

STATUS: Limited Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Navy

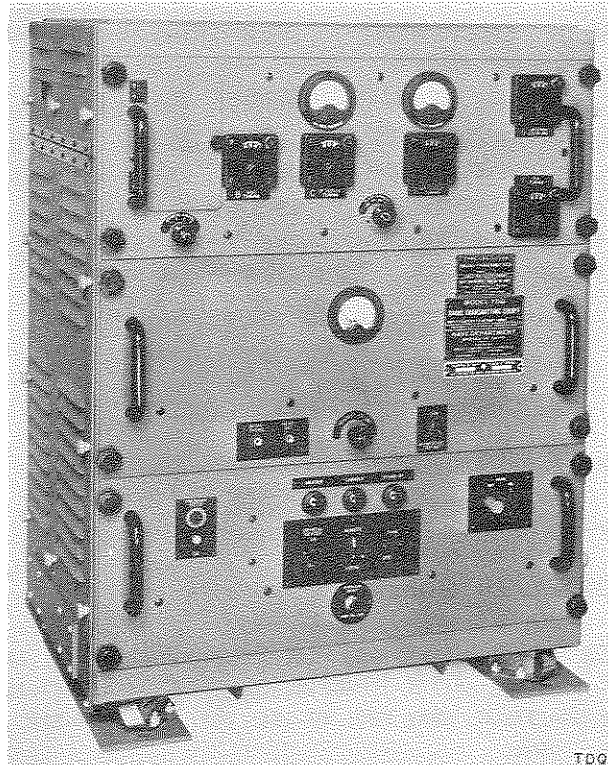
DATE OF THIS SHEET: 29 May 52

AN/URT-TYPE

SERVICE TYPE NUMBER:

TDQ and TDQ-a

VHF RADIO TRANSMITTING EQUIPMENT



VHF Radio Transmitting Equipments TDQ and TDQ-a are essentially low-power, general purpose, a-m (mcw, voice) radio transmitters for ship-to-shore, ground-to-air, ship-to-air, or point-to-point communication. They can be operated locally, or at a remote site by the standard four- or six-wire remote control system. Keying speeds up to 40 words per minute are possible.

This transmitter consists of an r-f unit, a modulator, and a power unit. These are supported on metal tracks within a single cabinet, and each may be withdrawn individually for ease of maintenance.

Navy Field Change No. 4 converts the TDQ to TDQ-a, to extend the a-f response, and to permit operation in conjunction with Navy Type Portable Carrier Control System UF, and Army Type CF-1-A Telephone Terminal equipment.

It operates on 115/230-v, a-c power. A step-down transformer permits operation from 440-v, ac.

It can also be operated on 115/230-v dc by using the proper motor generator and magnetic controller.

AN/URT-TYPE		INSTRUCTION LITERATURE: NavShips 900,474
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter CRV-52328	32-1/4 x 25-1/4 x 18-3/8	283
1	Motor Generator Unit CG-211092*	11-3/4 x 27-3/8 x 13-3/8	210
1	Motor Generator Unit CG-211093**	11-3/4 x 27-3/8 x 13-3/8	210
1	Line Transformer CRV-30984	13-3/4 x 11 x 9	57
1	Antenna Assembly CLB-66095	24-1/4 x 46-1/2 x 4-3/4	17

*For 115 v d-c power source. **For 230 v d-c power source.

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shipboard or shore stations.

INSTALLATION: Shipborne, ground.

APPROXIMATE RANGE (IN MILES): Short.

CAN COMMUNICATE WITH: AN/ARC-1, -3, -5, -18, -28, -36; AN/CRC-2; AN/FRC-7; AN/GRC-30;
AN/MRC-20, -22; AN/PRC-17, -20; AN/TRC-7; AN/TRQ-1; AN/URC-4; AN/URR-12, -21; AN/VRC-1;
BC-639, -787; MAR; MBS; R-137/GR; RBK; RBO; RC-256; RCK; RCO; SCR-522, -542, -574, -575,
-607, -616, -624, -641, -644.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 115 - 156.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Mcw, voice.

POWER OUTPUT: 15 w.

POWER REQUIREMENTS: 115/230/440 v, 50/60 cyc, 1 phase, ac; or 115/230 v, dc.

PHYSICAL CHARACTERISTICS

VHF Radio Transmitting Equipments TDQ and TDQ-a measure 32-1/4 x 25-1/4 x 18-3/8 inches.