S P E C I FICA T I O N

FREQUENCY

Frequency ranges.		
B4A/C 100 kc/s to 80 Mc/s in 6 range	ges. Accuracy $\pm 1\%$.	
Range A: 100– 300 kc/s.	Range D: 3-10 M	Ac/s.
Range B: 300-1000 kc/s.	Range E: 10-30 M	Ac/s.
Range C: $1-3$ Mc/s.	Range F: 30-80 M	Ac/s.
B4B/C 30 kc/s to 30 Mc/s in 6 range	es. Accuracy $\pm 1\%$.	
Range A: 30– 100 kc/s.	Range D: $1-3$ M	Ac/s.
Range B: 100- 300 kc/s.	Range E: 3-10 M	Ac/s.
Range C: 300-1000 kc/s.	Range F: 10-30 N	Ac/s.

R.F. OUTPUT VOLTAGE Accuracy \pm (1 dB + 2% F.S.D.).

The output voltage from the 75 ohm attenuator is fed into a 75 ohm transmission line which is terminated with a 75 ohm dummy aerial pad. The output into 75 ohms is continuously variable from 1μ V to 100mV by means of a 4-step decade attenuator and a continuously variable control. The signal is monitored after the variable control to ensure accuracy at high frequencies.

OUTPUT IMPEDANCE

The output impedance at the end of the unterminated transmission line is 75 ohms. When terminated by the Termination Pad type TP1A supplied with the instrument, three impedance values are available:—

- (1) 37 ohms (with full output).
- (2) 10 ohms (with one-tenth indicated output).
- (3) A standard dummy aerial (with one-tenth indicated output).

INTERNAL MODULATION

Frequency 400 c/s \pm 10% Modulation depth 0 to 80%; \pm 1 dB \pm 2% F.S.D.

EXTERNAL MODULATION

- **B4A** 10 c/s to 30 kc/s, 0 to 80% for frequencies less than 1/30th of the carrier frequency.
- **B4B** 10 c/s to 10 kc/s, 0 to 80% for frequencies less than 1/30th of the carrier frequency.

Approximately 10% modulation depth per volt input into high impedance is obtained. The modulation depth is monitored. Accuracy \pm Independence of the second seco

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A.F. OUTPUT

This is obtained from the internal modulation oscillator at approximately 400 c/s. Output is approximately 0 to 10 volts into 600 ohms.

R.F. LEAKAGE

Good screening and filtering have reduced stray radiation to less than 1μ V.

ACCESSORIES

Each instrument is supplied with the following:-

1 ECC 91 Mullard valve (6J6)

1 6SN7GT valve

1 6X5GT valve

1 Pilot lamp, type M.E.S. 11 mm, 6.5 volts

1 Termination and Dummy Aerial Pad, type TP1A

1 Shielded R.F. Feeder, complete with plugs, type PL5

1 Shielded A.F. Lead, complete with plug and crocodile clips, type PL18

1 Mains Lead, type PL24

POWER SUPPLY

B4A, B4B: 110, 210, 230, 250 volts 40-100 c/s. Consumption approximately 25 watts. A model is also available for 110-125, 140-160, 220 volts 40-100 c/s. and 117 volts 25-60 c/s.

WEIGHT

25 lb (11.4 kg) nett

DIMENSIONS

13 in. \times 12³/₈ in. \times 7¹/₄ in. (33.0 cm \times 31.4 cm \times 18.4 cm)

SPECIFICATION OF TERMINATION PAD TYPE TP1A

Input impedance 75 ohms.

Outputs: 37 ohms at full voltage.

10 ohms giving one-tenth of input voltage.

A standard dummy aerial giving one-tenth of input voltage.

The TP1A is shown on the credit diagram.