

STATUS: Standard

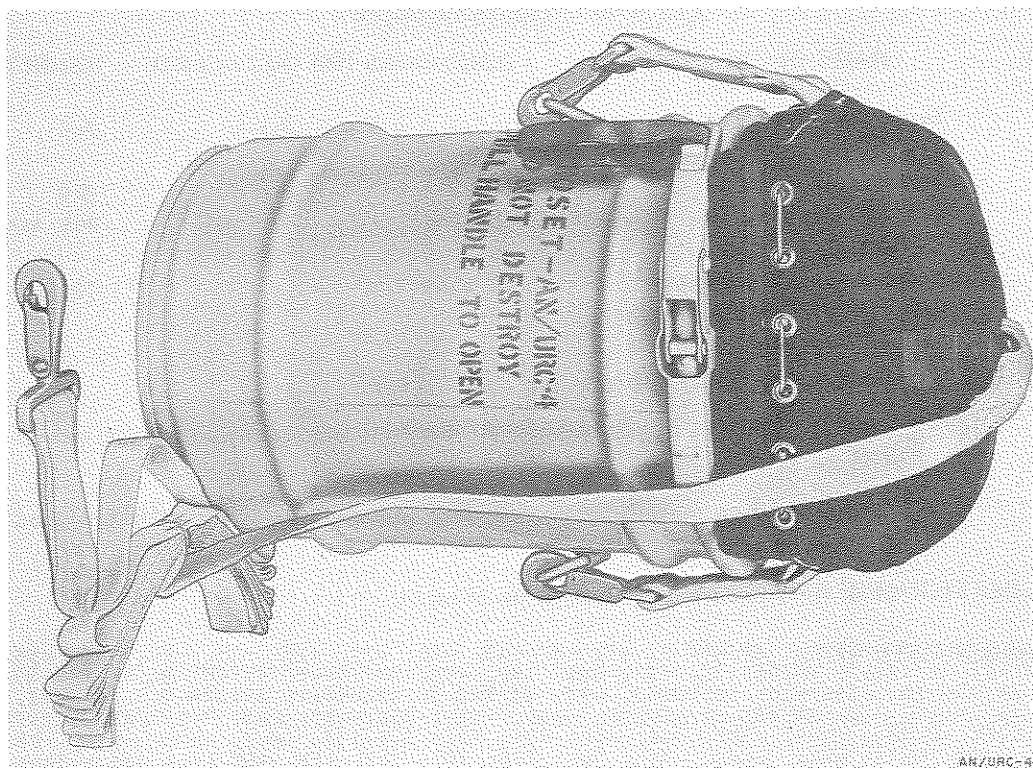
CLASSIFICATION OF EQUIPMENT: Restricted

USING SERVICE: Air Force

DATE OF THIS SHEET: 12 May 52

AN/URC-4

RADIO SET



Radio Set AN/URC-4 is used under emergency rescue conditions for air-to-ground, and point-to-point communication. It is dropped from aircraft in a water tight container which will float on the surface of the water and is capable of communicating by voice, keyed tone, and continuous tone modulation.

The transmitter is crystal-controlled, and depending upon crystal in use, will operate on any preset frequency within the v-h-f band of 120 to 130 mc, or the u-h-f band of 240 to 260 mc.

The radio set consists of two small components: a battery power supply and a transmitter and receiver.

The antenna is located in the top of the radio set and can be quickly extended.

The receiver uses a super-regenerative circuit for minimum size and power consumption.

The equipment may be operated while in motion and will operate continuously for 24 hours in cycles of five minutes of transmitting, and five minutes of receiving.

The equipment can also be used for emergency airdrome traffic control.

AN/URC-4	INSTRUCTION LITERATURE: TO 16-30URC4-2
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Receiver-Transmitter RT-159/URC-4	3-3/4 x 6-3/4 x 2-1/4	3.0
1	Battery BA-1264/U	3-3/8 x 6-1/4 x 2-1/4	3.0
1	Special Purpose Cable Assembly CX-1093/U	66 long	Not Available
1	Droppable Kit consisting of Parachute, Cargo Container, Aerial Delivery	22 x 13	20.0

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Used by survivors at sea to communicate with sea rescue aircraft or marine rescue craft.

INSTALLATION: Parachuted from aircraft for rescue work and operated in specially designed vest by survivor.

APPROXIMATE RANGE (IN MILES): (Nominal) Line of sight.

CAN COMMUNICATE WITH: AN/ARC-1, -3, -5, -12, -18, -19, -27, -28, -30, -33, -34, -36; AN/CRC-2; AN/FRC-7; AN/GRC-16, -27, -29, -30, -32; AN/GRR-7; AN/GRT-3; AN/MRC-12, -20, -22; AN/PRC-14, -17, -20; AN/TRC-7, -32; AN/TRQ-1; AN/URC-4; AN/URR-9, -10, -12, -13, -21; AN/URT-7, -10; AN/VRC-1; BC-639, -640, -787; MAR; MAY; MBS; R-137/GR, -278/GR; RBK; RBO; RC-103, -256, -257; RCK; RCO; RDR; RDZ; SCR-522, -542, -573, -574, -575, -607, -616, -624, -641, -643, -644; TDG; TOQ; TDT; TDZ; TED; ARC Type 12; Wilcox 99A.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: One crystal-controlled preset frequency in the range of 120 — 130 or harmonic operation on 240 — 260.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice, tone or mcw.

POWER OUTPUT: Receiver: 75 mw.
Transmitter: 35mw.

POWER REQUIREMENTS: 125 v, 45 ma plate supply, dc, 125 v, 520 ma filament supply, dc.
Battery life 24 hours when operated in cyc of 5 minutes transmitting and 5 minutes receiving. Batteries are contained in one unit.

PHYSICAL CHARACTERISTICS

Radio Set AN/URC-4 weighs 26.6 pounds net, volume 1.7 cu ft. Packed for either domestic or export shipment: total weight 29.3 pounds, total volume 1.9 cu ft. Shipped in 1 package both domestic and export.