

GENERAL PURPOSE CW/MCW TRANSMITTER, 1000 WATTS

GPT-750A2



Small stations that operate in the high frequency range in the CW (A2) mode make best use of the Model GPT-750A2 General Purpose Transmitter. Compact in design and simple to operate, this transmitter features front panel metering of all critical circuits as well as control of all normal operations. Tuning to one of three pre-set frequencies or to any frequency in the 2 to 30 MHz range is accomplished with built-in temperature-controlled oscillators located in the top deck. The power supply deck contains the main power and overload breakers. A utility outlet is provided for external accessories.

Each deck is mounted on track slides and pulls out for front access to all assemblies in the transmitter. When open, the decks mechanically release interlocks which kick the main power breaker off and protect the operator from high voltage while working on the transmitter. Although the deck panels provide a partial seal, internal components are further protected with a special coating. This is particularly important when operating in humid environments. Filtered, forced air cools the transmitter and prevents excessive accumulation of dust. Vibration from external sources is minimized when optional shock mounts are used in place of a 3-inch raised base. Installation is normally completed in a matter of minutes by even the most inexperienced personnel.

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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 15°C change in ambient, 0 to +50°C range.

Control

Two temperature controlled crystals
One "free air" crystal

OPERATING PARAMETERS

Modes

CW(A1 MCW on special order

Power Output

1000 Watts Average

Output Impedance

50 ohms nominal unbalanced

Tuning

All tuning and bandswitching from the front panel Manual control.

Metering

All critical circuits and output readings are monitored.

Master Oscillator By-Pass

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

Safety Features

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

ENVIRONMENTAL AND INSTALLATION

Operating Conditions

0 to +50°C, 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 1190 lbs.

Loose Items

Mating RF connectors
All interconnect cables
39-inch 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

Model SWR 1K Indicator
Provides forward/reflected RF metering
Technical Bulletin 6030-1

Model TER-3.5K Antenna Terminator
Off-line tuning of the transmitter
Technical Bulletin 2051-2



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