, TDE-1 through -3
 RADIO TRANSMITTING EQUIPMENT



Radio Transmitting Equipments TDE, TDE-1 through -3 are general purpose, m-f/h-f low-power a-m (cw, mcw, voice) sets especially designed for rapid installation aboard surface vessels, or in shore stations. Different models of the series are similar in design and operating characteristics; the major units vary with the type of power source available.

The output frequency is continuously variable and is obtained from two high stability self excited master oscillators.

These sets are readily matched to any type antenna, or may use separate antennas for the m-f and h-f sections.

They can be controlled and keyed by a remote control unit supplied; a standard four- or six-wire remote control system such as Radiophone Units 23211 or 23172.

A special auto transformer is supplied for operation from a 208-v, 60-cyc, 3 phase, a-c source.

AN/URT-TYPE	INSTRUCTION LITERATURE: NavShips 900,389, 95328
	CLASSIFICATION OF EQUIPMENT: Unclassified
TDE, TDE-1 through-3 : SERVICE TYPE NUMBER	USING SERVICE : Navy
RADIO TRANSMITTING EQUIPMENT	DATE OF THIS SHEET : 9 May 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter CAY-52267, -52267-A	39-13/16 x 28-1/4 x 20-1/2	334.0
1	Motor Generator and Rectifier Power Unit CAY-21948, -21949, -21850, -211030	22-13/16 x 28 x 19-7/16	372.0
1	Remote Control Unit CAY-23305, -23381	3-11/16 x 5-7/16 x 5-3/16	3.5

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shipboard, shore stations.

INSTALLATION: Shipborne, ground.

APPROXIMATE RANGE (IN MILES): Long.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -21, -25; AN/ARR-15; AN/FRR-3, -4, -7, -12, -28; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7; AN/SRC-3; AN/SRR-3, -8, -11, -12, -13; AN/TRQ-1; AN/URR-10, -22, -23; AN/VRC-1, -4; AN/VRR-2; BC-312, -314, -342, -344, -348, -453, -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, -212/SR, -213/SR, -215/SR, -247/URR, -274/FRR, -320/FRC, -388/URR; RAK; RAL; RAO; RAS; RBA; RBB; RBC; RBG; RBH; RBL; RBM; RBO; RBP; RBS; RCF; RCG; RCH; RDE; RDF; RDM; SCR-177, -188, -193, -244, -274, -281, -399, -499, -506, -543, -593, -704; TBO; TBX; TCH; TCP; TCS; AR-98 (RCA); ARC Type 12; 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: 0.3 - 1.5 and 1.5 - 18.1.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, mcw, voice.

POWER OUTPUT: Cw: 125 w.
Mcw: 35 w.
Voice: 30 w.

POWER REQUIREMENTS: TDE, TDE-2: 1.2 kw, 115/230 v dc; or 1.2 kw, 220 /440 v, 60 cyc, 3 phase, ac. TDE-1, TDE-3: 1.2 kw, 115 /220 v, dc; or 1.2 kw, 115 /230 v, 60 cyc, 1 phase, ac; or 1.2 kw, 208 - 220 / 440 v, 60 cyc, 3 phase, ac.

PHYSICAL CHARACTERISTICS

Radio Transmitting Equipments TDE, TDE-1 through 3 measure 62-7/16 x 28-1/4 x 20-1/2 inches, net weight 829 to 866 pounds, volume 20 cu ft, 0.5 ship ton. Packed for domestic shipment: total weight 1,165 pounds, total volume 46.71 cu ft, 1.2 ship tons.