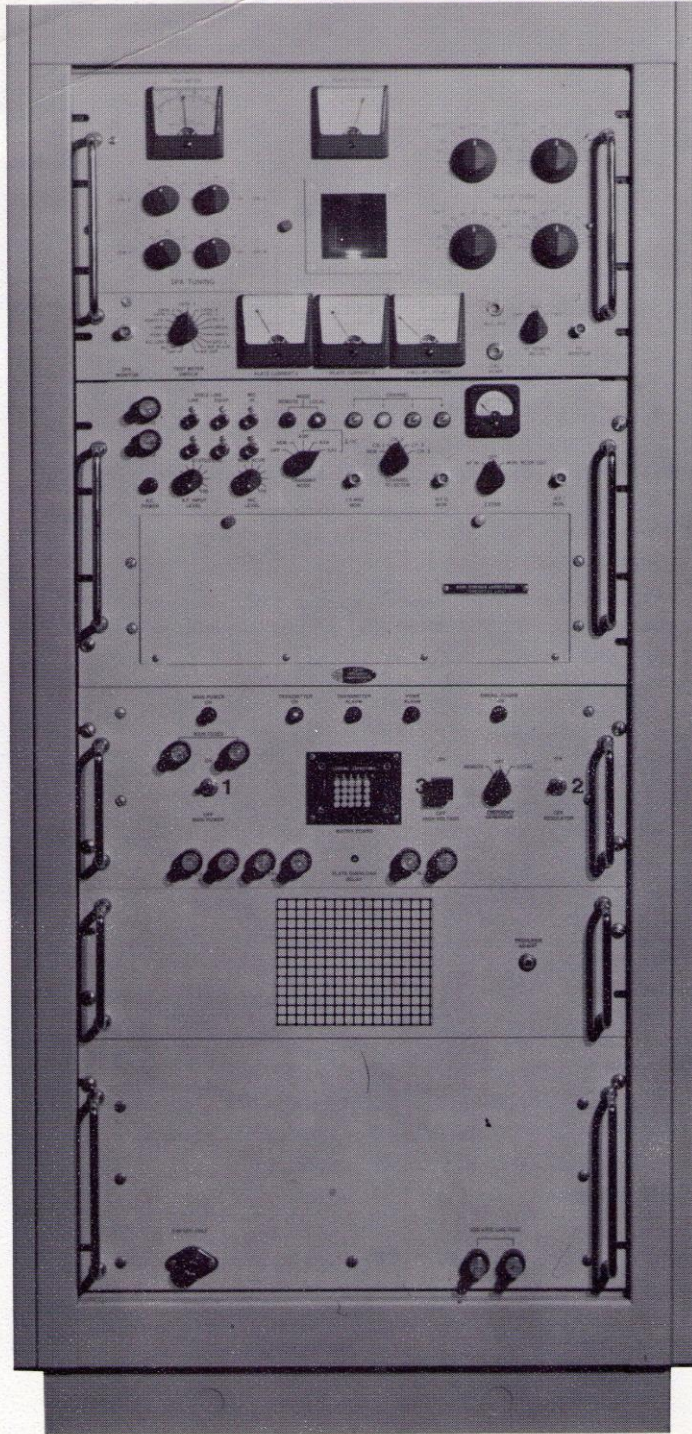


MULTI-MODE TRANSMITTERS



Models MMSS1-T and MMSS4-T

Features:

- Multi-mode operation allows transmitter to operate on various forms of SSB.
- Single channel or four channel pre-set operation.
- Conservative power rating, up to 800 watts under severe environmental conditions.
- Solid-state exciter plus reliable parallel tube amplifiers.
- Modular construction of exciter for ease of maintenance and flexible building block system.
- Many remote control features.
- Independent sideband operation and patented, low distortion, full modulation, Compatible Single-Sideband (CSSB) available as option.

Description:

These transmitters were developed specifically to be incorporated in the patented multi-mode automatic transmission system. They produce up to 800 watts PEP under severe environmental conditions. Model MMSS1-T is a single channel transmitter whereas model MMSS4-T incorporates four pre-set RF channels which allows remote selection of up to four different frequencies.

The transmitters utilize modern design techniques and incorporate a completely solid state exciter.

Both the IPA and the final power amplifier stages incorporate parallel tube design thus allowing continuous operation even after a single tube failure. A tube failure in either the IPA or final amplifier activates an alarm to alert maintenance personnel.

The equipment has the capability to be switched remotely to A3H, A3A or A3J operation.

Also available as optional equipment are means for operating in independent sideband or patented KRL CSSB modes.

The equipment is designed for unattended, remotely controlled operation and is designed for reliable service.

◆ MODEL MMSS4-T SHOWN



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Innovations in broadcasting and communications since 1952.

SPECIFICATIONS

Models MMSS1-T and MMSS4-T

Power Output	400/800 watts PEP.
Modulation Modes	A3A (reduced carrier), A3J (suppressed carrier), A3H (AME). [A3B (ISB) and patented CSSB available as option.]
Intermodulation Distortion	Better than 30 db relative to one tone of a two tone signal. (36 db relative to PEP.) Fifth and higher orders less.
Mismatch Sensitivity	Can withstand 3-to-1 standing wave ratio. (Over 3-to-1 ratio, alarm circuit and power reduction provided.)
Carrier Compression	Less than ± 1 db.
Carrier Suppression for A3J	Better than 50 db.
Harmonic Output	70 db from PEP.
Intended Operation	Full time continuous 24 hour service, severe environment.
Power Input	117/234 volts, 50 to 60 cycles, 3,000 watts. Wired at factory to customers requirement.
Remote Control	Commands: RF power on/off, channel selection, mode selection. Repeat backs: RF power on, excessive VSWR, chan- nel selected, mode selected.
Monitoring Facilities	Metering of important voltages and currents. Built- in receiver monitor available for both full carrier and reduced or suppressed carrier monitoring.
Size	61"H x 25"W x 29"D door closed.
Weight	Less than 500 pounds.

(Special model available for severe environmental operation.)

Kahn Research Laboratories, Inc. reserves the right to make changes in specifications which result in product improvement.

