STATUS: Limited Standard

CLASSIFICATION OF EQUIPMENT . Unclassified

USING SERVICE: Navy

DATE OF THIS SHEET: 9 May 52

AN/UGA-TYPE

SERVICE TYPE NUMBER:

FRA

FREQUENCY SHIFT RECEIVER CONVERTER EQUIPMENT



Frequency Shift Receiver Converter Equipment FRA is a single channel, i-f type set for translating radiotelegraph characters and furnishing d-c mark-and-space pulses for operation of a teletypewriter when used in conjunction with Radio Receiving Equipments RBB and RBC.

By means of Panoramic Coupling Kit 10563, signal voltage is coupled from the last i-f tube of the receiver equipment. It is used with associated receiver equipment to provide ship-to-shore and point-to-point radiotelegraph or radioteletype reception.

This converter unit is designed to operate on any magnitude of shifts from 100 $^+$ 50 cyc to 1,000 $^+$ 500 cyc. The mark-and-space carrier frequency most commonly received is, respectively, 425 cps above and 425 cps below the assigned frequency of the transmitter.

A mark-return circuit is embodied in the unit to prevent the output from remaining on space for a period longer than 200 milliseconds.

The equipment is designed for polar or neutral operation of the teletypewriter.

:SERVICE TYPE NUMBER

FRA FREQUENCY SHIFT RECEIVER CONVERTER EQUIPMENT DATE OF THIS SHEET: 9 May 52

INSTRUCTION LITERATURE: NavShips 900,613 CLASSIFICATION OF EQUIPMENT: Unclassified USING SERVICE : Navy

MAJOR COMPONENTS

QUANT

NAME OF COMPONENT

DIMENSIONS (IN) INSTALLED

WEIGHT (LBS)

Frequency Shift Receiver Converter

11-3/4 x 19-3/4 x 18-1/4

98

CRV-35122

Panoramic Coupling Kit, CN-10563

4 x 3 x 2

Not Available

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: 0.4.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Frequency-shift keying.

POWER OUTPUT: 60 ma dc for neutral or 25 ma dc for polar; into load impedance of 130 to 1,800 chms.

POWER REQUIREMENTS: 135 w, 110 - 120 v, 60 cyc, 1 phase ac.

PHYSICAL CHARACTERISTICS

Frequency Shift Receiver Converter Equipment FRA measures 11-3/4 x 19-3/4 x 18-1/4 inches, net weight 175 pounds, volume 2.44 cu ft. Packed for domestic shipment: total weight 335 pounds.

CONFIDENTIAL—Security Information

ORIGINAL