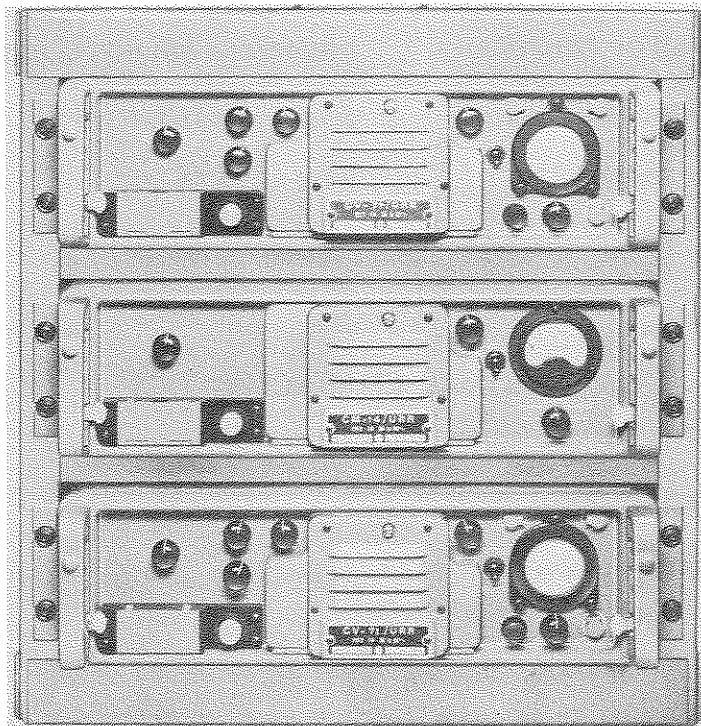


STATUS: Standard
CLASSIFICATION OF EQUIPMENT: Restricted
USING SERVICE: Navy
DATE OF THIS SHEET: 29 May 52

AN/URA-12

FREQUENCY SHIFT CONVERTER-COMPARATOR GROUP



AN/URA-12

Frequency Shift Converter-Comparator Group AN/URA-12 converts frequency-shift-keyed radio-telegraph signals (derived from the i-f circuits of radio receivers) into appropriate signals for the operation of teletypewriters or other similar automatic recording devices. Two radio receivers are used in a diversity arrangement; the comparator selects the stronger signal to control the teletypewriter loop and the keyed tone.

This equipment is used in conjunction with two radio receivers and a standard or a high speed teletypewriter with loop power supply. Any communications receiver with the correct intermediate frequency and good stability may be used with this equipment.

Keying speeds are possible up to 100 dot cps, corresponding to four-channel multiplex (100 wpm each channel).

It is installed in a single cabinet for table mounting, but may be removed for installation in a standard relay rack.

AN/URA-12

INSTRUCTION LITERATURE: Not Available

CLASSIFICATION OF EQUIPMENT: Restricted

USING SERVICE : Navy

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FREQUENCY SHIFT CONVERTER-COMPARATOR GROUP

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
2	Frequency Shift Converter CV-227/URR	5-1/8 x 19 x 15-1/4	Not Available
1	Comparator CM-42/URR	5-1/8 x 19 x 15-1/4	" "

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shipboard, shore stations.

INSTALLATION: Shipborne, ground.

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

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 0.19 — 0.21.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Frequency-shift.

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

POWER REQUIREMENTS: 240 w, 105-115-125 v, 50/60 cyc, 1 phase, ac.

PHYSICAL CHARACTERISTICS

Frequency Shift Converter-Comparator Group AN/URA-12 measures 22 x 20-1/4 x 14-1/2 inches.