TMC SPECIFICATION

NO. S – 931

REV: A

COMPILED: RRH

CHECKED:

APPD:

SHEET COVER OF

TITLE:

Retyped by mtp 6/9/65

OPERATING SPECIFICATIONS

for

RARA-1 – TONE TO D-C CONVERTER

and

RASA-1 – D-C TO TONE CONVERTER

TMC SPECIFICATION

NO. s – 931

REV:	A																	

COMPILED: RRH	CHECKED:	APPD:	SHEET 1 OF 3

TITLE: OPERATING SPECIFICATIONS FOR: RARA-1 – TONE TO D-C CONVERTER

Typed by mtp 6/9/65   RASA-1 – D-C TO TONE CONVERTER

I. OPERATING TOLERANCES

    A. Tracking D-C $\pm 5\%$ tolerance:

        1. Stable
        2. Linear

    B. Tracking Tone Frequency $\pm .1\%$ tolerance:

        1. Stable (Short Term, 1 Day Maximum)
        2. Linear

    C. Operating Temperature:

        $0° - 50°C$, and 95% Humidity

    D. Operating Frequency Spectrum:

        425 cps to 3 K cps

    E. Response Time:

        .2 Seconds to .1 Seconds

    F. Resolution:

        Infinite

II.   A. Input Required for RASA-1:

        16 Channels, Continuously Variable
        D-c Signal, 0 to -10V d-c

    B. Output Required for RASA-1:

        16 Channels, Continuously Shifted
        Audio Tones

III.   A. Input Required for RARA-1:

        16 Channels, Continuously Shifted
        Audio Tones

    B. Output Required for RARA-1:

        16 Channels, Continuously Variable
        D-c Signal +5 to -5V d-c

TMC SPECIFICATION

| | | | | | | | | | | | | | | | | | NO. S - 931 | | | |

REV: A

COMPILED: RRH   CHECKED: APPD: SHEET 2 OF 3

TITLE: OPERATING SPECIFICATIONS FOR: RARA-1 - TONE TO D-C CONVERTER
RASA-1 - D-C TO TONE CONVERTER

Retyped by mtp 6/9/65

IV. Transmission Requirements:

    Telephone and Microwave Circuits (Normal 3 KC Bandwidth).

V. Spurious Modes of Operation:

    A. HUM 60 DB below signal.

    B. No lockouts or alarms.

VI. Power Requirements for RARA-1 and RASA-1

    115/230 a-c, 1-phase, 60 cycles, 50 watts.

VII. Physical Dimensions for RARA-1 and RASA-1

    7" high, 17" deep and 19" wide

    Power supply regulation $\pm 2\%$ (127V a-c input/no load to 103V a-c input
full load.)

    Power supply output rippled: .7 to 1.5 mv rms @ 115V a-c to 103V a-c input.

VIII. Front Panel - 3/16" Aluminum:

    A. <u>Finish</u>

        S404 - yellow iridite.   )
        S114 - Zinc chromate primer)---Front & Edges Only
        S115 - TMC smooth grey enamel)

    B. <u>Machining</u>

        1. Lateral bow of panel must be kept to .031 tol.
        2. Mill all edges.
        3. Panel must be free of all machining marks, gouges & scratches.
If necessary, sand front of panel with No. 120 grit sandpaper.

    C. Lettering

        1. Engraved per TMC Spec S-566

TELESIGNAL SUPPLYING:

    1. Modules - Digital and FS Tone Receivers.

    2. Analog Adapters (TRANSMIT & RECEIVE), to plug in from front of unit.

    3. D-c output from RARA: +5 to -5 volts.

    4. Filter amplifier.

    5. Test Points for testing Audio Out (RASA-1).

TMC SPECIFICATION

NO. S - 931

REV: A

COMPILED: RRH   CHECKED: APPD: SHEET 3   OF 3

TITLE: OPERATING SPECIFICATIONS FOR: RARA-1 - TONE TO D-C CONVERTER
RASA-1 - D-C TO TONE CONVERTER

TELESIGNAL SUPPLYING - Cont'd from pg. 3:

6. Test Points for testing Audio Input (RARA-1).

7. Connectors for plug-in modules.

8. Material list.

9. Input Impedance (RASA-1) - *Greater than 15,000 ohms.*

10. Information to support TMC in writing an Instruction Manual covering unit.

11. Meters (0 to -10V for RASA-1) (-5 to +5V [or 10 to +10], zero center for RARA-1)

12. 16 toggle switches for RASA-1 to place individual channels ON/OFF, and place test voltage to input.

13. 2 wafer switches (1 per unit) for testing indivicual channels.

14. Knobs - TMC MP-123 *-5FB*

TMC SUPPLYING:

1. Name plates - NP-766.

REVISION SHEET

THE TECHNICAL MATERIEL CORP.
MAMARONECK   **NEW YORK**

S-931

LIST NO.

DATE	REV.	SHEET	EMN #	DESCRIPTION	APP.
3/2/65		1 of 3		O=ORIGINAL RELEASE FOR PRODUCTION.	
6/12/65	A	ALL	14248	REVISED & RETYPED COMPLETELY	