TECHNICAL BULLETIN NUMBER 4005



Receiving Mode Selector TMC Model MSR-9 (CV 1758/URR)



- 455 kc input frequency
- Oven crystal control for extreme stability
- · Receiver operation simplified and improved
- Provides USB and LSB from standard receiver
- Manual bandspread control
- Compact design

The Technical Materiel Corporation's Model MSR-9, Receiving Mode Selector (CV 1758/-URR), will adapt any standard communications receiver operating with a 455 kc IF output signal to the reception of upper or lower sideband signals. Although the MSR-9 has been designed specifically for the detection of single sideband signals, the filter circuits incorporated within this unit will improve the reception of CW, MCW, AM and FSK signals, by providing sharp discrimination between a desired signal and undesired adjacent interference.

Either upper or lower sideband reception is selected by front panel control. Six kc bandspread tuning in the selected sideband permits rapid fine tuning of the received signal.

Oven control of the sideband crystals permits the use of this adapter for the reception of sideband signals with any degree of carrier suppression. Two MSR-9 units, both operating from the IF output of the same receiver, will provide complete reception of independent (separate information) sideband.

www.radiopharos.it

Receiving Mode Selector

TECHNICAL SPECIFICATIONS, TMC MODEL MSR-9

INUPT FREQUENCY 455 kc.

MODES OF RECEPTION SSB upper or lower, AM, CW, FSK, FAX.

INPUT VOLTAGE 1 to 100 mv rms.

INPUT IMPEDANCE 50 ohms. TUNING BANDSPREAD \pm 3 kc.

AUDIO FILTER 3 db at 5 kc ± 500 cps, maximum attenuation CHARACTERISTICS equal to or more than -50 db at 17 kc. Maximum

passband ripple ± 0.5 db between 300 and 3500

cps.

*AVC CHARACTERISTICS With 40 db change in input, output remains con-

stant within ± 4.5 db.

AVC SPEEDS Slow/Fast.

AUDIO OUTPUT High 2 watts; 600 ohms, 8 ohms.

Low 1 mw; 600 ohms

150 mw; 600 ohms and 8 ohms.

OUTPUT IMPEDANCE. Loudspeaker 8 ohms.

Line 600 ohms.

Headset High or low impedance headset may

be used.

HUM LEVEL At least 50 db down from full audio output.

PRIMARY POWER 115/230v, 50/60 cps, single phase, 65 watts. REQUIREMENTS

INSTALLATION DATA Weight: 28½ lbs.

Size $5\frac{1}{4}$ " h × 19" w × $11\frac{1}{4}$ " d.

ENVIRONMENTAL CONDITIONS Designed to operate in any ambient temperature of

0 to 50° C, and any value of humidity up to 90%

SHIPPING DATA 56 lbs., 4.47 cu. ft.

LOOSE ITEMS Coaxial mating plug and two (2) instruction books.

NOMENCLATURE. CV 1758/URR.

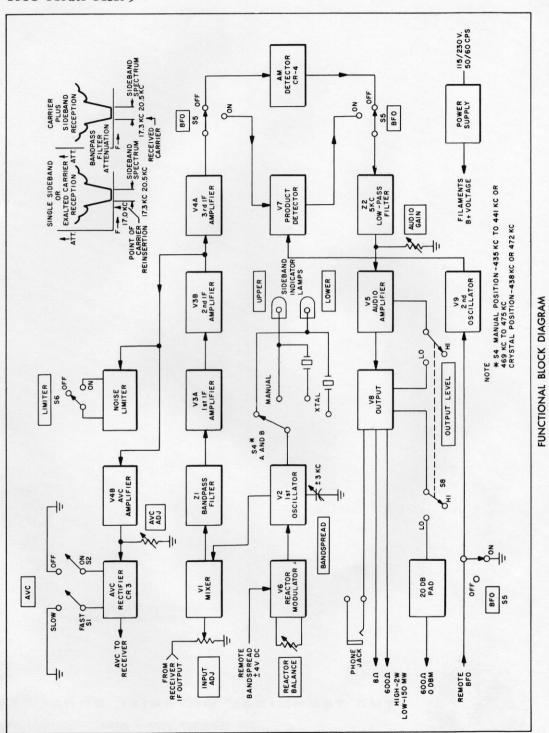
FSN F5820-017-9173 w/o spares.

INSTRUCTION BOOK TMC IN 4005

COMPONENTS AND
All equipment manufactured in accordance with CONSTRUCTION
JAN/MIL specifications wherever practicable.

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^{*}The AVC voltage generated within the MSR-9 is used by the associated receiver. Therefore, these characteristics refer to the operation of the receiver/adapter when the associated receiver has an AGC curve comparable to TMC Model FFR-3.



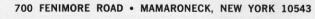
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We reserve the right to make engineering changes

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