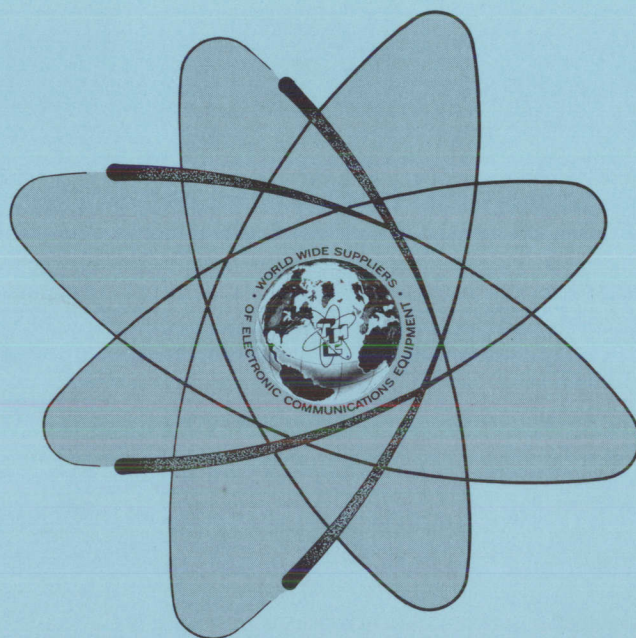


PRELIMINARY  
TECHNICAL MANUAL  
for  
AUTOMATED HIGH FREQUENCY TRANSMITTER  
MODEL HFTA-1KJ2(3P)



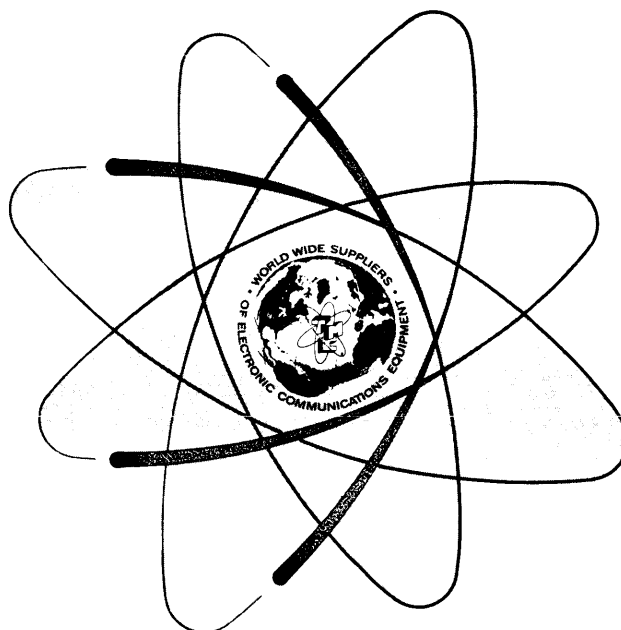
THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK, N.Y.

OTTAWA, ONTARIO

COPYRIGHT 1971  
THE TECHNICAL MATERIEL CORPORATION

Printed in U.S.A.

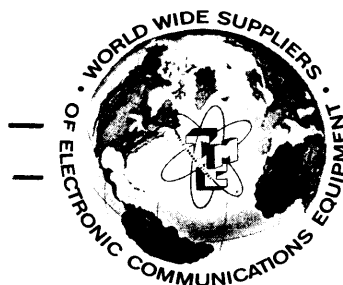
PRELIMINARY  
TECHNICAL MANUAL  
for  
AUTOMATED HIGH FREQUENCY TRANSMITTER  
MODEL HFTA-1KJ2(3P)



THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK, N.Y. OTTAWA, ONTARIO

NOTICE

THE CONTENTS AND INFORMATION CONTAINED  
IN THIS INSTRUCTION MANUAL IS PROPRIETARY  
TO THE TECHNICAL MATERIEL CORPORATION  
TO BE USED AS A GUIDE TO THE OPERATION  
AND MAINTENANCE OF THE EQUIPMENT FOR  
WHICH THE MANUAL IS ISSUED AND MAY NOT  
BE DUPLICATED EITHER IN WHOLE OR IN  
PART BY ANY MEANS WHATSOEVER WITHOUT  
THE WRITTEN CONSENT OF THE TECHNICAL  
MATERIEL CORPORATION.



# THE TECHNICAL MATERIEL CORPORATION

C O M M U N I C A T I O N S   E N G I N E E R S

700 FENIMORE ROAD

MAMARONECK, N. Y.

## W a r r a n t y

The Technical Materiel Corporation, hereinafter referred to as TMC, warrants the equipment (except electron tubes,\*fuses, lamps, batteries and articles made of glass or other fragile or other expendable materials) purchased hereunder to be free from defect in materials and workmanship under normal use and service, when used for the purposes for which the same is designed, for a period of one year from the date of delivery F.O.B. factory. TMC further warrants that the equipment will perform in a manner equal to or better than published technical specifications as amended by any additions or corrections thereto accompanying the formal equipment offer.

TMC will replace or repair any such defective items, F.O.B. factory, which may fail within the stated warranty period, PROVIDED:

1. That any claim of defect under this warranty is made within sixty (60) days after discovery thereof and that inspection by TMC, if required, indicates the validity of such claim to TMC's satisfaction.
2. That the defect is not the result of damage incurred in shipment from or to the factory.
3. That the equipment has not been altered in any way either as to design or use whether by replacement parts not supplied or approved by TMC, or otherwise.
4. That any equipment or accessories furnished but not manufactured by TMC, or not of TMC design shall be subject only to such adjustments as TMC may obtain from the supplier thereof.

Electron tubes\*furnished by TMC, but manufactured by others, bear only the warranty given by such other manufacturers. Electron tube warranty claims should be made directly to the manufacturer of such tubes.

TMC's obligation under this warranty is limited to the repair or replacement of defective parts with the exceptions noted above.

At TMC's option any defective part or equipment which fails within the warranty period shall be returned to TMC's factory for inspection, properly packed with shipping charges prepaid. No parts or equipment shall be returned to TMC, unless a return authorization is issued by TMC.

No warranties, express or implied, other than those specifically set forth herein shall be applicable to any equipment manufactured or furnished by TMC and the foregoing warranty shall constitute the Buyers sole right and remedy. In no event does TMC assume any liability for consequential damages, or for loss, damage or expense directly or indirectly arising from the use of TMC Products, or any inability to use them either separately or in combination with other equipment or materials or from any other cause.

\*Electron tubes also include semi-conductor devices.

### *PROCEDURE FOR RETURN OF MATERIAL OR EQUIPMENT*

Should it be necessary to return equipment or material for repair or replacement, whether within warranty or otherwise, a return authorization must be obtained from TMC prior to shipment. The request for return authorization should include the following information:

1. Model Number of Equipment.
2. Serial Number of Equipment.
3. TMC Part Number.
4. Nature of defect or cause of failure.
5. The contract or purchase order under which equipment was delivered.

### *PROCEDURE FOR ORDERING REPLACEMENT PARTS*

When ordering replacement parts, the following information must be included in the order as applicable:

1. Quantity Required.
2. TMC Part Number.
3. Equipment in which used by TMC or Military Model Number.
4. Brief Description of the Item.
5. The *Crystal Frequency* if the order includes crystals.

### *PROCEDURE IN THE EVENT OF DAMAGE INCURRED IN SHIPMENT*

TMC's Warranty specifically excludes damage incurred in shipment to or from the factory. In the event equipment is received in damaged condition, the carrier should be notified immediately. Claims for such damage should be filed with the carrier involved and not with TMC.

All correspondence pertaining to Warranty Claims, return, repair, or replacement and all material or equipment returned for repair or replacement, within Warranty or otherwise, should be addressed as follows:

THE TECHNICAL MATERIEL CORPORATION  
Engineering Services Department  
700 Fenimore Road  
Mamaroneck, New York

AUTOMATED HIGH FREQUENCY TRANSMITTER  
Model HFTA-1KJ2 (3P)

A-1. Introduction

The HFTA-1KJ2(3P) automated High Frequency Transmitter is similar to the HFTA-1KJ2. The technical manual for the HFTA-1KJ2 will apply to the HFTA-1KJ2(3P), with the additions, deletions and corrections outlined in this addendum have been incorporated.

A general description of the modifications requiring the model number change, from HFTA-1KJ2 to HFTA-1KJ2(3P), is provided in paragraph A-2. Additionally, the effect of the modifications on particular sections of the technical manual is discussed in paragraph A-3.

A-2. Discussion of Equipment Modifications

The HFTA-1KJ2(3P) transmitter is a modified version of the HFTA-1KJ2 transmitter, designed to allow operation from a three phase primary power source of 230 vac. In the HFTA-1KJ2(3P), the linear amplifier HFLA-1K(3P) portion of the transmitter contains a high voltage power supply AP154, which is capable of operation from a three phase primary power source of 230 vac.

A-3. Technical Manual Corrections

The following nomenclature references in the HFTA-1KJ2 technical manual should be changed accordingly:

- (1) HFTA-1KJ2 to HFTA-1KJ2(3P)
- (2) HFLA-1K to HFLA-1K(3P)
- (3) AP152 to AP154

In section 1 of the HFTA-1KJ2 technical manual, the primary power specification in Table 1-2 should be changed from "115 vac single phase" to "230 vac three phase."

In section 2 of the HFTA-1KJ2 technical manual, change paragraph 2-2. Power Requirements to read: The HFTA-1KJ2(3P) requires a three phase source of 230 vac, 50/60 hz at approximately 3.75 kilowatts.