

GENERAL PURPOSE FREQUENCY-SHIFT TRANSMITTER, 1000 WATTS

GPT-750C2



Designed for the teletype or facsimile transmitting station, the Model GPT-750C2 Transmitter operates at 1000 watts average power in the CW (A1), FSK (F1), and FAX (F4) modes. Frequency stable to one part in 10^6 per day operating in any environment between 0 and $+50^{\circ}\text{C}$, up to 95% relative humidity, the transmitter is capable of continuous coverage in the 2 to 30 MHz range. Shifts from linear to 1000 Hz at keying speeds of 750 baud (1000 WPM) are standard features as is complete front panel control of all operations.

The main drive is a TMC Model XFK-2 exciter located in the center deck. Three crystal positions are provided for internal oscillators. A fourth position transfers the RF source input to an external master oscillator built in to the top deck. The lower deck contains overload and main power breakers in addition to all power supply components. Interlocks kick the main power off when the decks are pulled open on individual track slides. The operator is then protected from high voltage while working on the transmitter. Both shocks and a 3-inch raised base are available as mounts for the 39-inch rack. Complete installation can be accomplished within a few minutes.

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THE TECHNICAL MATERIEL CORPORATION

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TECHNICAL SPECIFICATIONS

FREQUENCY INFORMATION

Range

2 to 30 MHz

Stability

+/- 10 Hz for a 15^o change in ambient, 0 to +50^oC range.

Control

Three temperature-controlled crystals
External VFO input

OPERATING PARAMETERS

Modes

CW(A1); FSK(F1); FAX(F4)

Power Output

1000 Watts Average

Output Impedance

50 ohms nominal, unbalanced

Tuning

All tuning and bandswitching from the front panel.

Metering

All critical circuits and output readings are metered on the front panel.

Master Oscillator By-Pass

Bypass switch permits continued operation of master oscillator oven elements while balance of transmitter is in power OFF condition.

Safety Features

Overload relays protect against abnormal operating levels of the final and safety interlocks protect personnel.

Mounting

Shock mounts for various applications are available on request.

KEYING INFORMATION

Shift

Linear to 1000 Hz

Sources

Polar or neutral positive
Linear input; 30K-ohms

Speed

750 baud (1000 WPM)

Impedance

Polar or neutral operation into 100K ohms may be bridged by an external 1800-ohm loop resistance.

Bias

Not greater than 10% at 750 baud.

ENVIRONMENTAL AND INSTALLATION

Operating Conditions

0 to +50^oC; up to 95% relative humidity.

Heat Dissipation

Approximately 2000 watts

Cooling

High capacity, filtered forced air.

Primary Power

115/230 VAC, 50/60 Hz, single phase

Size and Weight

56" high X 39" wide X 31" deep
Approximately 1405 lbs.

Loose Items

Mating RF connectors
All interconnect cables
Base-mounted equipment rack.
Two copies of Instruction Manual

OPTIONAL ACCESSORIES

Model ATS-2A Antenna Tuning System
Manual tuning into a 35-foot vertical
Technical Bulletin 2053-1

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