

21 October 1966

MORSE CODE TO TELEPRINTER CONVERTER CDR-670

Cog Service: USN FSN:

Functional Class:

USA

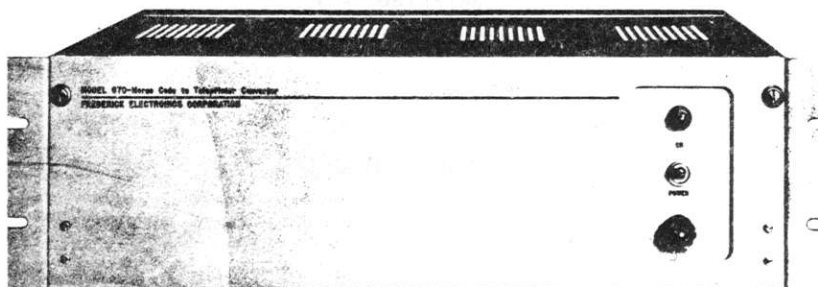
USN

USAF

TYPE CLASS:

Used by

MANUFACTURER'S NAME/CODE NUMBER: Frederick Electronics Corporation, (15230).



MORSE CODE TO TELEPRINTER CONVERTER CDCR-670

FUNCTIONAL DESCRIPTION:

The Morse Code to Teleprinter Converter CDCR-670 is designed and developed to provide direct conversion of International Morse Code signals to standard 5 level or Baudot teleprinter code. The Morse signal supplied as an input to the CDCR-670 may vary widely in element length or speed depending on its origin. It may be machine generated or hand-keyed by an operator. This wide latitude of input signal characteristics poses a complex problem to the converter, since the device may be required to copy stations of considerably different word per minute rates, in unpredictable order, or even track the "fist" of human operators' whose style and technique are highly individualized. To solve this problem, the CDCR-670 continuously computes the input rate and automatically adjusts itself to variations that may occur.

No field changes in effect at time of preparation (5 August 1966).

RELATION TO OTHER EQUIPMENT: None.

EQUIPMENT REQUIRED BUT NOT SUPPLIED: None.

TECHNICAL CHARACTERISTICS:

INPUT SIGNAL: International Morse Code.
 INPUT RATE: 10 to 50 words per minute.
 ALLOWABLE-INPUT SPEED VARIATIONS: The Model-670 will compensate for instantaneous variation of input rate of approximately 30% of the average rate
 INPUT CIRCUIT: All electronic and isolated. Will accept standard 60 ma neutral telegraph loop. Other input configurations available on special order.
 INPUT IMPEDANCE: Less than 100 ohms.
 CONVERSION FORMAT: Normally supplied to convert International Morse to five level code conforming to CCIT-2 keyboard. Other conversions could be supplied on special order.
 OUTPUT SIGNAL: 5 level, start-stop, teleprinter code 7.0 units or longer in length.
 OUTPUT CIRCUIT: All electronic, suitable for driving standard 60 ma neutral telegraph loop. Other configurations could be supplied on special order.
 OUTPUT RATE: 45.45, 50.0, 56.9 or 74.2 baud, as selected by strap connection or rear panel terminal strip.
 POWER REQUIREMENTS: 100 to 130 v ac, 47 to 63 cycles, 15 W.
 PHYSICAL CONSTRUCTION: All solid state, modular construction. Mounts in 5-1/4 inch of 19 inch rack space..

MAJOR COMPONENTS

QTY	ITEM	DIMENSIONS (INCHES)	WEIGHT (LBS)
1	Morse Code To Teleprinter Converter, CDCR-670		

REFERENCE DATA AND LITERATURE:

Frederick Electronics Corporation: Technical Description for Morse Code To Teleprinter Converter Model-670.

SHIPPING DATA

PKGS	VOLUME (CU FT)	WEIGHT (LBS)

PROCUREMENT DATA

PROCURING SERVICE: USN
 SPEC &/OR DWG:

DESIGN COG: USN, NavShips

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MORSE CODE TO TELEPRINTER CONVERTER CDCR-670

CONTRACTOR	LOCATION	CONTRACT OR ORDER NO.	APPROX. UNIT COST
Frederick Electronics Corp.	Frederick, Maryland	N600(63133)64427	