

SINGLE CHANNEL SIDEBAND STRIP RECEIVER

STR-5



The Model STR-5 fixed-tuned receiver is a versatile unit capable of receiving CW, MCW, AM, AME, SSB and ISB transmissions in the 2 to 30 MHz frequency range. Through the use of unique semi-conductor circuits and individual fixed-tuned plug-in modules, these devices provide excellent sensitivity and image rejection characteristics in a minimum of space. With its low power drain and high reliability, the receiver is best suited for unattended operations at remote sites for monitoring selected frequencies.

Special interface equipment is available which permits automatic detection and switching between AM and sideband signals. This feature enables compatible operation for those stations working both AM and sideband traffic during this period of conversion.

Standard control units are available for the remoting of the clarifier, mode switching and audio functions. In addition, a loudspeaker monitor panel can be provided for up to four channels and is particularly useful with multiple-STR installations. These optional accessories enable complete control of receiver stations located at remote sites.

Revised 1 August 1971
Supersedes 3014A



THE TECHNICAL MATERIEL CORPORATION

AND SUBSIDIARIES

TECHNICAL SPECIFICATIONS

FREQUENCY INFORMATION

Range

2 to 32 MHz

Stability

+/- 10 Hz, 0 to +50°C
Optional: -30 to +50°C

Control

Crystal-controlled plug-in modules.

OPERATING PARAMETERS

Modes

CW(A1); MCW(A2H); AM(A3)
AME(A3H).
OPTIONAL:
USB(A3A,A3J)
USB; LSB; ISB(A3B)

Input Impedance

50 ohms nominal, unbalanced

Speech Clarifier

Front panel adjust for "fine tune"
of the HFO oscillator.
Remote Control available on request.

Sensitivity

SSB 1 uv input, 15db [S+N] /N
AM 1 uv input, 10db [S+N] /N

IF Selectivity

SSB 3 KHz, +/- 2db
AM 6 KHz, +/- 2db symmetrical

AGC Characteristics

Output will not vary more than 10db
for 100db change of input from 1 uv.

IF Frequency

1750 KHz.

Conversion Capability

Receiver can be changed to another
operating frequency by changing the
appropriate plug-in module at the
front panel.

AUDIO

Amplifier Response

250-7500 Hz.

Outputs

0 to +12dbm into 600-ohm balanced
output for each channel. Panel jacks.

CHARACTERISTICS

Hum Level

Min. 40db below full PEP output

Intermodulation

Min. 40db below either tone of a standard
two tone test with 100 uv. input signal.

Image Rejection

Min. 60db from 2 to 16 MHz.
Min. 50db from 16 to 32 MHz.

ENVIRONMENTAL AND INSTALLATION

Primary Power

115 VAC, 50/60 Hz, single phase
OPTIONAL: 104/125/208/230/250 VAC
OPTIONAL: 12 VDC operation.

Operating Conditions

-30 to +50°C; up to 90% relative humidity

Size and Weight

1 3/4" high X 19" wide X 15" deep
Approximately 15 lbs.

OPTIONAL ACCESSORIES

Model THRA-1 RF Module Storage Panel
Maintains ovens at operating temperature

Model CDN-3 Codan-Operated Anti-Noise Device
Used to detect AM or SSB signals

Model RCC-1 Receiver Remote Control Unit
Remote control of clarifier, mode, audio.

Printed in U.S.A.



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