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FPM-300 SSB/CW 80-10M AMATEUR TRANSCEIVER.



You should be talking with a Hallicrafters.



design with low internal noise ... strong, clean signals with exceptionally low, in-band spurious...easy-to-use frequency readout...ac-curate tuning across all bands with high sta-bility and sensitivity...great mechanical integrity with quality workmanship...many built-in and optional features for added enjoyment...hinged cover for easy access to circuits...unusual single conversion circuitry with bi-directional mixers and amplifiers... low intermodulation distortion on both transmitter and receiver...no more damaged P.A. tubes on tune up with "Tune" position on function switch...adjustable PI networks for precise antenna loading...built-in 100/25 kHz crystal calibrator to help locate band edges on the new sub-bands...AALC and true audio compression amplifier circuits built-in...CW sidetone and semi-automatic break-in...all glass epoxy printed circuit boards used throughout...recognized world famous component brand name identification and complete service backup to ama-

Now, consider the specifications and ad-

ditional features of this all-new FPM-300 SSB/CW transceiver designed and manufactured in the States by Hallicrafters for the popular priced class of Amateur equipment.

FPM-300 SSB/CW 80-10 METER TRANSCEIVER QUALITY PERFORMANCE SPECIFICATIONS

- General:
 Model Number: FPM-300
 Dimensions: (HWD) 5½ x 12 x 11 inches
- Weight: 25 pounds Shipping Weight: 27 pounds
- Tuning Ranges: 8-600 kHz Bands
 Cabinet: Painted steel with hinged cover assembly for easy access to circuits; built-in speaker
- Power Requirements: 117 V or 234 V 50/60 AC;
 13.4 VDC Negative Ground
 Modes: Selectable Upper or Lower Sideband —
- CW or RTTY
- Type of Service: Continuous operation with 2-tone
- SSB-CW-RTTY (50% duty cycle)

 Plate Input: 250 Watts P.E.P. on SSB; 180 Watts on CW; 90 Watts RTTY*
 - Power Output: 125 Watts P.E.P. (Nominal) into 50 ohms

FREQUENCY COVERAGE: 80 meters 3.450 MHz - 4.050 MHz 40 meters 6.950 MHz - 7.550 MHz 20 meters 13.950 MHz - 14.550 MHz 15 meters 20.950 MHz - 21.550 MHz

15 meters 20.950 MHz - 21.550 MHz 10 meters 27.950 MHz - 28.550 MHz 28.450 MHz - 29.050 MHz 28.950 MHz - 29.550 MHz 29.450 MHz - 30.050 MHz

- Output Impedance: Nominal 50 ohms variable for matching up to 2:1 SWR
- Antenna Matching: 50-75 ohms
- Anterma Matching: 50-75 onns adjustable
 Receiver Sensitivity: Less than 1 MV for 15 db SN Ratio
 Selectivity: 2.0 kHz
 Receiver IM: 60 db below 2 equal 10 MV signals





(SPECIFICATIONS CONT.)

- · Receiver Image and IF Rejection: Greater than 60 db
- Internal Receiver Spurious: Less than equivalent 1 Microvolt Signal
- . Transmitter IM: 30 db below P.E.P. (26 db below one of two equal tones)
- Transmitter Spurious: 50 db minimum except harmonics -
- Adjacent Channel Desensitizing: 3 db with greater than 10,000 MV
- Sideband Suppression: -50 db minimum @ 1 kHz
- IF Rejection: 60 db minimum
 Maximum AF Power Output: 2 watts minimum
- Ambient Temperature Range: -20°C + 50°C
- Ambient Humidity Range: 0% 90%
- Frequency Stability: Within 100 Hz after warmup. Not more than 100 Hz change with 10% line voltage change
- Frequency Readout: Within 1 kHz ± 100 kHz of Cal Point. Not more than 3 kHz across entire 500 KC Band.
- Keying: Keyed Tone
 Break-In CW: Semi-Automatic
 CW Sidetone Provided
- · Audio Input: High Impedance
- VOX Sensitivity: 5 MV
- · Audio Frequency Response: 500-2500 Hz Nominal at 6 db (Crystal Filter Passband)
- AALC: 12 db Compression
- AGC Figure of Merit: 60 db minimum SOLID-STATE DEVICES:

(10) FET's; (18) Bi-Polar transistors; (3) IC's; (8) Hot Carrier Diodes; (3) Bridge Rectifiers; (20) Junction Diodes; (6) Zener Regulators

TUBES: (1) 12BY7 Driver (1) 6KD6 Power Amplifier

CRYSTAL CALIBRATOR:

Provides 25 kHz Calibration Signals

FRONT PANEL CONTROLS:

Main tuning; Receiver Audio; Mode (LSB/USB/Tune/CW); Function (Receive/Standby/PTT/VOX); MIC/CW Level; Preselector; Bandswitch; Receiver Gain and Power Off Control; PA Load and PA Tune; large, easy-to-read frequency readout display which can be interpolated to 1 kHz; plus "S" tune panel meter for signal strength and plate current metering.

OTHER TECHNICAL FEATURES OF THE FPM-300 INCLUDE:

SSB-Selectable USB/LSB; CW Level Control-Single Sideband (SSB) Operation; MOX-Manual (Push-to-Talk); VOX-Voice Control, CW Operation; MOX-Manual; VOX-Automatic Break In; Dial Calibration on one kHz increments; 600 KC tuning range; Calibration Accuracy is less than 3 kHz FPM-300 OPTIONAL ACCESSORIES:

MR-300 Mobile Installation Kit

- Ruggedized design for Universal Mounting with heavy-duty cables
- Net Weight: 2 pounds
- Shipping Weight: 3 pounds HA-60 BLOWER FAN KIT

- · Works on AC or 12 VDC, Fixed Station or Mobile Operation
- Quiet operation
- Complete Mounting and Interconnections provided by the transceiver
- Dimensions: (HWD) 31/8 x 31/8 x 15/8 inches
- Weight: 1 pound

Schematic and Block Diagram provided upon request. Specifications subject to change without notice. Copyright 1972 The Hallicrafters Co.



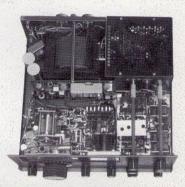
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The FPM-300 offers unusual flexibility for mobile installation and removal because of its flip-up hinged cover and chassis. Hinged design permits quick and easy access to internal adjustments without disassembly.



Top view of FPM-300 with cover removed showing modular construction, completely self-contained 117/234, 50/60 Hz AC and 12VDC power supply and solid state circuitry of transmitter and receiver sections.



Control Panel of FPM-300, done in handsome grey and black, consists of Main Tuning Control; Receiver Audio, Mode (LSB/USB/CW/Tune), Receiver Audio, Calibrator Adjust, PA Load, PA Tune, Mic/CW Level, Preselector, Function (Receive/Standby/PTT/VOX) plus Plate MA panel meter and large frequency readout display.



Rear panel input/output connections for accessories, antenna, key, ground, blower socket, fuseholder with fuse, power supply source.

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