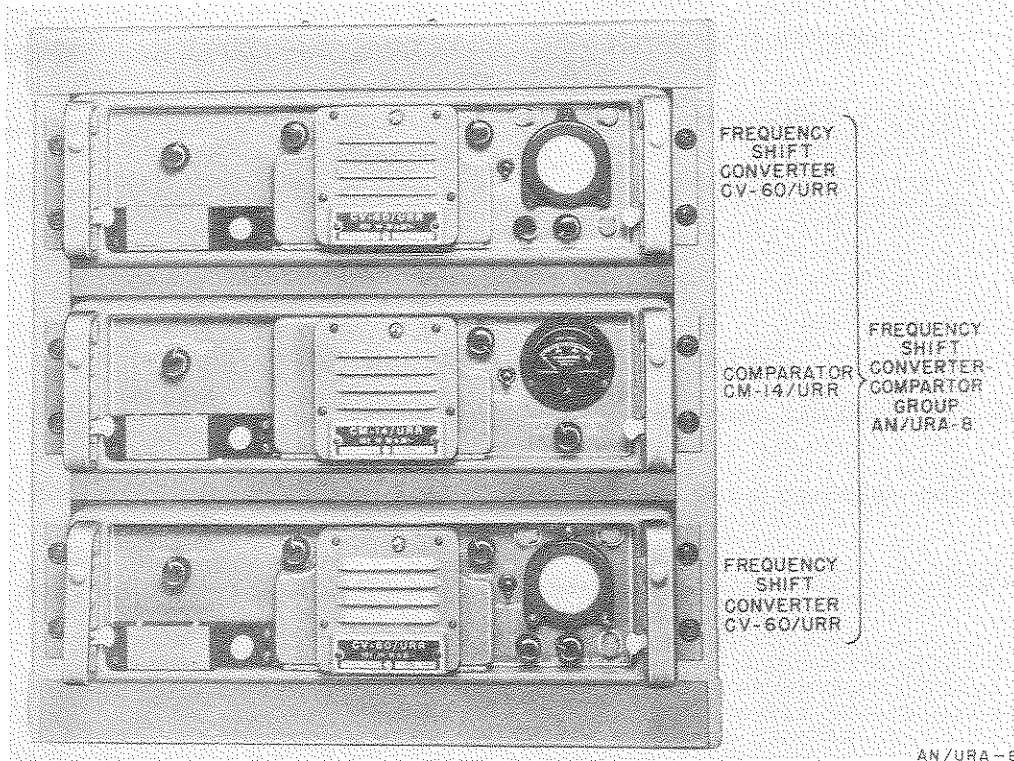


STATUS: Standard
 CLASSIFICATION OF EQUIPMENT: Restricted
 USING SERVICE: Navy
 DATE OF THIS SHEET: 9 May 52

AN/URA-8

FREQUENCY SHIFT CONVERTER-COMPARATOR GROUP



AN/URA-8

Frequency Shift Converter-Comparator Groups AN/URA-8 and AN/URA-8A are designed to operate on frequency-shift-keyed radiotelegraph signals (derived from the a-f outputs of radio receivers) to provide appropriate signals for keying, teletypewriters, or other similar automatic recording devices.

Two receiving channels are used in a diversity arrangement but the frequency-shift converters may be used separately for single receiver reception.

Keying speeds up to 60 wpm for a single telegraph channel (or 100 wpm when used with external apparatus) are possible for the reception of four-channel, multiplex, telegraph signals, diversity, or single-unit operation.

This equipment is designed primarily to operate in conjunction with Radio Receiving Equipments of the RBA, RBB, or RBC series or with other receivers having adequate stability, suitable frequency range, and beat-frequency oscillator circuits.

Although designed for table type rack mounting, the units of either equipment may be mounted separately on shock mounts or may be adapted for installation in standard (floor type) relay racks.

AN/URA-8	INSTRUCTION LITERATURE: NavShips 91278, 91339
	CLASSIFICATION OF EQUIPMENT: Restricted
	USING SERVICE : Navy
FREQUENCY SHIFT CONVERTER-COMPARATOR GROUP	DATE OF THIS SHEET : 9 May 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN)	INSTALL ED	WEIGHT (LBS)
2	Frequency Shift Converter CV-60/URR or CV-89/URA-8A	5-1/8 x 19 x 15-1/4 5-1/4 x 17 x 17		Not Available 47
1	Comparator CM-14/URR or CM-22/URA-8A	5-1/8 x 19 x 15-1/4 5 x 17 x 17		Not Available 36

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shipboard, shore stations.

INSTALLATION: Shipborne, ground.

CAN COMMUNICATE WITH: This is signal modifying equipment operated in conjunction with primary communication apparatus.

TECHNICAL CHARACTERISTICS

FREQUENCY: Audio; with center frequency of either 1000 cps or 2550 cps.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Frequency-shift keying.

POWER OUTPUT: Electron tube keying of 60 ma teletypewriter loop.
Tone: 12 mw into 600-ohm load.

POWER REQUIREMENTS: 155 or 220 w, 105 — 125 v, 50/60 cyc, 1 phase ac.

PHYSICAL CHARACTERISTICS

Information on Frequency Shift Converter-Comparator Group AN/URA-8 or AN/URA-8A not available.